

WILSON COUNTY INSPECTIONS DEPARTMENT
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RESIDENTIAL PLAN REVIEW REQUIREMENTS

The following is a list of the items required on residential plan's for the North Carolina Residential Code 2018 Edition, based on the International Residential Code. *Any notated below must be shown on plans.

1. Designer must reference that plans are designed to meet the requirements of the North Carolina Residential Code 2018 Edition.



2. House elevations- Front, Rear, & Side *Exterior wall coverings (i.e. Brick, Vinyl, Stucco, Stone, Lap siding)
3. Slab, footing, & pier- Show width & depth including all dimensions & spacing requirements.
4. Specific foundation wall detailing-Type of materials width & height.
*Basements-Max wall height, max backfill, & type of backfill
*Crawl Space separated from porches per NC Residential Code Section R408
5. Foundation vent calculations. *36" from each corner. * 100% Ground Vapor Retarder per R408.2 or Closed Crawl Spaces per R409.
6. Anchor bolts for foundation must be noted. *12" from each corner and every 6'
7. Floor System- Girder sizes & locations, floor joist direction, size, species, spacing, cantilever details, & cripple wall details. (Engineered Floor System must include point loads, and specifications from the wood products engineers. All design must be submitted & approved through the plan review process prior to construction.)
8. Exterior balconies must be designed for 40 lbs. live load *See R502.3.3 – Chapter 5 tables and New Cantilevers Designs
9. All decks details must be shown on plans.
10. Floor Plan- Location & size of walls, windows, doors, stairs, headers, includes support (Stud Columns with number of jack studs and I joist or TGI joist with manufactures details) & attachments. **Building widths exceed 36' measured perpendicular to the ridge will require engineering for header size.**
11. Roof Ceiling - ceiling joist & rafters direction, size, species, & spacing. Show ridge size support & all details of vaults, cathedral, valley supports & roof vent calculations. *All cathedrals & vaults, ridge must be sized by Professional Engineer.
12. Truss layouts must illustrate bearing walls & load points greater than 3,000lbs with appropriate stud columns through the structure. *Sealed by Professional Engineer
13. Show cross-sections of interior & exterior walls *Specify balloon framing or platform framing and braced wall panel detail per R602.10.3
14. Chimneys or fireplaces with details (vented or non-vented)
15. **All energy details must be submitted on plans!**
 - a. Energy Compliance:
 - i. Window U-factor & design pressure
 - ii. Insulation R-Values
16. Need to identify all rooms.
17. **Note: All Load Points Must Show Path of Travel to Earth Through All Floor Plans Stud Columns with Numbers**
18. **If plans consist of engineer products, Engineering approval will be required.**
19. **Two sets of plan will be required to scale**
20. **Two sets of plot plans**
• location of the building on site, as well as required setbacks, easements, property lines. •Any floodplain requirements if the property is located in a floodplain

