

Appendix A:

SC Housing Critical Home Repair Construction Standards

I. General Requirements

1. Sponsors and Contractors performing renovations that disturb painted surfaces on homes built prior to January 1, 1978 housing must be EPA Renovation, Repair and Painting (RRP) Certified.
 - a. Sponsor must be an RRP- certified firm, see link below:
[Renovation, Repair and Painting Program: Firm Certification | US EPA](#)
 - b. Contractor must be an RRP-certified renovator, see link below:
[Renovation, Repair and Painting Program: Renovator Training | US EPA](#)
 - c. EPA RRP website: [Lead Renovation, Repair and Painting Program | US EPA](#)
2. The Sponsor and Contractor are required to complete a walk-through inspection of the entire home (interior and exterior) and property to make a preliminary determination as to whether the home will be eligible for the SC Housing Critical Home Repair Program prior to submitting the Critical Home Repair Application and/or Work Write Up.
 - a. Sponsors must document their walk-through inspection by submitting photographs as per **Appendix A Section VII., A** of the interior and exterior of the home and property in the Application.
 - b. Contractors must document all proposed and or planned repairs by submitting photographs as per **Appendix A Section VII., B**.
 - c. Sponsors and Contractor must utilize this walk-through inspection to evaluate whether or not it is feasible to complete the Critical Repair deficiency (ices) within the parameters of HTF program budget limitations and if applicable, any additional funding sources that are to be utilized.
 - d. Sponsors and or Contractors that continually submit homes for repair that are found to be out of scope of the program will be considered to be in violation of program requirements.
3. All rehabilitation or repair work funded by SC HTF must meet or exceed current South Carolina Building Code standards, and all local permitting and inspection requirements.
4. In those jurisdictions with an adopted minimum housing code, all repairs completed with SC HTF funds must meet or exceed those local codes, rehabilitation standards, ordinances and zoning ordinances upon completion.
5. Luxury repairs and or replacements are prohibited.
6. No unlicensed person shall work on any project funded by SC HTF.
7. Each page of the Work Write-up must have original signatures and dates from the Sponsor, Contractor(s) and Homeowner.
8. **HTF-1A Beneficiary Certification** must be executed by the Beneficiary (ies) (Homeowner).
9. **HTF-1B Hazardous Materials Affidavit** must be executed by the Beneficiary (ies) (Homeowner).
10. **HTF-1C Hold Harmless Agreement** must be executed by the Beneficiary (ies) (Homeowner).
11. **HTF-2G Notice to Proceed** must be executed by the contractor and returned to SC Housing before work commences.

II. Eligible Repairs

A. Eligible repairs are listed by priority and are limited to the following:

1. Sewer / Septic systems,
2. Water wells,
3. Roof replacements (non-asbestos shingled roofs only),
4. Fascia and Soffits,
5. Gutters,
6. Exterior façade, sidings (non-asbestos siding only),
7. Windows,
8. Exterior Doors/Storm Doors,
9. Accessibility Ramps,
10. HVAC equipment and/or systems (including electrical upgrade if necessary),
11. Attic Insulation,
12. Water Heater,
13. Primary entrance, Porches/Decks,
14. Crawl space access doors,
15. Lithium ten (10) year, battery operated, wireless, interconnected smoke and carbon monoxide detectors can be installed at the beneficiary's request.

B. SC Housing reserve the right to determine final priority of repairs based upon condition of the home and availability of funds.

