

OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY

WATER DIVISION

MIDDLESEX COUNTY, NEW JERSEY

NEXT UPDATE SCHEDULED FOR SEPTEMBER 2013

RULES AND REGULATIONS
GOVERNING APPLICATIONS,
CONSTRUCTION AND THE USE
OF WATER SYSTEMS IN THE
TOWNSHIP OF OLD BRIDGE

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INTRODUCTION

The Old Bridge Municipal Utilities Authority was created by Ordinance Number 40-85 of the Township of Old Bridge adopted on November 27, 1985 pursuant to Municipal Utilities Authorities Law N.J.S.A. 4:14-B-1 et. seq.

N.J.S.A. 40:14b-20 grants Authorities the right "to make and enforce bylaws or Rules and Regulations for the management and regulation of its business and affairs and for the use, maintenance and operation of the utilities system and any other of its properties, and to amend the same".

These Rules and Regulations are adopted pursuant to that grant of power and are applicable to all properties within the Township of Old Bridge and outside the Township of Old Bridge through Agreements with other Municipalities, which properties require domestic, commercial or industrial water use pursuant to statute or to these Rules and Regulations.

The Authority reserves the right to change or amend, from time to time, these Rules & Regulations, and the rates for water service by resolution of the Authority as necessary in the form of an Addendum to the Rules and Regulations.

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I. CONDITIONS REQUIRING AUTHORITY APPROVAL

Any connection into the Authority's water distribution system by developers, property owners, existing homeowners, etc. shall make application to and receive approval from the Authority.

Single family residential connections, which do not require a main extension are subject to the approval process in Section XIII, Customer Service Rules.

Residential subdivisions which require a main extension or hydrant installation, regardless of demand; and all non-residential development such as schools, commercial buildings, industrial buildings regardless of flow; and all other structures where the Authority estimates an average daily demand of 900 gallons, will be required to be connected with the nearest existing water mains of adequate capacity in the Township of Old Bridge and must be granted approval by the OBMUA as a Major Application requiring Preliminary, Tentative and Final Approval in accordance with these Rules and Regulations.

Certain projects can be considered a Minor Application such as commercial projects with only a water service line or irrigation, or a single family unit requiring a fire hydrant. The Authority will make the determination on a case-by-case basis if a proposed connection can be processed as a Minor Application.

The Owner of a non-residential building which presently has an alternate method of potable water supply is required to connect into the Authority's water distribution system whenever said distribution system has been constructed to within 1,000 L.F. of the non-residential building property line as measured along right-of-ways.

The Owner of a residential dwelling which presently has an alternate method of potable water supply is required to connect into the Authority's water distribution system whenever said distribution system has been constructed to within 100 feet of the lot line and 250 feet from the dwelling.

Whenever the square footage of a building increases, approval of the Authority for any addition is required. Additional fees may be required if it is determined that the addition constitutes additional EDCU's. This applies to all structures with the exception of single family residential homes. Authority approval is also required for any non-residential irrigation who's average flow is in excess of 400 gpd, increase in service line size, or any fire sprinkling system. Approval is required to determine if the existing water facilities will need modification due to the increase in demand.

Additionally, when there is a change in operation for non-residential users, this change must be reported to the Authority.

II. DEFINITIONS:

As used in these Rules and Regulations, unless a different meaning clearly appears from the context, the following words shall have the following meanings:

Applicant: the person or developer who has filed an application with the Authority pursuant to these Rules and Regulations

Authority: the Old Bridge Municipal Utilities Authority (OBMUA)

Block: an area delineated as such on the Tax Map of the Township of Old Bridge

Connection Fee: charge per EDCU calculated in accordance with NJSA 40:14B-22. The amount is published in the most current rate schedule. (A fifty (50%) reduction in connection fees will be granted for new connections which are charged to Public Housing Authorities and to non-profit organizations building affordable housing projects.)

Developer: the legal or beneficial owner or owners of a lot or of any land proposed to be included in a development including the holder of an option to purchase or other person having an enforceable propriety interest in such land or an authorized agent of the Owner certified the Authority as such.

Easement: the right to use the land of another for a specific purpose not inconsistent with the general property rights of the Owner.

Equivalent Domestic Consumer Unit (EDCU):

- 1) Residential
 - (a) Each single family dwelling or portion of a structure normally occupied by a single family.
 - (b) Each single family apartment dwelling in a multiple family structure or structures.
- 2) Each commercial, industrial, professional, institutional or public user whose estimated water consumption potentially does not exceed 400 gallons per day. Flows shall be based on average daily water demand in accordance with NJAC 7:10-12.6.
- 3) Where a commercial, industrial, professional, institutional or public user potentially exceeds 400 gallons per day, then each 400 gallons or fraction thereof shall be considered one unit.

4) Each Fire Sprinkler Service Line

House Service Connection:	the pipe and appurtenances between the Authority's street main and the first individual curb shut off.
Lot:	a tract of parcel of land, delineated as such on the Tax Map of the Township of Old Bridge, intended for separate use, development or transfer of ownership.
NJDEP:	the New Jersey Department of Environmental Protection
Owner:	the person or company who has legal title to the lot
Plat:	a map of a development used for the purpose of subdividing lots which will be filed with the County Clerk's Office.
Plan:	the plan of a development of sufficient accuracy to be used for the purpose of discussion and classification and meeting the requirements of these Rules and Regulations.
Right-of-Way:	land subject to use as a street, alley, or crosswalk or for drainage or other public purposes and legally dedicated to a public entity. (See Easement)
Service Unit:	Any Equivalent Domestic Consumer Unit (EDCU) whether residential, commercial, industrial, professional, institution or public receiving water service from the Authority.
Street:	any street, avenue, boulevard, road, land viaduct, bridge, alley or other way which is an existing state, county, municipal or private roadway, including the land between the street lines whether improved or unimproved, and may comprise pavement, shoulders, gutters, sidewalks, parking areas and other areas within the street lines. (See Right-of-Way)
Township:	the Township of Old Bridge in the County of Middlesex, New Jersey.
User Charge System:	the resolutions prescribing charges, rules and regulations relating to connections and users of services of the Old Bridge Municipal Utilities Authority.
User:	any person, firm or entity which consumes water which is distributed by the Authority.

III. GENERAL SUMMARY OF REQUIREMENTS FOR SUBMISSION OF APPLICATIONS FOR WATER SYSTEMS

A. General

The following is a summary; see Section IV for detailed information.

B. Application for Preliminary Approval

An Applicant for preliminary water approval shall be required to submit:

1. Preliminary Application Forms.
2. Application and Review Fees.
3. Completed W-9 Form.
4. Preliminary Engineer's Report.
5. General Map

C. Application for Tentative Approval

An Applicant for tentative water approval shall be required to submit:

1. Tentative Application Forms.
2. Resolution of Preliminary Planning/Zoning Board Approval.
3. Engineer's Construction Cost Estimate.
4. Engineer's Report.
5. General Map.
6. Plan and Profiles.
7. Specifications.
8. Details of Construction.
9. Private Utilities Maintenance Plan (if applicable).
10. Review Fees.

D. Application for Final Approval

An Applicant for final water approval must submit:

1. Final Application Forms.
2. Resolution of Final Planning/Zoning Board Approval.
3. Engineer's Estimate.
4. Engineer's Report.
5. General Map.
6. USGS Quad Map with site location.
7. Plans and Profiles.
8. Final Plat.
9. Specifications.
10. Details of Construction.
11. Completed NJDEP Permit to construct forms if necessary.
12. Escrow Fees.
13. Sectionalization Plan.

E. Application for Extension of Approval

An Applicant for extension of approval must submit the following:

1. Application for Extension of Approval.
2. Fees.

F. Application for Water Meters

An Applicant for Water Meters must submit:

1. Meter Application Form.
2. Fees

G. Revised Applications

1. Change in Scope of Project

An Applicant who has revised his application shall be required to submit:

- a) Revised Application Forms.

- b) Engineer's Estimate.
- c) Engineer's Report.
- d) General Map.
- e) Plan and Profiles.
- f) Specifications.
- g) Details of Construction.
- h) Review Fees.

2. Change in Ownership

Where there is a change in ownership of a property which is or was previously before the Authority for approval, the new Applicant must submit adequate proof of ownership and the required fees.

H. Residential Individual Water Service

I. Application for Minor Approval

An Applicant who requests to be considered as a Minor Application shall be required to submit:

- 1. Preliminary Application Form
- 2. Fees
- 3. Plan

IV. DISCUSSION OF APPLICATION REQUIREMENTS FOR THE APPROVAL OF PLANS FOR WATER SYSTEMS

A. General

All applications must be complete and submitted at least twenty-one (21) calendar days before a regularly scheduled agenda meeting of the Authority. All items must be collated and packaged together for each application. Application number, once assigned, shall appear on all subsequent documents submitted.

Should it be found upon review of any application by the Staff Engineer that the application is deficient in any items required, the application shall be deemed to be incomplete and shall not be reviewed by the Authority until all deficiencies are corrected. If, upon review of the plan submission, it should be determined that the plans or technical submissions are deficient in the requirements set forth herein, the application shall also be deemed incomplete. Resubmission of any plan which has been deemed incomplete must be accompanied with the required application number.

All applications are to be signed by the Applicant or an officer of the Applicant or, if signed by an authorized agent shall be accompanied by an authorization certified by the Secretary of the Owner's organization. If the Applicant is not the owner, the owner must also sign.

Concurrent submission of applications for two or more different stages (e.g. Preliminary and Tentative) of Authority approval on any project may be permitted at the discretion of the Authority.

Approved Preliminary applications will expire and become null and void after a one (1) year period from the date of Preliminary approval. Approved Tentative applications will expire and become null and void after a one (1) year period from the date of Tentative approval. Approved Final applications will expire and become null and void after a one (1) year period from the date of Final approval if no construction takes place. For large developments, where a sectionalization plan has been approved, an approval shall not become void providing that the Applicant is proceeding with development in accordance with his approved sectionalization plan and submitting applications for, or beginning construction of subsequent sections within the time limits for Tentative and Final approval from the date of build-out of the prior section.

The number of units in proposed sections of large developments will be determined at the discretion of the Authority on a case-by case basis. Date of approval is the date of the meeting at which the Authority grants Preliminary, Tentative, or Final approval to

an application. Any approval which expires under the terms of these Rules and Regulations will result in loss of committed capacity and will require the Applicant to resubmit an application for the expired approval to regain the committed capacity; the reapplication shall include all fees. If there is significant change in scope from the original application, the Applicant shall be required to reapply for preliminary approval regardless of the approval stage which expired.

All fees paid on applications that become null and void are non-refundable except for unused escrow and connection fees paid prior to construction, which are refundable upon formal request by the Applicant.

An Applicant can request an extension for an approval. The extension must be approved by the Authority prior to its expiration upon filing of the appropriate form and required fee. Approved extensions shall be for the period described in the above section unless the Resolution granting an extension specifically provides for a period which may be longer or shorter.

Applicants requesting special meetings of the Authority to consider their applications, will be responsible for payment of all expenses and time which is incurred by the Authority (such as advertising costs, secretarial costs, attendance of staff members, attendance of professionals, etc.) in conducting such a meeting.

Capacity shall be reserved in the Authority's water system for developments which have received Preliminary approval of its application. This reserved capacity shall be lost in the event that any approval expires.

All drawings, design reports, specifications and estimates submitted by the Applicant must bear the signatures and raised seal of the Applicant's engineer.

B. Application for Preliminary Approval

1. Preliminary Application Forms:

An application for preliminary review of the proposed water system for the development, shall be submitted to the Authority for a ruling on whether a comprehensive water system is required and whether the Authority's water distribution system can accommodate the proposed demand.

Preliminary application shall be filed on the 2006 form which is attached hereto.

The Applicant shall obtain written permission, from the Owner, to connect into any private distribution system. Proof of such permission must be submitted with the Preliminary Application.

2. Preliminary Fees:

The Applicant shall submit an application fee per Equivalent Domestic Consumer Unit (E.D.C.U.). The Applicant shall also post an Escrowed Review Fee per E.D.C.U. plus outside Professional Review Fee. **The application fee and review fees must be paid by separate checks.** The current fees are listed on a table attached to these Rules and Regulations.

In certain applications, where consulting engineers are utilized to review the water system the Applicant must pay for the consulting engineer's fees in addition to the Preliminary Review Fees.

3. W-9 Form:

A completed Department of the Treasury W-9 Form "Request for Taxpayer Identification Number and Certification", for the purpose of escrow account management, shall accompany the application.

4. Preliminary Engineer's Report:

Provide requirements for expected flow and water demand including required fire flow quantities for the development.

Provide sufficient information to enable the Authority's Engineer to determine if site can be served by water and the proposed demand's affect upon the water distribution system. The Authority may require a Capacity Analysis be performed by the Authority Engineer to assess the impact of the proposed site on the existing distribution system, should the information in the Engineer's report indicate the potential need based on current demands of the system or sub-system. The cost for this will be in addition to the escrow amounts required under Section IV.B.2.

If the Applicant's proposed demand causes an adverse effect upon the Authority's water distribution system, the Applicant shall agree to modify the Authority's water distribution system to accommodate the proposed demand.

5. General Map:

The Applicant shall furnish five (5) copies of a general (overall) map showing the location of the development in the Township with the location of the nearest Authority existing facilities in the area, a description of the proposed method of connection, and five (5) copies of a detailed sketch plat. The sketch plat may be incorporated in the general map. Plans shall be of uniform size, 24" x 36" maximum.

The General (overall) Map shall be based on an Engineering survey or similarly accurate information and drawn at an approximately sized scale so the proposed improvements are legible and shall contain at least the following information:

a. General Information:

- (1) Proposed development name, identifying title, and Block and Lot. No.(s).
- (2) Name and address of the Owner of the tract.
- (3) Name and address of the Developer (if other than the owner).
- (4) Name, address, and professional seal of person preparing plan.
- (5) Key map showing the location of the tract in the municipality.
- (6) The location of that portion of the tract which is to be developed relative to the entire tract.
- (7) The location of any wetland and flood hazard areas on or within 300 feet of the tract.
- (8) The location of all existing and proposed sewers and water mains on the tract. Also indicated to the same scale as the rest of the plan shall be the proposed location of connection to the existing water system.
- (9) The general layout and number of all proposed lots.
- (10) Existing and proposed contours at two (2) foot intervals on the tract. Datum, symbols and conventions shall refer to established USCGS elevations and standards. Assumed datum and conversions are not acceptable.

6. Attend Meeting:

The Applicant or the Applicant's Attorney may attend, but is not required to attend Authority Board Meetings. However, if the Applicant objects to the recommendations of approval, the Applicant or Applicant's Attorney may appear before the Authority at a regularly scheduled meeting (generally the 1st and 3rd Wednesday of every month) to discuss the application with the Authority.

C. Application for Tentative Approval

1. Tentative Application Forms:

Upon notification by the Authority that preliminary approval has been given, the Applicant may submit an application, for tentative approval on the 2006 form which is attached hereto.

2. Preliminary Planning/Zoning Board Approval:

Before OBMUA tentative approval shall be considered, the Applicant must have received preliminary approval from either the local Planning Board or Zoning Board of Adjustment, as shall be appropriate based on the nature and purpose of the application. A resolution of Planning or Zoning Board approval along with any reports generated and Township correspondence shall be submitted with the Authority Tentative application.

3. Engineer's Estimate of Construction Cost (3 copies)

Construction cost shall include, as a minimum, the following items where required: pipe, valves, fire hydrants, house connections, wet taps, booster pumping stations, water storage tanks, appurtenances, restoration of existing roadways and easements, and record drawings. Construction cost estimate shall reflect costs of the Authority's installation of the facilities. The Authority's current unit prices can be obtained from the Authority Engineer's Office.

4. Engineer's Report (3 copies)

A complete Engineer's report in narrative form, setting forth the basis of design shall be submitted to the Authority for each project. The Engineer's Report shall be based on the engineering standards contained in these Rules and Regulations.

All water mains shall be designed to carry the peak hour flows, and, where fire protection is provided, the required fire demand plus the required domestic demand.

Peak hour domestic demand shall be determined by application of appropriate peaking factors on the average daily consumption.

Average daily consumption shall be in accordance with NJAC 7:10-12.6(b)1 or NJAC 5:21-5.1 unless it can be demonstrated to the Authority's satisfaction that a different standard should be applied because of the unique nature of the proposed use.

For commercial, industrial, or special types of residential developments, design flows shall be in accordance with NJAC 7:10-12.6(b)2 et. seq. "Average Daily Water Demand", and are subject to approval by the Authority's Engineer.

The Authority will establish flow standards for any construction not included in the above and verify demands by means of a hydraulic computer model when necessary.

If the size of any water main, as shown by the Applicant's Engineer, and checked by the Authority's Engineer, is inadequate for the future requirements of the area, or if the Authority requires a booster pumping station of greater capacity or head than that required by the Applicant, or if the Authority requires a water storage tank of greater capacity or head than that required by the Applicant, the Applicant shall install the larger facility or facilities if required to do so by the Authority.

The Rules and Regulations, the recommendations of the Authority and the Authority Engineer, and the current Water Master Plan as supplemented by engineering evaluations performed by the Authority Engineer and its consultants, will govern the approximate sizes and locations of transmission mains, and the location of connection into the OMBUA water distribution system.

The Engineer (or Architect) shall provide estimated peak water demand in gallons per minute (gpm), load in fixture units and a listing of fixture types and amounts for the purpose of sizing water meters.

Individual connections to the water main in the street shall be provided for each individual family dwelling proposed for connection. Each connection shall be provided with a curb stop inside the curb line or edge of road.

Where the proposed water main passes lots other than the Applicant's proposed lots, it will be the Applicant's responsibility to install the complete water services (corporation stops, service line and curb stops) to same existing improved lots.

Minimum size of water mains shall be 8" diameter.

Material used in construction of water mains shall be ductile iron pipe, class 52 minimum. House connections shall be type K copper, 1 inch diameter minimum. Each house connection shall include a curb stop and valve box assembly as per the Authority's Standard Details.

5. General Map of the Entire Development

Five (5) copies of a general map of the entire development shall be furnished, showing the water distribution system, (valves, hydrants, booster pumping stations, pressure zones, water supply, storage facilities, easements, valve chambers, and other features requiring permitting approval) for the entire development, necessary off-site facilities and the location of that portion of the tract to be developed

relative to the entire tract. The plan shall show property lines, roads, block and lot numbers and all proposed section numbers if applicable.

The General Map shall be based on an engineering survey or similarly accurate information and drawn to an appropriately sized scale so the proposed improvements are legible. Plans shall be of uniform size 24" x 36" maximum.

6. Plans and Profiles of all Proposed Water Pipelines and Structures:

Five (5) sets of detailed drawings shall be submitted.

The Plans shall contain the following:

a. General Information

- (1) Proposed development name, identifying title, block and lot no.(s), and water application number.
- (2) Name and address of the Owner of the tract.
- (3) Name and address of the Developer, if other than owner.
- (4) Name, address and professional seal of person preparing plans.
- (5) Drawings uniform in size 24" x 36" maximum.
- (6) Drawings at a scale of not more than fifty (50) feet to the inch (match lines and Key Maps shall be shown as necessary).

b. Site Information

- (1) A key map showing the location of the tract in the municipality.
- (2) The location of any wetland and flood hazard areas on the tract or within 300 feet of the tract.
- (3) Tract boundaries as determined from a legal description or engineering survey.
- (4) Existing and proposed contours at one (1) foot intervals on the tract. Datum, symbols and conventions shall refer to established USCGS elevations and standards. Assumed datum and conversions are not acceptable.

- (5) Locations of all existing buildings, streets, waterways, and other significant features.
- (6) Locations of all existing sewers mains, sewer laterals, water mains, water services, culverts, fire hydrants, gas mains, storm drains, catch basins, manholes, and other man-made features on and within three hundred (300) feet of the tract.
- (7) Locations of all existing easements and rights-of-way on the tract.
- (8) Boring logs and tests to indicate subsurface conditions on the tract including potential for acid soils. The Engineer's Report should also include recommendations for water system design and pipe selection, including proper pipe support based on subsurface soils information.

c. Planning Information:

- (1) Proposed location of all roads, curbs, and sidewalks within and adjacent to the tract, with a notation as to the proposed widths of their rights-of-way.
- (2) Proposed location of all lot lines and front set-back lines. All lots shall be numbered and all lot lines dimensioned.
- (3) Proposed locations and widths of all easements and rights-of-ways to be established on the tract and the purpose for which they are to be established.
- (4) Designations as to the proposed use of each lot and an indication of the types, location, and number of buildings and units proposed.

d. Engineering Information

- (1) Proposed locations for all proposed water mains, valves, water services, curb stops, pre-cast meter pits, fire hydrants, booster pumping stations, treatment lines, storage tanks, storm and sanitary sewers, laterals, cleanouts, underdrains, and their accompanying manholes, inlets, culverts and appurtenances.
- (2) Water mains to be constructed as close to the road profiles, with four foot of cover, as possible, with clearance of any sanitary sewer utility crossing by eighteen inches (18") minimum. A minimum of twelve inches (12") shall be provided for all other utility crossings or obstructions (storm, gas,

electric, etc.)

- (3) Where the proposed water mains are located parallel to proposed or existing sanitary sewers, they shall have a parallel clearance of 10' minimum. Where said proposed water mains are located in roadways they shall be 3' minimum off curbing or as directed by the Authority's Engineer.
- (4) Pipe sizes, types and strength classifications including water services.
- (5) Benchmarks, referring to established USCGS elevations, shall be permanently established for the area and shall be set at all supply, treatment and storage facilities.
- (6) Spot elevations of street surfaces to the nearest 0.1 foot.
- (7) Finished first floor elevations at each unit.
- (8) Proposed contours at one (1) foot intervals for the whole tract.
- (9) "Plan" and "Plan and Profile" drawings shall show:
 - (a) All existing and proposed utilities including water supply, sanitary sewers, storm drains, manholes, pumping stations, existing grades and proposed profiles.
 - (b) Sizes, materials, and strength classifications of all pipes.
 - (c) Details of all utility crossings with water mains, including water and sanitary sewer service connection crossings shall be shown and shall indicate clearance between utilities.
 - (d) Standard drawing scales (1" = 50' Horizontal, 1" = 5' Vertical minimum) on each sheet.
 - (e) Sheets numbered consecutively.
 - (f) An index of the streets shall also be shown on each plan and profile sheet.
 - (g) Application number and stage of review.
- (10) Individual connections shall be provided for each individual family dwelling shall be provided with a curb stop at the curb line, edge of road

or easement line as indicated in the Standard Details attached hereto.

(11) The plans must indicate provisions for landscaping, lighting, paved roads and walkways.

(12) For non-residential structures a site specific plumbing schematic of the proposed water meter layout shall be provided.

7. Specifications for the Construction of Water Facilities

Two copies of complete specifications for the construction of the proposed water system and appurtenances, including wells, booster stations, tanks and treatment plants, shall accompany the plans.

8. Details of Construction

The applicable Standard Details for water utility construction shall be shown on a separate sheet from other details.

9. Private Utilities Maintenance Plan

Applicants proposing water utilities which will remain private, other than commercial projects without separate tenants, such as apartment complexes, shall submit a maintenance plan for review and approval which will become part of the Developer's Agreement recorded at the County Clerk's Office.

The Applicant shall prepare a plan for the maintenance of private water utilities which shall include as a minimum the following:

- a. Annual water valve box mark-outs
- b. Annual exercise of valves
- c. Annual hydrant maintenance
- d. Annual inspection of stocked repair parts and equipment
- e. Emergency response plan
- f. Name and telephone number of contact person who will coordinate all maintenance activities with the Authority.

10. Tentative Fees:

An application for Tentative Approval must be accompanied by an escrowed review fee based on the estimated cost of water construction as approved by the Authority Engineer, plus outside Professional Review Fee. The current fees are listed on a table attached to these Rules and Regulations.

11. Attend Meetings:

The Applicant or the Applicant's Attorney may attend, but is not required to attend Authority Board Meetings. However, if the Applicant objects to the recommendations of approval, the Applicant or Applicant's Attorney may appear before the Authority at a regularly scheduled meeting (generally the 1st and 3rd Wednesday of every month) to discuss the application with the Authority.

D. Application for Final Approval

1. Final Application Forms:

Upon notification by the Authority that tentative approval has been given to the proposed water system, or that all conditions of tentative approval have been satisfied, the Applicant may submit an application for Final approval on the 2006 form which is attached hereto.

2. Final Planning/Zoning Board Approval:

Before OBMUA final approval will be considered, the Applicant must have received final approval from either the local Planning Board or Zoning Board of Adjustment, as shall be appropriate based on the nature and purpose of the application. A resolution of Planning or Zoning Board approval along with any reports generated and Township correspondence shall be submitted with the Authority's Final application.

3. Engineer's Estimate of Construction Cost:

Three (3) copies of the approved Tentative Engineer's estimate revised as necessary and labeled "Final".

4. Engineer's Report:

Three (3) copies of the approved Tentative Engineer's report revised as necessary and labeled "Final".

5. General Map:

Five (5) copies of the approved Tentative general map, revised as necessary and marked "Final".

6. USGS QUAD MAP:

Three (3) copies of a USGS Quadrangle map indicating the site location.

7. Plans and Profiles:

Five (5) copies of the approved Tentative plans and profiles, revised as necessary and marked "Final".

8. Final Plat:

Four (4) copies of the Final Plat which will be filed at the County Clerk's Office (if applicable).

9. Specifications:

Four (4) copies of the approved Tentative specifications, revised as necessary and marked "Final".

10. Details of Construction:

Five (5) copies of the approved Tentative details of construction, revised as necessary and marked "Final".

11. NJDEP Construction Permit:

Two (2) original BSDW Application forms and all required attachments shall be submitted to the Authority.

The Authority will coordinate the endorsement signatures and submission of the NJDEP "Permit to Construct/Modify/Operate Public Water Works Facilities", if this permit is needed. Applicant to process all other required NJDEP permits. All NJDEP fees to be paid by Applicant.

12. Final Fees:

An application for Final Approval must be accompanied by an escrowed review fee

based on the entire cost of the water line construction as approved by the Authority Engineer, plus an escrowed outside Professional Review Fee. The current fees are listed in a table attached to these Rules and Regulations.

Connection fees (as set forth in the Authority's current rate schedule) shall be paid at least one (1) week prior to the Authority granting final approval.

The Developer also must pay additional monies, during the course of the project, to maintain sufficient balance in the escrow account as determined by the Authority.

13. Sectionalization Plan

If the Applicant proposes to construct the development in phases, the final application shall pertain solely to those number of units and that portion of the system proposed for the initial phase of construction. As subsequent phases are proposed for construction, the Applicant shall submit final applications and supporting documents solely for each phase. All final applications within the phasing method shall contain an overall water distribution plan indicating the phase seeking final approval together with a list of the number of units proposed for each phase.

14. Attend Meetings:

The Applicant or the Applicant's Attorney may attend, but is not required to attend Authority Board Meetings. However, if the Applicant objects to the recommendations of approval, the Applicant or Applicant's Attorney may appear at a regularly scheduled Authority meeting (generally the 1st and 3rd Wednesday of every month) to discuss the application with the Authority.)

15. Executed Developer's Agreement (After Approval)

The Authority requires a Developer's Agreement between Developer/Applicant and the Old Bridge Municipal Utilities Authority which has been approved in substance and form by the Authority Attorney. The Agreement will be prepared by the Authority after Final Approval is granted. The Agreement will be forwarded to the Applicant for execution. The Developer's Agreement shall be fully executed prior to the pre-construction meeting. After execution of the Developer's Agreement, the document shall be recorded by the Authority in the office of the Middlesex County Clerk. All filing fees to be paid by the Applicant.

16. Performance Guarantee (after Approval):

A Performance Guarantee shall be of a type approved by the Authority and by the Authority's Attorney as to form.

Performance Guarantees shall be in the amount of the total construction cost as defined under "Engineer's Estimate of Construction Cost", and shall be furnished, guaranteeing complete construction within the time period to be specified by the Authority, and further guaranteeing that said construction will be in accordance with the Rules and Regulations of the Authority and the plans and specifications, Engineer's Report, and cost estimates as approved by the Authority.

Performance guarantees shall be submitted prior to scheduling the pre-construction meeting and shall be in a form acceptable to the Authority's Attorney for ninety percent (90%) of the approved construction cost, plus a separate Cash Bond in the amount of ten percent (10%) of the approved construction cost in the form of Cash or Certified Check.

17. Approval of Plans by Local, State, County and Other Agencies

Approval of plans by the New Jersey Department of Environmental Protection (NJDEP) where required, or other agencies will be required by the Authority as a condition of the Authority's Final approval.

The Applicant must also secure any necessary permits or clearances from any public utilities or agencies involved.

The Applicant shall obtain permits for all stream crossings or encroachments and Wetland disturbance from the NJDEP Division of Water Resources, where required.

Permits to construct water mains or other structures within the right-of-way limits of State, County, and Municipal Roads and all Railroads must be secured and paid for by the Applicant.

Plumbing and fire protection permits from the Old Bridge Township Code Enforcement Department must be secured for installation of building service lines and fire protection service lines.

Where a NJDEP Bureau of Safe Drinking Water (BSDW) Application for permit to construct is required, two (2) originals of all required forms and attachments must be prepared by the Applicant in the name of the Authority. The Authority shall submit the application to the State of New Jersey Department of Environmental Protection, with required copies of plans, specifications, Engineer's Reports and NJDEP application fee provided by the Applicant.

Additional studies, calculations, reports, drawings, or additional copies of any data necessary for the applications shall be submitted by the Applicant, if required by the Authority.

E. Application for Extension of Approval

The Authority will consider extensions of approval if it can be demonstrated that the Developer is actively pursuing necessary approvals.

An application must be filed on the 2006 Form which is attached hereto. The application must be submitted sufficiently in advance of the expiration date so that the Authority will have ample time to act on the request of extension prior to the expiration of any phase of approval. Failure to receive an extension of any phase of approval shall render the application null and void.

An application for an extension shall be accompanied by an escrowed review fee. The current fee is listed on a table attached to these Rules and Regulations.

F. Application for Water Meters

Prior to water service being turned-on, each unit must make application for a water meter on a form furnished by the Authority. This application shall be accompanied by the appropriate fee for the cost of water meters as set forth in the Authority's current Rate Schedule.

No water meter will be installed or issued unless all escrow, connection and other fees which are due have been paid and construction is proceeding satisfactorily (including punch-list repairs and record drawings). The Applicant may apply for a maximum of ten (10) meters at any one time. Upon installation and inspection of all meters, additional meters may be applied for.

Water meters one inch (1") or smaller in size will be installed by Authority personnel. Meters larger than one inch (1") shall be installed by the Applicant's plumber; the meter and flanges will be supplied by the Authority.

Water meters will be installed at the exact location indicated on the application form. Once all requirements listed in the "Meter Inspection Checklist", available from the Authority's Engineering Department, are satisfied.

All water meters will be furnished by the Authority and will remain the property of, and under the control of the Authority, and will be made accessible. Meters furnished by the Authority for new construction shall be paid for by the Developer or owner in

accordance with the current rate schedule.

Each water service from curb stop, or meter pit, to a property shall be metered. The Authority reserves the right to determine the size and location of the meter.

The Applicant will provide space for the meter, in accordance with the Authority Standard Details, which shall be readily accessible, and will provide proper protection for the meter. In cases where it is not practical to place the meter within a building, a meter pit, in accordance with the Authority's Standard Details, shall be built inside the property line at the expense of the customer. The size and dimensions of the pit shall be approved by the Authority, provide adequate access to the meter and permit its ready installation or removal.

A ball valves, shall be placed on the service line directly ahead of the meter, and a second ball valve shall be installed on the outlet side of the meter. No by-passing around meters will be permitted.

G. Revised Application:

1. Change in scope of project

After an application has been approved, and there is substantive change, as determined by the Authority's Engineer, in the configuration of the system and/or revision of the road pattern, and/or whenever any off-site change related to the project or section is proposed, a revised application for the previous stage of approval is required.

2. Change in Ownership

Whenever there is a change in ownership by an Applicant, the new Applicant shall provide proof of ownership which is acceptable to the Authority's Attorney.

In addition, the new owner shall submit proof of arrangements with prior owner with regard to the transfer of all fees and bonds to the new Owner previously submitted to the Authority including connection fees, escrow fees, other fees and performance guarantees, along with any other information necessary for complete records on the application. The new owner shall submit a completed Department of Treasury W-9 Form.

The new owner will be assessed an administrative charge for the change of ownership. The current fee is listed on a table attached to these Rules and Regulations.

H. Residential Individual Water Service Connections

Single family residential connections, which do not require a main extension are subject to the approval process in Section XIII, Customer Service Rules.

A service line from the curb stop, or meter pit, to a building shall not service more than one building.

Connections beyond the curb shut-off assembly are under the jurisdiction of the Township Code Enforcement Office through its Plumbing Inspector whose approval will be required.

Materials and method of construction shall be in accordance with Chapter V of these Rules and Regulations and the Authority Standard Details.

I. Application for Minor Approval

1. Application Form:

An application for minor approval review of the proposed water system shall be submitted to the Authority for a ruling on whether the proposal can be processed as a Minor Application.

Minor Approval Application shall be filed on the 2006 form which is attached hereto.

2. Fees:

The Applicant shall submit an application fee per Equivalent Domestic Consumer Unit (E.D.C.U.). The Applicant must also post an escrowed review fee based on the estimated cost of the water construction as approved by the Authority Engineer. The current fees are listed on a table attached to these Rules and Regulations.

Connection Fees will be required prior to approval.

3. Plan:

The Applicant shall furnish three (3) copies of the plan showing the proposed connection into the Authority's system. The plan shall be based on an Engineering survey or similarly accurate information and drawn to an appropriately sized scale so proposed improvements are legible. Plans shall be of uniform size 24"x 36" maximum.

The plan shall include, as a minimum, identifying title, block and lot numbers, existing utilities into which connection is proposed and the proposed location, size and type of the proposed water line.

The Authority will make the determination if the Application can be processed as a Minor Application or if it is considered a Major Application.

The Authority may require additional information on the plans and review fees based upon the scope of the project.

V. DETAILED INFORMATION ON DESIGN AND CONSTRUCTION OF WATER SYSTEMS

A. General Criteria

The following requirements are to be considered minimum requirements for the design and construction of water systems. All references to standard specifications AWWA, ASTM, ASA, ANSI, NSF, NFPA and the like, shall be to the latest revision thereof.

Regardless of size of development, the distribution system shall be capable of supplying the necessary domestic flow and fire protection or peak hour flow, based upon the complete development.

Before any field changes are made, the design Engineer shall revise drawings and submit copies to the Authority for approval. Five (5) copies of the drawings shall be submitted to the Authority and approved prior to construction.

The proposed water distribution system shall be designed and constructed in all respects in accordance with N.J.A.C. 7:10-11 et. seq. "Standards for the Construction of Public Community Water Systems", latest revision, and are subject to approval by the Authority's Engineer.

B. Coordination of Water Service and Responsibilities

The Authority Engineer will not be responsible for the design of the project or any errors or omissions therein; such responsibility shall be solely and completely assumed by the Applicant's engineer, surveyor, architect, or other design professional(s).

The Authority shall have the right to reserve a sufficient supply of water at all times in storage, to provide for fire and other emergencies, or may restrict or regulate the quantity of water used by the customer in case of scarcity, or whenever the public welfare may so require.

It is agreed by the parties receiving public fire service, private fire service, or any other service, that the Authority does not assume any liability, and that the Authority does not guarantee any special service, pressure, capacity, or facility. It is agreed, by the parties receiving service, that the Authority shall be free and exempt from any and all claims for injury to any persons or property by reason of fire, water, failure to supply water pressure or capacity, and for any other reason.

If pumping stations are to be operated and maintained by the OBMUA confined space entry equipment must be supplied by the Applicant. The actual quantity and

specific type of equipment necessary shall be determined by the Water Division Superintendent on a case-by-case basis dependent upon the size of the system.

C. Design of Distribution System and Appurtenances

1. Pipe Friction

In the design of the Water Distribution system, a $C=100$ frictional index based on the Hazen and Williams formula shall be used.

2. System Demand

The average daily, maximum daily and peak hourly water demand rates for commercial, industrial and institutional areas shall be considered separately in the computation of the total system demand and the quantities to be added shall be determined by the Applicant and approved by the Authority. The design of the distribution system shall be based upon the required maximum domestic demand plus the fire demand or peak hour flow whichever is greater.

3. Hydraulic Analysis

The Hardy Cross method or an equivalent method shall be used in balancing loops. Where practical, the use of a nationally certified computer simulation program shall be used.

4. Pipe Size and Cover

The minimum size of water mains shall be eight (8) inches. Minimum depth of cover shall be four (4) feet from the top of the pipe to the finished grade.

5. Looping of Mains

Distribution mains shall be inter-connected into closed loops so that the supply may be brought to the consumer from more than one direction. Where dead ends are unavoidable they shall not be permitted in excess of 500 feet. All dead end lines shall be provided with a means of flushing. Hydrants shall be located at the ends of lines providing fire protection and valves of full line size at ends of all dead end lines which may be extended in the future.

6. Wet Taps

All wet cuts will be performed by the Authority. The Developer shall excavate and supply and install all materials; however, only the Authority shall perform the drilling operation at a cost in accordance with the current rate schedule.

7. Valve Placement

Valves shall be located on distribution mains so that not more than one hydrant shall be out of service for one single break. Line valves shall be provided at least every 1,000 feet. Three (3) valves shall be provided at each "tee" fitting; and four (4) valves shall be provided at each "cross" fitting installed. Butterfly valves shall be furnished on 14" main or larger and be so indicated on the plans.

8. Air Release Valves

Fire Hydrants shall be provided at all high points in the system for air release purposes, and at all dead ends for blow-off purposes. If specifically required, an approved air release valve in a vault for air release shall be located at all high points in a distribution system, with proper means of drainage provided. Tangent tees on water mains 10" and larger will be required. If specifically required, an approved blow off assembly shall be located at all blow offs. Tangent tees on water mains 10" and larger will be required.

10. Pressure Reducing Valve

Pressure reducing valves in suitable Precast Concrete vaults shall be installed where required by the Authority. Bypasses shall be included.

11. Utility Easements

Unrestricted easements to the Authority water mains shall be a minimum of 20 feet wide. The pipe shall be placed ten (10) feet off either easement line to allow sufficient room for maintenance or installation for future pipe.

12. Fire Hydrants

Where practical, hydrants shall be located wherever possible at each street intersection and shall be so distributed that in no instance shall hydrant spacing exceed 500 feet for residential areas, and 300 feet within commercial areas all measured along paved roads. The Fire Official shall also approve fire hydrant locations.

13. Water Storage

Storage in elevated tanks or standpipes shall have a total effective capacity which, when combined with pumping capacity, shall be at least equal to the fire demand flow plus the maximum day consumption, or meet the peak hour demand

requirements, whichever is greater.

The water levels in all elevated storage shall be as required by the latest revision of Water Supply Master Plan.

A double acting altitude valve shall be used for water level control in elevated storage tanks and standpipes. A bypass line and vault shall also be provided.

Hydro-pneumatic systems will not be accepted.

14. Booster Pump Station

1. Design

At least two pumps shall be provided, each capable of handling the total ultimate peak flow. If more than two pumps are used, their capacities shall be such that upon failure of the largest pump, remaining units will handle the peak flow.

An auxiliary generator (diesel or natural gas) shall be provided with electrically driven pumps. The generator shall be sized to start the second pump with the first pump running and with accessory equipment on line. Automatic start and transfer provisions shall be included.

Minimum pipe size in pump stations shall be 6 inch diameter.

Pre-fabricated pump stations shall be factory painted with anode packs for corrosion control and shall have minimum plate thickness of 3/8 inches throughout, 4 foot diameter entrance tubes and steel entrance covers.

All facilities shall be designed for ease of maintenance. Sump pump, dehumidifier and lifting ring provisions shall be included.

