

## HVAC Contractor Checklist

As a contractor on this project, you are expected to implement mandatory and project selected optional best practices identified in the [Iowa Green Streets Criteria](#). Here are some of the key strategies and best practices expected to be implemented in this project. These strategies may not be all inclusive for this project as strategies are dependent on project design. As the HVAC contractor you should also familiarize yourself with the best practices checklists for all other trades including electrical, plumbing, site, HERS Rater, and general contractor. See sections 5 and 7 and Appendix M of the [Iowa Green Streets Criteria](#) for full details.

- Sizing (5.6):** Complete Manuals J, S & D and properly size HVAC system.
- Quality Installation (5.1):** Implement and Complete ENERGY STAR Certified Homes National HVAC [Commissioning Checklist](#) and provide to HERS Rater.
- Verification (5.1a – 5.1d):** Work with provided third-party HERS Rater to achieve required HERS Index including HVAC system verification testing.
- Heating (5.1):** Natural Gas Furnace  $\geq 96$  AFUE, Boiler  $\geq 90$  AFUE, ASHP  $\geq 9$  HSPF, GSHP  $\geq 4$  COP.
- Air Conditioning (5.1):** Forced Air  $\geq$  SEER16/EER 13, ASHP  $\geq 9$  HSPF, MSHP  $\geq$  SEER15/EER 12.5
- Geothermal Heat Pump (5.1):**  $\geq 18$  EER, 4 COP
- Ductwork and Joints (5.1):** Seal all with mastic, for unconditioned spaces duct leakage tests  $\leq 4\%$
- Thermostat (5.1):** Install a programmable communicating thermostat (Smart Thermostat). Place thermostats at 48" maximum height (**Appendix M**).
- Combustion Equipment (7.3):** Specify power-vented or direct vent equipment. No combustion equipment may be used for cooking, including but not limited to ranges, cooktops, stoves, ovens.
- Ventilation (7.7):** Meet ASHRAE 62.2-2010. Install balanced ventilation system. Vent bathrooms and kitchens separately.
- Dehumidification (7.8):** Design, select, and install supplemental dehumidification equipment to keep relative humidity  $< 60\%$ . **OR** Equip all dwelling units with dedicated space, drain, and electrical hook-ups for permanent supplemental dehumidification systems to be installed if needed. Install interior RH monitoring equipment (e.g., smart thermostats with hygrometers) with alerts and the ability to log humidity levels so that it may be reviewed.

Questions relating to the Green Streets Criteria should be directed to Jeff Geerts, Iowa Economic Development Authority Special Projects Manager, [Jeff.Geerts@iowaeda.com](mailto:Jeff.Geerts@iowaeda.com) or 515.348.6211.

By signing this checklist, I certify I have reviewed the above information and the Iowa Green Streets Criteria and confirm that the project team will incorporate the mandatory criteria into the project.

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Printed Name:

Signature:

Date: