**INFORMATION REQUIRED ON CONSTRUCTION DOCUMENTS**

To receive a building permit, the following information is required to be contained within construction documents.

**ENERGY CODE COMPLIANCE PATH**

One of the following energy code compliance paths indicated clearly on the plans

2020 ECCCNYS

Prescriptive

Prescriptive with envelope tradeoffs – Supply RES*check* or other approved Uoverall calculations

Simulated Performance Alternative – Supply IECC Energy Cost Report

Energy Rating Index Alternative – Supply Preliminary ERI Report and Energy Code Checklist

**BUILDING THERMAL ENVELOPE**

Continuous building thermal envelope depiction

Typical cross-sections for each unique assembly type including callouts for:

Insulation R-values, materials, and installed thickness

Fenestration U-factors and solar heat gain coefficients (SHGCs)

Primary air barrier method, materials, and location

Construction details for the following, if included in the scope of the project

Slab on grade with insulation extending downward from the top of the slab

Insulated corners: Framing allows space for insulation

Insulated headers: Insulation installed in headers as space allows

Fireplaces on exterior walls: Air barrier between insulation and fireplace insert

Dropped ceiling/soffit: Air barrier aligned with insulation

Porch roofs: Exterior wall sheathing extends behind intersection with porch roof

Skylight shafts: Shaft walls are insulated and include attic-side air barriers

Showers/tubs on exterior walls: Air barrier located between wall insulation and the shower/tub

Knee walls: Air barrier on attic side of knee wall, top plate installed, blocking between floor joists under knee wall

Blocking between joists above walls separating garages from conditioned space

Cantilevered floors: Insulated with solid air barriers underneath insulation and blocking between joists

Attic access hatches: Weatherstripped and insulated to the same R-value as the surrounding surface

Notes indicate that insulation is to be installed per manufacturer’s installation instructions or RESNET Grade I

**HEATING AND COOLING SYSTEMS**

**Thermostats**

Thermostat type and location

**Ducts and Air Handler**

Duct and air handler locations

Notes or drawings specify insulation R-values for ducts in unconditioned spaces

Note indicating that HVAC contractor will seal ducts to 4.0 cfm/100 ft2 conditioned floor area with UL 181 products appropriate for the duct material type. (Testing not required if all ducts are located completely within conditioned space.)

Furnace and air conditioner or heat pump specifications

**HVAC Design Worksheet**

Completed ***Heating and Cooling Equipment Worksheet*** (page 1)

Completed ***Whole-house Mechanical Ventilation Worksheet*** (page 2)

**HVAC Piping**

Notes or drawings indicate HVAC pipe insulation R-values (e.g. hydronic systems, refrigerant lines)

Notes or drawings indicate HVAC pipe insulation protection for pipes/insulation located outdoors (e.g. refrigerant lines)

**SERVICE HOT WATER PIPING**

Hot water pipe insulation R-value for pipes meeting any *one* of the following conditions

≥ ¾” nominal diameter

Located outside conditioned space

Between the water heater and a manifold

Underground or in a slab

Serving more than one dwelling unit

Supply and return piping in recirculating hot water systems other than demand recirculating systems

**LIGHTING**

Lighting schedule or notes indicating percentage of high-efficacy lighting