III. Contract Standards

A. Contract Work Write Up (WWU) HTF-2B Short Form.

1. The Sponsor must enter into a written agreement/contract with its Contractor that specifically acknowledges SC Housing standards to perform rehabilitation work.
2. The Contractor must use SC Housing's WWU form to document repairs to be conducted.
 - a. The WWU must contain complete information and details of the Contractor(s).
 - b. For multi contractor/ trade projects each contractor will execute a separate WWU.
 - c. The WWU must include completed cost and description of materials for each line and a detailed specific scope of work to be completed. WWU's submitted without completed cost, description of materials and or detailed specific scope of work will be rejected/ denied.
 - d. The Work Write-up must have original signatures and dates from the Sponsor, Contractor(s) and Homeowner.
 - e. The Work Write-up (HTF-2B) Short Form is to be submitted as part of the Application.
 - f. SC Housing will not accept a WWU completed by anybody other than the Contractor(s). If it is discovered that someone besides the Contractor(s) is completing the WWU SC Housing may suspend or debar the persons involved.
3. The Contractor(s) must provide all labor and materials and all work must be in compliance with:
 - a. the current Critical Home Repair Manual,
 - b. The current Construction Cost Sheet found at, [Construction Cost Sheet \(schousing.com\)](http://schousing.com)
 - c. 2021 International Residential Code (IRC) and all state and local revisions.
 - d. The Contractor must contact the building code official within the locality in which the proposed construction repairs are to be undertaken.
 - e. The locality's building inspector must review the Work Write-ups and ensure all code and local requirements are being met with respect to the work being undertaken.
 - f. SC Housing does not require bringing the entire home up to current code, but all repairs undertaken must meet current code and SC Housing standards.

IV. Inspection Standards

A. Inspection Process.

1. SC Housing schedules inspections in the most efficient and timely manner possible.
2. Inspectors will do their best to make appointments that satisfy all individuals involved.
3. Inspections are typically scheduled on Mondays and conducted Tuesday- Friday.
4. Ongoing “special requests” will not be honored.
5. The Sponsors, beneficiary or designee and contractor (‘s) must be present for all inspections.
6. Multi Trade Projects will only conduct one (1) initial inspection.
7. SC Housing inspectors must be permitted to communicate with all parties involved in the repair project at any time.

B. Change Order Process

1. Any changes to the scope or cost of the rehabilitation work after the Sponsor receives an approved initial Work Write-up must be addressed via a change order.
 - a. Changes in materials or scope of work must first be communicated with the SC Housing inspector and approved before proceeding.
 - b. Changes Order Request (HTF-2C) must be completed in detail and signed by the sponsor, contractor(s) and beneficiary.
 - c. Change Order Request are to be submitted electronically to SC Housing.
 - d. SC Housing will review the proposed Change Order and either approve or deny the request.
 - e. SC Housing will communicate its decision to the Sponsor in writing.
 - f. SC Housing may revoke a portion or the entire award if a Sponsor makes changes to the project without prior approval.

C. Change of Contractor Process.

1. A request to change the Contractor must be due to documented, extenuating circumstances.
 - a. Change in contractor must first be communicated with the SC Housing program staff and approved before proceeding.
 - b. The Sponsor must submit another initial inspection request along with a new Work Write-up executed by the new Contractor(s) following all previous guidelines.
 - c. SC Housing will review the requested Contractor change to determine if it will be allowed and conduct another initial inspection of the project following all previous guidelines.
 - d. If a Contractor change is approved by SC Housing, the timeline for completion as per the Funding Agreement is still in effect.

V. Contractor Standards

A. License Requirements.

1. Contractors must have an appropriate trade license and licensed by the SC Dept. of Labor Licensing and Regulation and/or DHEC with one of the following licensures:
 - a. Waste Water, DHEC
 - b. Water Well
 - c. Residential Specialty Contractor:
 - RBS - Vinyl and Aluminum Siding.
 - RBS- Insulation.
 - RBS –Roofer.
 - RBS - Mason.
 - RBS - Dry Wall.
 - RBS - Carpenter, nonstructural license.
 - RBS - Painters/Wall Paper.
 - d. Residential Builder classified as:

- RBB - Residential Builders License.
 - RBW -Residential Builder Exam Waiver with Mechanical Trades restriction.
 - RBE - Residential Specialty Contractor Electrical License.
 - RBH - Residential Specialty Heating and Air License.
 - RBP - Residential Specialty Plumbing License.
- e. Mechanical Contractor classified as:
- AC – Air Conditioning.
 - PK – Packaged Equipment.
 - EL – Electrical.
 - PB – Plumbing.
- f. General Contractor classified as:
- BD – Building Includes (GR, IR, MB, MS, SS, WF).
 - LB – Limited Building.
 - UB _ Unlimited Building.
 - GR – General Roofing.
 - SR – Specialty Roofing.
2. Licensee must have with LLR or DHEC:
- a. An “Active” Status with LLR or DHEC.
 - b. Surety Bond on File with LLR; or be Qualified by Financial Statement per LLR.
 - A licensee cannot exceed their bond or financial limits.
 - c. All licenses and bonds must be current and not expire before the projects estimated completion date.
 - d. Sponsor is to supply copy of contractor’s license from SC LLR website to SC Housing at application.
 - e. SC Housing may require additional information not listed above.