Automatic visual and audible alarms shall be installed independently of station power and shall give warning of high and low pressure and power failure both locally and remotely by telemetering the alarm to the Authority offices.

The Applicant shall provide and install at his expense a telemetering system consisting of the following components:

- a. Solid state electronic flow transmitter
- b. Direct acting 12" circular flow recorder

c. Remote terminal unit (RTU)

The system chosen will be approved by the Authority on a case-by-case basis to be sure it is compatible with the OBMUA's system.

Adequate light, ventilation, heat and fresh water supply shall be provided in accordance with the appropriate OSHA requirements.

Complete repair tools, manufacturers recommended spare parts and accessories shall be provided with the pumps.

Pumping station plans and specifications must include provisions for crushed stone ground cover, shrubbery, paved roads, and the entire facility must be surrounded by a seven foot chain link fence with full pipe supports. A sliding truck gate must be provided.

The station shall include any other equipment the staff deems necessary for efficient operation and maintenance.

2. Shop Drawings

The Contractor shall submit three (3) copies of manufacturers' shop drawings and details which shall describe the materials, dimensions, construction, control system, performance and operating characteristics of any pump station equipment, storage tanks, etc.

The Contractor shall also submit two (2) bound copies of operation and maintenance manuals, as applicable, including product data, installation instructions, parts inventory listing, purchase source listing and emergency instructions for equipment supplied.

The review of shop drawings will be general only, and nothing contained in this section shall relieve, diminish or alter the responsibilities of the Contractor and/or design Engineer.

No equipment shall be purchased or fabricated until the Authority Engineer has reviewed the shop drawings. No work shall be done on any part of a structure, the design or construction of which is dependent upon the features for which the review is required, until comments have been solicited by the designer.

15. Chambers – Interconnection, Pressure Control and Other

The detailed design requirements are to be found in Water Construction Standards, Exhibit G.

16. Water Supply Wells

The detailed design requirements are to be found in Water Construction Standards, Exhibit G.

17. Fire Protection

Fire protection provisions are under the jurisdiction of the Township Fire Sub-Code Official. All fire protection provisions shall meet the requirements of AWWA, Manual M31 “Distribution System Requirements for Fire Protection” and “Old Bridge Township Fire Prevention Code”. The Authority Rules and Regulations concerning fire protection shall be considered minimum standards.

Fire protection shall be furnished for all developments. In any event, the Applicant shall provide the required fire flows in all areas in addition to the maximum daily requirements based upon 400 gallons per EDCU.

The required fire flow is the rate of flow needed for fire fighting purposes to confine a major fire to the buildings within a block or other group complex. The determination of this flow depends upon the size, construction, occupancy, and exposure of buildings within and surrounding the block or group complex; consideration may be given to automatic sprinkler protection.

A required fire flow shall be determined at appropriate locations in the system. The minimum recognized water supply shall be 500 gpm for 2 hours for fire protection, plus consumption at the maximum daily rate. The residual pressure in the system restricted to 20 psi or greater.

A water supply shall be considered to be adequate if it can deliver the required fire flow for the number of hours specified in the following table by the Insurance Services Office.

Required Fire Flow (gpm)	Required Duration (hours)
10,000 or greater	10
9,500	9

Required Fire Flow (gpm)	Required Duration (hours)
9,000	9
8,500	8
8,000	8
7,500	7
7,000	7
6,500	6
6,000	6
5,500	5
5,000	5
4,500	4
4,000	4
3,500	3
3,000	3
2,500 and less	2

In the event that the design peak hour demand flow rate exceeds the maximum day consumption plus the fire flow rate required above, the system shall be designed for the greater rate.

D. Construction of Distribution System

1. Pipe Materials

Pipe material to be used in construction of water mains shall be cement lined ductile iron pipe conforming with AWWA C151.

For bridge crossings, or other special aerial installations, pipe material shall be steel.

Ductile iron pipe shall be centrifugally cast in metal or sand molds in accordance with A.N.S.I. specification A21.51, minimum thickness Class 52, unless otherwise required. The joints shall conform with the requirements of ANSI A.21.11 and shall be of a type that employs a single elongated groove gasket to effect a joint seal such as United States Cast Iron Pipe Company's "Tyton" joint, James B. Clow and Sons. Inc. "Bell-tite" or approved equal.

The outside of the pipe shall be coated with a uniform thickness of a hot applied coal tar approximately 1 mil. thick and the inside of the pipe shall be lined with cement 1/8" thick and bituminous seal in accordance with the American Standard Specifications for cement mortar lining for cast iron pipe and fittings, ANSI, A21.4.

Steel pipe shall conform to AWWA C-200. Steel pipe under 12" in diameter shall be Schedule 80, 12" and over shall have a wall thickness of 0.500 inches. Steel pipe shall be cement mortar lined and coated in accordance with AWWA C104. Buried steel pipe shall be wrapped in accordance with AWWA C203, Section A1.4, Fiberglass and asbestos felt wrap. Exposed steel pipe shall be primed (2 mil. dry) and painted, 3 coat vinyl (2 mil. dry), (4 mil. total, min.).

2. Pipe Bedding and Trenching

Trench dimensions, maximum depths, and bedding requirements (including cradles and encasement) for water mains, etc. shall be in accordance with the manufacturer's recommendations and as a minimum shall conform to the details shown on the Water Systems Standard Details included as part of these Rules and Regulations.

The Applicant's application for tentative review by the Authority shall include trenching dimensions and bedding details including reinforcing bar schedules for concrete cradles where applicable.

3. Valves

Mechanical joint valves 12" and under shall be Mueller Company Figure A-2360, or approved equal, epoxy lined resilient wedge, non-rising stem valves manufactured to AWWA C-509 Specifications with square operating nuts. Mechanical joint valves greater than 12 " shall be Mueller Lineseal XP Butterfly Valve #5227 with EPDM rubber seat and seals, or approved equal conforming with AWWA C-500 Standards.

All valves shall have mechanical joint ends and retainer glands. Bonnet and stuffing box nuts and bolts shall be 316 stainless steel fasteners. Valve body shall have epoxy coated internal and external.

Tapping sleeves shall have duck-tipped end gaskets with a working pressure of 200 psi. Sleeves shall be Mueller #H-615 or equal.

All valves shall open left or counter-clockwise.

Valve boxes shall be Bingham & Taylor #5564S with cover, or approved equal. Cover shall be lettered "water". It shall be the responsibility of the Contractor to furnish valve boxes of suitable length for each location such that the rim of the box shall be flush with the ground or paving surfaces. Valve boxes for use on valves up to 12" shall be two-piece, cast iron, sliding type, with sizes to fit the depth of trench.

Ductile iron elbows, tees, crosses and sleeves shall be either United States Cast Iron Pipe Company, or approved equal, fittings. Flanged end fittings shall conform to ASA Standard B-16 drilled for 125 lb. service.

4. Hydrants

The hydrants shall comply with AWWA Standard C-502 and shall be Mueller Super Centurion 250 Model A-423, 5 1/4" valve opening, 6" mechanical joint inlet connection, 4' - 6" bury, National Standard 1 1/2" pentagon operating nut, open left, with two 2 1/2" hose nozzles and one 4 1/2" pumper nozzle National Standard Thread, or approved equal.

All hydrants shall be connected to the main line with pipe not less than six (6) inches in diameter. A gate valve and box shall be located between the hydrant and the main in accordance with the Standard Details attached hereto.

5. House Service Connections

Each new house service connection shall include a corporation stop, a minimum of 1" diameter Type K copper service pipe and flare fittings, curb stop and box, and service pipe extension beyond the curb stop for connection by others. 1" Diameter type "K" copper shall conform to ASTM Spec. B-88 and B-251. Corporation stops shall be Mueller Company Model #B25000 for 1", 1-1/2" and 2" sizes or approved equal conforming to AWWA C-800.

Curb stops shall be Mueller Company Model Mark II oriseal #H-15204 for 1", 1-1/2" and 2" sizes or approved equal.

Curb boxes shall be Mueller Figure H-10314 for 1" size and H-10310 for 1-1/2" to 2" sizes with rod and cover (54 inch (54") length) or approved equal. Cover shall be lettered "water". Each box shall be furnished with a double "S" stationary rod for use on curb stops up to 1". Curb boxes shall be coated inside and out with tar base enamel. Curb box lid threads shall be treated to prevent seizing prior to acceptance. All curb boxes must be ordered with stainless steel rods and pins (#88055 or approved equal).

Service saddles shall be bronze double strap type with tapered (cc) threads Mueller #BR2B-Series or approved equal. All service saddles shall be provided with an "O" ring seal.

Meters and yokes shall be furnished by the Authority in accordance with the current rate schedule. 5/8" x 3/4" and 1" meters will be installed by the Authority. Meters larger than 1" shall be installed by the Owner's plumber.

E. Water Supply, Treatment or Storage Facilities

Plans for water supply, treatment or storage facilities shall include a general site plan with property boundaries and existing and proposed one (1) foot contours, proposed structures, wells, pumping stations, treatment plants and/or storage facilities with capacities, proposed mechanical and piping plans, electrical plans, underground piping, underground and overhead wiring and other details necessary for review of the proposal. Automatic on-site standby power facilities shall be provided. A flow diagram shall be included for treatment plants.

The details of all storage facilities shall include tank dimensions, minimum water level and overflow level, capacity, foundations, piping, valve pit dimensions, etc.

The detail plans for wells shall show the depth, size and construction of each well. The ground strata through which the well is to be driven shall be shown in cross-section.

VI. INSPECTION OF WATER SYSTEM DURING THE COURSE OF CONSTRUCTION

A. General

All construction of water systems shall be under the jurisdiction of the Staff Engineer for the Authority, either directly or through inspectors under his supervision. He shall enforce compliance with the approved plans and specifications. This inspection does not relieve the Design Engineer of his responsibility or liability as a representative of the Applicant and as designer of the project.

Construction or testing of water systems shall be performed during the regular Authority working hours of 7:00 A.M. to 3:30 P.M. Monday thru Friday, excluding holidays, unless otherwise approved by the Authority.

No house service connections shall be made to a street main, whether tested or not, unless under the supervision and inspection of the Engineer for the Authority.

Neither the Authority Engineer's authority to act under this Article nor any decision made by the Authority Engineer in good faith either to exercise or not exercise such authority shall give rise to or create any duty or responsibility of the Authority Engineer to the Applicant, any Subcontractor, any Supplier, or any other person or organization performing any of the Work, or to any surety for any of them.

Wherever in the Approved Plans the terms "as ordered", "as directed", "as required", "as allowed", "as approved" or terms of like effect or import are used, or the adjectives "reasonable", "suitable", "acceptable", "proper" or "satisfactory" or adjectives of like effect or import are used to describe a requirement, direction, review or judgement of the Authority Engineer as to the Work, such requirement, direction, review or judgment will be solely to evaluate the Work for compliance with the Approved Plans. The use of any such term or adjective shall not be effective to assign to the Authority Engineer any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of this section.

The Authority Engineer will be the interpreter of the requirements of the Approved Plans and judge of the acceptability of the Work thereunder.

The Authority Engineer and other representatives of the Authority, testing agencies and governmental agencies with jurisdictional interest will have access to the Work at reasonable times for their observations, inspecting and testing. The Applicant shall provide proper and safe conditions for such access.

The Authority Engineer will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed Work and to determine, in general, if the Work is proceeding in accordance with the Approved Plans and Specifications.

The Authority Engineer will have authority to disapprove or reject Work which the Authority Engineer determines to be defective, or, when in the opinion of the Authority Engineer, is not being constructed consistent with good engineering practice and will also have authority to require special inspection or testing of the Work, the cost for which shall be borne by the Applicant.

1. Applicant's Obligations and Performance Requirements

The Applicant shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Approved Plans and Specifications.

The Applicant shall be solely responsible for the means, methods, techniques, sequences and procedures of construction.

The Applicant shall provide on the job site at all times during the Work a competent superintendent. The superintendent will be the Applicant's representative at the site and shall have authority to act on behalf of the Applicant. All communications given to the superintendent shall be as binding as if given to the Applicant.

The Applicant shall provide competent, suitably qualified personnel to survey and layout the Work and perform construction as required by the approved Plans and Specifications; and shall at all times maintain good discipline and order at the site. All utilities must be staked out and cut (grade) sheets shall be supplied to the Authority Engineer prior to construction.

The Applicant shall give a minimum of forty-eight (48) hours notice to the Authority prior to construction or testing of water systems at all times during the construction period. No pipe shall be installed nor any excavation backfilled without the Authority Engineer or other representative of the Authority being on-site. Should any water construction be performed wherein a qualified inspector is absent due to the Applicant's failure to provide the proper notification, the Authority may require said work to be uncovered at the Applicant's expense. Failure to do so may result in non-acceptance of the work in which case removal and reinstallation may be required.

All materials and equipment shall be of good quality and new, except as otherwise provided in the Approved Plans and Specifications.

If required by the Authority Engineer, the Applicant shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment.

The Applicant shall be fully responsible to the Authority and the Authority Engineer for all acts and omissions of the Subcontractors, Suppliers and other persons and organizations performing or furnishing any of the Work under a direct or indirect contract with the Applicant.

Nothing in the Approved Plans shall create any contractual relationship between the Authority or the Authority Engineer and any such Subcontractor, Supplier or other person or organization, nor shall it create any obligation on the part of the Authority or the Authority Engineer to pay or to see to the payment of any moneys due any such Subcontractor, Supplier or other person or organization.

All work performed for the Applicant by a Subcontractor will be pursuant to an appropriate agreement between the Applicant and the Subcontractor which specifically binds the Subcontractor to the applicable terms and conditions of the Approved Plans and Specifications for the benefit of the Authority and the Authority Engineer.

The Applicant shall obtain and pay for any and all construction permits and licenses. The Applicant shall pay all governmental charges and inspection fees necessary for the prosecution of the Work. The Applicant shall pay all charges of utility owners for connections to the Work.

The Applicant shall give all notices and comply with all Laws and Regulations applicable to furnishing and performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither the Authority nor the Authority Engineer shall be responsible for monitoring the Applicant's compliance with any Laws or Regulations.

The Applicant shall confine construction equipment, the storage of materials and equipment and the operations of workers to the Project site and land and areas identified in and permitted by the Approved plans and other land and areas permitted by Laws and Regulations, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. The Applicant shall assume full responsibility for any damage to any such land or areas contiguous thereto, resulting from the performance of the Work.

During the progress of the Work, the Applicant shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the Work. At the completion of the Work the Applicant shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction

equipment and machinery, and surplus materials, and shall leave the site clean and ready for occupancy. The Applicant shall restore to original condition all property not designated for alteration by the Approved Plans.

The Applicant shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall the Applicant subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

The Applicant shall, at all times, provide for continuity of safe storm water flow and prevention of soil erosion.

If at any time it is necessary to close a street or traveled way which is used by occupants or the public, the Applicant shall provide and maintain proper signs, lights, barricades, and any other traffic control devices, including traffic directors, as deemed necessary by the Police Department with jurisdiction. Adequate notice (one week preferred) of such closings shall be given to the local Emergency Services, the School Board and any local residents as a minimum. No public road or other traveled way used by the public shall be closed at any time without the express written consent of the owner thereof.

The Applicant will be responsible for locating and protecting all existing utilities including, but not necessarily limited to, water, steam, oil, gas, sanitary sewers, storm sewers, drains, telephone ducts and electric conduits, or any other similar facilities which may be encountered during the construction operation. He shall be held solely responsible for locating all underground structures. He shall, at his own expense, arrange with the owners of such utilities for their aid and assistance in locating and protecting them and shall pay all charges, costs and expenses in connection therewith. He shall also provide the Authority with copies of the NJ One-Call mark-out request reference number and any correspondence requesting the stake-outs for the various utilities if requested.

All damage, injury or loss to any property caused, directly or indirectly, in whole or in part, by the Applicant, any Subcontractor, Supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by the Applicant.

The Applicant shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. The Applicant shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

- o all employees on the Work and other persons and organizations who may be affected thereby;

- o all the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
- o other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavement, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.

The Applicant shall comply with all applicable Laws and Regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. All construction shall be performed in accordance with the Contractor's OSHA approved Confined Space Plan and all other applicable OSHA requirements. The Contractor is solely responsible for safety, adequacy and efficiency of all means and methods for construction.

The Applicant shall notify owners of adjacent property and of underground facilities and utility owners when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation and replacement of their property.

The Applicant's duties and responsibilities for the safety and protection of the Work shall continue until such time as all the Work is completed and the Authority Engineer has issued a notice to the Authority and the Applicant that the Work is acceptable and the Authority officially and formally accepts the Work by Resolution.

The Applicant shall also furnish the name of occupant, the street address and lot and block number of every connection made to an approved section of water main during each month.

The Applicant shall maintain in a safe place at the site one record copy of all Approved Plans in good order and annotated to show all changes made during construction. These record documents together with all approved Shop Drawings will be available to the Authority Engineer for reference.

The Applicant shall warrant and guarantee to the Authority and the Authority Engineer that all Work will be in accordance with the Approved Plans and will not be defective.

2. Limitations on the Authority's Engineer's Responsibility

The Authority Engineer will not be responsible for the Applicant's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto.

The Authority Engineer will not be responsible for the Applicant's failure to perform or furnish the Work in accordance with the Approved Plans.

The Authority Engineer will not be responsible for the acts or omissions, of the Applicant or of any Subcontractor, any Supplier, or of any other person or organization performing or furnishing any of the Work.

B. Pre-Construction Meeting

All developers are required to attend a pre-construction meeting prior to any water or sewer utility work at the site. The developer shall have his utility contractor(s) attend the pre-construction meeting to discuss the work and requirements of the Authority. For sectionalized developments, pre-construction meetings will be required prior to any utility work within each section.

All outstanding items which were conditions of approval shall be presented prior to the meeting including the following:

- a) Outstanding Fees and Performance Guarantees
- b) Proof of all Required Permits and Off-Site Easements
- c) Executed Developer's Agreement
- d) Executed utility easements which will be dedicated to the Authority.
- e) Proof of filing for all private utility easements.
- f) Insurance Certificate

Utility construction shall not begin until a written "Notice to Proceed" is issued by the Authority.

C. Insurance Requirements

The Developer must submit to the Authority certificates of Insurance satisfactory to the Authority. Certificates of Insurance must have the following minimum limits:

Bodily Injury Liability	\$500,000 - \$1,000,000
Property Damage Liability	\$500,000 - \$1,000,000
Workmen's Compensation required by the laws of the State of New Jersey.	

The Applicant shall name the Authority as an additional insured, as well as agree and undertake to indemnify and save and hold harmless the Authority and the Authority's engineers and respective employees and agents in all manners pertaining to the construction.

D. Testing of Completed Water System

All water system facilities shall be subjected to pressure testing utilizing hydraulic pressure.

Prior to making pressure tests, the water system must be complete; including, but not limited to, valves, hydrants and all appurtenances in proper locations and to grade. The pipe shall be filled by Authority personnel. The pipe shall be tested under 150 psi pressure at the highest point in the system by the Contractor. No leakage will be permitted over a one hour period minimum.

Prior to the Authority making wet cuts, wet tapping sleeves and insertion valves will be tested by the Contractor with air pressure; 150 psi for five (5) minutes.

Fire protection or combination domestic/fire protection services are subject to more stringent testing of 200 psi for 2 hours with no leakage.

The Applicant's contractor shall furnish all labor, material and equipment necessary for the testing.

Any pipe, joint, or other part of the water construction found to show leakage shall be repaired, or removed and replaced.

Requirements for testing of wells, and booster pump stations and for equipment performance testing shall be established by the Authority.

If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) to specifically be inspected, tested or approved, the Applicant shall assume full responsibility therefore, pay all costs in connection therewith and furnish the Authority Engineer the required certificates of inspection, testing or approval.

All inspections, tests or approvals other than those required by Laws or Regulations of any public body having jurisdiction shall be performed by organizations acceptable to the Authority Engineer, and the Applicant shall assume full responsibility therefore, pay all costs in connections therewith and furnish the Authority Engineer the required certificates of inspection, testing or approval.

