



**SECTION 4**  
**MAIN EXTENSIONS**

**A. EXTENDING MAINS**

In general, whenever extension of a water main within the District boundaries is required because a principal part of the premises to be served does not lie along an available water main with adequate flow and pressure, the extension will be installed after an agreement has been executed by the applicant and the District for payment by applicant of all applicable charges. The manner of determining the charges is set forth in this section and is based on the policy of the District that applicants for water service shall pay the full cost of facilities required to provide the service. The charges shall be as described in the Schedule of Rates and Charges.

**1. MAIN EXTENSIONS LESS THAN 1,000 FEET IN LENGTH**

A water main extension of less than 1,000 feet will be installed only by the District and in accordance with the terms and conditions of an agreement between the applicant and the District.

**2. MAIN EXTENSIONS OF 1,000 FEET AND OVER IN LENGTH**

A water main extension of 1,000 feet and over in length shall be installed by the applicant in accordance with the terms and conditions of an agreement between the applicant and the District. However, a water main extension of 1,000 feet and over in length, involving multiple applicants acting as individuals, or where a public agency is the applicant may be installed by the District in accordance with the terms and conditions of an agreement between the applicants and the District.

When the District requires that main extensions be polyvinyl chloride (PVC) pipe, the applicant shall supply, at its own expense, the pipe materials and fittings. The District will supply valves, valve pot covers, blowoffs and minor appurtenances at the applicant's expense. Materials to be supplied by the District will be detailed on the District prepared drawings and specifications. When the District requires main extensions of steel pipe, the District will supply the pipeline materials and fittings, also at the applicant's expense. However, in those few instances when an applicant installation requires 20-inch or larger steel pipe, the District may permit the applicant to furnish the pipe.

The material supplied by the applicant and the work performed must comply with the drawings and specifications furnished by the District and shall be subject to District inspection at all times. The applicant will be required to pay in advance the charges for any District supplied materials, engineering and inspection services, and related overhead. The applicant must also furnish, in form and with sureties acceptable to the District, a faithful performance bond, or other security acceptable to the District, a payment bond, and certificates of insurance. Upon completion of the installation in accordance with the agreement, and acceptance by the District, title to the extension shall be transferred to the District by the applicant.



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Water service will not be provided by the extension of a water main where the meter(s) for the premises concerned will be located at an elevation of less than 100 feet below the overflow level of the reservoir supplying such main, except as provided in Sections 4.C.4 and 8-A.

Main extensions incorporating capacity for future customers in a region will be financed in part by System Capacity Charges. Such improvements will not be installed upon the request of one or more applicants to serve particular premises.

**B. GENERAL PROVISIONS CONCERNING MAIN EXTENSIONS**

1. General

- a. The pipe specifications, point of commencement, and all other requirements for main extensions shall be determined by the District.
- b. Water mains will be sized and located to meet estimated water service requirements, including projected water demands and fire flows, including peak hour and maximum-day demands.
- c. Under normal conditions, 6- and 8-inch diameter water mains in streets and paved areas shall be polyvinyl chloride pipe. For larger diameter mains, and whenever installation circumstances require, steel pipe will be specified as determined by the District, including but not limited to any of the following situations:
  - installations in rights-of-way which are outside of improved roads or streets,
  - installations in unstable ground or across faults,
  - installations in areas or locations where the pipe may either be subject to unusual risk of damage or working pressures will be in excess of normal range, or
  - installations in ground where contamination is suspect.
- d. A water main extension will not be permitted solely to supply a hydrant or private fire service unless it is determined by the District that such extension will not adversely affect the distribution system.

2. Size of Water Mains

- a. The minimum size of water mains will be as follows:
  - In low- and medium-density residential areas, except as provided below, the minimum size will be 6 inches. An applicant will be charged for the size of main extension needed to meet the water service requirements for the project.