B. Contactor Insurance requirements.

1. An effective \$1 million “General Liability (GL)” insurance policy.
2. A Workers’ Compensation (WC) policy.
3. All insurance policies must be current and not expire before the projects estimated completion date.
4. Sponsor are to submit Certificates of Insurance (COI) with the application.
5. SC Housing may verify GL and WC insurance coverage, including, but not limited to, verifying coverage on the Workers’ Compensation Commission’s website or contacting the insurer.
6. SC Housing may require additional information not listed above but not limited to, quarterly and yearly Workers’ Compensation insurance audits.

Lead Based Paint Insurance Requirements:

7. Sponsors (RRP Firms) must carry a \$1 million “Professional Liability Coverage (Errors and Omissions, or E&O)” for Lead Based Paint Evaluation Work.
8. Lead and/or Asbestos testing contractors must carry a \$1 million “Professional Liability Coverage (Errors and Omissions, or E&O)” for Lead Based Paint and/or Asbestos Evaluation Work.
9. Lead (RRP) and/or Asbestos abatement contractors must carry a \$1 million “Contractor Pollution Liability Coverage (CPL)” for lead and/or asbestos control work.

C. Project limits.

1. Contractors may not work on more than eight (8) SC HTF Critical or Home Repair projects at one time or exceed their LLR dollar limitations, whichever is less.

D. Subcontracting.

1. Sub-contracting is prohibited in the Critical Home Repair Program

E. Multi Contractor/ Trade Projects.

1. Sponsor may use differently licensed individual contractors to complete repairs.
 - a. Sponsor is limited to three (3) individual contractors to complete a project.
 - b. These contractors must meet LLR credentials as listed above.
 - c. These contractors must meet insurance credentials as listed above.
 - d. Each contractor will provide a completed WWU covering only the repairs they are to complete.
 - e. Sponsor will pay each contractor separately and collect a Certification of Payment (HTF-4C) and a copy of the cashed/cancelled check given to the contractor by the sponsor reflecting full payments for all construction cost for each contractor.

F. License or Insurance Violations.

1. If SC Housing discovers any person working on an HTF project is unlicensed, uninsured, under insured or performing work as an unapproved subcontractor; SC Housing will suspend or debar them from any other work in agency programs.
 - a. All outstanding projects the contractor may have that have not been started/ finished will be taken from the contractor.
 - b. The Sponsor will be responsible for securing a contractor(s) to finish/ complete the project.
 - c. SC Housing will not pay any funds out to or for contractors found in violation above.
2. Any Sponsor or Contractor who attempts to circumvent, falsify, manufacture, or otherwise attempt to avoid license and/or insurance requirements will be suspended or debarred.

VI. Project Cost

A. Allowable Cost.

1. All Work Write-Ups must reflect the allowable costs and item/material specifications listed on the Construction Cost Sheet. The Construction Cost Sheet can be found on SC Housing's HTF webpage at: <https://www.schousing.com/library/HTF/2022/2022-Construction-Cost-Sheet.pdf>
2. Hard Cost: These costs include the actual construction cost of labor and materials needed to meet SC Housing's standards and requirements to rehabilitate a home.
3. Soft Costs: These costs are the reasonable and necessary costs related to the project costs.
 - a. **Building permit fee(s).**
 - i. Sponsor must submit copies of the paid invoices/receipts for permits before construction and or repair work begins.
 - ii. The invoice/receipts must clearly show the governmental department that issued the permit and how much was paid for the permit. Generally, the "job value" amount listed on a building permit or a combination of building permits should equal the total amount on the approved **(HTF-2B) Work Write-Up ('s)**.
 - iii. All permits must be pulled by the contractor not the Sponsor, there will be no exceptions.
 - iv. To ensure permits are matched with the appropriate project, Sponsors must write the HTF project number on the permits and receipts if the permits and receipts to do not contain information sufficient to identify the project address they will not be accepted.
 - v. All permits must be posted on-site and be easily visible. If any construction and or repair work is undertaken on an HTF project prior to permits being pulled, the Sponsor and/or Contractor may be suspended or debarred from the HTF program.
 - b. Projects subjective to RRP Lead-Based paint costs: SC Housing will allow and reimburse sponsor for this project related expenses.
 - i. Sponsor- Contractor will be required to submit paid invoices along with cancelled checks for said paid invoices for payment.