If any work that is to be inspected, tested or approved is covered without testing, inspection, or approval by the Authority Engineer, it must, be removed and reinstalled. Such uncovering shall be at the Applicant's expense unless the Applicant has given

has not acted with reasonable promptness in response to such notice.

Neither observations by the Authority Engineer nor inspections, tests or approvals by others shall relieve the Applicant from his obligations to perform the Work in accordance with the Approved Plans or Specifications.

If required by the Authority Engineer, the Applicant shall properly, as directed, either correct all defective Work, whether or not fabricated, installed or completed, or, if the Work has been rejected by the Authority Engineer, remove it from the site and replace it with non-defective Work. The Applicant shall bear all direct, indirect and consequential costs of such correction or removal (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) made necessary thereby.

E. Disinfection

Before being placed in service, all water mains, appurtenances, pipe, treatment units and storage tanks shall be disinfected. The Contractor shall chlorinate the mains during construction using granular calcium hypochlorite. Sufficient hypochlorite shall be placed in the mains to ensure that a minimum dosage of 50 mg/l will exist when the lines are filled. After construction is complete, the main will be filled by Authority personnel. The chlorinated water (50 ppm, minimum) must remain in the mains for a least twenty-four (24) hours.

When chlorination is complete the mains will be flushed by Authority personnel until the chlorine concentration in the water leaving the main is no higher than that generally prevailing in the system. The Contractor is responsible for drainage of the flushing water.

The Applicant may, at his option, chlorinate storage tanks by spraying all interior surfaces with a solution containing 500 parts per million concentration of chlorine. A solution of not less than one percent of the tank capacity shall be prepared at this concentration and shall be continuously sprayed to give a uniform concentration on all surfaces. The tank shall then stand with drain closed for at least 12 hours. When the required time has elapsed, the tank shall be drained and flushed with water.

After final flushing, a bacterial analysis, by a certified laboratory licensed by the NJDEP and the State of N.J., shall be made for both Total Coliform and Total Heterotrophic plate count or additional tests as required by law.

The bacteria test samples shall be collected by the Authority and charged to the Applicant's escrow account.

Satisfactory written results must be received by the Authority before the Authority will place the main in service.

If the initial disinfection fails to produce satisfactory results, the lines shall be re-flushed and re-tested twice so as to produce two (2) consecutive passing results. If either re-test fails, the mains must be rechlorinated.

VII. RECORD DRAWINGS, EASEMENT MAPS AND DESCRIPTIONS, AND MANUALS

A. Record Drawings

After construction and before final acceptance by the Authority, the Applicant shall furnish the Authority the two (2) sets of prints of each drawing showing the details of the distribution system, all facilities, connections, etc., as actually constructed in Plan. Record Drawings shall include all information listed on the most current "Record Drawing Review Checklist", available from the Authority's Engineering Department.

Data required on the Record Drawings includes materials of construction, depth of valves, location by triangulation of curb boxes and any valves to the outermost prominent foundation corners, and the book and page numbers and legal description of all utility easements. Drawings shall be free of all extraneous information such as storm sewers, gas, electric (except at booster pump stations or storage tanks), contours, landscaping, etc; construction information shall be erased and changed rather than crossed out. Record drawings shall be signed and sealed by the licensed professional preparing such plans. The title block shall indicate that these are "Record Drawings" with the date of preparation.

After construction and before final acceptance of booster pump stations by the Authority, two (2) complete and up to date sets of operation and maintenance manuals including materials and parts listings, approved by the Authority's Engineer, shall be furnished.

Once the Record Drawings are found acceptable by the Authority's Engineer, the Applicant shall furnish the Authority one (1) complete set of reproducibles, and two (2) sets of prints of each approved drawings. The Applicant shall also submit the file on a compact disk formatted for Windows compatibility. The file shall be in one of the following formats: Auto CAD drawing file (dwg), ESRI Shapefile (shp), Drawing Exchange Format File (dxf) or MicroStation drawing file (dgn).

Exceptions may be granted for circumstances where production of digital file copy presents an undue hardship. In such case as where the original plans are hand drawn, the Authority, at its discretion, may require scanned copies in lieu of a digital file copy.

B. Easements

All required easements to be deeded to the Authority shall be clearly indicated on the drawings. Easements shall be unrestricted and shall be a minimum width of twenty (20) feet, ten (10) feet minimum on either side of the pipe. Greater widths may be required based upon the size, depth and/or location of main.

Where water lines are to be installed in streets which will not be dedicated to the Township of Old Bridge the County of Middlesex or State of New Jersey (private roads), the easement width shall be the entire width between the curb lines.

The Applicant shall furnish two (2) prints of easements maps together with metes and bounds descriptions for each easement to be deeded to the Authority. Maps and descriptions shall be sealed by a licensed Land Surveyor and be suitable for filing at the office of the County Clerk.

Easements in a form approved by the Authority's Engineer and Attorney and executed by the property Owner and/or other parties with interest, will be required where water lines to be dedicated to the Authority are not located in public right-of-ways.

Title insurance policies shall be required for each easement conveyed to the Authority in an amount to be determined by the Authority but shall in no case be less than \$10,000.

VIII. RELEASE AND REDUCTION OF PERFORMANCE GUARANTEE

A. Completed Construction Inspection

After completion of all hydrants and water mains proposed, and before use, the Authority shall be in receipt of the following:

- a. Satisfactory pressure testing results.
- b. Preliminary Record Drawings
- c. Bacteria test certification.

Upon receipt of all required items, the Authority will perform a Completed Construction Inspection to determine that all hydrants and main lines are free of physical defects.

B. Reduction of Performance Guarantee

Where the amount of the performance guarantee is in excess of \$100,000, the developer may request not more than one reduction in the amount of the Performance Guarantee when in excess of fifty percent (50%) of the improvements to be installed are completed. The reduction shall only be made upon favorable recommendation of the Authority's Engineer and shall not exceed seventy percent (70%) of the dollar value of the improvements installed.

The Authority Engineer will determine the actual quantities and classifications of Work performed by the Applicant for bond reduction purposes. Such bond reductions shall not constitute acceptance or approval of any work performed which is included in the bond reduction.

C. Final Inspection

After satisfactory completion of all water service lines and curb boxes, the Authority will perform a Final Inspection to determine that water service lines and curb boxes are free of physical defects. If construction is proceeding in an acceptable manner water meters will be issued.

D. Release of Performance Guarantee

Upon submission of all items listed under Section IX "Acceptance of New Water System by the Authority", the developer may request release of the Performance Guarantee.

Water systems which will be dedicated to the Authority shall be maintained by the Applicant for a period of two (2) years. If within two (2) years after the date of release of the performance guarantee any Work is found to be defective, the Applicant shall promptly, and in accordance with the Authority's written or verbal instructions, either correct such defective Work, or, if it has been rejected by the Authority, remove it from the site and replace it with non-defective Work.

IX. ACCEPTANCE OF NEW WATER SYSTEM BY THE AUTHORITY

After satisfactory completion of all structures proposed, the Applicant shall:

1. Have water meters installed in all units and/or buildings.
2. Provide the Authority with record drawings in accordance with Chapter VII.
3. Provide the Authority with copies of any Final Plats filed with the Middlesex County Clerk's office.
4. Formally dedicate to the Old Bridge Municipal Utilities Authority the constructed water lines within public right-of-ways or easements up to and including the curb stop and boxes with a recordable document. The Deed of Dedication shall be in a form approved by the Authority's Engineer and Attorney. This does not apply to facilities which will remain privately owned.
5. Give proper title to all lands, easements, structures, appurtenances and improvements where appropriate by deed or appropriate dedication. Title Insurance Policies shall be provided when required by the Authority.
6. Provide warranties for all equipment installed extending beyond the maintenance period.
7. Provide affidavit which certifies that all facilities are free of liens or other encumbrances. The Applicant shall, to the fullest extent permitted by Laws and Regulations, indemnify and hold the Authority and the Authority Engineer harmless from and against all claims, damages, losses and expenses (including, but not limited to, fees of engineers, architects, attorneys and other professionals and court and arbitration costs) arising directly, indirectly or consequently out of any action, legal or equitable, brought by any such other party against the Authority or the Authority Engineer to the extent based on a claim arising out of the Applicant's performance of the Work.
8. Post a maintenance guarantee equal to fifteen percent (15%) of the Performance Guarantee guaranteeing the satisfactory performance of the system for a period of two (2) years for water systems which will be dedicated to the Authority.
9. Provide an adequate balance of all escrow fees, as required by the Authority Engineer. No interest shall be paid on escrow unless the balance exceeds \$5,000. The Authority reserves the right to withhold the first \$100 from all escrow accounts.
10. Supply the Authority with the required Confined Space Equipment as necessary.

Upon receipt and approval of the above listed items, the Authority will:

- a) Release the Applicant from the Performance Guarantees.
- b) Accept the title to all lands, easements, structures, appurtenances and improvements.
- c) Assume the operation and maintenance of the system upon expiration of the two (2) year Maintenance Guarantees.

Please note, some of these items may not be required where water systems will remain privately owned and maintained. It should be noted that even water systems which will be dedicated to the Authority, the water service line from the street onto a private property belongs to the property owner. The property owner is solely responsible for the maintenance and repair of that section of the water service line.

X. USE OF WATER SYSTEM PRIOR TO ACCEPTANCE

A. Use of the Water System by the Authority

During construction and before final acceptance, the Authority shall have the right to use any portion of the system completed and to allow additional connections without waiving their right to order correction of any defects.

No water service shall be provided where sanitary sewer facilities are to be installed until the sanitary sewer facilities are in operation.

B. Unauthorized Use of the System

Use of the active portion of the water system for construction, flushing of sewers and the like, is strictly prohibited without the express permission of the Authority. Only Authority personnel may operate valves.

C. Developer's Use of the System During Construction

The Developer may use the system during his building construction provided all water use is metered. The Developer shall make application to the Authority for a hydrant meter and make application to the Authority for building meters for use of the system during the various development stages of construction.

Use of hydrant meters require a non-refundable application fee along with a hydrant meter deposit in accordance with the current rate schedule per meter. The current fees are listed on a table attached to these Rules and Regulations. Water usage will be charged monthly (or quarterly) at the Authority's discretion in accordance with the current rate schedule. A hydrant meter permit is valid for a maximum of three (3) months.

XI. COMPLIANCE WITH RULES AND REGULATIONS

A. General

The Applicant shall comply with all of the Rules and Regulations as set forth herein. Failure to do so will result in the Authority's disapproval or rejection of Work.

The Applicant shall exercise all construction constraints required to conform to the New Jersey Department of Environmental Protection Regulations and to any Agency having jurisdiction, and shall be responsible to see that the finished Work complies accurately with the Approved Plans.

B. Noncompliance

The Authority reserves the right to refuse to any Applicant the privilege of connecting to the Authority's system, or to compel discontinuance of use of the water system when deemed harmful to the system.

If any Applicant shall fail or refuse, upon written notice from the Authority, to remedy any unsatisfactory condition relating to the Water System within a period of twenty-four (24) hours of receipt of said notice, the Authority shall have the right to disconnect all service to said Applicant until such time as all violations have been corrected to the satisfaction of the Authority. Violators will be charged for all costs incurred in emergency correction of the unsatisfactory condition and for all Authority expenses incurred.

C. Penalties

Use of unmetered water is strictly prohibited in accordance with Township Ordinance #14-3. Any person or persons who tampers with the water distribution system, including hydrants, and use of unmetered water, shall be subject to charges in accordance with these Rules and Regulations.

Any person, company, developer, etc. who uses non-metered water shall be subject to a penalty of \$1,000.00 per occurrence. All water use shall be in accordance with the Rules and Regulations Governing Applications, Construction and Use of Water Systems in the Township of Old Bridge.

XII. FEES FOR APPLICATION OF NEW CONSTRUCTION AND USER FEES

A. Application Filing Fees – Major Applications

1. Application Fee: The Applicant before proceeding shall post an application fee of per E.D.C.U in accordance with the attached Fee Table.
2. Preliminary Review Fee: An application for Preliminary Approval must be accompanied by an escrowed review fee per E.D.C.U. plus a Professional Review Fee in accordance with the attached Fee Table.
3. Tentative Review Fee: An application for Tentative Approval must be accompanied by an escrowed review fee based on the estimated cost of water construction as approved by the Authority Engineer, plus a Professional Review Fee of in accordance with the attached Fee Table.
4. Final Review Fee: An application for Final Approval must be accompanied by an escrowed review fee based on the entire cost of the water construction as approved by the Authority Engineer, plus a Professional Review Fee for preparation of the required Resolution, preparation of Developers Agreement, Bond Review, and Title Insurance Policy review. Fees shall be in accordance with the attached Fee Table.
5. Application for Extension Fee: An application for Extension of Approval must be accompanied by a fee in accordance with the attached Fee Table.

In certain applications, where consulting engineers are utilized to review the water system, the Applicant must pay for the consulting engineer's fee in addition to the standard Review Fees.

The Developer also must pay additional monies, during the course of the project, to maintain sufficient balance in the escrow account as determined by the Authority.

B. Application Filing Fees – Minor Applications

1. Application Fee: An Applicant for a Minor Approval shall post an application fee per EDCU in accordance with the attached Fee Table.
2. Review Fee: An escrowed review fee will be required based on the scope of work.

C. Fees for Residential Individual Water Service

1. Application Fees: The Applicant of an approved connection shall post an application fee in accordance with the attached Fee Table.

2. Labor and Materials: Where required, a fee shall be paid for the labor and materials of tapping the existing water main and providing a curb box in accordance with the attached Fee Table.
3. Meter Fee: The Applicant shall pay for the water meter which will be installed in the unit. The fee shall be in accordance with the attached Fee Table.
4. Connection Fee: The Applicant shall pay a connection fee in accordance with the current rate schedule. The current fee is shown on the attached Fee Table.

D. Connection Fee

The Applicant shall be required to pay a connection fee in accordance with the current rate schedule for connection into the Authority's Water System per E.D.C.U., before Final approval which will include each fire protection (sprinkler) connection. The current fee is shown on the attached Fee Table.

E. Construction Water Fee

The Applicant shall also be required to pay a construction water fee in accordance with the current rate schedule per E.D.C.U. before Final approval which is the Authority's charge for water used during pressure testing, disinfection and flushing of new water mains. The current fee is shown on the attached Fee Table.

F. Cost Sharing Fee

The Authority reserves the right to impose the cost of water main extensions and/or pump stations upon Applicants for whose benefits they were designed. In those cases where the Authority has made expenditures for capital improvements performed by other developers through incremental cost sharing agreements, the Authority shall determine which Applicant shall be subject to this cost and shall charge same only to those Applicant's directly benefiting from the improvement.

As nearly as practicable, the charges shall be uniform throughout the entire sanitary sewer basin and improved water distribution system.

It is the intent of the Authority to only pass along the actual cost incurred by the Authority to the Applicant.

G. User Fees

Customers shall pay fees for consumption of water in accordance with the Authority's current rate schedule. See also the attached Fee Table.

XIII. CUSTOMER SERVICE RULES

A. General

The properly identified authorized agents of the Authority shall have the right of access to the service unit (as defined in Section II) premises served, at all reasonable hours, for the purposes of reading meters, examining fixtures and pipes, observing the manner of using water, and for any other purpose which is proper and necessary in the conduct of the Authority's business.

No agent or employee of the Authority has authorization to bind it by any promise, agreement or representation not provided for in these rules and regulations.

It is expressly understood and agreed that no claims will be made against the Authority, for damage to life or property, by reason of the breaking of any service pipe, water fixture, meter or appliance within the customer's premises, nor for any damage done due to the failure of the water supply for any cause beyond the Authority's control. The property owner is completely responsible for the maintenance and repair of the water service line on the customers side of the curb-box. The Authority will maintain and repair the water service line between the curb-box and the water main.

All consumers having boilers upon their premises, depending on the pressure of the water in the Authority's pipes to keep them supplied, are cautioned against danger of collapse, and all such damage must be borne exclusively by the consumer.

No water will be furnished to any premises where any possibility exists of the mingling of the water furnished by the Authority, with water from any other source. Nor will the Authority permit its mains or service pipes to be connected in any way to any piping, tank, vat, or other apparatus containing liquids, chemical, or any other matter which may flow back into the Authority's service pipes or mains, and consequently endanger the water supply.

Meters will be maintained by the Authority so far as ordinary wear and tear are concerned, but damage due to freezing, hot water, or external causes due to the negligence of the customer, shall be paid for by the customer. The customer shall pay a charge, based on the field service charges in the Authority's current Rate Schedule, for the reinstallation or changing of a meter when removed because of damage in any way due to the negligence of the customer. The customer shall immediately notify the Authority of injury to or non-working of the meter, as soon as known by the customer.

When water service is abandoned for any reason, the meter shall be removed and returned to the Authority in order for a new meter to be issued free-of-charge for future use at the same site, if the proposed use is similar, as determined by the Authority.

If an account becomes inactive, new connection fees will be required to re-activate the account. All active accounts are subject to minimum billings regardless of usage.

B. Individual Water Connections

Owners of the property desirous of making connection to existing water mains, shall file an application for individual water connection with the Authority on a form which is available at the Engineer's office. This applicant will be required to pay an application fee, connection fees and meter fee as set forth in the Authority's current rate schedule. The Applicant shall also be responsible for the cost of the labor, equipment and materials to provide a connection from the water main to a curb shut-off furnished by the Authority as indicated in the Authority's current Rate Schedule and on a table attached to the Rules and Regulations.

Connection shall be made to an existing street main only by the Authority at the expense of the Applicant. A plot plan shall be submitted with application forms. All water service taps to the Authority mains are to be made by the Authority or its authorized agents. The Applicant, however is responsible to obtain applicable Road Opening Permits and provide traffic control if required. It is understood that curb stops, valves, curb boxes which shall be placed inside the curb line, or a meter pit which shall be located inside the property line and off-site service lines to the main shall remain the property of the Authority and shall not be interfered with in any manner. **No person shall touch, move, turn-on or turn-off a curb box.**

The Authority reserves the right to determine the size and kind of service line from the main to the curb stop. Type K copper, flared underground-type, shall be used throughout for house services under the Authority jurisdiction.

The pipe from the curb stop, or meter pit, to the property shall be furnished, installed and maintained by the Owner of the property; shall be laid in a straight line at right angles to the curb line, within the building limits of structures to be served, and shall be at least four (4) feet below the surface of the ground, when final grading of the property has been completed.

No service pipe shall be laid in the same trench with gas pipe, drain or sewer pipe, or any other facility of any public service company, nor within ten (10) feet of an open excavation, vault, cesspool or septic tank; nor shall the location be in conflict with any sidewalk or driveway running at right angles to the front of the building.

Where the renewal of the service line from the main to the curb stop, or meter pit, is found to be necessary, the Authority will renew the service in the same location as previously used. If the property owner, or customer, for his own convenience desires the new service line at some other location, and agrees to pay all expenses of such relocation, in excess of the cost of laying the service line in the same location as

previously used, and cutting off and disconnecting the old service line, the Authority will lay the new service line at the location desired.

All connections, service lines and fixtures furnished by the customer, shall be maintained by him in good order, and all valves, meters and appliances furnished and owned by the Authority, and on the property of the customer, shall be protected properly and cared for by the customer. All leaks in the service or any other pipe or fixture in or upon the premises supplied, must be repaired immediately by the owner or occupant of the premises. The customer shall be responsible for notifying the Authority of the party engaged by said customer to do any maintenance work on the customer's service line, prior to work being commenced.

The Authority shall in no event be responsible for maintaining any portion of the service line owned by the customer, or for damage done by water escaping therefrom; or from lines or fixtures on the customer's property; and the customer shall at all times comply with applicable municipal regulations with respect thereto, and make changes therein, required by reason of changes of grade, relocations of mains, or otherwise.

A service line from the curb stop, or meter pit, to a building shall not service more than one building.

Where two or more customers are now supplied by a single service line, any violation of the rules of the Authority, with respect to either or any of said customers, shall be deemed a violation as to all, and unless said violation is corrected after reasonable notice, the Authority may take such action as can be taken for a single customer, except that such action will not be taken until the innocent customer, who has not violated the Authority's rules, has been given a reasonable opportunity to attach his pipe to a separately controlled service connection.

