

Notice to Bidding Contractors

This Scope of Work is financed, either partially or fully, with funding from Minnesota Housing who requires the implementation of certain green criteria. These requirements are adopted from the National Green Communities Criteria 2011, as modified by the Minnesota Overlay, and amend the specifications in the attached Scope of Work.

Requirements that need to be followed for this Scope of Work are indicated below. Checked items need to be followed:

☐ **Well Installation** (3.1 Environmental Remediation - Overlay):

If the home is not connected to a city water supply or if there is no existing active well, then a Phase 1 environmental assessment shall be completed prior to installation. All well installations must be completed by Minnesota Department of Health licensed contractors. All required permits must be pulled from the:

Minnesota Department of Health
Well Management Section
P.O. Box 64502
St. Paul, Minnesota 55164-0502
health.wells@state.mn.us
651-201-4600 or 800-383-9808

Identify the qualified (sub)contractor below:

| | | |
|--------------|-----------------|----------------------------------|
| | | |
| Company Name | Contractor Name | Dept of Health License Number |

☐ **Landscaping** (3.4 Landscaping - Overlay):

Landscaping shall ensure that all new trees and plants are at least 50% native species, 100% appropriate to the site's soils and microclimate, and not including invasive species. List the plants to be provided below:

☐ **Irrigation/Sprinkler Systems** (3.5 Efficient Irrigation and Water Reuse- Overlay):

The irrigation system shall be designed by an EPA Water Sense certified professional, qualified landscape professional or qualified sprinkler contractor. Identify the qualified (sub)contractor below:



☐ **Water Fixtures (4.1 Water-Conserving Fixtures):**

All newly installed water fixture shall meet the following requirements:

| | | | |
|-------------|------------------|------------------|-----------------|
| Toilets | 1.28 gpf or less | Kitchen faucets | 2.0 gpm or less |
| Showerheads | 2.0 gpm or less | Bathroom faucets | 1.5 gpm or less |

Indicate the water fixtures to be replaced/installed, their location, and the flow rates to be used:

| | | | |
|----------|-----------|----------|-----------|
| Location | Flow Rate | Location | Flow rate |
| Location | Flow Rate | Location | Flow rate |

☐ **Energy Star Rated Mechanical Systems (5.1c Building Performance Standard - Overlay):**

All newly installed mechanical systems including the boiler, furnace, air conditioner, and water heater shall meet ENERGY STAR requirements. Indicate the **make and model** of the mechanical systems to be installed and their **efficiency** rating:

| Energy Star Rate | Make | Model | Efficiency |
|--|------|-------|------------|
| <input type="checkbox"/> Gas Furnace (90% AFUE or greater): | | | |
| <input type="checkbox"/> Oil Furnace (85% AFUE or greater): | | | |
| <input type="checkbox"/> Boiler (85% AFUE or greater): | | | |
| <input type="checkbox"/> Central Air Conditioner (13 SEER or greater): | | | |
| <input type="checkbox"/> Water Heater Must be Energy Star Rated | | | |

Reference: http://www.energystar.gov/index.cfm?c=products.pr_find_es_products

☐ **HVAC Sizing (5.3 Sizing of Heating and Cooling Equipment):**

All heating and cooling equipment shall be sized in accordance with the Air Conditioning Contractors of America (ACCA) Manuals, Parts J and S, or ASHRAE handbooks.



☐ **Adhesives** (6.2 Low/No VOC Adhesives and Sealants):

All adhesives shall comply with Rule 1168 of the South Coast Air Quality Management District.

| Adhesive Type | Maximum VOC limit (g/L) | Adhesive Type | Maximum VOC limit (g/L) |
|--------------------------|-------------------------|-------------------------------------|-------------------------|
| Indoor carpet adhesives | 50 | VCT and asphalt tile adhesives | 50 |
| Outdoor carpet adhesives | 150 | Drywall and panel adhesives | 50 |
| Carpet pad adhesives | 50 | Ceramic tile adhesives | 65 |
| Wood flooring adhesives | 100 | Multipurpose construction adhesives | 70 |
| Rubber floor adhesives | 60 | Structural glazing adhesives | 100 |
| Subfloor adhesives | 50 | Single-ply roof membrane adhesives | 250 |
| Cove base adhesives | 50 | | |

☐ **Caulks and Sealants** (6.2 Low/No VOC Adhesives and Sealants):

All caulks and sealants shall comply with Regulation 8, Rule 51, of the Bay Area Air Quality management District (BAAQMD)

| Caulk/Sealant type | Maximum VOC limit (g/L) | Caulk/Sealant type | Maximum VOC limit (g/L) |
|--|-------------------------|--|-------------------------|
| Indoor Floor Covering Installation | 150 | Structural Glazing | 100 |
| Multipurpose Construction | 200 | Ceramic Tile Installation | 130 |
| Nonmembrane Roof Installation/Repair | 300 | Cove Base Installation | 150 |
| Outdoor Floor Covering Installation | 250 | Perimeter Bonded Sheet Vinyl Flooring Installation | 660 |
| Single-Ply Roof Material Installation/Repair | 250 | | |

