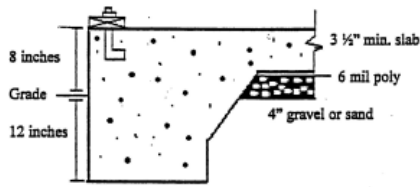




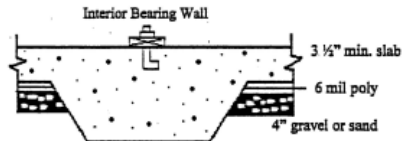
## Residential Construction Worksheet

Refer to 2009 N.C. Residential Code (available for purchase at [www.iccsafe.org](http://www.iccsafe.org))

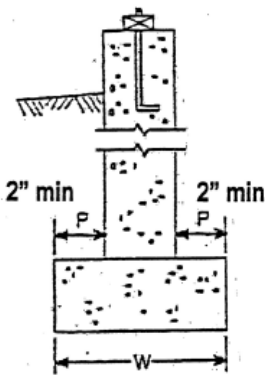
**FOOTINGS:** Circle applicable diagram(s):



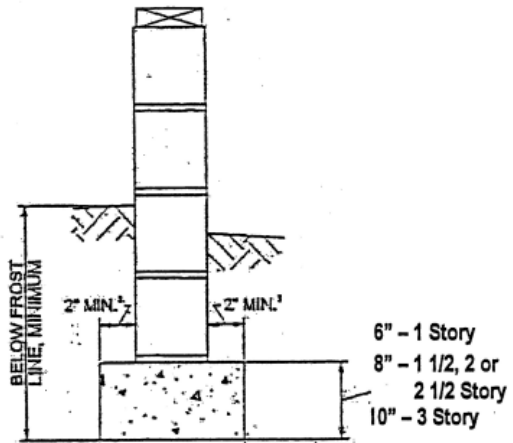
Monolithic slab with integral footings



16" min



Basement or crawlspace with  
← Concrete wall or Block wall →



16" min

### Footing Dimensions:

Width \_\_\_\_\_  
Depth \_\_\_\_\_  
Projections \_\_\_\_\_

### Foundation wall:

Thickness \_\_\_\_\_  
Height \_\_\_\_\_  
Unbalanced backfill height \_\_\_\_\_

### Footing Reinforcement:

Horizontal diameter \_\_\_\_\_  
Number of horizontal runs \_\_\_\_\_  
Hooked dowel bar diameter \_\_\_\_\_  
Hooked dowel spacing \_\_\_\_\_

### Vertical Reinforcement:

Size \_\_\_\_\_  
Spacing \_\_\_\_\_

**Soil type:** SM SC CL (circle one)

### Retaining wall:

Height \_\_\_\_\_  
Unbalanced backfill height \_\_\_\_\_

**PIER AND FOOTING SIZES FOR SUPPORT OF GIRDERS:**

**Calculate tributary area:**

Definition: Tributary area is the load carried by each pier and footing.

Fill in the following blanks using your plans and apply your answer to the table below.

(Engineering may replace this calculation.)

Maximum floor joist/truss span \_\_\_\_\_ x distance between piers or posts \_\_\_\_\_ = \_\_\_\_\_ sq. ft. of tributary area

Circle the pier and footing sizes below for the maximum girder span:

Area <sup>5</sup>	1 Story		2 Story		2½ Story	
	Pier <sup>3,4</sup>	Footing	Pier <sup>3,4</sup>	Footing	Pier <sup>3,4</sup>	Footing
50	8"x16"	1'-4"x2'-0" x8"	8"x16"	1'-4"x2'-6"x8"	8"x16"	1'-4"x2"x6"x8"
100	8"x16"	1'-4"x2'-0"x8"	8"x16"	2'-0"x2'-0"x10"	16"x16"	2'x6"x2'-6"x10"
150	8"x16"	2'-0"x2'-0"x8"	16"x16"	2'-8"x2'-8"x10"	16"x16"	3'x0"x3'x0"x10"
200	8"x16"	2'-4"x2'-4"x10"	16"x16"	3'-0"x3'-0"x10"	16"x16"	3'-11"x3"-8"x1'-0"
250	--	--	16"x16"	3'-4"x3'-4"x1'-0"	16"x24"	4'-0"x4'-0"x1'-0"
300	--	--	16"x16"	3'-8"x3'-8"x1'-0"	16"x24"	4'-6"x4'-6"x1'-0"

**Floor Framing:**

Girders: Size \_\_\_\_\_ # of Members \_\_\_\_\_ Span \_\_\_\_\_

Joists: Size \_\_\_\_\_ Span \_\_\_\_\_ Spacing \_\_\_\_\_

Engineered trusses: Yes \_\_\_\_\_ No \_\_\_\_\_

Note: Factory truss design shall be on site at framing inspection

Floor Sheathing: Size \_\_\_\_\_ Type \_\_\_\_\_

**Wall Framing:**

Studs: Size \_\_\_\_\_ Spacing \_\_\_\_\_ Height \_\_\_\_\_

Headers: Size \_\_\_\_\_ # of Members \_\_\_\_\_ Span \_\_\_\_\_

Note: All headers will be checked at framing inspection. Factory design of engineered wood products shall be on site.

**Roof Framing:**

Rafters: Size \_\_\_\_\_ Span \_\_\_\_\_ Spacing \_\_\_\_\_

Engineered Trusses: yes \_\_\_\_\_ no \_\_\_\_\_

Note: Factory truss design shall be on site at framing inspection

**Deck Framing: See Appendix M for details**

Footing: Width \_\_\_\_\_ Depth \_\_\_\_\_ Spacing \_\_\_\_\_

Girders: Size \_\_\_\_\_ # of Members \_\_\_\_\_ Span \_\_\_\_\_

Joists: Size \_\_\_\_\_ Span \_\_\_\_\_ Spacing \_\_\_\_\_

\_\_\_\_\_  
Applicant's Signature

\_\_\_\_\_  
Date