

G. Water and Sanitary Sewer

1. Water Supply

a. Existing Conditions

United Water Company services the project site. United Water obtains their water supply from the New York City Catskill Reservoir system. Water distribution facilities servicing the project site are located within Kensington Road.

Water mains within Kensington Road are eight (8) inch diameter cast iron mains. Recent testing performed on the Kensington Road main by United Water has confirmed a static pressure of 115 psi within the system in front of the project site. The existing main can deliver 1,345 gallons per minute with a residual pressure of 75 psi and 2,138 gallons per minute at a residual pressure of 20 psi.

An existing six (6) inch diameter main is located through the project site between Kensington Road and the MTA railroad tracks. The main, which connects the water distribution system in Kensington Road to mains located west of the MTA tracks, crosses the tracks through a tunnel. United Water Company representatives indicate that the existing main is active and it is their desire to maintain the connection.

b. Potential Impacts

The proposed 61-unit condominium development is anticipated to have a population of 126 persons and an average estimated daily water usage of 6,450 gallons per day (126 residents x 75 gpd/resident = 9,450 gpd). Examination of peak flow conditions resulted in an estimated peak daily flow of 17,010 gpd (9,450 gpd x 1.8 = 17,010 gpd) and a peak hourly flow of 26.25 gpm (9,450 gpd/24 hours/day/60 min/hr x 4.0 = 26.25 gpm). Adequate flow and pressure are available to service the project.

The Applicant proposes to install a separate domestic water service and separate fire supply main to service the project. The service and fire supply lines shall connect to the existing eight (8) inch diameter main within Kensington Road by wet taps. Backflow prevention devices shall be installed on the service lines. Devices shall be located within a utility room to be located within the upper level of the parking garage.

Various options of relocating the water main running through the property have been examined and discussed with United Water Company representatives. Options include relocation of the water main within the parking garage, below the garage and around the proposed parking structure. The preferred option by United Water is to locate the main around the structure. It is, therefore, proposed to replace the existing water main with an eight (8) inch diameter ductile iron pipe. The main

shall connect to the Kensington Road main, north of the proposed building, extend to the MTA right-of-way north of the building and continue southerly along the MTA right-of-way to the existing tunnel entrance. Connection to the existing six (6) inch main shall occur at the tunnel. The project will require an easement agreement between the MTA and United Water for the relocated water main on MTA property. A list of required permits, reviews, approvals and easements is included in Table I-1, Required Permits, Reviews and Approvals in Chapter I of this DEIS, Introduction and Executive Summary.

c. Proposed Mitigation

As noted above, the Applicant proposes to install a separate domestic water service and a separate fire supply main to service the project. In addition, based on discussion with United Water, the Applicant will replace the existing six (6) inch water main that currently runs through the project site with an eight (8) inch ductile iron pipe, which will run around the proposed Kensington structure, as described above. Additional water conserving fixtures for toilets, sinks, and showers, will also be provided.

2. Sanitary Sewerage

a. Existing Conditions

The project site is serviced by the Village of Bronxville Sanitary Sewer Collection System and Westchester County Bronx River Valley Trunk Sewer System. Sewage flows from the project will be treated at the Westchester County Yonkers Treatment Plant and, ultimately, discharged to the Hudson River.

Municipal owned sanitary sewer collection facilities are available adjacent to the property within Kensington Road. Sanitary sewer mains within Kensington Road are eight (8) inch diameter cast iron pipes. The existing mains are located at sufficient depth to provide gravity service to the proposed buildings. According to Mr. Vincent Pici, P.E., Village Engineer, there are no known problems within the existing Village collection system, which would hamper service of the project. Mr. Adam Zaminsky, Deputy Commissioner of the Westchester County Department of Environmental Facilities has confirmed that the project site is within the Yonkers Treatment Plant service area and capacity is available to service the project.

b. Potential Impacts

The proposed 61 two (2) bedroom apartments within the project are projected to generate 18,300 gallons of sewage flow per day (61 two (2) bedroom apartments x 300 gpd per apartment = 18,300 gpd).

Each of the two buildings shall have a single six (6) inch diameter ductile iron service main, which shall connect from the buildings directly to

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sanitary sewer manholes located within the Kensington Road and shall be gravity systems. Services shall comply with Village regulations and have a minimum pipe slope of two percent. There is adequate capacity within both the Village and County systems to service the project.

c. Proposed Mitigation

Because ample capacity currently exists to service the project, no additional mitigation is proposed.