Reference:

<http://www.baaqmd.gov/~media/Files/Planning%20and%20Research/Rules%20and%20Regs/reg%2008/rg0851.ashx>

<http://www.aqmd.gov/rules/reg/reg11/r1168.pdf>



If following these adhesive, caulk, or sealant standards will invalidate a product warranty, please indicate which product’s warranty will be invalidated and attach documentation verifying such:

Invalidate Product Warranty

Invalidate Product Warranty

☐ **Interior Lighting** (5.5a Efficient Lighting: Interior Units):

All interior light fixtures that are being installed or replaced shall be ENERGY STAR-qualified. All existing light fixtures must install screw-in compact fluorescent light bulbs (CFLs).

☐ **Exterior Lighting** (5.5c Efficient Lighting: Interior Units):

All exterior light fixtures that are being installed or replaced shall be an ENERGY STAR CFL or LED with a minimum efficacy of 45 lumens per watt and be equipped with daylight sensors.

☐ **Paints and Primers** (6.1 Low/No VOC Paints and Primers):

All interior paints and primers shall have VOC levels less than or equal to the following based on a combination of the MPI and Green Seal standards:

| | | | | |
|-------------------------|-------|-----------|-------|----------------|
| Paint Type | Flats | Non-flats | Floor | Anti-corrosive |
| Maximum VOC Limit (g/L) | 50 | 50 | 100 | 150 |

☐ **Composite Wood** (7.1 Composite Wood Products that Emit Low/ No Formaldehyde):

All composite wood products (plywood, OSB, MDF, cabinetry) shall be urea and formaldehyde free. If using a composite wood product that is not urea and formaldehyde free, all exposed edges and sides must be sealed with low-VOC sealants as outlined above.

☐ **Flooring** (7.2 Environmentally Preferable Flooring):

Carpet shall not be installed in entryways, laundry rooms, bathrooms, kitchens/kitchenettes, utility rooms, or any rooms of ground-connected floors. Any carpet products used must meet the Carpet and Rug Institute’s Green Label or Green Label. Indicate locations where carpet will be installed:

Location

Location

Location

Location

☐ **Bathroom Exhaust Fans** (7.4a Exhaust Fans: Bathroom):

Bathroom exhaust fans shall be ENERGY STAR rated and exhaust to the outdoors. Bathroom fans shall be either (check one):

- ☐ connected to the same switch as the light, or
- ☐ equipped with a humidistat sensor, or
- ☐ equipped with a timer, or
- ☐ installed to operate continuously.

- ☐ **Kitchen Exhaust Fans** (7.5a Exhaust Fans: Kitchen - Overlay):
Kitchen exhaust fans shall be power vented fans or range hoods that exhaust to the exterior.
- ☐ **Ventilation System** (7.6b Ventilation - Overlay):
Ventilation system shall meet or exceed the requirements of Minnesota Energy Code 1322.
- ☐ **Clothes Dryer Exhaust** (7.7 Clothes Dryer Exhaust):
Clothes dryers must be exhausted directly to the outdoors using rigid-type duct work.
- ☐ **Smoke Alarms and CO Alarms** (7.8 Combustion Equipment & 7.13 Garage Isolation):
CO alarms shall be installed per State Building Code. Smoke alarms shall be installed per State Building Code.
- ☐ **Water Heater** (7.9a Mold Prevention: Water Heaters):
Water heaters shall have adequate drainage that include drains or catch pans with drains piped to the exterior of the dwelling. Water heaters shall be located in rooms with non-water sensitive floor coverings. Drain pans shall be sloped and corrosion resistant (e.g., stainless or plastic) with drains at the low point. Condensate lines should be drained to a drainage system, and not just deposited under slab.
- ☐ **Mold Prevention** (7.9b Mold Prevention: Surfaces & 7.9c Tub and Shower Enclosures):
Materials in bathrooms, kitchens, and laundry rooms shall have durable, cleanable surfaces. For tub and shower enclosures, non-paper-faced backing materials such as cement board, fiber cement board, or an equivalent shall be used in bathrooms.
- ☐ **Pest Management** (7.14 Integrated Pest Management):
Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate non-toxic sealing methods to prevent pest entry. Provide rodent- and corrosion-proof screens (e.g., copper or stainless steel mesh or rigid metal cloth) for openings greater than ¼ inch.
- ☐ **Lead Safe Work Practices**
All contractors, and subcontractors, must follow lead safe work practices as required in pre-1978 homes where paint will be disturbed above de minimis levels and/or performing hazard reduction activity.

I acknowledge, understand, and will follow the above listed requirements, as applicable, in conjunction with the attached Scope of Work.

Contractor Company Name

Completed By

Contractor License Number

Date

