

REQUIRED INSPECTIONS

The approved set of drawings from the building department must be kept on site for review during inspections until issuance of the Certificate of Occupancy. Work shall remain accessible and exposed for inspection purposes until written approval has been issued. Any portion of work that doesn't comply shall be corrected, and such portion shall not be covered or concealed until such work has been approved by the Building Official. It shall be the duty of the permit holder to notify the Building Department that such work is ready for inspection. It shall also be the duty of permit holder to ascertain the results of required inspections before continuance of work. Inspections requests require a minimum of 48 hours' notice.

PRELIMINARY ON SITE INSPECTIONS:

- ☐ **Preliminary Review** - Inspection of structure and site prior to issuance of building permit.

RADON MITIGATION PREPATION (New Construction): (To comply with all regulations of Appendix F of the 2016 CT State Building Code)

- ☐ **Soil Gas Retarder** - Inspection verifying installation of 6 mil poly, installed with 6" sealed joints laps, prior to concrete being poured.
- ☐ **T-Fitting, Vent Pipe, Gas Permeable Layer** – Inspection verifying installation of 3" T fitting, gas tight piping, and permeable layer.
- ☐ **Combination Foundations** – Inspection verifying separate vent pipes for each foundation section separated by footings.
- ☐ **Floor Openings** – Inspection verifying all openings in concrete slab have been filled with approved sealant.
- ☐ **Sumps** – Inspection verifying installed sump has a gasket or sealed lid.
- ☐ **Waterproofing** – Inspection verifying foundation walls below grade have been waterproofed.
- ☐ **Power Source & Access for future Radon Fan** – Inspection verifying installation of ¾" conduit & access.
- ☐ **Labeling** – Inspection verifying labeling of electrical conduit and radon pipe.

FOUNDATION INSPECTIONS:

- ☐ **Piers** – Inspection verifying that the diameter and depth are code compliant, after form placement, prior to concrete being poured.
- ☐ **Footings** – Inspection verifying that the width and depth are code compliant, after form placement, prior to concrete being poured.
- ☐ **Portal Frame Hold Down Anchors** – Inspection verifying installation of code compliant portal frame hold down anchors, prior to concrete being poured.
- ☐ **Walls** – Inspection verifying code compliant installation of rebar, after form placement, prior to concrete being poured.
- ☐ **Waterproofing/Footing Drains/Anchor bolts** – Inspection verifying code compliant installation prior to backfilling.

CONCRETE FLOORS:

- ☐ **Vapor Retarder** – Inspection verifying code compliant installation of 6 mil poly, installed with 6" joints laps, prior to concrete being poured.
- ☐ **Reinforcement Support** – (if applicable) Inspection verifying code compliant installation of rebar, prior to concrete being poured.
- ☐ **Under floor inspection** – Inspection of conduit, piping, service equipment, and ancillary equipment, prior to concealment.

FLOOD PLAIN ELEVATION DOCUMENTATION:

- ☐ **As-Built Elevation** – Submittal by a registered design professional documenting the as-built elevation of the lowest floor, prior to further construction.

ELECTRICAL INSPECTIONS: (E-1 required on site for all electrical inspections)

- ☐ **Rough** – Inspection verifying the code compliant installation of all boxes, panels, wiring and associated fire proofing, prior to concealment.
- ☐ **Underground Conduit** – Inspection verifying code compliant depth of conduit, after trenches are excavated and bedded, before backfilling.
- ☐ **Temporary Services** - Inspection verifying compliant installation, clearance heights, and bonding/grounding, prior to activation.
- ☐ **Final** – Inspection verifying that final installation of all components meet 2011 NFPA 70 requirements.

HOOD INSPECTIONS:

FIRE ALARMS / SMOKE ALARM INSPECTIONS:

GAS PIPING INSPECTIONS:

- ☐ **Rough** - Inspection verifying code compliant installation of all gas piping, joints, & shut- off valves, prior to concealment.
- ☐ **Underground Piping** - Inspection verifying code compliant depth of conduit, after trenches are excavated and bedded, before backfilling.
- ☐ **CSST Pipe** - (if applicable) Inspection verifying all CSST gas piping has been installed and bonded according to NFPA 54 requirements.
- ☐ **Pressure Test** - Inspection verifying test pressure = 1.5 x maximum pressure or 3 psig. Test duration not less than 10 minutes.

PLUMBING INSPECTIONS: (Gauges used for testing <10 psi shall have increments of .10 psi, >10 psi but <100 psi shall have increments of 1 psi)

- ☐ **Building Sewer Testing** – Shall be tested after completion of piping by water, with not less than 10' of head, for a period of 15 minutes.
- ☐ **DMV System Testing** – Shall be tested after completion of piping by water, filled to a point 10' above the highest fitting, for a period of 10 minutes.
- ☐ **Water Supply System Testing** – Shall be tested and proved tight under pressure by an air test of 50 psi for a period of 15 minutes.
- ☐ **Shower Liner Test** – Shall be tested by plugging and filling pan with 2" of potable water, for a period of 15 minutes.
- ☐ **Backflow Prevention Device Inspection** – Inspections shall be made of all backflow prevention assemblies to determine whether they are operable.
- ☐ **Hydronic Piping Test** – Hydronic piping shall be tested hydrostatically at 100 psi, for a period of 15 minutes.
- ☐ **Finished Plumbing** – Visual inspection of trap connections after fixtures have been set and traps filled. Each fixtures shall be filled and then drained.