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- In high-density residential, commercial, and industrial areas, and on long streets without side connections such as on terraced hillsides, the minimum size will be 8 inches. An applicant will be charged for the size of main extension needed to meet the water service requirements for the project.
  - If steel pipe is required, the minimum size will be 8 inches, except in unusual cases such as where low use could cause water quality problems. An applicant will be charged for the size of main extension needed to meet the water service requirements for the project.
  - Two-inch pipe may be used in private driveways or roads where all of the following conditions exist: (1) there are no more than three possible service connections; (2) there is no possibility of further extension or service connections; (3) there is no requirement for a fire hydrant; and (4) standard service is reasonably available from the extension to all premises to be served.
- b. Mains will be sized to meet the following service conditions:
- Projected peak-hour demand with a residual pressure of at least 40 psi in the main, where feasible;
  - The project's design fire flow plus projected maximum-day demand with a residual pressure of at least 20 psi in the main;
  - Projected maximum pumping rate with the pressure not exceeding 140 psi at the nominal lower elevation of the pressure zone (equivalent to 300 feet below reservoir overflow elevation); and
  - Pressure fluctuation in the main limited to a maximum of 30 psi under normal operating extremes, not including fire flow.
- c. Mains between pumping plants and reservoirs will be increased in size to reduce energy consumption in pumping when economically justified and where applicable, the applicant will be charged for the said main.
- d. Main extensions, and replacements for service, will be sized to provide capacity for the applicant and the potential future demand beyond that of the applicant.

The applicant will be charged only for the size of main required for the applicant's project.



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3. Length and Location of Water Mains

- a. Water mains will be located within the paved area of streets or roads to the extent practicable.
- b. With the exception of the nonpotable water distribution system, the distribution system pipe network will consist of closed loops so each section of main can be fed from either end to the extent practicable, dead ends will be avoided, existing dead ends will be eliminated, and relatively large areas or areas with a large number of service connections will have more than one pipeline feed. An applicant will not be charged for the additional water main necessary to close a loop in the existing distribution system, unless it is required to meet estimated water service requirements. When a complete system of mains is planned for a new development project, the closing of loops will be included in the charge to the applicant.
- c. A water main 20 inches or larger which has the primary purpose of transmission of water between major facilities and/or significant areas of the distribution system will not be available for installation of service connections. Service will be granted from a smaller parallel main extended from the nearest available main in the distribution system or from a turnout on the larger main at a location consistent with the orderly development of the distribution system pipeline grid in the vicinity of the applicant's premises. An applicant will be charged for the parallel main extension required for service. If the existing larger main carries a front foot charge, the District will reimburse the original applicant based on the front footage of the properties that would be served by the smaller parallel main, provided that the front foot charge is payable.

Installation of a service connection on a 20-inch or larger water main may be considered (a) for an isolated service that can be interrupted for long periods, such as an irrigation service under a conditional service agreement, or (b) for an isolated service where the District determines that the installation of a smaller parallel water main would be impractical because (1) an available main does not exist, and (2) the development of a distribution system to serve other properties in the vicinity is not anticipated in the foreseeable future.

- d. Separate parallel water mains may be required on each side of the traveled way in streets or roads with three or more traffic lanes and curb parking, or with four or more traffic lanes, or which are divided or which contain a subsurface structure or facility interfering with the normal installation of a service lateral. In such cases, existing mains are available for service connections only to premises with frontage on the same side of the street or road. An applicant will be charged for a parallel main extension if it is required for service.



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**C. EXCEPTIONS**

The preceding provisions shall not apply to main extensions under the following conditions:

1. Where the District finds that there is inadequate capacity in the existing system, in which case the applicant will be advised of the terms and conditions under which an extension may be installed.
2. If the construction of major facilities is required before service can be granted, in which case the conditions of Section 3-B shall govern.
3. If in the determination of the District the majority of adjacent premises fronting on the same street or road are already served by the District at locations other than the principal frontage without service agreements allowing for such non-standard service, a water main extension may not be required. The owner(s) of the premises shall agree in writing to the conditions of service, including relocation of the service and payment of any applicable costs, should standard service become available at the principal frontage. This agreement, which may include provisions of limited or low pressure service if applicable (see Section 8), shall be a covenant against the premises to be served and shall run with the land, and be recorded by the District.
4. Where unusual conditions exist, in which case the applicant will be advised of the terms and conditions under which an extension may be installed.
5. If in the determination of the District it is not in the best interests of the District to extend a water main with standard pressure and flow or to construct major facilities for a new pressure zone, the District may, in its sole discretion, authorize water service from a water main that is not adjacent to the principal frontage of the premises to be served. The following conditions must prevail in order for service to be authorized pursuant to this subsection:
  - The project is for a small number of premises.
  - The premises can be served from a water main in the immediately adjacent lower pressure zone, or higher pressure zone. Service from a higher pressure zone will be considered only if pressures to the premises are not too high.
  - The District has determined that a standard distribution system to provide the premises with water service is not presently feasible.
  - The proposed method of service has been reviewed and is recommended by the Manager of Water Distribution Planning and approved by the Director of Engineering and Construction.



