

R38 ceiling insulation or meet Int. Energy Conservation Code; V.B. not required at vented space

Roof requires 40 psf live load design

**Allegheny County Division of Permits and Land Development Services**  
 IRC Residential Information Graphic #5  
 Revised January 14, 2003

R16 wall insulation or meet International Energy Conservation Code

### FOUNDATION CROSS-SECTION (No Scale)

R19 floor insulation or meet Int. Energy Conservation Code (vapor barriers not required when space is vented; always place at warmed side if required)

Minimum 3" joist lap properly secured

Required slope of finished grade away from foundation is min. 6" fall in 10'

6" min. fin grade to top of foundation

min. 5% grade fall to 10' from foundation

1/2" diameter anchor bolts extending 7" into concrete; locate within 12" of ends of plate, and space 6' on center

Provide size and type of beam

Provide planned column type, size and spacing

Provide proposed size of footing (width and thickness)

Unbalanced Fill -- maximum depth based on masonry wall thickness, grouting and reinforcement (see IRC Tables R404.1.1(1), (2), (3), & (4).

3/8" portland cement parging, damp-proofing with bituminous coating, acrylic modified cement, surface bonding mortar or other per IRC 406

Vapor barrier required for sub-grade cover

Footing projections shall be a min. of 2" and shall not exceed the footing thickness

Crushed stone, filter membrane

Stone minimum 6" above footing

Perf. pipe at or below area to be protected

Min. 2" stone under pipe

4" crushed stone

Footer thickness shall be a minimum of 6"

Adequate load-bearing value of soil required per IRC 401.2

Minimum 12" beyond footing

Stone shall extend minimum of 12" beyond & 6" above footer

Column footing dimensions depend upon soil bearing value, and load as determined by # of stories, span of joists, spacing of columns, etc. Thickness shall be half the width unless re-inforced

Footer width as required by load-bearing value of soil - see IRC Table R403.1