MECHANICAL INSPECTIONS:

- ☐ **Rough Inspection** - Inspection of systems equipment prior to concealment before fixtures or appliances are set or installed.
- ☐ **Mechanical System piping and duct insulation** – Inspection verifying code compliant insulation has been installed.
- ☐ **Duct Rough-in Test** – (unless entirely within thermal envelope) Submittal of compliant test meeting the requirements of IRC N1103.2.2
- ☐ **Mechanical Ventilation (New Construction)** – Inspection of whole- house mechanical ventilation in accordance with M1507.3
- ☐ **Final Inspection**- Inspection verifying code compliant installation of equipment. (Manufacturer's installation instructions shall remain attached to appliance)

CHIMNEY INSPECTIONS:

- ☐ **Hearth Inspection** – Inspection of rebar placement, prior to concrete being poured.
- ☐ **Cleanout / Firebox / Damper Inspection** – Inspection of the completed cleanout, firebox, and damper, prior to further construction.
- ☐ **Final Inspection** – Inspection of completed chimney for compliant clearances to combustibles, finished hearth dimensions, and termination height above roof.

FRAMING INSPECTION:

- ☐ **Braced Wall Inspection** – Inspection of braced wall framing and nailing, prior to placement of air barrier.
- ☐ **Rough Inspection** – Inspection of rough framing, fire and draft stopping, after the plumbing, mechanical, and electrical rough inspections, prior to concealment.

FIRE-RESISTANCE-RATED CONSTRUCTION INSPECTION:

- ☐ **Fire rated construction inspection** – Inspection of fire rated construction after wall board is in place, but before joints and fasteners are taped and finished.

ENERGY EFFICIENCY INSPECTION:

- ☐ **Insulation Inspection** – Inspection of building air tightness and insulation, in accordance with IRC N1102.4.2.1 or IECC.
- ☐ **Certificate (New Construction)** – Inspection of permanently installed certificate in electrical panel showing insulation R-values, types and efficiencies of heating and cooling equipment.
- ☐ **Testing (New Construction)** – Submission of test by approved 3rd party verifying air leakage of building doesn’t exceed 3 air changes per hour.

ABOVE CEILING:

- ☐ **Above Ceiling** – Inspection of above ceiling installation of mechanical & electrical equipment, and fire stopping, prior to ceiling pad installation.

ROOFING INSPECTIONS:

- ☐ **Underlayment Inspection** – Inspection verifying code compliant installation of ice and water barrier at eave and plywood joints, underlayment, and related flashing.
- ☐ **Final Inspection** – Inspection of completed roofing installation.

DECK INSPECTIONS:

- ☐ **Pier Inspection** – Inspection confirming code compliant diameter, depth, and spacing of all piers, prior to concrete being poured.
- ☐ **Rough Framing** – Inspection of rough framing confirming ledger flashing and attachment, lateral load connectors, and uplift connections.
- ☐ **Final Inspection** – Final inspection of finished deck to ensure code compliancy of stairs, guard and hand rails.

SWIMMING POOLS:

- ☐ **Pool Temporary Fence Inspection** – Inspection of temporary construction fence prior to excavation of in-ground pool hole.
- ☐ **Pool Rebar Inspection** – Inspection of rebar for in-ground pools, prior to concrete being poured.
- ☐ **Pool Bonding & Grounding Inspection** – Inspection of all associated bonding & grounding, prior to pouring concrete.
- ☐ **Pool Barrier Inspection** – Inspection of code compliant gate and fence installation.
- ☐ **Pool Alarm Inspection** – Inspection and testing of code compliant pool alarm.

SOLAR PV SYSTEM INSPECTIONS: *(E-1 required on site for all electrical inspection)*

- ☐ **Structural Reinforcement** - (if applicable) Inspection verifying work meets engineer’s specs before panels are installed on roof.
- ☐ **Roof Bonding** – Submittal of photos verifying all roof bonding, prior to scheduling final.
- ☐ **PV Panel Mounts** – Submittal of photos verifying panel mount installation & bonding, before panel installation, prior to scheduling final.
- ☐ **Final** – Final inspection verifying all installed components meet the requirements of NFPA 70, 2014 edition.

SPECIAL INSPECTIONS:

- ☐ **Approval Agency** – Submittal and approval of proposed inspection agent’s credentials by Building Official prior to start of work.
- ☐ **Test and Inspection Records** – Submittal of special inspector’s records shall be submitted for review, prior to final approval.

OTHER INSPECTIONS:

- ☐ **Other Inspection** – Other Inspections, as deemed necessary by the Building Official.

CERTIFICATE OF OCCUPANCY/APPROVAL:

- ☐ **C of O Inspection** – Inspection of completed permitted work of a new habitable space and issuance of Certificate of Occupancy.
- ☐ **C of A Inspection** – Inspection of all other completed permitted work and issuance of Certificate of Approval.