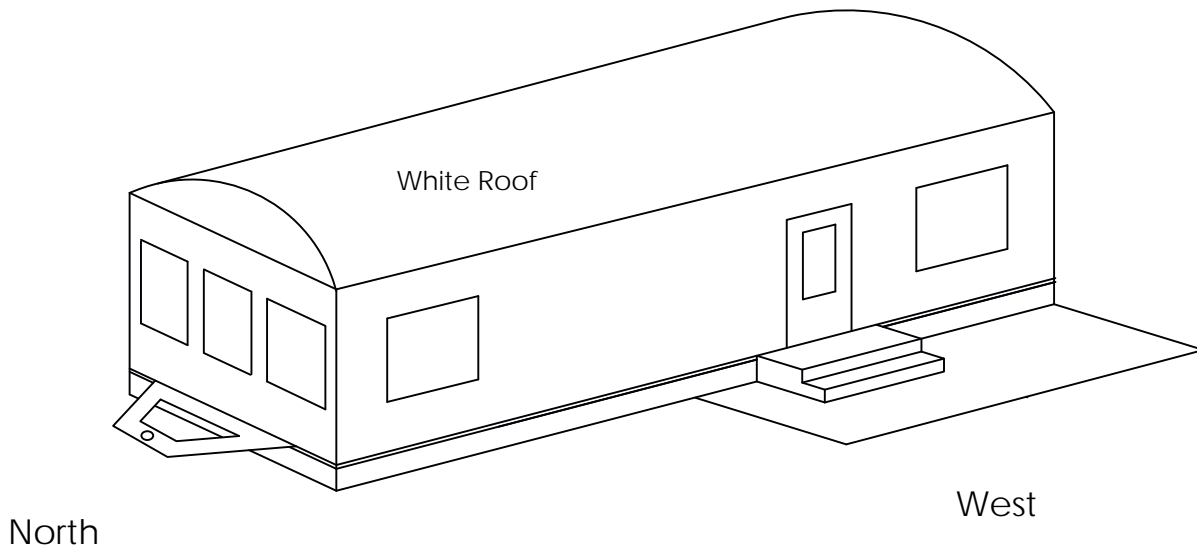
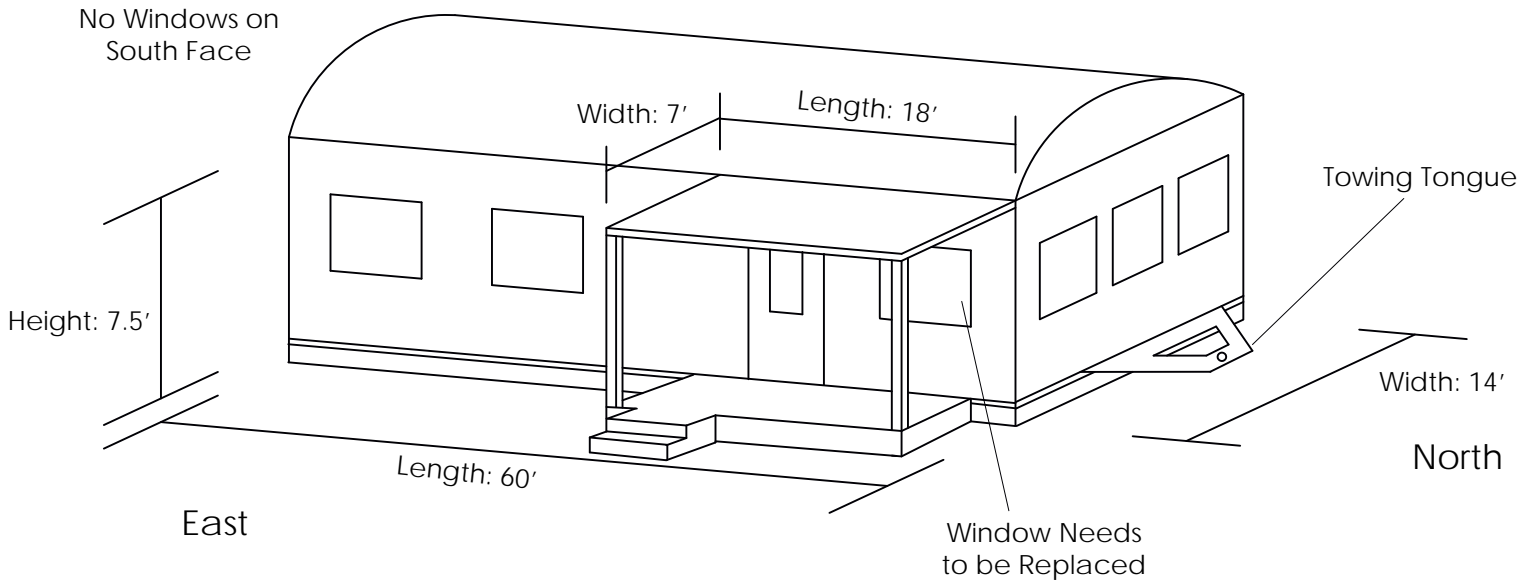


