

Appendix B

Photographs of the Exterior and Interior of the Lab Homes

Appendix B - Photographs of the Exterior and Interior of the Lab Homes



Figure B.1. Lab Home A Home on a Cold and Clear December Afternoon



Figure B.2. Lab Home B Home on a Cold and Clear December Afternoon



Figure B.3. West End of Lab Home A. Note conduit tray (above slider and window) to hold exterior thermocouple wiring.



AppxFigure B.4. Electric Water Heater as Installed in Exterior Accessed (insulated) Closet



Figure B.5. Weather Station on East End of Lab Home B



Figure B.6. Electrical Service Connection Complete with Disconnect and Utility-Provided Smart Meter



Figure B.1. Window on West End of Home B. Mean radiant temperature sensor (tripod mount in foreground), pyrhanometer (tripod mount next to window), and surface-mounted thermocouples attached to interior/exterior of window



Figure B.2. Conduit Race (uncovered) in Hallway Showing Thermocouple and Control Wiring



Figure B.3. Ceiling Mounted Humidity Sensor (device on left) and Thermocouple as Installed in Main Living Area



Figure B.4. Full 42-Breaker Controllable Commercial Lighting Panel as Installed. Note loops of conductor on left to achieve higher sensitivity on amperage readings.



Figure B.5. Close-Up of Panel and Conductor Loops



Figure B.6. Fully Instrumented Breaker Panel. Note every breaker/conductor is instrumented with current transformers (CTs – black devices).



Figure B.7. Campbell Scientific Data Logger Use for Power Measurements. Note CT leads to logger terminals used for true power calculation.



Figure B.8. Close-Up of Campbell Data Logger and CT Terminations



Figure B.9. Campbell Scientific Data Logger Use for Temperature and Humidity Measurements, and for Control Functions



Figure B.10. Close-Up of Campbell Data Logger and Thermocouple and Control Wire Terminations