

Arch 464  
ECS  
Spring 2017

Name \_\_\_\_\_

Quiz #2

## "Welcome to Rough House"

For this problem you are on the jury for a water use and conservation competition (WUCC) for urban housing in Vancouver, BC. Rough House has been nominated as a contender for the WUCC cup. Your role is to critique Rough House's green, educational, and poetic alternatives for water use and treatment in the building and on its site. Give high marks for successes and low marks for missed opportunities.

**Context.** Vancouver has a mild coastal climate with about 45 inches of rain each year, most falling October through April, with very little in July and August. The building is connected to city water supply and sewers.

**Description.** See more at: <http://measured.ca/projects/rough-house/>.



*Front elevation (north facing) of Rough House showing its landscape design.*

## READ THE ENTIRE QUIZ BEFORE YOU BEGIN!



*Rear elevation (south facing) showing garage, guest flat, and metal gate.*

*All photos and drawings: Architectural Record February 21, 2017 and Measured Architecture Inc.*

## Measured Architecture Inc.

**Project size:** 3,600 sf

**Completion date:** July 2015

**Program:** The Rough House is a single family residence rooted in handmade craft and built to showcase local artisans and their design processes.

**Location:** Vancouver, BC's residential Kitsilano neighborhood.

**Solution:** Situated within a tight urban lot, the house is separated from its neighbors for privacy and sense of place. Interventions such as the narrowing of the building to support increased side yards and landscape edges, and the mixing and matching of textures, enhance the space. The first and second floors are influenced by the Japanese principle of shakkei, or "borrowed landscape," which integrates framed views of nature into the architecture.

**Construction and materials:** Materials were selected to showcase the work process of local skilled artisans. To address the need for compositional balance not only at the building massing level but also at the scale of fine, medium, and coarse material selection, carbonized cypress was used for exterior cladding. Repurposed concrete board-forms were selected for exterior window surrounds and soffits.

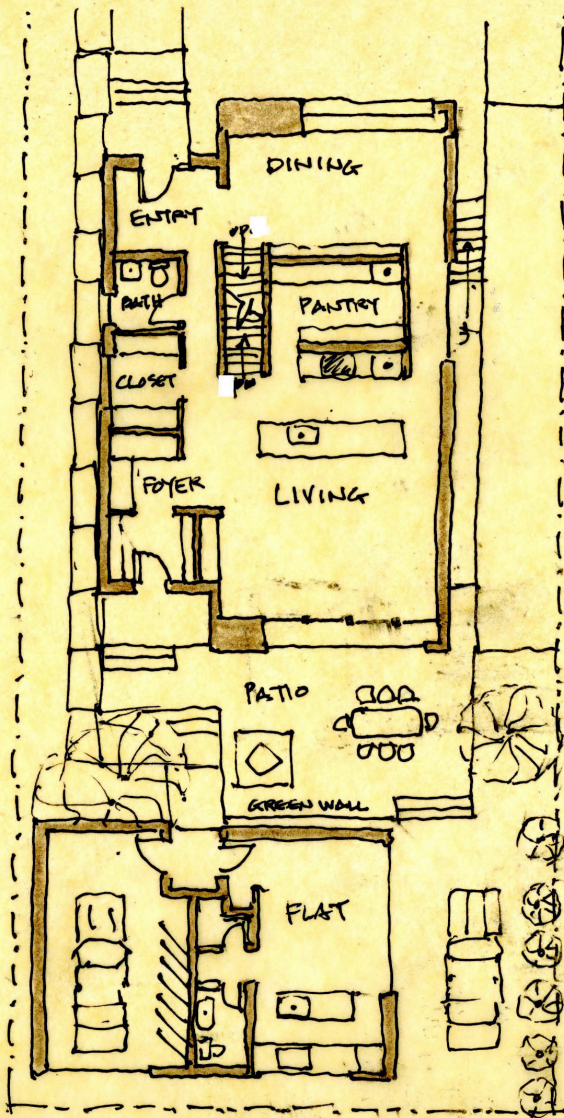


*The shakkei experience from the second floor family room features the green deck above the home's entry.*



*Two views of the living room. Looking north from the south-facing opening toward the breakfast bar and kitchen. The shakkei experience looking south from the breakfast bar toward the garage.*



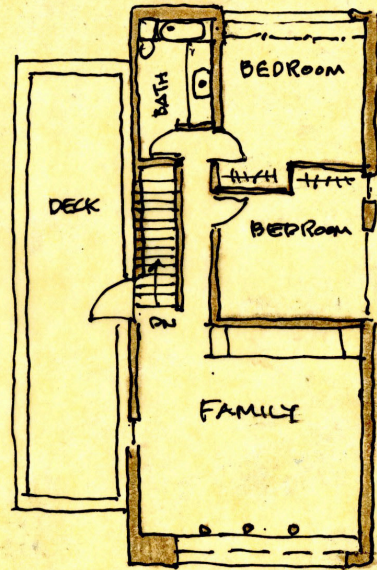


SITE & MAIN FLOOR PLAN

*North is up.*

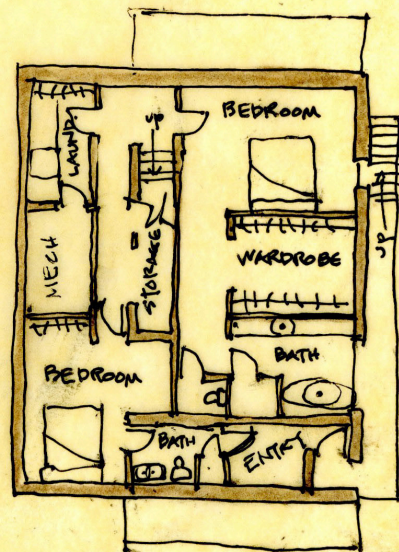
*The guest bedroom in the basement can be entered from the inside via the basement steps or the outside via an exterior stairwell.*

*There is also a guest flat in the garage.*



SECOND FLOOR PLAN

BASEMENT PLAN





3 pts. 1. **Critique and give marks to three** strategies to improve and demonstrate management of **stormwater** on the site. Cite evidence from the photo below as well as in plans and photos throughout the quiz to **validate** your critique. **Fully explain each strategy** for its merits, aesthetics, and missed opportunities.



*Deck area between house and garage.*

- 4 pts. 2. **Critique and give marks to two possible strategies for management of gray water** on the site and in the building. Cite evidence from the photos below as well as in plans and photos throughout the quiz to **validate** your critique. **Fully explain each strategy** for its merits, aesthetics, and missed opportunities.



*Kitchen (left foreground) and pantry (left background and right) each have a sink.*



3 pts. 3. **Critique and give marks to three** strategies for water use and conservation in the house. Cite evidence from the photos below as well as in plans and photos throughout the quiz to **validate** your critique. **Fully explain each strategy** for its merits, aesthetics, and/or missed opportunities.



*Bathroom triptych: (left to right) Basement master bath, Second floor bathroom, First floor bathroom. There are two other bathrooms for the basement and garage flats—both similar to the first floor bathroom and with separate shower rooms.*