

# Plumbing Systems

## *Alteration Type 2 Applications*



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## PLUMBING SYSTEMS

### Application Work Type (ALT2)

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Plumbing work as part of an Alteration Type 2 (ALT2) application includes new additions, maintenance, repair, modification, extension or alteration of waste, domestic water, sprinkler off the domestic water service (30 or less sprinkler heads), gas, or standpipe (not connected to a sprinkler) in any building or piping system. New plumbing systems and limited alterations are not addressed in this Code Note.

#### New York City Administrative Code and Building Code

The NYC Administrative Code (AC) and NYC Building Code (BC) outline the required components that need to be shown on the plans for review and approval. Construction documents per AC 28-104 shall provide information on the following major subsystems as applicable:

- Potable water piping, devices and meters
- Wastewater and sanitary drainage
- Gas work piping, devices and meters
- Storm water and drywell
- Sprinkler off domestic (30 or less sprinkler heads) and standpipe (when no sprinkler heads are attached)

Additional Code requirements are also outlined in the NYC Construction Codes, i.e. the NYC Plumbing Code, Fuel Gas Code, and Mechanical Code.

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### New York City Fire Code

The New York City Fire Code (FC) governs the operation and maintenance of any fire extinguishing device, equipment or system, including sprinklers and standpipes.

*This publication is a general overview of the requirements for this type of work. There may be additional, applicable Zoning Resolution, Construction Code, Multiple Dwelling Law or Energy Code requirements.*

### FIRST STEPS

- Review PW1 to verify scope of work
- Zoning district, site designations (special purpose districts, waterfront area or block, flood hazard area, fire district, landmark district, little 'e' DEP designated block, wetlands, 200' within MTA infrastructure)
- Lot diagram (dimensions of lot, building, yards, distance to corner street intersection, street names, zoning use group, building occupancy group, construction classification)
- Construction code determination (CCD1), if necessary

### ADMINISTRATIVE

#### DOB Forms

- [PW1](#) – Plan/Work Approval Application
- [PW1B](#) – Scope of plumbing work
- [TR1](#) – Indicates sprinkler systems, fire-resistant penetrations/joints, and applicable special inspections
- [HPD1](#) – Anti-Harassment checklist, if applicable
- [HPD2](#) – Clinton Special District Anti-Harassment checklist, if applicable

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- [HPD3](#) – SRO MD Anti-Harassment checklist, if applicable

### Technical Documents (where applicable)

- Restrictive declaration
- ACP5 Asbestos Report
- House Connection: approval from NYC Department of Environmental Protection for house connection proposal
- Site connection: Approval from NYC Department of Environmental Protection for all other connection proposals (other than house)
- Tenant/Occupant Protection Plan, if required by [§28-104.8.4](#) and/or [BC 3303.10](#)

### Related Applications

- Sprinkler and/or Standpipe application

### BIS Required Items

- Check current Department memos and service notices

### ZONING

- N/A

### MULTIPLE DWELLING LAW

- N/A

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### BUILDING CODE

#### Applicability

- Additions, alterations or modifications to plumbing systems shall conform to what is required for new portions without requiring the remaining existing system to comply with all of the current code requirements. Additions, alterations or repairs must not cause an existing installation to become unsafe, hazardous or overloaded – [§ 28-101.4.3](#)

#### General Requirements

- Number of water sources
- Backflow preventer for new domestic water service
- Required plumbing fixture count – PC [Table 403.1](#), unless per [PC 102.4](#)
- Locations of gas piping and gas appliances – [FGC 303](#), unless per [FGC 102.4](#)
- Schedule of piping and fixtures, seismic compliance, storm water compliance, riser diagrams, complete description of proposed scope of work – [PC 106](#)
- Penetrations of fire rated assemblies – [BC 713](#) and [FGC 404](#)
- A list of all required Special / Progress Inspections on plans – [BC Chapter 17](#)

#### Gas Work

- Any replacement of commercial boilers, or boilers in R-2 buildings with 6 families or more shall be permitted – [AC 28-105.4.4, Item 5](#)

#### Storm Water and Drywell

- Storm Water Drainage / Drywell systems – [PC 1114](#)

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### Sprinkler System

- Reference standards, as modified by Appendix Q – [BC 901.1.1](#)
- Backflow preventer for new sprinkler service – [BC 912.5](#)
- 20 sprinkler head limit for off domestic service – [BC 903.3.5.1.1](#)
- Location of incoming service, curb box valve, sprinkler alarm, floor control valves, inspector test tee – [BC 903.1.2](#)
- Hydrant Flow Test Letter from DEP – [BC 903.1.2, Item 5](#)
- Hydraulic calculations when not using prescribed values – [BC 903.1.2](#)
- Sizes for riser and branch piping – [BC 903.1.2](#)
- Sprinkler head spacing – [BC 903.1.2](#)

### Water Recycling Systems

- Use of treated effluent and collected rainwater for uses including flushing water closets, cooling tower makeup, and irrigation systems – [Appendix C](#)

## ENERGY CODE

- See [Code Notes](#) Energy Code

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### APPLICABLE BULLETINS, DIRECTIVES, PPNS, MEMOS

- [Buildings Bulletin 2009-007](#) – Additional fire suppression requirements
- [Buildings Bulletin 2011-010](#) – Three fixture bathroom in cellar
- [Buildings Bulletin 2013-006](#) – Fuel gas distribution in existing buildings
- [Buildings Bulletin 2015-008](#) – Restrictive declarations

### OTHER AGENCY APPROVALS CODE

- NYC Fire Department (FDNY): Letter of No Objection, variance where Fire Code provisions not met
- Department of Environmental Protection (DEP): Tap letter, meter permit and HCPSEP
- Office of Environmental Remediation approval for tax lots with (E) designation or an environmental restrictive declaration (RD)
- Department of Housing Preservation and Development (HPD) – Certification of No Harassment, if applicable
- Department of Transportation (DOT) – Sidewalk Construction Permit, Revocable Consent, if applicable