



JERSEY CITY MUNICIPAL UTILITIES AUTHORITY

STANDARD REQUIREMENTS FOR NEW SANITARY AND STORM SEWERS AND SERVICE LATERALS

(Revised: December 26, 2018)

Plans and any additional information as applicable must be presented to the JCMUA for review and comments for all proposed sanitary and storm sewer connections to the JCMUA sewer system or that are proposed in Jersey City. Repairs to existing services do not require the review and approval of the JCMUA. All plans must be signed and sealed by a Professional Engineer or Registered Architect licensed to practice in New Jersey and submitted to the JCMUA's Sewer Engineering Office, 555 Route 440, Jersey City, NJ 07305 for approval.

The following technical requirements shall be addressed in preparation of site/utility plans:

- 1.) All sewer service connections 6-inches in size or smaller must be made directly to the sewer main and all connections 8-inches in size or larger must be made to a manhole. Where a connection to a manhole is required, manhole bench and channel may require modification.
- 2.) The JCMUA requires that sewer service connections to be re-used be televised to verify structural integrity and that the pipe is free from any defects or obstructions.
- 3.) Each building service lateral storm and sanitary must have a T-Wye cleanout installed approximately 1-ft from the curb in the sidewalk. Cleanouts shall be 5" (min) Cast Iron Ferrule With a 4" IBTS Brass Cap. T-Wye cleanouts which enable cleaning in both directions should be installed on both the storm and sanitary lateral. See our detail titled "Standard Sanitary Cleanout" (refer to attached detail drawings).
- 4.) Proposed sewer lateral connection to JCMUA's sewer main shall be made above horizontal center line of pipe (refer to attached sewer service connection details).
- 5.) The size, material, depth, condition, direction of flow and any other relevant conditions of the existing JCMUA sewer to which you plan to connect must be field verified by developer to determine if said connection is physically possible and practical. In addition, manhole inverts and rim elevation must be shown on plans. This verification is to be included on the plans for the project.
- 6.) Circular hole saws or core drills appropriately sized to make the openings in the existing sewer to receive the laterals must be used. **Jackhammers, sledgehammers and other unsuitable tools or machinery which may damage the JCMUA's sewer main are not allowed to be used to make the lateral openings.** All debris must be removed and not allowed to fall into pipe.

- 7.) A detail of any proposed manhole or catch basin showing all dimensions in addition to rim, grate and invert elevations of the structure and all pipes connected to the structure must be shown on plans. Refer to JCMUA standard detail drawings for manholes and catch basins.
- 8.) Proposed manholes constructed in the public R.O.W. on existing or proposed JCMUA sewers shall be furnished with concentric manhole covers as manufactured by Campbell Foundry Co., Pattern #4428 or equal with outside cover diameter of 31-3/4 inches and inside cover diameter of 24 inches.

The letters "JCMUA" and "SEWER" shall be cast in the outer face cover. Manhole frames shall be Campbell Foundry Co. Pattern #4428 (for 30-inch opening) or #1206 (for 41-inch opening) or equal furnished with a Pattern #4428 concentric cover as specified in the preceding paragraph.

Refer to JCMUA's standard detail for manhole frame and covers.

- 9.) Storm inlets which are connected directly to JCMUA combined sewers must be furnished with a sump and trap as per JCMUA standard details.
- 10.) The JCMUA has a combined sewer system which surcharges during wet weather periods resulting in possible sewage back-ups through plumbing fixtures (sinks, toilets, floor drains, etc.) below street level. **JCMUA will not be responsible for any possible sewage back-ups and flooding in basements due to surcharging sewer conditions in wet weather events.** This possibility must be addressed during the design and construction phase.
- 11.) A drop manhole connection shall be used where there is a difference in elevation of two (2) feet or greater between the invert of a sanitary or combined inlet pipe to manhole and the crown of the outlet pipe from manhole. Refer to attached JCMUA's standard detail for drop manhole connection which must be shown on site plan if required.
- 12.) Test pits must be performed at the developer's expense during the design phase of the project to ensure that proposed sewers and sewer services may be constructed as proposed without conflicting with other underground utilities or structures.
- 13.) Lateral connections must be cut 8-inches from sewer main, a non-hub stainless steel coupling and a 6-inch long section of SCH-40 PVC pipe with cap must be installed **as per attached "JCMUA – Sewer Lateral Abandonment Detail"**. All existing sewer mains and upstream sanitary laterals to be abandoned must be filled with concrete slurry or removed from the ground. Precautions must be undertaken by the contractor to ensure concrete and other materials do not enter the sewer main and create obstruction(s). Catch basins and manholes must be

removed from the ground.

- 14.) All new sanitary and storm lateral connections into the combined sewers and all sanitary and storm lateral disconnections must be witnessed and inspected by JCMUA inspectors. **JCMUA must be notified two days in advance prior to making any sanitary and storm lateral connections or disconnections.** All notifications must be done by certified mail: JCMUA Engineering, 555 Route 440 Jersey City, New Jersey 07305 or email: engineering@jcmua.com.
- 15.) Bedding and backfill material shall comply with the requirements of the NJDOT's Standard Specification for Road and Bridge Construction, and the Design and Construction of Urban Stormwater Management Systems, ASCE Manuals and Reports of Engineering Practice No. 77, 1993, as applicable.
- 16.) Street Pavement must restore and InfraRed as per Jersey City Division of Engineering, Traffic and Transportation requirements.
- 17.) All proposed inlets/catch basins must be constructed with a bicycle safe grate and Campbell Foundry Co. Type "N" curb piece where required.
- 18.) Proposed water services require the review and approval of the JCMUA Engineering Department.
- 19.) The contractor is responsible for obtaining permits for street openings from the Jersey City Division of Engineering, Traffic and Transportation located at 13-15 East Linden Ave, Jersey City, NJ and all other applicable permits from agencies having jurisdiction.

The system designer is also responsible for compliance with the applicable regulations of the New Jersey Administrative Code, NJDEP Rules and Regulations Governing treatment Works Approval Program, local codes and ordinances, federal and state regulations etc. in addition to other requirements that may be imposed by the JCMUA.

12/26/18

JCMUA - SEWER LATERAL ABANDONMENT DETAIL