Connections beyond the curb shut-off assembly are under the jurisdiction of the Township Construction Office through its Plumbing Inspector whose approval will be required before the Authority will service the facility.

Materials and method of construction shall be in accordance with Chapter V of these Rules and Regulations.

C. Billing

Payment of water use charges shall be the responsibility of the owner of the property to which service is provided. Accounts maintained in the name of the tenants will not be permitted.

Each individual dwelling unit, commercial structure or industry must have its own individual connection to the street main.

Regular meter readings will be made quarterly and bills will be rendered as soon as practicable after the reading of the respective meters. In the case of fire service, bills will be rendered quarterly, 30 days from billing date, for service during the preceding three months. All bills are due and payable on presentation or delivery.

All customers connected to the water system will be billed and shall pay, in each quarter, the minimum charge plus any amount due over the minimum allowance.

If a bill remains unpaid for a period of thirty (30) days from its issue date, it shall be classed as delinquent and interest shall be charged from the date of issuance at a percentage in accordance with the current rate schedule. Payments made by mail will be credited when received at the Authority. If service is thus discontinued, it will not be restored until all unpaid bills and all charges, including turn off, turn on charges, are paid.

No abatement on meter bills will be made for leaks, or for water wasted by damaged fixtures.

Each meter is installed subject to a fixed minimum quarterly charge in accordance with the adopted rate schedule. Such minimum shall be non-abatable for non-users of water, and non-cumulative against subsequent consumption. In the case of fractional period bills, covering less than a quarter, minimum, charges and allowances shall be pro-rated.

The Water use charge may include all costs of the use, operation, maintenance and construction of the water distribution system of the Authority serving the properties within the utility including, but not limited to, charges for operation and maintenance of the water distribution system of the Old Bridge Municipal Utilities Authority.

At least once each year, the Authority shall review and revise, as necessary, water use charges and shall establish a schedule of charges by user class, type of use, flow, and such other criteria as the Authority shall deem appropriate.

The quantity recorded by the meter shall be conclusive on both the customer and the Authority, except when the meter has been found to be registering inaccurately, or has ceased to register. In such cases, the quantity may be determined by the average registration of the meter when in proper working order.

In the event of a disputed account involving the accuracy of a meter, such meter will be evaluated upon the request of the customer in conformity with the provision of these rules and regulations. If the meter is found to have an error in registration of four percent or more, the bill will be increased or decreased correspondingly.

When a meter is removed, after installation, at the request of the customer, for testing, the following rules shall apply:

The Authority shall, upon a request of a customer, and if he so desires, in his presence or that of his authorized representative, make a test of the accuracy of his meter. When a customer desires, either personally or through a representative, to witness the testing of a meter, he may require the meter to be sealed in his presence before removal which seal shall not be broken until the test is made in his presence. If the meter so tested, shall be found to be accurate within acceptable limits, a fee shall be paid to the Authority by the customer requiring such test, but if not so found, then the cost thereof shall be borne by the Authority. The fee will be in accordance with the current rate schedule.

A report of such test shall be made to the customer and a complete record of such test shall be kept by the Authority.

The payment of any disputed bill, within the meaning of these rules, shall be payment of the bill with or without penalty, within thirty days following the period for which the bill was rendered, or payment within thirty days following the presentation of the bill, or the payment of any contested bill, payment of which is withheld beyond the period herein mentioned if the dispute is terminated substantially in favor of the customer, and if a payment is made by the customer within ten days thereafter.

D Service Units

Each individual dwelling unit shall comprise a residential service unit or Equivalent Domestic Consumer Unit (E.D.C.U.) as defined in these Rules and Regulations.

By way of example, each individual dwelling unit shall be considered to be an individual residential service unit, even though such dwelling unit may be contained within, or be a part of, a larger residential structure or complex, such as a two-family house; connecting row house; connecting townhouses; apartment buildings; condominium complexes; or any other such structure or combination of buildings which contain more than one individual dwelling unit.

E. Complaints

Complaints with respect to the character of the service furnished, or the reading of the meters, or of the bills rendered, must be made at the Authority's office, either orally, or in writing, and a record of such complaint will be kept by the Authority, noting the name and address of the complainant, the date, the nature of the complaint and the remedy.

Requests for any documents, records, calculations, drawings, maps, reports, billing information or anything on file at the Authority must be submitted in writing. Each request will be considered on a case by case basis after proper Administrative and legal considerations have been made.

F. Discontinuance of Service

Service may be discontinued for any of the following reasons:

- a) Misrepresentation in application.
- b) Willful waste of water through improper or imperfect pipes, fixtures, or otherwise.
- c) Use of water for any other property or purposes than that described in the application.
- d) Molesting any service pipe, meter, curb stop-cock, or seals, or any other appliance of the Authority.
- e) Vacancy.
- f) For non-payment of any charge accruing for either water or sewer use.
- g) Refusal of reasonable access to the property for purposes of inspecting or for reading, caring for, or removing meters.
- h) Making, or refusing to sever, any cross connection between a pipe or fixture carrying water furnished by the Authority, and a pipe or fixture carrying water from any other source.
- i) Violation of any rules of the Authority.

No person shall turn the water on or off at any corporation stop, curb stop, or disconnect or remove the meter, or permit its disconnection or removal.

As necessity may arise in the event of breakdown, emergency, or for any other unavoidable cause, the Authority shall have the right to cut off the water supply temporarily, in order to make necessary repairs, connections, etc., but the Authority will use all reasonable and practical means to notify the customer of such discontinuance of service. In such case, the Authority shall not be liable for any damage or inconvenience experienced by the customer; or any claim against it at any time for interruption in service, lessening of the supply, inadequate pressure, poor quality of water, or for any cause beyond its control. When the supply of water is to be temporarily interrupted, notice will be given, when practicable, to all customers affected by the temporary interruption of service stating the probable duration of the interruption, and also the purpose of the interruption.

Service will be renewed, under a proper application, when the conditions under which such service was discontinued have been corrected, and upon payment of all charges or amounts provided in the schedule of rates or rules of the Authority, due from the Applicant.

When water has been turned off from any premises because violation of the Authority's rules, or for non-payment of a water or sewer bill, charges payable in advance will be made for turning the water off and on again in accordance with the Authority's current Rate Schedule. When water has been turned off at the request of the customer, turn-off and turn-on charges in accordance with the Authority's current Rate Schedule will appear on the customer's bill. No charge will be made for turning on an original connection.

G. Liens and Enforcement

1. In the event that an initial service charge 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 an Agency or subdivision thereof) shall not be paid as and when due as herein before stated, the unpaid balance thereof and all interest accruing thereon shall be a lien of such parcel and all such liens shall become enforceable with and as any other municipal lien or real property in the Municipality, in addition to the other remedies of civil suit or foreclosure or any other remedies which may be available to the Authority as same are described in N.J.S.A. 40:14A-21.
2. In the event that any service charge of the Authority with regard to any parcel of real property shall not be paid as and when due, the Authority may enter upon such parcel and cause the connection thereof to be cut and shut off until such service charge and any subsequent charge with regard to such parcel and all interest accrued thereon, shall be fully paid to the Authority; or may avail itself of any and all other remedies as are set forth in N.J.S.A., 40:14A-21, but in any event, the enforcement provision or any other provisions contained in these Regulations shall not be exclusive nor in derogation of the statutory provision contained in N.J.S.A. 40:14A-21.

H. Fire Hydrants

All public fire hydrants will be maintained by the Authority. Private hydrants will be maintained by the Authority, within single family residential Planned Developments.

Only persons authorized by the Authority shall take water from any fire hydrant, except for fire fighting purposes, or for the use of fire department in case of fire. No fire hydrant shall be used for sprinkling streets, flushing sewers or gutters, or for any other than fire purposes, except with the written approval and consent of the Authority.

Whenever a municipal governing body desires a change in the location of any fire hydrant, the Authority, upon written notice to do so, will make such change at the expense of the municipality.

Upon written request of the Fire Commissioners, the Authority will make inspection at convenient times, and at reasonable intervals to determine the condition of fire hydrants,

such inspection to be made by a representative of the Authority, accompanied by an authorized representative of the municipality.

All applications for automatic sprinkler and other automatic fire devices, must be submitted to the Authority Engineer for approval and review in accordance with these Rules and Regulations.

APPLICATION FOR PRELIMINARY APPROVAL

APPLICATION NO. _____ Date: _____

**OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY
WATER DIVISION**

APPLICATION FOR REVIEW OF PRELIMINARY PLANS FOR CONSTRUCTION OF WATER SYSTEM AND APPURTENANCES IN THE TOWNSHIP OF OLD BRIDGE, COUNTY OF MIDDLESEX, STATE OF NEW JERSEY. (This application must be accompanied by the application and preliminary review fees as prescribed in the current Rules and Regulations).

Application is hereby made for preliminary review of plans for WATER DISTRIBUTION.

1. Applicant's Name: _____ Phone: _____

Address: _____

2. Name and Address of present owner (If other than No. 1 above)

Name: _____ Phone: _____

Address: _____

3. Name and Address of Applicant's Attorney

Name: _____ Phone: _____

Address: _____

4. Name and Phone Number of Contact Person at Applicant's Office who will receive all correspondence including Engineering Reports:

Name: _____ Phone: _____

5. Interest of applicant if other than owner: _____

6. Location of property: _____

(neighborhood or section name)

(street)

(tax map block)

(lot nos.)

EXHIBIT A (2006)

7. Number of proposed units, or square footage of Commercial Building(s) to be serviced: _____

8. Acreage of entire tract: _____ and portion
being serviced: _____

9. Development plans: _____
a. Name of Development _____
b. Sell lots only? (Yes or No) _____
c. Construction of houses for sale? (Yes or No) _____
d. Other: _____

10. Fire Protection: Size (pipe diameter) of Connection _____
No. of Sprinklers _____
Fire Flow Requirement (gpm) _____
(Include ISO Calculation(s))

Note: Fire flow requirement is required regardless of whether or not automatic fire sprinklers are proposed.

11. Irrigation: Size of Connection _____
No. of Sprinklers _____
Flow Requirement (gpm) per head _____
Proposed timing of Irrigation _____
Total Flow Requirement (gpm) _____

12. Name and profession of person designing water system:

Name: _____ Profession _____

Address: _____

_____ Phone _____

13. Check appropriate statement:

_____ All proposed water mains shall be dedicated to the Authority.

_____ All proposed water mains shall remain privately owned by the Applicant or Homeowner's Association.

EXHIBIT A (2006)

14. Describe your proposal for water distribution:

15. List plans and other material accompanying application and number of each (attach additional sheets if necessary).

Item	Number
a.	<hr/>
b.	<hr/>
c.	<hr/>
d.	<hr/>
e.	<hr/>

16. Submit five (5) prints of your general map.

Signature of Applicant:

Print or type Name of Applicant:

Signature of Owner:

Print or type Name of Owner:

Make all checks payable to the Old Bridge Municipal Utilities Authority

APPLICATION FOR TENTATIVE APPROVAL

APPLICATION NO. _____ Date: _____

OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY WATER DIVISION

APPLICATION FOR REVIEW OF TENTATIVE PLANS FOR CONSTRUCTION OF WATER SYSTEM AND APPURTENANCES IN THE TOWNSHIP OF OLD BRIDGE, COUNTY OF MIDDLESEX, STATE OF NEW JERSEY. (This application form must be accompanied by the tentative review fee as prescribed in the current Rules and Regulations).

Application is hereby made for tentative review of plans for WATER DISTRIBUTION.

1. Applicant's Name: _____ Phone: _____

Indicate if Corporation, Partnership, etc. _____

Address: _____

2. Name and Address of present owner (If other than No. 1 above)

Name: _____ Phone: _____

Address: _____

3. Name and Address of Applicant's Attorney

Name: _____ Phone: _____

Address: _____

4. Name and Phone number of Contact Person at Applicant's Office who will receive all correspondence including Engineering Reports:

Name: _____ Phone: _____

5. Name and Title of Principal who will execute the Developer's Agreement for the Applicant

Name: _____ Title: _____ Phone: _____

6. Name of Person who will attest to Principal's signature on Developer's Agreement

Name: _____ Title: _____ Phone: _____

7. Preliminary OBMUA Approval Date: _____

Name of Development: _____

Tax Map Block and Lot No: _____

8. Does the Tentative Plan follow the Preliminary Plan in regard to Lot Layout and Area covered?
If not, indicate changes: _____

9. Date of Preliminary Approval from the Old Bridge Township Planning/Zoning Board.

_____ Township Application No. _____

Attach copies of Resolution

10. Number of units, or square footage of Commercial Building(s) proposed for Tentative Approval:

11. Name and profession of person designing water system:

Name: _____

Profession

Address: _____

_____ Phone

12. Describe your proposal for water distribution:

13. Applicant's Engineer's estimate of cost of water system construction, including as-built plans(cost estimate forms are available from the Engineering Department):

14. Tentative Fee amount enclosed: \$ _____
Make checks payable to the Old Bridge Municipal Utilities Authority

15. List plans and other material accompanying application and number of each (attach additional sheets if necessary).

	Item	Number
a.	_____	_____
b.	_____	_____
c.	_____	_____
d.	_____	_____
e.	_____	_____

16. Submit five (5) prints of your tentative plan and a detailed cost estimate.

Signature of Applicant: _____

Print or type Name of Applicant: _____

Signature of Owner: _____

Print or type Name of Owner: _____

APPLICATION FOR FINAL APPROVAL

APPLICATION No. _____ Date: _____

OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY WATER DIVISION

APPLICATION FOR REVIEW OF FINAL PLANS FOR CONSTRUCTION OF WATER SYSTEM AND APPURTENANCES IN THE TOWNSHIP OF OLD BRIDGE, COUNTY OF MIDDLESEX, STATE OF NEW JERSEY. (This application form must be accompanied by final review fee as prescribed in the current Rules and Regulations).

Application is hereby made for final review of plans for WATER DISTRIBUTION.

1. Applicant's Name: _____ Phone: _____

Indicate if Corporation, Partnership, etc. _____

Address: _____

2. Name and Address of present owner (If other than No. 1 above)

Name: _____ Phone: _____

Address: _____

3. Name and Address of Applicant's Attorney

Name: _____ Phone: _____

Address: _____

4. Name and Phone number of Contact Person at Applicant's Office who will be receiving all correspondence including Engineering Reports:

Name: _____ Phone: _____

5. Name and Title of Principal who will execute the Developer's Agreement for the Applicant

Name: _____ Title: _____

6. Name of Person who will attest to Principal's signature on the Developer's Agreement:

Name: _____ Title: _____

7. Preliminary OBMUA Approval Date: _____

8. Tentative OBMUA Approval Date: _____

Name of Development: _____

Tax Map Block and Lot No: _____

9. Does the Final Plan follow exactly the Tentative Plan in regard to details and area covered?
if not, indicate planned changes: _____

10. Date of Final Approval from the Old Bridge Township Planning/Zoning Board: _____
Township Application No: _____

Attach copies of Resolution

11. Number of lots, or square footage of Commercial Buildings proposed for Final Approval:

12. List of plans and other material accompanying application and number of each (attach additional sheets if necessary).

Item

Number

a. _____

b. _____

c. _____

d. _____

e. _____

f. _____

g. _____

13. Applicant's engineer's estimate of cost of water system construction, including as-builts plans (cost estimate forms are available from the Engineering Department):

\$ _____

14. Final Review and Inspection Fee enclosed \$ _____
Make all checks payable to the Old Bridge Municipal Utilities Authority

EXHIBIT C (2006)

15. Submit five (5) prints of your final plan and a detailed cost estimate.

Signature of Applicant: _____

Print or type Name of Applicant: _____

Signature of Owner: _____

Print or type Name of Owner: _____

EXHIBIT C (2006)

APPLICATION FOR MINOR APPROVAL

APPLICATION NO. _____ Date: _____

OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY WATER DIVISION

APPLICATION FOR REVIEW OF MINOR APPLICATION PLANS FOR CONSTRUCTION OF WATER SYSTEM AND APPURTENANCES IN THE TOWNSHIP OF OLD BRIDGE, COUNTY OF MIDDLESEX, STATE OF NEW JERSEY. (This application must be accompanied by the application and review fees as prescribed in the current Rules and Regulations).

Application is hereby made for minor application review of plans for WATER DISTRIBUTION.

1. Applicant's Name: _____ Phone: _____

Address: _____

2. Name and Address of present owner (If other than No. 1 above)

Name: _____ Phone: _____

Address: _____

3. Name and Address of Applicant's Attorney

Name: _____ Phone: _____

Address: _____

4. Name and Phone Number of Contact Person at Applicant's Office who will receive all correspondence including Engineering Reports:

Name: _____ Phone: _____

5. Interest of applicant if other than owner: _____

6. Location of property: _____

(neighborhood or section name)

_____,
(street)

_____,
(tax map block)

_____,
(lot nos.)

EXHIBIT D (2006)

7. Date of Approval from the Old Bridge Township Planning/Zoning Board.

_____ Township Application No. _____
Attach copies of Resolution

8. Number of proposed units, or square footage of Commercial Building(s) to be serviced: _____

9. Acreage of entire tract: _____ and portion
being serviced: _____

10. Development plans: _____
a. Name of Development _____
b. Sell lots only? (Yes or No) _____
c. Construction of houses for sale? (Yes or No) _____
d. Other: _____

11. Fire Protection: Size (pipe diameter) of Connection _____
No. of Sprinklers _____
Fire Flow Requirement (gpm) _____
(Include ISO Calculation(s))

Note: Fire flow requirement is required regardless of whether or not automatic fire sprinklers are proposed.

12. Irrigation: Size of Connection _____
No. of Sprinklers _____
Flow Requirement (gpm) per head _____
Proposed timing of Irrigation _____
Total Flow Requirement (gpm) _____

13. Name and profession of person designing water system:

Name: _____ Profession _____

Address: _____

_____ Phone _____

14. Check appropriate statement:

_____ All proposed water mains shall be dedicated to the Authority.

EXHIBIT D (2006)

_____ All proposed water mains shall remain privately owned by the Applicant or Homeowner's Association.

15. Describe your proposal for water distribution:

16. List plans and other material accompanying application and number of each (attach additional sheets if necessary).

Item	Number
a. _____	_____
b. _____	_____
c. _____	_____
d. _____	_____
e. _____	_____

17. Submit five (5) prints of your general map.

Signature of Applicant: _____

Print or type Name of Applicant: _____

Signature of Owner: _____

Print or type Name of Owner: _____

Make all checks payable to the Old Bridge Municipal Utilities Authority

APPLICATION FOR EXTENSION OF APPROVAL

APPLICATION No. _____ Date: _____

**OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY
WATER DIVISION**

APPLICATION FOR EXTENSION OF APPROVAL OF PLANS FOR CONSTRUCTION OF
WATER SYSTEMS AND APPURTENANCES IN THE TOWNSHIP OF OLD BRIDGE,
COUNTY OF MIDDLESEX, STATE OF NEW JERSEY.

This application form must be accompanied by the appropriate fees as per the current Rules and Regulations.

Application is hereby made for extension of a _____ Approval.

1. Applicant's Name: _____ Phone: _____

Address: _____

Name of Development _____

Tax Map Block and Lot No.: _____

2. Name and Address of present owner (If other than No. 1 above)

Name: _____ Phone: _____

Address: _____

3. Name and Address of Applicant's Attorney

Name: _____ Phone: _____

Address: _____

4. Name and Phone number of Contact Person at Applicant's Office who will receive all correspondence including Engineering Reports:

Name: _____ Phone: _____

5. Preliminary OBMUA Approval Date: _____

6. Tentative OBMUA Approval Date: _____

7. Final OBMUA Approval Date: _____

8. Construction cost estimate upon which original application fees were based: \$ _____

EXHIBIT E (2006)

9. Current estimate of construction cost: \$ _____

10. Status of project _____

11. Reason for requesting extension: _____

12. Anticipated start-up date: _____

Signature of Applicant: _____

Print Name of Applicant: _____

Signature of Owner: _____

Print Name of Owner: _____

Make all check payable to the Old Bridge Municipal Utilities Authority.