B. Prohibited Cost.

1. The following costs are prohibited:
 - a. Business License Fee/Renewal Fee.
 - b. Contractor License Fee/Renewal Fee.

- c. Costs associated with record keeping.
- d. Relocation expenses of residents.
- e. Tools and equipment.
- f. Luxury improvements and or replacements.
- g. Appliances such as Dishwasher, Under Counter Ice makers, Trash Compactors, Washer, Dryer, Freezers etc.
- h. Additions to an existing structure.
- i. Landfill, dumpster, or portable toilet.
- j. Removal of abandoned vehicles, garbage, trash or debris.
- k. Demolition or removal of unsafe or blighted accessory structures/ outbuildings and equipment.
- l. Wholesale replacement of fencing.
- m. Wholesale replacement of sidewalks, driveways and parking areas not limited to concrete, asphalt and gravel.
- n. Replacement landscaping of trees, shrubs, flowers, sod, grass etc. Bare sections of lawn created by repairs will be strawed and seeded.
- o. Foundation replacements.
- p. Blue prints or plans unless it is required by local officials and consented to by SC Housing. To be eligible for reimbursement, Sponsor must receive prior approval from SC Housing before ordering blueprints or plans.

C. Cost Reasonableness

SC Housing will perform a cost reasonableness evaluation of the proposed rehabilitation and may adjust the requested funds amount based on a review and an inspection of the property. Sponsors are strongly encouraged to ensure Applications submitted are cost reasonable to prevent such adjustments or a rejection of the Application. Detailed, itemized information must be submitted and must include costs identified separately by line item.

VII. Photograph Requirements.

A. Sponsors Application Photos.

- 1. All photos must be in color, at least 3” X 5” in size and submitted electronically in PDF format, scanned photos will be rejected.
- 2. Photos must be submitted that clearly identifies all four sides of the exterior home and the property.
- 3. Photos must be submitted of the interior of the home that show all rooms of the home.
- 4. Applications that fail to submit legible photos as prescribed above may be denied for review and or inspection from the desk.

B. Contractors Scope of Work Inspection Photos

- 1. All photos must be in color, at least 3” X 5” in size and submitted electronically in PDF format, scanned photos will be rejected.
- 2. Photos must be submitted that clearly identifies all proposed and or planned repairs. These must include:
 - a. Photos of attic framing and roof decking for roof repairs.
 - b. Photos of HVAC equipment and duct work from outside, inside, attic, crawl space or basement.
- 3. Applications that fail to submit legible photos of all planned repairs may be denied for review and or inspection from the desk.

C. Final Inspection Photos.

- 1. All photos must be in color, at least 3” X 5” in size and submitted electronically in PDF format, scanned photos will be rejected.
- 2. Photos must be submitted that clearly identify all completed repairs including, but not limited to:
 - a. Demo work photos must be taken during the different phases of the demo that clearly show the progress and replacement of all products.

- b. All framing work in the crawl space, basement or attic.
- c. All hidden, behind the wall, framing and MEP work.
- 3. Roofing photos must be taken during the different phases of the roof install and must include:
 - a. The bare roof deck, sheathing,
 - b. New sheathing,
 - c. Synthetic felt,
 - d. Valley lining,
 - e. Ice and Water shield,
 - f. Step and counter flashing,
 - g. Chimney flashing,
 - h. Roof deck cut out for ridge vent; and
 - i. Drip edge.
- 4. Sewer/ Septic system photos are required of all steps of the installation that clearly show all the materials being used.
- 5. Failure to submit legible photographs as described above may result in a reduction in the Contractor's final payment and the Sponsor's Project Delivery Fee in an amount determined by SC Housing and commensurate with work costs associated with the work that was not sufficiently documented by photographic evidence.

