TRANSYLVANIA COUNTY
NORTH CAROLINA

BUILDING PERMITTING AND ENFORCEMENT
www.transylvaniacounty.org/departments/building-permitting-and-enforcement
PHONE: (828) 884-3209

Residential Construction Worksheet

See link below for referenced code sections of the 2012 N.C. Residential Code:
https://codes.iccsafe.org/public/document/details/toc/813

FOOTINGS (Chapter 4): Conventional light frame construction
https://codes.iccsafe.org/public/chapter/content/6261/

CMU and Concrete Walls, Monolithic Slab Footings (Table R403.1):

One Story:	Minimum footing width: 12”	Minimum footing thickness: 6”
Two Story:	Minimum footing width: 15”	Minimum footing thickness: 8”
Three Story:	Minimum footing width: 17”	Minimum footing thickness: 10”

Footing Dimensions:
Width: 12” minimum
Frost Depth: 12” minimum
Projections: 2” minimum

Footing Reinforcement:
Horizontal diameter _____
Number of horizontal runs _____
Hooked dowel bar diameter _____
Hooked dowel spacing _____

Foundation Wall:
Thickness _____
Height _____
Unbalanced backfill height _____

Vertical Reinforcement (if applicable):
Size _____
Spacing _____

Pier and Footing Sizes for Support of Girders (Table 403.1a):

	1 Story		2 Story		2½ Story	
Area[5]	Pier[3,4]	Footing	Pier[3,4]	Footing	Pier[3,4]	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”

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 above.
Engineering may replace this calculation.

Maximum floor joist/truss span: _____ x distance between piers or posts: _____ = _____ sq. ft. of tributary area. Circle above the pier and footing sizes for the maximum girder span.

Floor Framing (Chapter 5):
https://codes.iccsafe.org/public/public/chapter/content/6262/

Girders: Size _____ Number of Ply's _____ Span _____

Joists: Size _____ Span _____ Spacing _____

Engineered trusses: Yes _____ No _____

Floor Sheathing: Size _____ Type _____

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

Wall Framing (Chapter 6):
https://codes.iccsafe.org/public/public/chapter/content/6263/

Studs: Size _____ Spacing _____ Height _____

Headers: Size _____ Number of Ply's _____ Span _____

Note: Load bearing wall heights exceeding 10' shall meet Chapter 6 requirements..

Roof Framing (Chapter 8):
https://codes.iccsafe.org/public/public/chapter/content/6265/

Rafters: Size _____ Span _____ Spacing _____

Engineered Trusses: yes _____ no _____

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

Deck Framing (Appendix M):
https://codes.iccsafe.org/public/public/chapter/content/6346/

Footing: Width _____ Frost Depth: 12" minimum Spacing _____

Girders: Size _____ Number of Ply's _____ Span _____

Joists: Size _____ Span _____ Spacing _____

Precast Concrete Foundation Walls (404.5):
https://codes.iccsafe.org/public/public/chapter/content/6261/

Yes _____ No _____

Note: Design Professional documentation required.

Retaining Wall:
https://codes.iccsafe.org/public/public/chapter/content/6261/

Height _____

Unbalanced backfill height _____

Note: (R404.4) over 4' requires design professional approval prior to certificate of occupancy

_____ _____

Applicant's Signature Date