EXHIBIT E (2006)

Request for Taxpayer Identification Number and Certification

Give this form to
the requester. Do
NOT send to IRS.

Please print or type

Name (If joint names, list first and circle the name of the person or entity whose number you enter in Part I below. See instructions on page 2 if your name has changed.)

Business name (Sole proprietors see instructions on page 2.) (If you are exempt from backup withholding, complete this form and enter "EXEMPT" in Part II below.)

Address (number and street)

List account number(s) here (optional)

City, state, and ZIP code

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. For individuals, this is your social security number (SSN). For sole proprietors, see the instructions on page 2. For other entities, it is your employer identification number (EIN). If you do not have a number, see **How To Obtain a TIN** below.

Social security number

OR

Employer identification number

Note: If the account is in more than one name, see the chart on page 2 for guidelines on whose number to enter.

Part II For Payees Exempt From Backup Withholding (See Exempt Payees and Payments on page 2)

Requester's name and address (optional)

Certification.—Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), **and**
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding.

Certification Instructions.—You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because of underreporting interest or dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, the acquisition or abandonment of secured property, contributions to an individual retirement arrangement (IRA), and generally payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (Also see **Signing the Certification** on page 2.)

Sign
Here

Signature

Date

Section references are to the Internal Revenue Code.

Purpose of Form.—A person who is required to file an information return with the IRS must obtain your correct TIN to report income paid to you, real estate transactions, mortgage interest you paid, the acquisition or abandonment of secured property, or contributions you made to an IRA. Use Form W-9 to furnish your correct TIN to the requester (the person asking you to furnish your TIN) and, when applicable, (1) to certify that the TIN you are furnishing is correct (or that you are waiting for a number to be issued), (2) to certify that you are not subject to backup withholding, and (3) to claim exemption from backup withholding if you are an exempt payee. Furnishing your correct TIN and making the appropriate certifications will prevent certain payments from being subject to backup withholding.

Note: If a requester gives you a form other than a W-9 to request your TIN, you must use the requester's form.

How To Obtain a TIN.—If you do not have a TIN, apply for one immediately. To apply, get Form SS-5, Application for a Social Security Card (for individuals), from your local office of the Social Security Administration, or Form SS-4, Application for Employer Identification Number (for businesses and all other entities), from your local IRS office.

To complete Form W-9 if you do not have a TIN, write "Applied for" in the space for the TIN in Part I, sign and date the form, and give it to the requester. Generally, you will then have

60 days to obtain a TIN and furnish it to the requester. If the requester does not receive your TIN within 60 days, backup withholding, if applicable, will begin and continue until you furnish your TIN to the requester. For reportable interest or dividend payments, the payer must exercise one of the following options concerning backup withholding during this 60-day period. Under option (1), a payer must backup withhold on any withdrawals you make from your account after 7 business days after the requester receives this form back from you. Under option (2), the payer must backup withhold on any reportable interest or dividend payments made to your account, regardless of whether you make any withdrawals. The backup withholding under option (2) must begin no later than 7 business days after the requester receives this form back. Under option (2), the payer is required to refund the amounts withheld if your certified TIN is received within the 60-day period and you were not subject to backup withholding during that period.

Note: Writing "Applied for" on the form means that you have already applied for a TIN OR that you intend to apply for one in the near future.

As soon as you receive your TIN, complete another Form W-9, include your TIN, sign and date the form, and give it to the requester.

What Is Backup Withholding?—Persons making certain payments to you after 1992 are required to withhold and pay to the IRS 31% of such payments under certain conditions. This is called "backup withholding." Payments that could be subject to backup withholding include interest,

dividends, broker and barter exchange transactions, rents, royalties, nonemployee compensation, and certain payments from fishing boat operators, but do not include real estate transactions.

If you give the requester your correct TIN, make the appropriate certifications, and report all your taxable interest and dividends on your tax return, your payments will not be subject to backup withholding. Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester, or
2. The IRS notifies the requester that you furnished an incorrect TIN, or
3. You are notified by the IRS that you are subject to backup withholding because you failed to report all your interest and dividends on your tax return (for reportable interest and dividends only), or
4. You do not certify to the requester that you are not subject to backup withholding under 3 above (for reportable interest and dividend accounts opened after 1983 only), or
5. You do not certify your TIN. This applies only to reportable interest, dividend, broker, or barter exchange accounts opened after 1983, or broker accounts considered inactive in 1983.

Except as explained in 5 above, other reportable payments are subject to backup withholding only if 1 or 2 above applies. Certain payees and payments are exempt from backup withholding and information reporting. See **Payees and Payments Exempt From**

Backup Withholding, below, and Exempt Payees and Payments under Specific Instructions, below, if you are an exempt payee.

Payees and Payments Exempt From Backup Withholding.—The following is a list of payees exempt from backup withholding and for which no information reporting is required. For interest and dividends, all listed payees are exempt except item (9). For broker transactions, payees listed in (1) through (13) and a person registered under the Investment Advisers Act of 1940 who regularly acts as a broker are exempt. Payments subject to reporting under sections 6041 and 6041A are generally exempt from backup withholding only if made to payees described in items (1) through (7), except a corporation that provides medical and health care services or bills and collects payments for such services is not exempt from backup withholding or information reporting. Only payees described in items (2) through (6) are exempt from backup withholding for barter exchange transactions, patronage dividends, and payments by certain fishing boat operators.

(1) A corporation. (2) An organization exempt from tax under section 501(a), or an IRA, or a custodial account under section 403(b)(7). (3) The United States or any of its agencies or instrumentalities. (4) A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities. (5) A foreign government or any of its political subdivisions, agencies, or instrumentalities. (6) An international organization or any of its agencies or instrumentalities. (7) A foreign central bank of issue. (8) A dealer in securities or commodities required to register in the United States or a possession of the United States. (9) A futures commission merchant registered with the Commodity Futures Trading Commission. (10) A real estate investment trust. (11) An entity registered at all times during the tax year under the Investment Company Act of 1940. (12) A common trust fund operated by a bank under section 584(a). (13) A financial institution. (14) A middleman known in the investment community as a nominee or listed in the most recent publication of the American Society of Corporate Secretaries, Inc., Nominee List. (15) A trust exempt from tax under section 664 or described in section 4947.

Payments of dividends and patronage dividends generally not subject to backup withholding include the following:

- Payments to nonresident aliens subject to withholding under section 1441.
- Payments to partnerships not engaged in a trade or business in the United States and that have at least one nonresident partner.
- Payments of patronage dividends not paid in money.
- Payments made by certain foreign organizations.

Payments of interest generally not subject to backup withholding include the following:

- Payments of interest on obligations issued by individuals.

Note: You may be subject to backup withholding if this interest is \$600 or more and is paid in the course of the payer's trade or business and you have not provided your correct TIN to the payer.

- Payments of tax-exempt interest (including exempt-interest dividends under section 852).
- Payments described in section 6049(b)(5) to nonresident aliens.
- Payments on tax-free covenant bonds under section 1451.
- Payments made by certain foreign organizations.
- Mortgage interest paid by you.

Payments that are not subject to information reporting are also not subject to backup withholding. For details, see sections 6041, 6041A(a), 6042, 6044, 6045, 6049, 6050A, and 6050N, and their regulations.

Penalties

Failure To Furnish TIN.—If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil Penalty for False Information With Respect to Withholding.—If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal Penalty for Falsifying Information.—Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs.—If the requester discloses or uses TINs in violation of Federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name.—If you are an individual, you must generally provide the name shown on your social security card. However, if you have changed your last name, for instance, due to marriage, without informing the Social Security Administration of the name change, please enter your first name, the last name shown on your social security card, and your new last name.

If you are a sole proprietor, you must furnish your individual name and either your SSN or EIN. You may also enter your business name or "doing business as" name on the business name line. Enter your name(s) as shown on your social security card and/or as it was used to apply for your EIN on Form SS-4.

Signing the Certification.—

1. Interest, Dividend, and Barter Exchange Accounts Opened Before 1984 and Broker Accounts Considered Active During 1983. You are required to furnish your correct TIN, but you are not required to sign the certification.

2. Interest, Dividend, Broker, and Barter Exchange Accounts Opened After 1983 and Broker Accounts Considered Inactive During 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real Estate Transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other Payments. You are required to furnish your correct TIN, but you are not required to sign the certification unless you have been notified of an incorrect TIN. Other payments include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services, payments to a nonemployee for services (including attorney and accounting fees), and payments to certain fishing boat crew members.

5. Mortgage Interest Paid by You, Acquisition or Abandonment of Secured Property, or IRA Contributions. You are required to furnish your correct TIN, but you are not required to sign the certification.

6. Exempt Payees and Payments. If you are exempt from backup withholding, you should complete this form to avoid possible erroneous

backup withholding. Enter your correct TIN in Part I, write "EXEMPT" in the block in Part II, and sign and date the form. If you are a nonresident alien or foreign entity not subject to backup withholding, give the requester a completed Form W-8, Certificate of Foreign Status.

7. TIN "Applied for." Follow the instructions under **How To Obtain a TIN**, on page 1, and sign and date this form.

Signature.—For a joint account, only the person whose TIN is shown in Part I should sign.

Privacy Act Notice.—Section 6109 requires you to furnish your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, or contributions you made to an IRA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 31% of taxable interest, dividend, and certain other payments to a payee who does not furnish a TIN to a payer. Certain penalties may also apply.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²
4. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
5. Sole proprietorship	The owner ³
For this type of account:	Give name and EIN of:
6. Sole proprietorship	The owner ³
7. A valid trust, estate, or pension trust	Legal entity ⁴
8. Corporate	The corporation
9. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
10. Partnership	The partnership
11. A broker or registered nominee	The broker or nominee
12. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity

¹ List first and circle the name of the person whose number you furnish.

² Circle the minor's name and furnish the minor's SSN.

³ Show your individual name. You may also enter your business name. You may use your SSN or EIN.

⁴ List first and circle the name of the legal trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

Note: If no name is circled when there is more than one name, the number will be considered to be that of the first name listed.

**WATER
CONSTRUCTION
STANDARDS
EXHIBIT G**

STANDARD LIST OF MATERIALS FOR WATER CONSTRUCTION

Any exceptions to the materials listed below shall be approved, in writing, by the Authority Engineer.

Hydrants: Mueller Super Centurion 250 Model A423 Fire Hydrant
5 1/4" three way, 2 hose nozzles and 1 pumper nozzle.

Hydrant Colors: Pennsbury Coatings - Rust-O-Lastic Gloss Acrylic (DTM) Paint
(or approved equal)
Body - "Safety Red"
Bonnet - "Safety Yellow"

Valves: For valves less than or equal in size to 12" use Mueller Resilient Wedge Gate Valves (#2360) NRS-AWWA C509. For valves greater in size than 12" use Mueller Lineseal XP Butterfly Valves (#5227) with EPDM rubber seat and seals.

All valves shall have mechanical joint ends and retainer glands. Bonnet and stuffing box nuts and bolts shall be 304 stainless steel fasteners. Valve body shall have epoxy coated internal and external.

Curb Stops: Mueller Mark II Oriseal # H15204.

Corporation Stops: Mueller # B-25000

Pipe: AWWA C151, Cement Mortar Lined, Thickness Class 52, minimum.

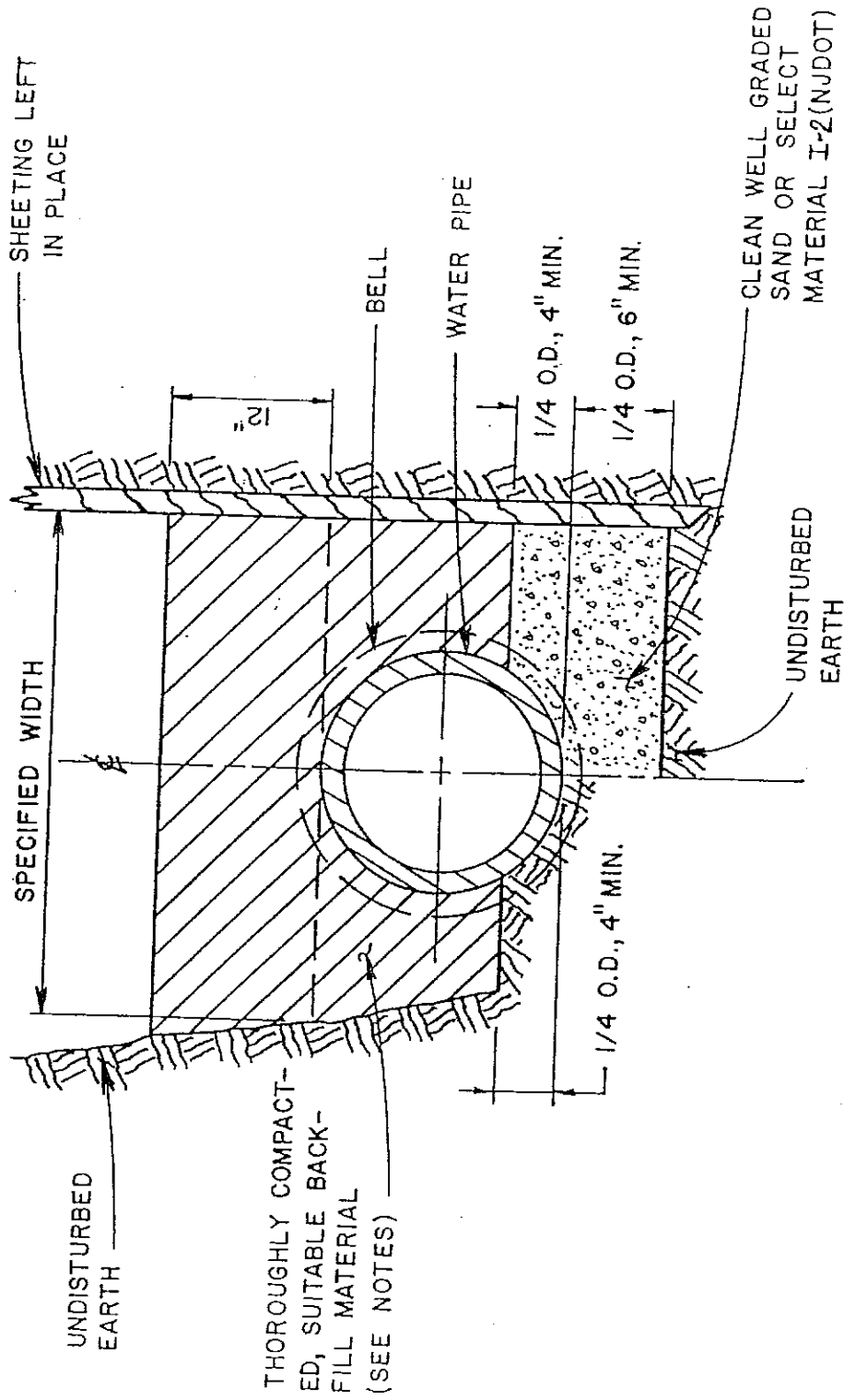
Tapping Sleeves: Mueller # H-615, (#H-619 for A-C pipe)

Tapping Valves: Mueller # T2360-16

Valve Boxes: Bingham & Taylor # 5664S

Curb Boxes: Mueller # H-10314 (1") w/ss Rods and Pins
Mueller # H-10310 (1 1/2" - 2") w/ss Rods and Pins

All curb boxes must be ordered with stainless steel rods and pins (#88055 or approved equal)



HALF SECTION
SHAPED BEDDING

HALF SECTION
GRANULAR BEDDING

ORDINARY BEDDING





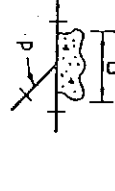
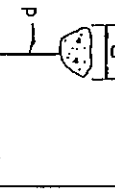
COLUMNS 1	TABLE OF TRENCH WIDTHS			
	2	3	4	5
PIPE DIA.	SPEC. WIDTH	STONE OR GRAVEL BEDDING		CONC. CRADLE
		TO 1/4 POINT	TO 1/2 POINT	
6" — 8"	2' — 6"	3' — 0"	3' — 0" TO 4' — 0"	OVER 4' — 0"
10" — 12"	3' — 0"	3' — 6"	3' — 6" TO 5' — 0"	OVER 5' — 0"
16" — 24"	3' — 6"	4' — 0"	4' — 0" TO 5' — 6"	OVER 5' — 6"

NOTES:

1. ALL TRENCHES & EXCAVATIONS TO BE GIVEN THE STEEPEST SIDE SLOPE PRACTICAL.
2. IF THE WIDTH OF THE TRENCH AT OR BELOW THE OUTSIDE TOP OF THE PIPE EXCEEDS THE WIDTH IN COLUMN 2, THE SPACE BETWEEN THE PIPE AND THE SIDE OF THE TRENCH OR SHEETING SHALL BE BACKFILLED WITH CLEAN WELL GRADED SAND OR SELECT MATERIAL I-2 BEDDING TO THE 1/4 POINT OF THE PIPE. IF THE TRENCH WIDTH EXCEEDS THE WIDTH IN COLUMN 3, THE CLEAN WELL GRADED SAND OR SELECT MATERIAL I-2 SHALL BE BROUGHT UP TO THE 1/2 POINT OF THE PIPE. IF THE TRENCH WIDTH EXCEEDS THE WIDTH IN COLUMN 4, THE CONTRACTOR SHALL PROVIDE A CLASS "B" CONCRETE CRADLE INSTEAD OF CLEAN WELL GRADED SAND OR SELECT MATERIAL I-2 BEDDING TO THE 1/2 POINT THE PIPE, 20" DIAMETER OR SMALLER.
3. COMPACTED BACKFILL SHALL BE AS A MINIMUM 90% OF MAXIMUM DRY DENSITY OF SOIL AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR DENSITY).
4. COMPACTION OF THE TOP TWO FEET (2') OF THE TRENCH (SURFACE ZONE) UNDER AREAS TO BE PAVED SHALL ACHIEVE AS A MINIMUM 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
5. HYDRANT ASSEMBLY TO BE INSTALLED AT ALL PIPELINE HIGH POINTS.
6. SUITABLE BACKFILL MATERIAL SHALL BE SELECT MATERIAL I-2 (NJDOT) WHEN ON-SITE SUITABLE MATERIAL IS NOT AVAILABLE.
7. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA, OTHER GOVERNMENTAL AGENCIES AND/OR REGULATIONS HAVING JURISDICTION OVER TRENCH DEPTHS AND SIDE OF SLOPES. ALL TRENCHES AND EXCAVATIONS SHALL FOLLOW OSHA REGULATIONS (LATEST REVISIONS) TO PROVIDE FOR THE PROTECTION OF PERSONNEL IN OR NEAR ANY EXCAVATION.

TABLE OF THRUST BLOCKS

☐ = CONTACT BEARING AREA OF BLOCK WITH EARTH, SQUARE FEET

DIAMETER (d) OF PIPE	5° - 22 1/2° ELBOW	23° - 45° ELBOW	46° - 90° ELBOW	TEE CONNECTION	45° WYE	PLUG
						
	☐	☐	☐	☐	☐	☐
4"	0.5	1.4	2.6	1.8	2.2	2.0
6"	1.5	3.0	6.0	4.0	4.5	4.5
8"	2.5	5.0	9.5	6.5	9.5	8.0
10"	4.1	8.0	13.0	9.5	12.5	12.5
12"	5.5	11.5	19.0	13.5	16.0	18.0
16"	9.0	18.0	33.0	23.0	27.0	32.0
20"	14.0	28.0	51.0	36.0	42.0	50.5

NOTES:

1. BEARING AREAS ARE BASED ON UNDISTURBED SOILS WITH A BEARING CAPACITY OF 1,000 POUNDS PER SQUARE FOOT. FOR A LESSER SOIL BEARING CAPACITY THESE AREAS SHALL BE INCREASED ACCORDINGLY.
2. ALL CONCRETE THRUST BLOCKS SHALL BE CLASS "B".
3. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.
4. NO JOINT SHALL BE COVERED WITH CONCRETE.
5. APPROVED MECHANICAL JOINT RESTRAINTS ARE REQUIRED AT ALL VERTICAL BENDS AND SHALL BE USED IN LIEU OF THE THRUST BLOCKS AT HORIZONTAL BENDS EXCEPT WHERE DIRECTED BY THE ENGINEER.
6. A BITUMASTIC COATING SHALL BE APPLIED TO ALL BOLTS, NUTS, WASHERS, RODS, THRUST RESTRAINT BOLTS AND ALL UNCOATED HARDWARE.
7. 6 MIL. POLY SHEATING SHALL BE PLACED BETWEEN FITTINGS AND CONCRETE THRUST BLOCKS.