VIII. Rehabilitation Construction Standards.

A. General

- 1. SC Housing does not require bringing the entire home up to current code, but all repairs undertaken must meet current SC Building Codes and SC Housing standards.
- 2. All work regarding handicapped accessibility must meet the requirements of 2010 ADA and ANSI Section A117.1-2017.
- 3. All material used shall be new, in new condition and of standard grade.
- 4. All work performed shall be "finished" work. For example, if an exterior door unit is specified then that unit shall be painted/ finished and new lockset installed.
- 5. All work shall be performed and completed in a manner supported by the manufacturer's specifications, standard construction practices, and/or recognized building codes.
- 6. All material or products replaced should be of like kind but not luxury.
- 7. Luxury products and or repairs are not permitted. Examples of this include, but are not limited to; Replacing a shingled roof with a metal roof; Providing a large deck.

B. Lead Based Paint

- 1. Homes built prior to January 1, 1978 (EPA's "Target Housing") or homes with an unknown date of construction must be inspected for hazards associated with the presence of lead-based paint or may be presumed to have lead-based paint hazards.
- 2. Sponsors and Contractors performing testing and or renovations that disturb painted surfaces in pre-1978 housing must be EPA Renovation, Repair and Painting (RRP) Certified.
 - a. Sponsor must be an RRP- certified firm, see link below:
[Renovation, Repair and Painting Program: Firm Certification | US EPA](#)
 - b. Contractor must be an RRP-certified renovator, see link below:
[Renovation, Repair and Painting Program: Renovator Training | US EPA](#)
 - c. EPA RRP website: [Lead Renovation, Repair and Painting Program | US EPA](#)
- 3. Licensee must have with the EPA:
 - a. Be listed on the EPA website @: [Locate Certified Renovation and Lead Dust Sampling Technician Firms | Lead | US EPA](#)
 - b. All certifications must be current and not expire before the projects estimated completion date.

- c. Sponsor is to supply a copy of their “Firm” certification from EPA to SC Housing at application.
- d. Sponsor is to supply a copy of the contractor’s RRP “Renovator” certification from the EPA to SC Housing at application.
- e. SC Housing may require additional information not listed above.
4. Firms must supply homeowner the EPA’s “**Lead-Safe Certified Guide to Renovate Right**” brochure ([Renovate Right \(epa.gov\)](#)) and supply SC Housing with a copy of the signed **(HTF-5C) Receipt of EPA’s The Lead-Safe Certified Guide to Renovate Right**.
5. Firm must supply contractors the EPA’s “**Small Entity Compliance Guide to Renovate Right.**” ([small_entity_guide_9-23-11_w_new_cover.pdf \(epa.gov\)](#)) and Supply SC Housing a copy of the signed **(HTF-5A) Receipt of the Small Entity Compliance Guide to Renovate Right**.
6. Firms must supply SC Housing a copy of their completed “**Renovation Recordkeeping Checklist**”.
<https://www.epa.gov/sites/default/files/documents/samplechecklist.pdf>
7. Renovators will test components utilizing the swab method using EPA certified test kits and supply SC Housing with a copy of their completed “**Test Kit Documentation Form**”.
https://www.epa.gov/sites/default/files/2020-07/documents/test_kit_documentation_form.pdf
 - a. Components on pre-1978 homes that are wrapped such as windows or facia are to be assumed positive for lead based paint and be addressed per RRP requirements.
 - b. Firms, regardless of the test results, are responsible for providing homeowners copies of the “**Test Kit Documentation Form (‘s)**” completed by the RRP Renovator to detect lead-based paint in the painted areas to be disturbed. Firms must also document test results were provided to the homeowner by having them sign the **(HTF – 5B) Receipt of Pre-Renovation Hazardous Materials Test Results form**.
8. Cleaning Verification to be completed by the EPA certified Renovator per RRP requirements.
9. Contractors shall comply with the provisions of Occupational Safety and Health Administration (OSHA) 29 CFR Part 1926, governing the protection of workers disturbing lead painted surfaces.
10. The following methods shall not be used to remove paint that is, or may be, lead-based paint:
 - a. Open flame burning or torching.
 - b. Sanding, grinding, planing, needle gunning or blasting with power tools and equipment not equipped with a shroud and HEPA vacuum attachment.
 - c. Using a heat gun at temperatures greater than 1100°F.
11. If components tested are exempt from RRP requirements because they tested negative for lead based paint the firm must still supply SC Housing with copies of the documents included in 4, 5, 6 & 7 above.

