



Minnesota Department of Labor and Industry
Construction Codes and Licensing Division
Plumbing and Engineering Unit
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PLUMBING PLAN REVIEW REQUIREMENTS

Below is a list of requirements necessary to complete a review of plumbing systems in public buildings. Please read the following carefully to ensure you provide all required information to **minimize delays** in the plan review process. Plumbing plan review applications and more information regarding the plan review process may be found at www.dli.mn.gov or you may call (651) 284-5067 for a recorded message regarding the current plan review turnaround time.

For New Construction:

- 1. Utility Site Plan:** The utility plan must show the locations, sizes, and slopes of all sanitary sewer, all storm sewer, and water service piping within the property lines. If wells or sewage treatment systems will be located on the property, they must be shown on the plan so that proper isolation distances can be verified. The utility plan must indicate the pipe materials to be used for each service unless otherwise listed in the specifications. The plan must include a directional reference.
- 2. Floor Plan:** The floor plan must show the locations of all plumbing fixtures. The sizes and locations of all horizontal sanitary and storm piping must be shown on the plan.
- 3. Water Riser Diagram:** The drawing must show an isometric view of the water distribution piping from the water service entrance to the connection to all plumbing fixtures and equipment. The plumbing fixtures, equipment connected to the water distribution system, and all pipe sizes must be clearly labeled on the drawing.
- 4. Waste and Vent Riser Diagram:** The drawing must show an isometric view of the waste and vent piping within the building. All pipe sizes and fixtures must be clearly labeled on the drawing.
- 5. Material Specifications:** A list of fixtures, materials, and procedures must be provided which includes the following:
 - a. A list of the fixtures and appurtenances that are connected to the potable water distribution system or that discharge to the sanitary waste system. The list must include manufacturer and model number of each plumbing fixture or appurtenance.
 - b. The type and quality standard (e.g. ASTM, ANSI, etc.) of the pipe materials to be used in the plumbing system, including the type of joints.
 - c. The pressure testing and disinfection procedures.
- 6. Roof Plan:** A roof plan must be provided *if roof drains will be installed that are piped inside the building*. If no internally piped roof drains will be installed, a roof plan is not necessary for plan review. A statement should be included that the roof is pitched and the building is served by scuppers.
- 7. Signature:** All plumbing plans that are submitted to DLI for projects located in cities which have a population over 5,000 must be signed by a master plumber or a registered engineer. Plumbing plans that are submitted to DLI in cities which have a population under 5,000 must be signed by a master plumber, a restricted master plumber, or a professional engineer who is registered in the State of Minnesota.

For Building Additions and/or Remodeling:

- 1. Utility Site Plan:** A utility plan must be provided *if water service, sanitary sewer service, or storm water service piping will be altered, added, or replaced*. The utility plan must show the locations, sizes, and slopes of new sanitary sewers, all new storm sewers, and all new water service piping within the property lines. If wells or sewage treatment systems will be located on the property, they must be shown on the plan so that proper isolation distances can be verified. The utility plan must also indicate the pipe materials to be used for each service unless otherwise listed in the specifications. The plan must include a directional reference.
- 2. Floor Plan:** The floor plan must show the locations of all new plumbing fixtures. The sizes and locations of all new horizontal sanitary or storm piping must also be shown. The sizes of the existing pipe must be shown where the new connections are planned so that adequate size of the existing system can be verified.
- 3. Water Riser Diagram:** The drawing must show all new water distribution piping connecting to all new plumbing fixtures and equipment, including all pipe sizes. The sizes of the existing piping must be shown where the new connections are planned so that adequate size of the existing system can be verified.
- 4. Waste and Vent Riser Diagram:** The drawing must show all new waste and vent piping within the building. All pipe sizes and fixtures must be clearly labeled on the drawing. The sizes of the existing piping must be shown where the new connections are planned so that adequate size of the existing system can be verified.
- 5. Material Specifications:** A list of fixtures, materials, and procedures must be provided which includes the following:
 - a. A schedule of the fixtures and appurtenances that are connected to the potable water distribution system or that discharge to the sanitary waste system. This must include manufacturer and model number of each plumbing fixture or appurtenance.
 - b. The type and quality standard (e.g. ASTM, ANSI, etc.) of the pipe materials to be used in the plumbing system, including the type of joints.
 - c. The pressure testing and disinfection procedures.
- 6. Roof Plan:** A roof plan must be provided *if new roof drains or leaders will be installed that are piped inside the building*. If no new internally piped roof drains will be installed, a roof plan is not necessary for plan review. A statement should be included that the roof is pitched and the building is served by scuppers.
- 7. Signature:** All plumbing plans that are submitted to DLI for projects located in cities which have a population over 5,000 must be signed by a master plumber or a registered engineer. Plumbing plans that are submitted to DLI in cities which have a population under 5,000 must be signed by a master plumber, a restricted master plumber, or a professional engineer who is registered in the State of Minnesota.

Note: Submitting plans to the Minnesota Department of Labor and Industry for review does not authorize the installation of any portion of the plumbing system until the plans have been approved (see Minnesota Rules, part 4715.3130). If significant errors are found in the drawings and specifications during the review process or required information is missing, the designer may be required to submit revised plans, which incorporate any necessary changes and/or information before the plans will be approved. Anyone installing plumbing prior to plan approval may be subject to a fine of up to \$10,000 or revocation of the plumbing license, or both.