**Reviewer Instructions**

Please use this document’s Review Form to provide feedback for the FEMA Standard Floorplan Design project. You may access the referenced design documents by visiting the project website: <http://www.research-alliance.org/pages/fema_mhu.htm>. Navigate to “**Design Details**” and “**Design Specifications**” under the “Designs and Specifications” heading.

Please submit your review form using the instructions at the bottom of the page.

Conference calls will be held by topic, on the date shown on the schedule, with call-in details as shown on the [project website](http://www.research-alliance.org/pages/fema_mhu.htm).

As you review, keep in mind the following project goals.

This project aims to develop standardized floor plans and utility connection layouts for four basic Manufactured Housing Unit types that:

* Promote a consistent basis for comparing bids by reducing the variability of proposals to FEMA, creating a level playing field
* Are robust enough to withstand storage, transportation, and diverse occupant use, and to consistently meet expectations
* Comply with appropriate codes and standards
* Simplify construction and delivery with the aim of expediting disaster response by providing a predictable product and eliminating the need for special approvals
* Promote easy production, installation, operation, maintenance, and decommissioning
* Allow room for innovation, as standard designs can be adapted together as a set
* Include design variants viable in all U.S. climates and locations ('CONUS' design)
* Include accessible (UFAS) variants on the designs
* Incorporate a broad base of MHU supply (utilizing widely available materials)
* Allow FEMA to maintain a smaller MHU inventory with more homogenous, universally deployable units

Thank you for taking the time to review. We appreciate your expert feedback and suggestions.

Sincerely,

The Levy Partnership team

**Review Form 3**

**3 - Lighting, Electrical, and Plumbing**

Reviewer name: Title: Company:

Date: Phone: Email:

|  |  |  |
| --- | --- | --- |
| Drawing / Specification Section | Questions | Comments |
| Construction Doc. 3-1a | * Do you anticipate any issues fitting the water heater and drip pan into the provided space?
 |  |
| Construction Doc. 3-1b |  |  |
| Construction Doc. 3-16 | * Are any additional electrical details required for specificity?
* What are your thoughts on the location of the thermostat?
 |  |
| Construction Doc. 3-17 |  |  |
| Construction Doc. 3-18 |  |  |
| Construction Doc. 3-19 |  |  |
| Construction Doc. E-1a | * Do you anticipate any issues fitting the water heater and drip pan into the provided space?
 |  |
| Construction Doc. E-1b |  |  |
| Construction Doc. E-16 | * Are any additional electrical details required for specificity?
* What are your thoughts on the location of the thermostat?
 |  |
| Construction Doc. E-17 |  |  |
| Construction Doc. E-18 |  |  |
| Construction Doc. E-19 |  |  |
| Construction Doc. E-25 |  |  |
| Specifications Sec. 5 |  |  |
| Specifications Sec. 6 | * Do you have any concerns about the performance or availability of the specified water heaters?
* Please review the HVAC options in the table and offer suggestions as to how you would go about space conditioning for the CONUS home—one that can be deployed anywhere. How should ventilation be handled? How should moisture be handled? Please keep in mind that the homes are low-load homes compared to standard construction, as their envelopes are highly efficient (around 1 to 1.5 tons heating/cooling required).
 |  |
| Specifications Sec. 7 | * Are any additional plumbing details required for greater specificity?
* What R-value insulation should exterior pipes (pipes extending below the floor joists) be insulated with?
 |  |
| Specifications Sec. 8 | * Do you have any concerns about the availability or installation of fire-sprinkler soffits?
 |  |