C. Effective Useful Life (EUL)

1. The EUL is the amount of time during which for e.g. products, materials, systems, equipment is expected to remain in good useful condition.
2. EUL is not a warranty. The EUL includes the assumption that any and all maintenance is performed with in appropriate time as to not cause any damages. Deferred maintenance will drastically reduce the EUL up to terminating the EUL.

D. Sewer/septic systems.

1. Replaced septic systems shall have an EUL of twenty (20) years.
2. Repaired septic system shall have an EUL of ten (10) years.
3. Existing systems that are nonfunctioning or malfunctioning may be repaired or replaced.
4. A detailed quote from a DHEC licensed septic tank Contractor is required that includes pumping services, tank size, drain field type and footages, discarding of existing tank, straw and seed of disturbed area and type of materials to be used, etc.
5. Must also provide a sketch (may be hand drawn) of the proposed layout.
6. Photographs are required of all steps of the installation that clearly show the materials being used.

E. Water Wells

1. Replaced water wells shall have an EUL of fifteen (15) years.
2. Repaired water wells shall have an EUL of five (5) years.
3. Existing water wells with broken pumps can be repaired or replaced.
4. In the event existing water wells have gone dry or contaminated beyond repair, SC HTF funds can be used to dig the well deeper or dig a new well.
5. A detailed quote from a licensed well driller that includes proposed depth and materials being used is required

F. Roofing

1. Replaced Pitched shingled roofs shall have an EUL of twenty-five (25) years.
2. Replaced Low Slope roofs shall have an EUL of ten (10) years.
3. Must submit with the Scope of Work Inspection request a roof drawing (may be hand drawn) that includes:
 - a. All roof pitches.
 - b. All penetrations.
 - c. Square footages.
 - d. Square calculations for all material types.
4. Roofs that are leaking or have holes or patches or less than ten (10) years of remaining useful life shall be replaced.
5. Townhomes, duplexes or other owner-occupied homes that have any shared walls are not eligible for roofing replacement unless all shared wall households are income eligible or have a parapet wall in place on the roof line.
6. Three-tab shingles may be used on pitches of 2/12 and greater.
7. Architectural shingles may be used on pitches of 4/12 and greater.
8. Roofs with pitches of 2/12 and less must be covered with a low slope roofing product such as modified bitumen, EPDM or TPO. No torch down products. These products must be installed per the manufacturer's recommendations.
9. Existing metal roof such as a mobile home that is in good repair can be coated with Gaco Roof 100% Silicone roof coating or similar roof product. This product must be installed per manufacturer's recommendations.
10. Roof shingle and low slope roofing product replacement must include:
 - a. Complete tear off down to bare roof deck
 - b. Replacement of damaged sheathing
 - c. New synthetic felt
 - d. Drip edge
 - e. Step and counter flashings
 - f. Chimney flashings, if necessary
 - g. Valley lining
 - h. Ice and water shield
 - i. Ridge vent
 - j. Pipe boots
 - k. Roof penetration flashing. Example range hood vent, gas vent
11. Replacement and /or painting of fascia, soffit, siding or trim, if necessary.
12. Step Flashing must be factory painted 0.019" thickness minimum, 4"h X 4"w X 8"L minimum step. Includes Ice & Water on deck and up sidewall.
13. Counter Flashing must be factory painted 0.019" thickness minimum. Masonry counter flashing must be cut in 1" deep crimped over and sealed with roof caulk. Non-masonry counter flashing must include a face reglet to be sealed with roof caulk. Includes Ice & Water on deck and up sidewall.
14. The racking application of shingles is prohibited and will not be funded by SC HTF.

