

PLUMBING INSPECTION MATRIX

Residential Project ¹

Inspection Code	Inspection Type	When an inspection is required ⁶	What is being inspected	Residential Project ¹												
				House	Townhouse	Addition	Garage	Carport	Deck/Porch ³	Screened Porch ³	Sunroom ³	Shed	Finishing Attic/Basement	In-ground Pool & Enclosure ⁸	Above-ground pool & Enclosure ⁸	
305	Water Service ^{2,7}	Before ditch is backfilled	Water line from meter to building for proper depth of burial, approved piping materials and fittings, tracer wire	●	●		▲						▲		▲	▲
306	Bored Service ^{3, 4, 7}	Before connection at meter is backfilled	Water line connection at meter, approved piping material, tracer wire burial depth marked on ground	●	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	▲
307	Backflow ^{3, 7}	Before ditch is backfilled, before Hot Box is installed, after vent drain is completed	Water line from backflow to connection/meter, type of backflow, location, vent drain to exterior if in crawlspace, working street pressure for test	▲	▲	▲	▲									
310	Sewer Service ^{2, 7}	Before ditch is backfilled	Connection of the building drain to the sewer for proper bedding, approved piping materials and fittings, tracer wire, proper fall and slope	●	●	●	●	▲	▲	▲	▲	▲	●	▲	▲	▲
315	Groundwork ²	Prior to covering any underground piping	All underground plumbing, other than water and sewer service lines. All underground piping must be tested for leaks during the inspection.	▲	▲	▲	▲	▲					▲	▲	▲	▲
320	Gas Piping Rough-in ^{1, 2, 4, 6}	Prior to concealment by insulating, walls, floors or ceilings, prior to Earth backfill for below grade piping	Location, type of piping, size, installation and pressure test for all gas pipes, depth of piping, tracer wire for plastic piping	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
325	Plumbing Rough-in ³	Prior to concealment by insulation, walls floors or ceilings	Water, drain and vent piping for proper sizing, fitting, piping materials and location. All distribution piping to be pressure tested for leaks, All vents installed and extending through roof. Roof collars installed, pipe protection, water test on waste piping	●	●	●	▲							●	▲	▲
330	Gas Piping Final ^{1, 5, 6, 7}	Prior to plumbing final and building final, after equipment is placed into service and is operational. Equipment installation instructions onsite.	All gas appliances and equipment installed, connected and operational. All vent and flue connectors installed. Gas meter installed and protected, if necessary. All gas piping on exterior of building that are not galvanized or copper must be corrosion protected (painted). All copper gas pipes to be marked. Shut off valve location, bonding/CSST	●	●	●	▲		▲	▲	▲			▲	▲	▲
390	Final Plumbing ⁷	Prior to final building inspection, after hot water is present and water meter is set. All fixtures are set and in working order.	All plumbing fixtures installed and properly working, all hot/cold water faucets operational, all drains installed and connected, Sip cap installed	●	●	●	●					●	▲	●	▲	▲
395	Other Plumbing Inspection ⁷	Prior to concealment by insulation, walls floors or ceilings. Unique fixtures, water features, outdoor showers, etc	Miscellaneous plumbing installations including backflow preventors for lawn irrigation systems. See backflow.	▲	▲	▲	▲								▲	▲

● Required Inspection ▲ Inspection may be required. Obtain clarification on required inspections from inspector at initial inspection.

Revised October 25, 2023 Complies to 2018 VRC

To schedule, reschedule or cancel an inspection go to the "Inspections" tab in your customer portal at [Henrico.us/build](https://henrico.us/build) or by calling the Automated Phone System at (804) 501-7770.

See footnotes on next page.

The Permits Listed Below May Also Be Required

Building	A separate Building Permit and Inspections are required for new construction or demolition of a building or structure, installations or alterations involving the removal or addition of any wall, partition or portion thereof, any structural component, the repair or replacement of any component of a fire or smoke rated assembly, the alteration of any required means of egress system, the removal or disturbing of any asbestos containing materials during the construction or demolition of a building or structure, including additions.
Mechanical	A separate Mechanical Permit and Inspections are required for new construction. Additions or alterations in a mechanical/gas piping system also require permits and inspections. Examples of work that require permits, but not limited too are: addition of duct runs for additions, finishing attic room, adding bathroom exhaust fan. <u>All gas appliances whether new or replaced require permits and inspections, see footnotes #1 and #6.</u>
Electrical	A separate Electrical Permit and Inspections are required when installing electrical fixtures/equipment.

Footnotes:

- ¹ Permit Applicant may obtain either a mechanical permit or a plumbing permit to install gas piping or appliances, depending on DPOR credentials of permit applicant (Homeowner exempt with restrictions)
- ² Spot backfilling is not allowed. Inspection on the entire length of installed piping is required. If unique situations exist call the inspector to discuss situation (does not apply to bored water service)
- ³ Working pressure of system for addition and backflow may be adequate for pressure test on new piping in additions, new construction 80 psi minimum is required, or hydrostatic test
- ⁴ Pressure test is required on all new piping. Test is to be on a 30 psi gauge with a test pressure of 15 psi minimum (half the face of the gauge).
- ⁵ Inspection can be done at the same time as the final plumbing. Final plumbing takes precedence. Exception: New gas fireplace needs rough-in prior to concealment for final.
- ⁶ All gas appliances new or replacement require permits and inspections.
- ⁷ A Final Plumbing Inspection is required on all Plumbing permits, and is needed prior to the Final Building Inspection. Completing the Inspections in this order will close out the Plumbing Permit.
- ⁸ Water supply feeding pools is inspected with backflow protection. Return, supply, and other piping is to be per code.

For questions regarding Inspections call (804) 501-4360. This inspection matrix is intended as a general guideline and may not be all inclusive. Other trades and County Agency's approvals issuance of the Certificate of Occupancy.

DPOR = Department of Professional and Occupational Regulation. It is an agency in Virginia that issues professional licenses, certificates, or registrations to those qualified to practice in regulated professions.