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- The applicant has agreed to all terms and conditions set forth in these Regulations with respect to Limited, Low-Pressure or High Pressure Services, if applicable.
- The applicant has agreed to all terms and conditions necessary to provide water service including, but not limited to, applicant installation and District inspection of pumping and/or storage facilities; restrictions on pumping capacity and operation; agreement to pay a proportionate share of the cost of installing flow control valves or other equipment necessary to provide service without adversely affecting the pressure and flow to existing customers; and acknowledgement that District may install flow restricting devices and/or terminate water service if the restrictions on pumping capacity and operation are exceeded.
- The applicant has agreed to pay a proportionate share of the cost of a main extension and the cost to relocate services in the event that a water main is installed immediately adjacent to the premises at some future date.
- Applicant has also agreed to notify subsequent owners of the premises of the conditional nature of the water service.
- The applicant has further agreed that the location of the water service connection shall be subject to District approval and shall not be located in the traveled way of private roads or driveways and shall be readily accessible for purposes of meter reading and routine maintenance.
- The applicant has provided written evidence of the following:
  - a. Satisfaction of all requirements applied to the development by the fire protection agency;
  - b. Evidence that local agencies responsible for issuance of building and occupancy permits have been fully informed of the nature and conditions of water service to the development;
  - c. Acquisition of all necessary property rights as determined by the District.

For purposes of this subsection, “feasible” shall mean that the District has determined that standard water service configurations under these Regulations are not economical due to the costs of operating and maintaining the water service facilities in relation to the small number of premises to be served. In making this determination, factors to be considered by the District include, but are not limited to: (a) the projected revenue from new services in the development as compared to the costs of operating and maintaining water service facilities that would otherwise be required to serve the development and (b) the anticipated additional costs that would be incurred by the District to maintain water quality in such water service facilities.



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6. In certain unusual circumstances, a water main extension may not be required and the premises may be served at a location other than the principal frontage, provided that:
- The premises fronts on an existing main of adequate flow and pressure, but is separated from the main by a strip of land used solely for landscaping purposes that is owned by a third party, that has been determined by the District to be unsuitable for development, and across which the applicant has an easement for service and no other utility easement is reasonably available;
  - The applicant meets the requirements for a conditional service and agrees in writing to the conditions of such service as set forth in Section 3; and
  - The District has determined that a main extension is not desirable because of geotechnical factors or not necessary to facilitate system operation.

**D. FRONT FOOT CHARGES AND REFUNDS**

**1. FRONT FOOT CHARGES**

The District will collect a front foot charge, where applicable, before granting a standard service or a private fire service to premises which lie along and may be served directly from any main extension installed under the provisions of this regulation or financed by the District. The front foot charge for a main extension shall be in effect for a period of twenty years from (1) the date of execution of the contract if the extension is financed by an applicant, or (2) the date of the official completion of the extension if financed by the District.

The front foot charge shall not be applied more than once to any premises. Except for unusual conditions, premises already served at the date of installation of the extension will be excluded in determining the front foot charge. Unusual conditions include, but are not limited to, premises served under a special service agreement, premises for which relocation of the service connection to the extension is requested, and premises already served but later subdivided requiring additional service connections.

Whether a main extension is installed by an applicant or by the District, the front foot charge will be determined by dividing the charge for the extension by the front footage of all premises which lie along and may be served directly from the extension. When installed by the applicant, the charge for the extension for purposes of determining the front foot charge shall be computed as if installed by the District.

To equitably distribute extension costs to the premises served from the extension, when a premises has an average lot width with more than a nominal difference when compared to the principal frontage, such as on road curves and cul-de-sacs, the average lot width, as determined by the District, shall be the front footage for that premises. The District may also include, in determining the charge, premises which do not have principal frontage on



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the extension but will have service connections on the extension under special service agreement.

2. FRONT FOOT CHARGE REFUNDS

The applicant who has financed a main extension (or the applicant's assignees) is entitled to the front foot charges collected by the District for permitting the connection of a standard service or a private fire service to such extension. The amounts collected will be refunded without interest within 90 days following the date of collection.

No front foot charge refunds will be made after twenty years from the date of execution of the contract for an applicant-financed extension except those refunds which have accrued during such twenty-year period. The terms of this refund provision shall apply to all water mains installed under contracts executed on or after April 1, 1955.

The total amount of all refunds made by the District to the applicant (or the applicant's assignees) may not exceed the installation charge for the main used to compute the front foot charge.