15. Replacement of existing metal roofing is allowed if required by the structure of the home or historical society.
 - a. The Contractor's credentials and capacity must be approved by SC Housing.
 - b. Documentation of Contractor's experience with installation of metal roofing must be submitted with the Application.
 - c. Metal roofing must be installed per the manufacturer's recommendations including all trims.
 - d. Metal roofing requires a complete tare off of existing roof covering down to bare roof deck.
16. Documented water damage to ceilings and walls may be repaired as part of the roof replacement.

G. Gutters

1. Gutters can be installed if required to disperse water away from the foundation to resolve foundation / crawl space water issues and must;
 - a. Be aluminum seamless gutters.
 - b. Have a leaf guard system, screen wire leaf guard systems are prohibited.
 - c. All water from gutter system must be discharged no less than six (6') feet from the building foundation by:
 - i. Concrete splash blocks with positive sloped drainage away from foundation; or
 - ii. Be piped underground to an appropriate location.

H. Exterior Surfaces

1. Replaced exterior surfaces shall have an EUL of twenty (20) years.
2. Repaired exterior surfaces shall have an EUL of ten (10) years.
3. Damage exterior surfaces may be repaired with like materials.
4. Damaged exterior surfaces that require total replacement shall be vinyl siding with a minimum thickness of .040".
5. Rake, Eve (facia) and boxing materials that require extensive repair or replaced should consist of vinyl and coil stock materials.

I. Windows

1. Replaced windows shall have an EUL of twenty (20) years.
2. Repaired windows shall have an EUL of ten (10) years.
3. Replacement windows shall be vinyl double hung Energy Star rated windows.
4. Replacement windows must meet disaster mitigation requirements (e.g. costal hurricane) including any protection requirements (e.g. hurricane panels) where required by code.
5. Window "NFRC" identification label must remain on all windows for observation by SC Housing inspection staff at final inspection.
 - b. If window labels are not present at final inspection, the inspection will be denied.
 - c. Contractor will be given opportunity to provide window data.
 - d. Failure to provide information that windows meet Energy Star and or disaster mitigation requirements will be ineligible for reimbursement.
6. All windows and trim must be wrapped with coil stock trim.
7. Windows will not be installed for weatherization alone.
8. Broken glass will be repaired if possible and feasible.

J. Exterior Doors

1. Replaced exterior doors shall have an EUL of twenty (20) years.
2. Door replacement shall be Energy Star rated steel or fiberglass door unit.
 - a. Wood slab replacements will be allowed if door unit replacement is impactable. Door and frame mortise must be correct and professional in appearance.
3. Exterior door replacements must include new locksets and hardware, including thumb latch deadbolt.

4. Doors must be installed per manufacturer's recommendations and painted/ finished on all six sides along with the frame.
5. Peep hole/ door views are required on all six panel or flush slab doors with no sidelight or window next to the door. Installed at the appropriate height for the beneficiary.

K. Accessibility Ramps

1. Replaced accessible ramps shall have an EUL of twenty (20) years.
2. Repaired accessible ramps shall have and EUL of ten (10) years.
3. No painting or staining.
4. Installation or repair of accessible ramps for disabled or handicapped beneficiaries must meet current 2010 ADA, ANSI 117.1-2017 and SC Building Code requirements.
5. The Sponsors may be required to provide documentation demonstrating a need for installation/repairs.
6. Ramps can be constructed of treated wood products or be aluminum from a ramp manufacturer.