NUMBER AND SIZE OF RODS REQUIRED AND PIPE LENGTH IN FEET* TO BE RESTRAINED									
PIPE SIZE IN INCHES	90° TEE OR DEAD END PLUG		45°		22 1/2°		NO.	SIZE	
	NO.	SIZE	NO.	SIZE	NO.	SIZE			
4	2	3/4"	2	3/4"	2	3/4"	2	3/4"	5'
6	2	3/4"	2	3/4"	2	3/4"	2	3/4"	5'
8	4 OR 2	3/4" OR 7/8"	2	3/4"	2	3/4"	2	3/4"	5'
10	4 OR 2	3/4" OR 1"	2	3/4"	2	3/4"	2	3/4"	5'
12	4	7/8"	2	3/4"	2	3/4"	2	3/4"	5'
14	4	1"	2	3/4"	2	3/4"	2	3/4"	5'
16	4	1"	2	3/4"	2	3/4"	2	3/4"	5'

* LENGTH OF PIPE TO BE RESTRAINED IS FOR EACH SIDE OF BEND.

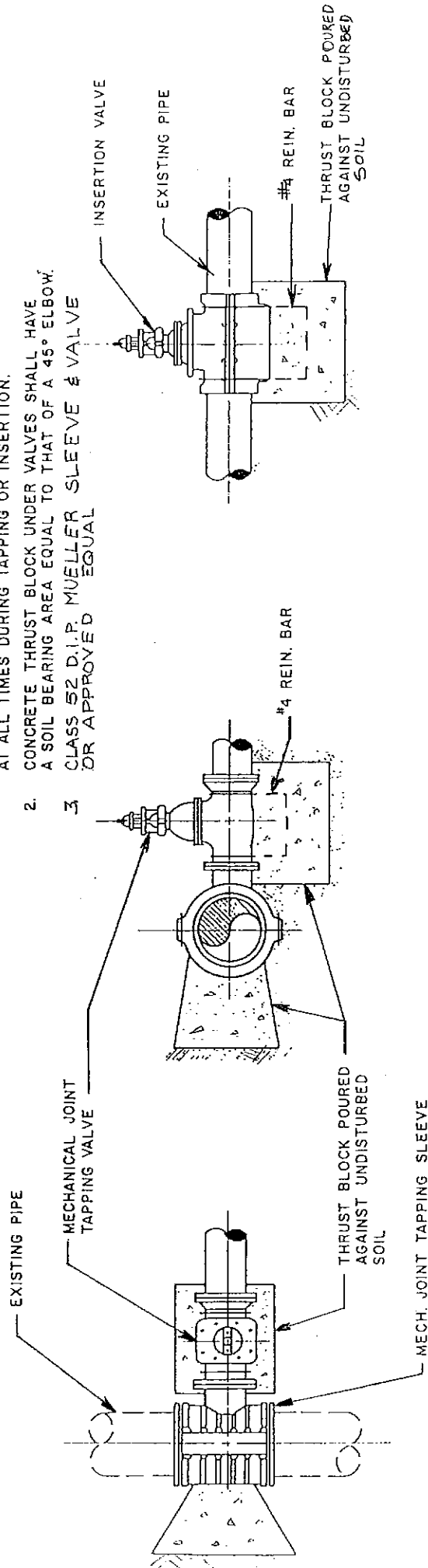
NOTES:

1. USE OF MECHANICAL JOINT RETAINER GLANDS OR "FIELD LOK" GASKETS SHALL PROVIDE A THRUST RESTRAINT SYSTEM EQUIVALENT TO THAT LISTED IN THE TABLE FOR CLAMPS AND RODS. ALL JOINTS WITHIN THE LENGTH LISTED IN THE TABLE SHALL BE RESTRAINED.
2. LENGTHS ARE BASED ON THE FOLLOWING CRITERIA: 150 P.S.I. MAXIMUM PRESSURE AND 3' - 6" OF COVER. TABLE IS FOR USE WITH C.I./D.I.P. ONLY. IF TEST CONDITIONS ARE MORE SEVERE OR LARGER PIPES ARE PROPOSED, THEN SPECIAL COMPUTATIONS MUST BE MADE BY THE DESIGNER.
3. A BITUMASTIC COATING SHALL BE APPLIED TO ALL BOLTS, NUTS, WASHERS, RODS, THRUST, RESTRAINT BOLTS AND ALL UNCOATED HARDWARE.

JOINT RESTRAINT SCHEDULE

TAPPING NOTES:

1. INSTALLATION OF TAPPING SLEEVE AND VALVE AND INSERTION VALVE SHALL BE CONDUCTED UNDER "WET" CONDITIONS. EXISTING MAINS SHALL BE LEFT IN SERVICE AT ALL TIMES DURING TAPPING OR INSERTION.
2. CONCRETE THRUST BLOCK UNDER VALVES SHALL HAVE A SOIL BEARING AREA EQUAL TO THAT OF A 45° ELBOW.
3. CLASS 52 D.I.P. MUELLER SLEEVE & VALVE OR APPROVED EQUAL

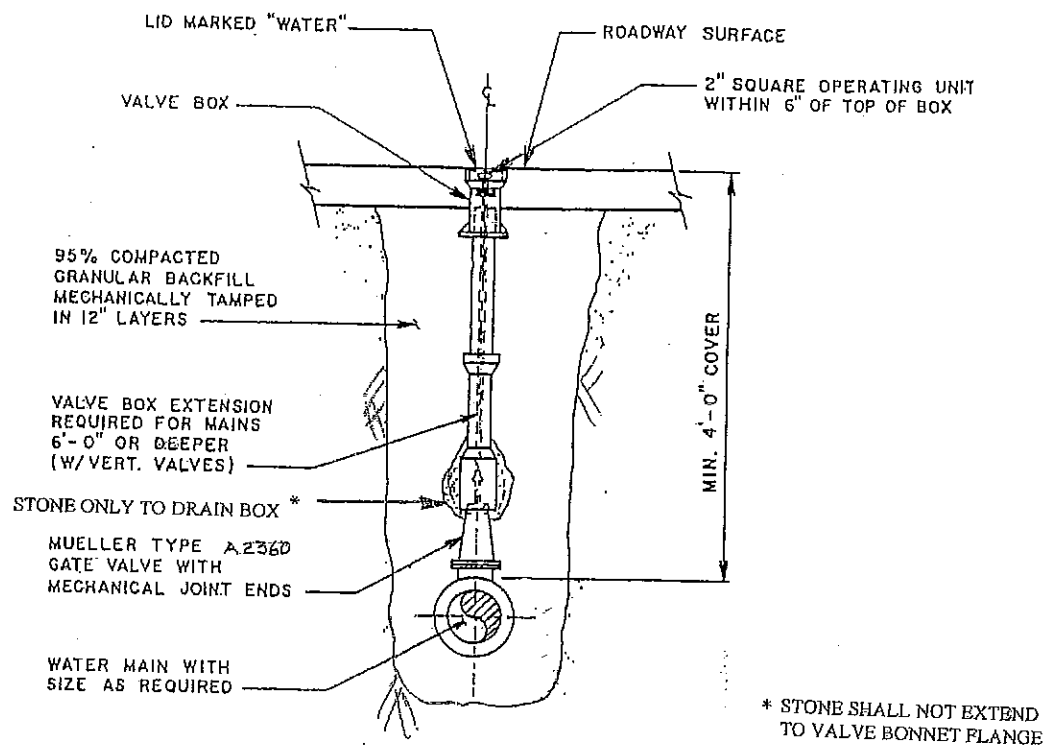


PLAN

ELEVATION

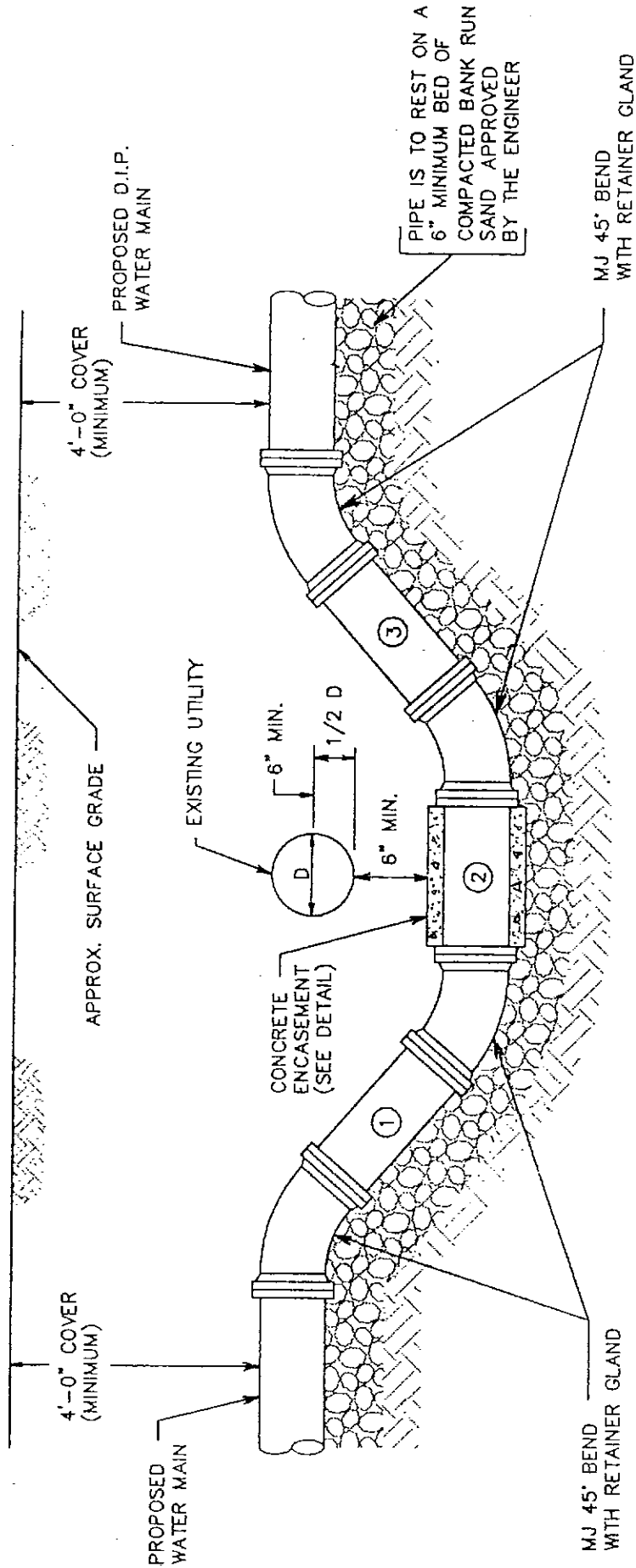
TAPPING SLEEVE AND VALVE

INSERTION VALVE



VALVES 12" DIA. AND UNDER

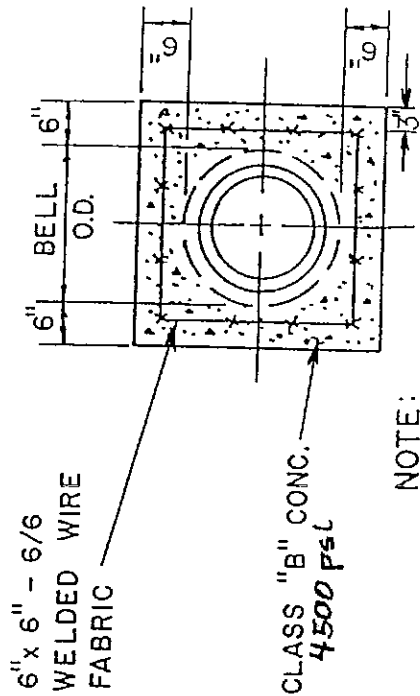
UNDERGROUND GATE VALVE DETAIL



- PIPE SECTIONS 1 AND 3 VARIABLE TO BE DETERMINED IN FIELD BY ENGINEER.
- PIPE SECTION 2 TO BE (UTILITY PIPE OUTSIDE DIAMETER (IN FT.) PLUS 2.0') MINIMUM LENGTH.
- CONCRETE CRADLE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 P.S.I.
- VERTICAL BEND RESTRAINTS AS PER DETAIL SHALL BE UTILIZED AS DEEMED NECESSARY BY THE ENGINEER.

UTILITY CROSSING

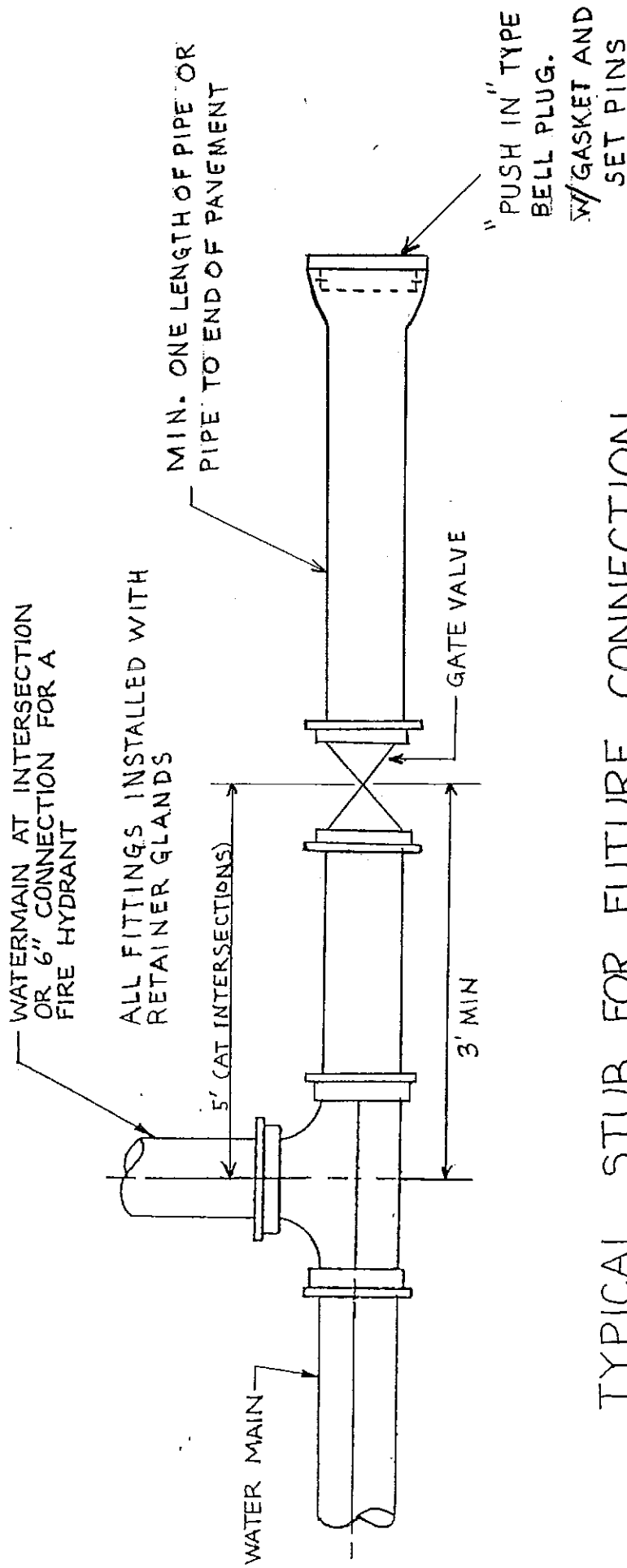
N.T.S.



PIPE ENCASED

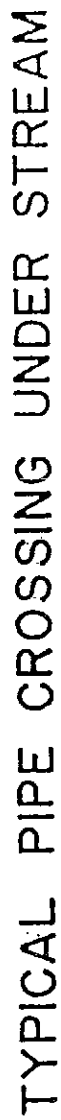
IN CONCRETE

<u>CAST IN PLACE CONCRETE</u>	
CLASS	ULTIMATE STRENGTH (PSI)
A	5000
B	4500
C	4000



TYPICAL STUB FOR FUTURE CONNECTION

(Also to be used at the temporary end of each section within a development as required by the MUA Engineer)

