



TOWNSHIP OF HILLSBOROUGH

Building Department **COUNTY OF SOMERSET**

Hillsborough Township Municipal Complex
The Peter J. Biondi Building
379 South Branch Road
Hillsborough, NJ 08844

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Designer information for permit applications and plan review for new commercial projects.

PLUMBING

CODES:

Current edition of The National Standard Plumbing Code
Current edition of The International Fuel Gas Code
Current edition of The International Energy Code
Current edition of The International Mechanical Code
Current edition of The ICC A117.1

BUILDING IDENTIFICATION:

The use group.
Building class type.
The volume of the structure.
Construction type.
Occupancy load.
Number of Female occupants.
Number of Male occupants.

PLANS:

Submit two signed and sealed sets of completed plans from a NJ registered architect or a NJ licensed engineer.

Submit two signed and sealed sets of completed site plans from a NJ registered architect or a NJ licensed engineer.

Submit two copies of spec sheets for all plumbing fixtures, faucets, apparatus and gas appliances.

PLUMBING SUBCODE TECHNICAL CARDS:

Submit a plumbing subcode technical card signed and sealed by a NJ licensed Master Plumber.

Provide detailed description of work to be provided.

Provide estimated cost of plumbing work (must include labor and materials).

Provide a complete count of all plumbing fixtures.

Provide proposed sewer line and water service information.

Provide complete plumber and owner information.

UNDER SLAB PLUMBING:

Show all sanitary and storm drainage lines, indicating pipe size(s), slope and materials used.

Indicate point of discharge for storm drainage systems.

Show details of under slab domestic water, including pipe size(s), and materials.

PLUMBING:

Waste and Vent Riser Diagram - Isometric

Show all pipe sizes and label all connected loads, fixtures, drains, vent lines.

Show traps and all required cleanouts.

Show any on site waste treatment (oil separator, grease interceptors, acid waste tanks, etc).

State type of pipe to be used (PVC, cast iron, etc).

Show one entire riser so the reviewer can determine how all piping interconnects. Do not show several partial risers and expect our reviewer to figure out how they go together. Show the connection point to the existing system.

Supply Risers - Isometric

Show all supply piping

Show type of pipe (copper, CPVC, PEX, etc).

Show all full open valves and shut off valves.

Show sizes for all piping.

Identify all connected devices and fixtures.

Show all backflow prevention devices.
Show everything on one riser. Do not show several partial risers and expect our reviewer to figure out how they go together. Show the connection point to the existing system.
Show any required thermal expansion devices.
Show water heater if new and where the drains for the T&P relief valve and drain pan discharge.
Show incoming water supply pressure and size calculations.

Floor Plans

Show fixture locations.
Show piping layouts for waste, vent and water piping.
Show locations of water and vent stacks in the walls.
Indicate any locations where non-metallic pipe will be installed in a plenum or return air ceiling.
Make sure all spaces and rooms are labeled as to their use.
Provide a plumbing fixture schedule.

Accessible Facilities

Show dimensions on all accessible rooms - dimensions for lavatories, tubs, showers, water closets, and sinks. Show dimensions off walls, in front of water closets and between fixtures.
Indicate which fixtures are accessible.
Indicate mounting height for lavatories, water fountains, wall mounted water closets.
Show locations and lengths of horizontal and vertical grab bars at water closets.
Show the door swing of the toilet compartments and restroom doors.
Show required clear floor space at accessible fixtures.

Site Plans-domestic water and sanitary sewer

Show outline of building
Show water service lines (pipe sizes and type of pipe and standards).
Show locations of all thrust blocks.
Show the size of the water meter.
Show the depth of the water service pipe.
Show sanitary sewer lines (pipe sizes, type of pipe and the pipe standard).
Show the % of the slope and drainage fixture unit calculations for each section of the sanitary sewer.
Show any manhole locations and how the piping will connect to the manholes.
Show any outside backflow prevention devices.

Show the location and sizes of the external grease interceptors or oil separators and the sizing calculations.

Site Work - domestic water

Show all of the calculations used to size the water service and distribution piping. This should include the following:

- The pressure at the water main in street
- The pressure drop through water meter
- The pressure drop through backflow prevention devices
- The pressure drop due to static head
- The pressure drop due to pipe friction
- Provide the flow in gallons per minute
- Provide the water pressure at the entrance to the building.
- Provide total water supply fixture units.
- Provide sizes and types of pipe.
- Provide the maximum pressure required at the farthest fixture.

GAS PIPE

Gas Riser

- Show all pipe sizes and types of pipe.
- Show the type of gas (natural or propane).
- Show lengths of all pipe including vertical runs.
- Show all loads in BTU's.
- Show gas pressure (low, two or five pound) on customer's side of meter.
- Show location of shutoff valves and pressure regulators.
- Show the type of pressure regulators to be used and the venting of the pressure regulators.
- Show one entire riser; do not show typical risers for various parts of the building. All risers must be connected as they will be installed.
- If connecting to an existing system, the entire system (pipes sizes, footages, and the total BTU load) must be shown.
- For propane, show location of tanks and pipe sizes from the tank to the building, and location of regulators.
- For propane show layout including dimensions to windows, opening in the building, sources of combustion and property lines.