State of Ohio Weatherization Program Standards	Section: **BUILDING SHELL INSPECTION**
	Subject: **Sidewalls**

HAZARDS 202-4.1

Note the presence and condition of any electrical connection to the house. Note any bare, frayed, or uninsulated wires. Determine whether problems can be corrected within program guidelines.

electrical hazards !
202-4.1a

Note exterior flues and chimneys, gas or oil lines, fuel tanks, or plumbing lines if their location presents a hazard.

piping hazards !
202-4.1b

Document the presence of any plant, animal, or insect hazards. Note the presence of any animal or bird feces that may pose a health threat. Determine appropriate measures needed to assure worker health and safety.

health hazards !
202-4.1c

Note any inclines in the yard layout or any obstructions which would require special ladder preparations or use of other safety equipment.

special preparation
202-4.1d !

SIDEWALL CONDITION 202-4.2

Note all types of siding material. Note siding material which may contain asbestos. Wherever possible, determine the presence and condition of previous layers of siding or sub-siding. In consultation with the homeowner/ authorized agent, determine the best sidewall insulation installation strategy (the "tubing" method or the "two-hole per story" method). As the primary acceptable method, the siding must be lifted or temporarily removed to gain access for drilling. Only after it has been determined by the inspector and insulation crew, in consultation with the homeowner/authorized agent, that the siding cannot or should not be removed, written permission is needed from the homeowner/authorized agent to drill through any type of exterior siding.

siding type
202-4.2a

Determine the depth of the stud cavities and note the presence of any existing wall insulation. Look for evidence, such as insulation plugs, of previously installed insulation. Check several test locations. Note the presence of moisture in any existing insulation.

existing insulation
202-4.2b

exterior doors & windows
202-4.2c

Note any severe deterioration of frames and any missing glass. Note any excessively deteriorated parts, such as the exterior sill, jamb, or casing. Note missing glazing compound which leaves the glass pane in an unsafe state.

moisture damage
202-4.2d

Note any areas with exterior moisture damage, including missing or rotted siding or siding with excessive deteriorated paint, or other problems.

structural integrity
202-4.2e

Note the existence and condition of any exposed structural components, such as wall studs, sill plates, sole plates, etc. Note the presence and condition of structural additions, such as porches and porch roofs. Note any room additions to the main structure.

INTERIOR SURVEY 202-4.3

interior surface
202-4.3a

Determine the type and condition of the interior surfaces of the sidewalls. Note all deteriorated or structurally unsound areas. Note any holes, penetrations or other conditions which may cause problems during the insulation process, such as panelling used as the only interior wall surface, or missing, loose, or damaged baseboard, casing, jambs or trim.

obstacles
202-4.3b

Note the presence of obstacles to interior drilling and installation of insulation.

interior mechanicals
202-4.3c

Note the existence and condition of all electrical outlets and switches in the sidewalls. Note the location and condition of vent fan penetrations, clothes dryer vent termination, wall heaters, air conditioners, etc. Note the location of chaseways containing utility runs or duct work in the sidewalls.

OVERALL STRUCTURE 202-4.4

structural details
202-4.4a

Determine the approximate age of the structure. Note the type of wall construction. If it is frame, note whether it is balloon or platform construction. Note the presence and location of interior soffits, wall height changes, pocket doors, drop ceilings, open closets or cabinets, or other construction details that would require alternative installation methods.

Note the existence of open-topped or -bottomed walls or other bypass features which would require alternative installation methods.

Note the existence and the location of all critical framing junctures and determine an appropriate insulation strategy. *INSULATION 202-4.5*

Calculate the amount of cellulose insulation needed to insulate sidewalls to 3.25 - 3.75 lbs/ft^3. If cellulose is not the appropriate material, document the reason, and calculate the amount of blown fiberglass insulation needed to insulate the walls to 1.6 lbs/ft^3.

insulation amount
202-4.5a

In open cavities, decide if fiberglass batts or another method would be appropriate. Consider the wall depth when deciding the size of the fiberglass batts. Calculate the amount of drywall needed to cover the insulation.

insulation amount, open cavities
202-4.5b