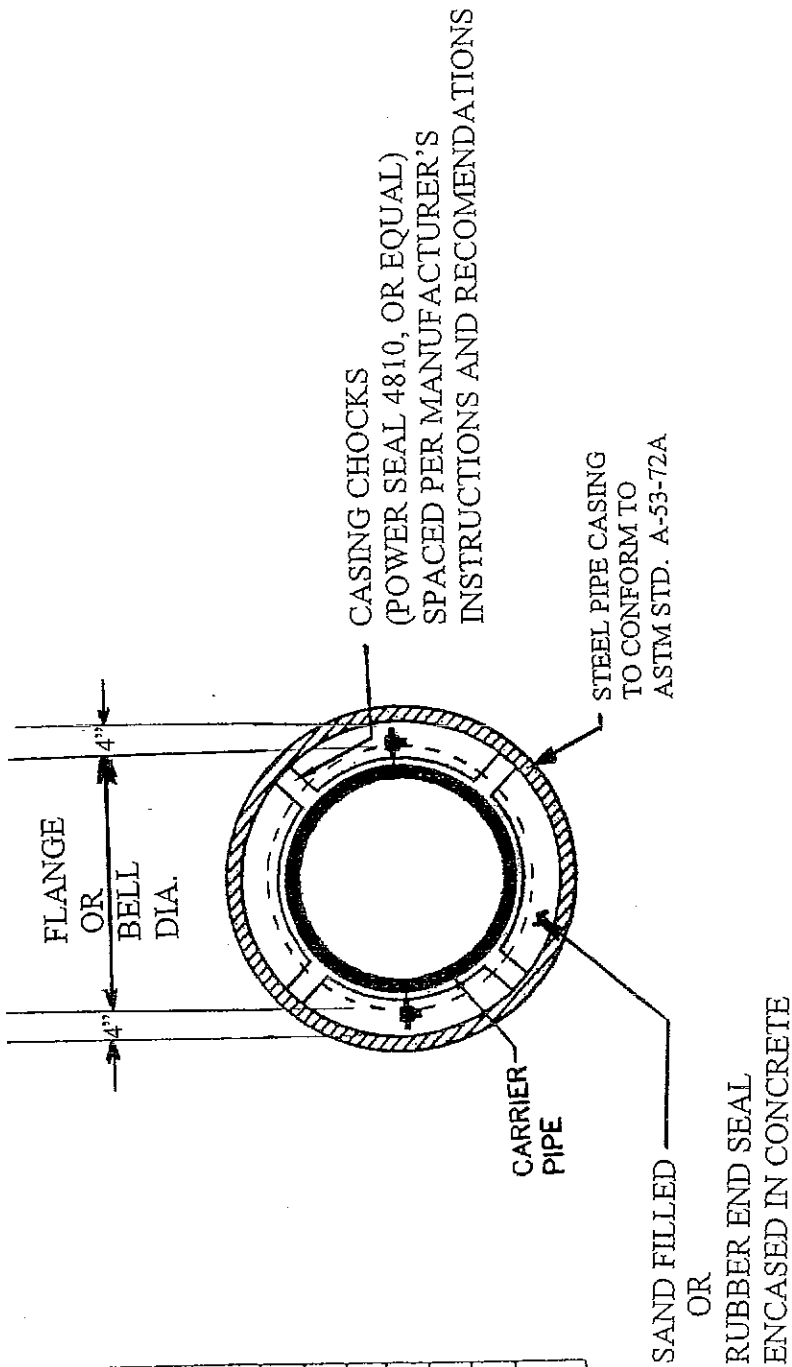


ALL JOINTS WITHIN CASING SHALL BE RESTRAINED

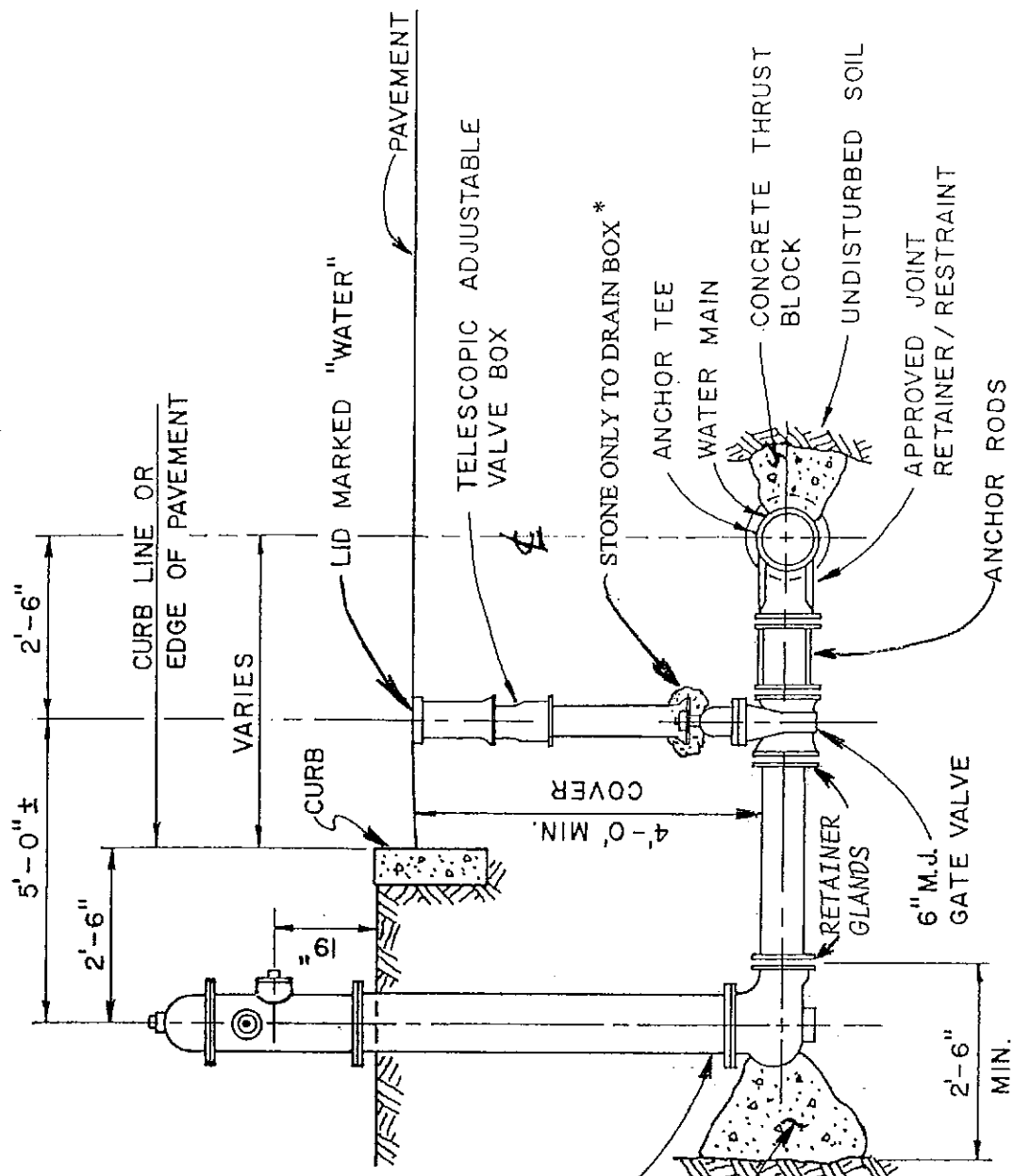
SEE ALSO DETAIL OF PIPE DRIVEN IN STEEL CASING



CASING SCHEDULE	
CASING DIA.	MIN. CASING WALL THICKNESS
8"-16"	3/8"
18"-20"	3/8"
22"-24"	3/8"
26"-28"	7/16"
30"-34"	1/2"
36"-38"	9/16"
40" LARGER	5/8"



PIPE DRIVEN IN STEEL CASING



NOTE:

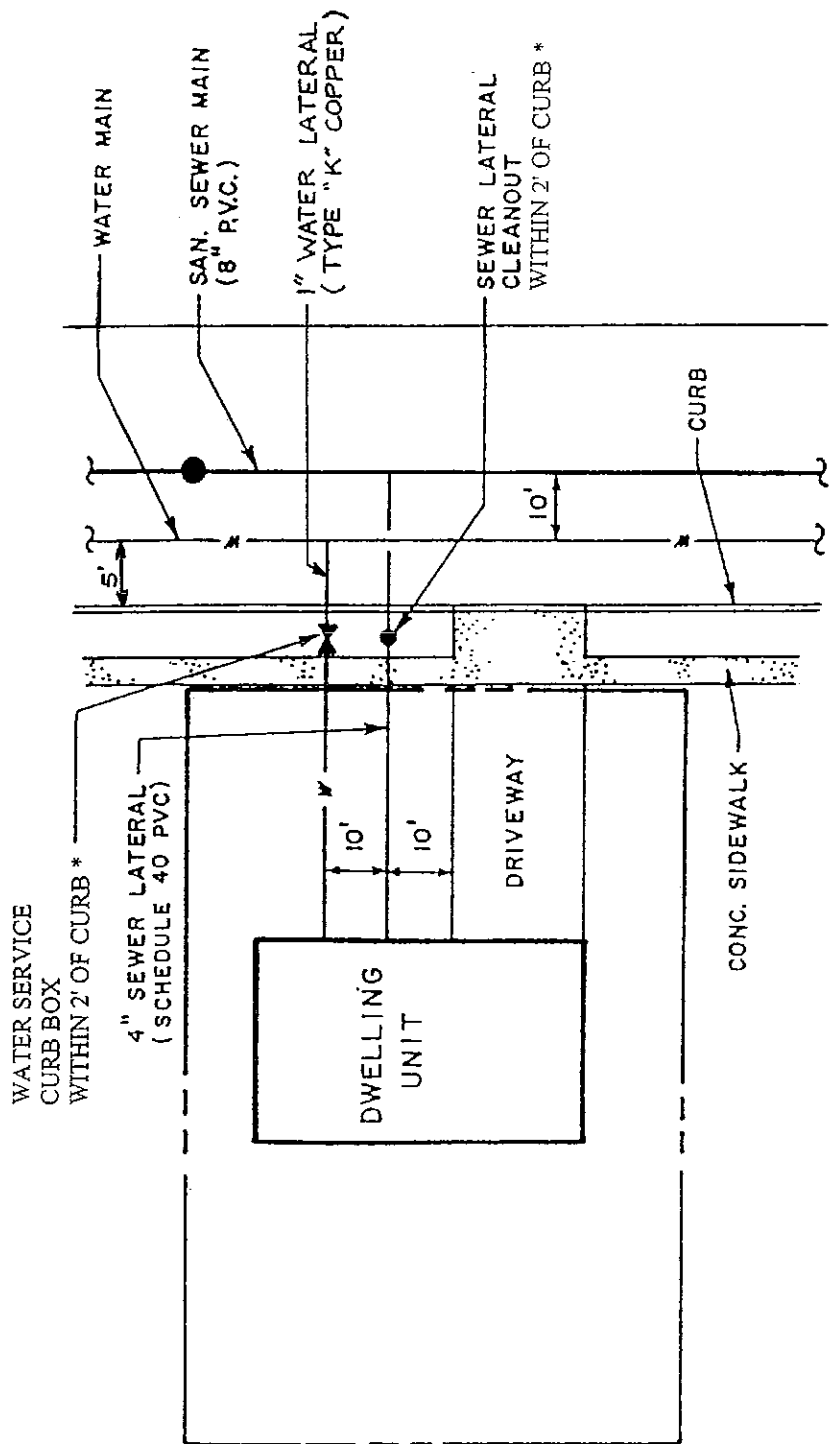
WHEREVER POSSIBLE
HYDRANTS SHOULD BE LOCATED
AT THE PROJECTION OF THE
LOT LINE SEPARATING THE
PROPERTIES, OR AS DIRECTED
BY THE ENGINEER.

DRAIN PORTS MUST BE FREE
OF CONCRETE OR OTHER
PERMANENT OBSTRUCTIONS

CONCRETE THRUST BLOCK
TO BE POURED AGAINST
UNDISTURBED SOIL.

* STONE SHALL NOT EXTEND
TO VALVE BONNET FLANGE

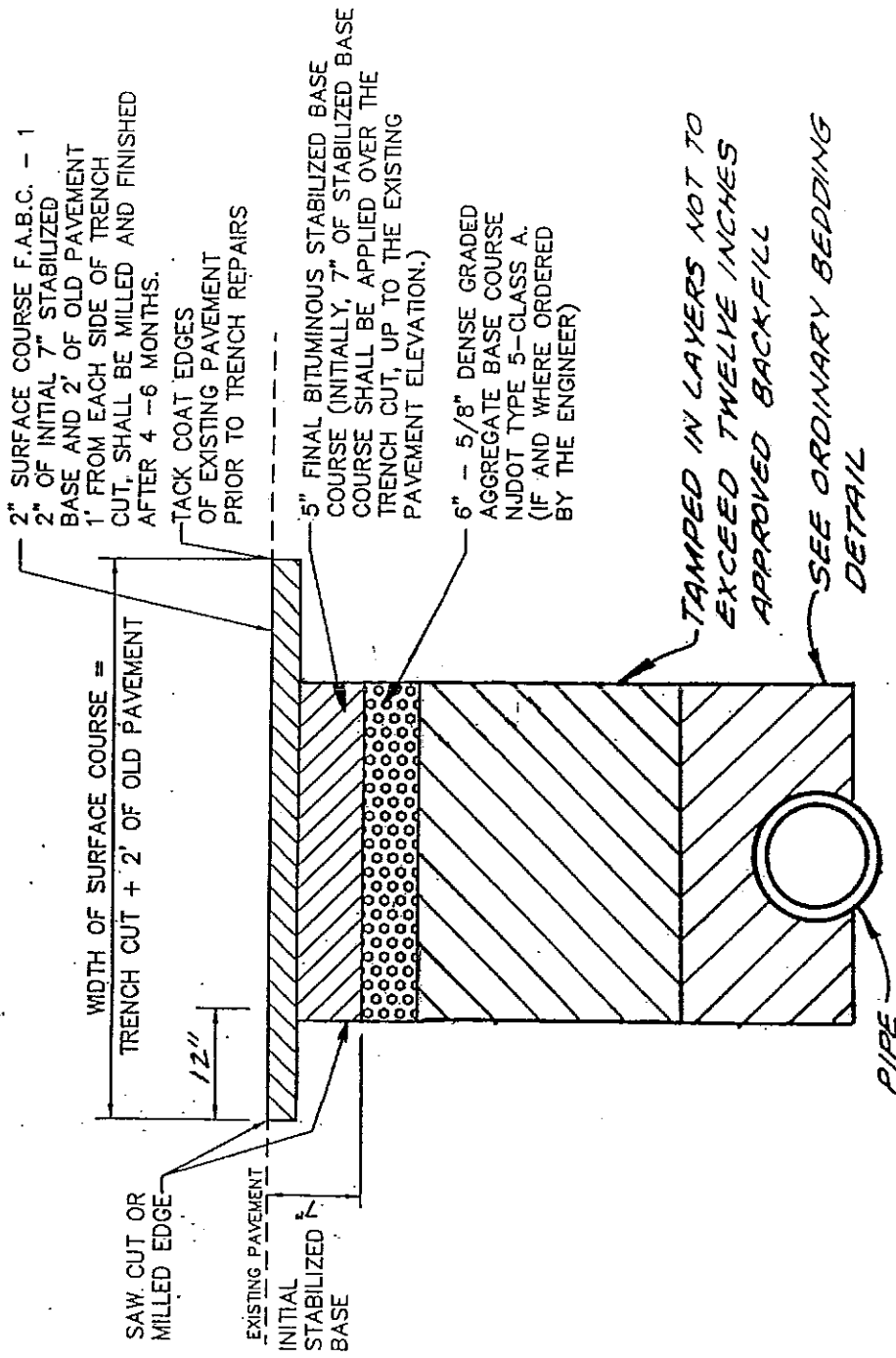
FIRE HYDRANT ASSEMBLY



* WHERE THERE IS NO CURB, INSTALL CURB BOX AND CLEANOUT JUST OUTSIDE OF PROPERTY LINE OR AS DIRECTED BY THE AUTHORITY.

TYPICAL SEWER & WATER LATERAL CONNECTION DETAIL

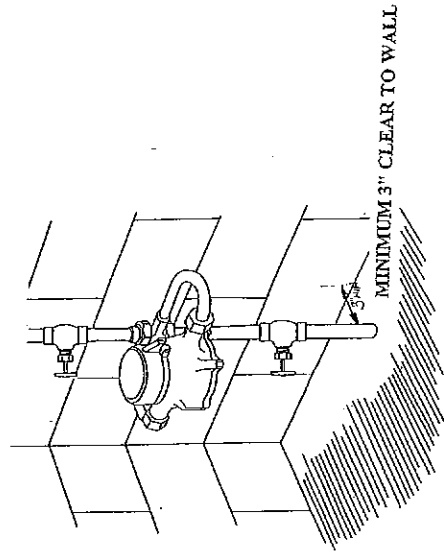
N.T.S.



PAVEMENT REPLACE MUNICIPAL ROADS

N.T.S.

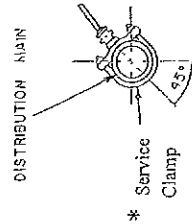
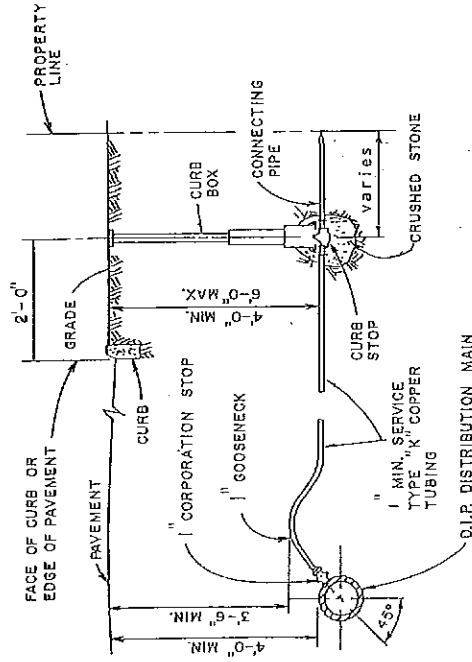
NOTE: PAVEMENT REPAIRS MUST BE IN ACCORDANCE WITH APPLICABLE PERMITS



12" MINIMUM BETWEEN VALVES

Plumber to install 3/4" copper pipe between 2 shut off valves. OBMUA will supply and install meter and yoke.

HOUSE SERVICE CONNECTION



* For transite pipe or any main where tap is 2" or greater. Service clamp shall be Mueller BR2-B or BR2-S Series.

TYPICAL METER INSTALLATION

For 5/8" x 3/4" Meter

Required Minimum Clearances: 3" off wall; 24" in front; 12" right, left and below.
60" maximum off floor.

For large meters, submit detail for approval

When ready for installation call OBMUA at (732) 679-8440

ANYONE USING UNMETERED WATER IS SUBJECT TO FINES!!

MUELLER LID #282925 WITH
LID FRAME #700098
OR APPROVED EQUAL

HOSE BIBS
FOR SYSTEM
BLOW OUT

FINISHED
GRADE

URB

NIPPLE
LOK-PAK
FLANGE

METER
FLANGE

METER

60"

BALL
VALVE &
BOX

STONE

24" for 1 1/2" Meter
27" for 2" Meter

CLEAN
STONE

DRAIN FOR METER
ONLY

BALL VALVE
& BOX

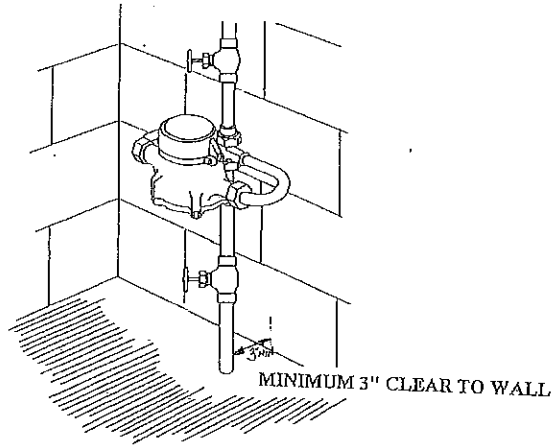
TO
SYSTEM

BACK-FLOW PREVENTOR
PER TOWNSHIP
PLUMBING CODE

PIT SHALL BE
MUELLER/MCCULLOUGH
EZ-VAULT METER SETTER
WITH OPTIONAL INSULATION
OR APPROVED EQUAL
BASED ON SIZE OF METER
#500VS2760LAB for 1 1/2" METER
#550VS2760LAB for 2" METER
FITS FOR OTHER SIZE
METERS TO BE APPROVED
BY THE MUA.

TYPICAL IRRIGATION METER PIT

EXACT DIMENSIONS TO BE DETERMINED BASED
ON SIZE METER REQUIRED.



12" MINIMUM BETWEEN VALVES

Plumber to install 3/4" copper pipe between 2 shut off valves. OBMUA will supply and install meter and yoke.

TYPICAL METER INSTALLATION

For 5/8" x 3/4" Meter

Required Minimum Clearances: 3" off wall; 24" in front; 12" right, left and below.

60" maximum off floor.

For large meters, submit detail for approval

When ready for installation call OBMUA at (732) 679-8440

ANYONE USING UNMETERED WATER IS SUBJECT TO FINES!!

EXHIBIT H
WATER FEE TABLE

A. Application Filing Fees for Major Applications

- | | | |
|----|---|--|
| 1. | Application Fee: | \$75.00 per EDCU |
| 2. | Preliminary Escrow Fee: | \$50.00 per EDCU (\$2,000 minimum)
<u>plus</u> \$500.00 |
| 3. | Tentative Escrow Fee: | Five percent (5%) of the Construction Cost (\$1,000 minimum) <u>plus</u> \$500.00 |
| 4. | Final Escrow Fee: | Five percent (5%) of the Construction Cost for estimated Review Fee (\$500.00 minimum), <u>plus</u> ten percent (10%) of the construction cost for estimated Inspection Fee (\$1,000.00 minimum), <u>plus</u> \$1,500.00 |
| 5. | Application for Extension: | \$250.00 |
| 6. | Change of Ownership
Administrative Charge: | \$100.00 |

In certain applications, where Consulting Engineers are utilized to review or inspect the Applicant's proposed water system, the Applicant must pay for the Consulting Engineer's Fees in addition to the standard Escrow Fees.

The Developer also must pay additional monies, during the course of the project, to maintain sufficient balance in the escrow account as determined by the Authority.

B. Application Filing Fees for Minor Applications

- | | | |
|----|----------------------|--|
| 1. | Application Fee | \$75.00 per EDCU |
| 2. | Escrowed Review Fee: | Ten percent (10%) of construction cost estimate as determined by the Authority Engineer (\$5,000 minimum). |

C. Fees for Residential Individual Water Service

- | | | |
|----|----------------------|---|
| 1. | Application Fee: | \$75.00 |
| 2. | Labor and Materials: | \$2,180.00 (for standard 1" tap) |
| 3. | Meter Fee: | \$270.00 (for standard 5/8" x 3/4" meter) |

D. Connection Fee: \$2,595.00 per EDCU

E. Construction Water Fee: \$10.00 per EDCU

F. Hydrant Meter

1. Application Fee: \$50.00
(valid for 3 months)
2. Deposit: \$1,000.00
3. User Fees: Based upon metered flow

G. User Fees

The minimum/base quarterly charge for the first 6,000 gallons used is \$69.37 per equivalent unit.

This table is meant to represent a portion of the most recent "Rate Structure" as adopted by Resolution of the Old Bridge Municipal Utilities Authority.

The full Rate Structure Resolution is available at the Administrative Office of the Authority.

NOTE: All fees must be paid with separate checks.