MHEA Example Home



MHEA Example Home

House Information:

Job number: MH-2022-144
Occupant name: Susan Fowler
Additional Contact: Terry Fowler
One Occupant
House location: St. Louis, MO in a typical mobile home park

Envelope:

Wall: 2" x 4" wall studs with 2" blanket and 0.5" foam core under un-ventilated skin
Ceiling: 2" blanket and 0.5" foam core
Roof is bowstring, 10" above ceiling at center
Floor: Made from 2x6 floor joists that are widthwise with no skirting
Rodent barrier with 2" of insulation stapled beneath floor joists
Supply duct (6"x14") runs beneath the floor joists in the belly above insulation
Belly condition is average

Windows:

All windows are 40" x 36", single-pane, metal-frame sliders with medium leakage
No windows on the south face
Only east facing windows have blinds
One window on the east needs to be replaced (consider as an incidental repair using normal DOE Weatherization funds)

Doors:

All doors are 78" x 36" standard manufactured home doors
Storm door present on east (front) door
Rear (west) door needs to be replaced. It will be treated as an incidental repair and paid for using normal DOE Weatherization funds.

Heating and cooling system:

60kBtu electric furnace needs to be replaced because of a safety problem and will be paid for using Health and Safety funds. A new unit with the same capacity will cost \$2,000.
No programmable thermostat is currently installed
3-ton central air conditioner manufactured in 2001 (check replacement with 16 SEER at \$2,500)

Infiltration/duct information:

Blower door readings:	3000 cfm50 pre-weatherization 1200 cfm50 final (estimated)
Pressure pan readings in seven registers:	Pre Duct Sealing: 6,4,3,2,4,6 and 3 Pa Post Duct Sealing: 1 Pa per register (est)
Supply duct operating pressures:	30 Pa pre-weatherization 35 Pa post-duct sealing (estimated)
Cost of infiltration reduction work:	\$400 (estimated)
Cost of duct sealing work:	\$350 (estimated)

Water heater:

Electric storage water heater in *outdoor water heater closet* with well insulated, sealed door
Manufactured with 1.5" of fiberglass insulation
No insulation wrap is currently installed on the water heater
No insulation on water pipes in water heater closet
One 3.2 gpm showerhead used about 8 minutes per day

Refrigerator:

Automatic defrost

Located in heated/living space

Rated 1000 kWh/year, 13-year old refrigerator with poor door seal
(replacement refrigerator will be a 500 kWh/year unit costing \$450)

Lighting:

Ten 60 watt standard incandescent bulbs in multiple locations used 2.5 hours per day

Four 75 watt flood lamps (incandescent) installed outside used 8 hours per day

(addition \$10/lamp replacement cost)

Special Item:

Smoke alarm needs to be installed costing \$100 and will be paid for using Health and Safety funds.