L. HVAC Work

1. Replaced HVAC equipment shall have an EUL of fifteen (15) years.
2. Replaced HVAC distribution system shall have an EUL of 25 years (25) years.
3. Repaired HVAC distribution system shall have an EUL of fifteen (15) years.
4. Must submit with Scope of Work Inspection request a floor plan (may be hand drawn) that clearly indicates the dimensions of the home with room layouts and:
 - a. Square footage and calculations used to determine the tonnage of the equipment.
 - b. The locations of all vents, returns and attic access.
5. HVAC Equipment may be replaced.
 - a. HVAC equipment repair or replacement, less than 13 years old, must include a complete evaluation/review of the unit, insulation, duct work and thermostat from a licensed HVAC company. A copy of the evaluation/review must be included with the Scope of Work Inspection.
 - b. HVAC equipment must be 14.3 SEER2 / 15 SEER for Split Systems, 13.4 SEER2 / 14 SEER for Packaged Units and be Energy Star rated at a minimum.
 - c. HVAC equipment must have a minimum ten (10) year parts warranty including the compressor.
6. New first time HVAC systems may be installed.
 - a. HVAC equipment must be 14.3 SEER2 / 15 SEER for Split Systems, 13.4 SEER2 / 14 SEER for Packaged Units and be Energy Star rated at a minimum.
 - b. HVAC equipment must have a minimum ten (10) year parts warranty including the compressor.
7. Duct work may be repaired or replaced and must be:
 - a. Appropriately sized
 - b. Insulated to R-8 minimum.
 - c. Sealing of joints and seams shall be with UL listed bucket mastic (not tape).
8. Contractor shall supply the sponsor with the AHRI for the equipment installed that must be provided with the request for **Final Inspection**.
9. HVAC equipment must be registered thru the manufacturer for the warranty by the Contractor. A copy of the warranty registration must be provided with the request for **Final Inspection**.
10. A 200 AMP service upgrade to electrical is permitted if necessary for HVAC install.
11. It is the Sponsor's responsibility to inform the homeowner of increased utility rates.

M. Energy Efficiency Weatherization

1. Energy efficiency weatherization shall have an EUL of twenty (20) years.
2. Blown in attic insulation, shall be installed or upgraded to R-30 minimum and must include installation of depth tape and insulation card in attic.
3. Weather stripping installed must be of premium grade, self-adhering foam is prohibited.

4. Weatherization as a stand-alone activity is not eligible.

N. Plumbing

1. Replaced water heaters shall have an EUL of ten (10) years.
2. Water Heaters shall be 38-40 Gal. with a six (6) year minimum warranty and be installed per current SC Building codes with drip pan installed, drip pan and T&P pipped outside, disconnect with platforms, strapping and expansion tanks as required.
3. Tankless Gas Water are acceptable for use when swapping out from a gas tanked heater to tankless must be 5.5 GPM minimum.

O. Porches/ Decks/ Railings/ Ramps/ Landings.

1. Replaced porches, decks, railings, ramps and landing shall have an EUL of twenty (20) years.
2. Repaired porches, decks, railings, ramps and landing shall have an EUL of ten (10) years.
3. Can be repaired or replaced.
4. All repairs must be of like materials.
5. All lumber shall be treated.
6. No painting or staining.
7. Handrails and railing can be built from treated wood or be of steel, aluminum or vinyl and must be ridged.
8. Handrails must be graspable as per current SC Building code.
9. Concrete landings shall be installed on compacted soils, be four (4) inches thick, not exceed 2% slope and be broom finished.

P. Electrical

1. Replaced electrical distribution shall have an EUL of forty (40) years.
2. Battery powered Smoke and Carbon Monoxide alarms shall be interconnected with a ten (10) year battery.

Q. Painting

1. Painting color shall be of a base white color.
2. Painting shall have an EUL of fifteen (15) years.
3. All paints, sealant and primers must be low VOC with a minimum twenty-year (20) year warranty.
4. All surfaces covered with paint require a minimum of one (1) coat of primer and two (2) coats of paint.
5. All finishes must be washable, flat paint finishes are prohibited for use except on ceilings.
6. No painting or staining of treated wood components such as exterior porches, decks, railings ramps, landings, fencing etc.

R. Structural

1. Repaired or replaced structural systems shall have an EUL of forty (40) years.
2. Any part of the roof system or chimneys affecting structural integrity may be repaired or replaced.

S. Trees

1. Tree service/ removal companies are not licensed by SC LLR so there is no license requirement for this profession. These companies are required to meet the insurance requirements of Section V. B. Contractor Insurance Requirements.
2. Trees or tree limbs that are hazardous to the roof structure must be removed.
 - a. Contractor must ensure removal, topping, pruning etc. is allowed by local ordinances.
 - b. Contractor will be required to provide documentation from the AHJ that the tree work proposed meets local ordinances.
 - c. Contactor must provide a detailed estimate for all tree work.
 - d. Trees that are removed may include cutting close to the ground with in six (6) inches or grinding up to twelve (12) inches below finished grade.