

TO: MARK DUNTZ AND HARNETT COUNTY, NC INSPECTIONS
FROM: THOMAS L AMANN – ARCHITECT
RE: CONDITIONS AND IMPROVEMENTS FOR DUNTZ BARN

BELOW ARE CONDITIONS OBSERVED AT THE DUNTZ BARN. TEXT IN BLACK ARE EXISTING CODE COMPLIANCE CONDITIONS. TEXT IN RED ARE ITEMS TO BE INSTALLED BRING PROJECT INTO COMPLIANCE

BARN FOR MARK C DUNTZ

316 ROYAL LANE LILLINGTON, NC 27546

FYI: <https://codes.iccsafe.org/content/NCRC2018> FREE ONLINE RESIDENTIAL CODE, SEE CHAPTER 6

PIN: 0620-94-7438.00 ZONING: RA-30

LOADS: SLAB – 100 PSF ROOF DEAD LOAD – 10 PSF LIVE LOAD – 20 PSF

WIND: 120 MPH

SOIL: 2,000 PSF (NCSBC R401.4.1)

CONCRETE: 2,500 PSI (R402.2) FOOTING WIDTH: MIN 12" WIDE

2-#5 BARS CONT IN FOOTING

COVERED AREA WOOD POST: FOUNDATION 36" DIAMETER X 12" DEEP

BASE SLAB: 3,000 psi 3" TOPPING SLAB: 3,000psi

ANCHOR BOLTS: 5/8" X 8" JBOLTS @ 3'-0" OC

CRUSHED STONE UNDER SLAB: 4" WITH VAPOR BARRIER (6 MIL POLY MIN)

FRAMING: #2 SYP KD

SILL PLATES: BOTTOM 2: 2X6 PLATES ON FOUNDATION SLAB

SINGLE TOP PLATE ON BOTTOM 2: #2 SYP PRESSURE TREATED.

NCRC TABLE R602.3(1) ATTACHMENT USED



CONDITIONS AND RECOMMENDATION FOR DUNTZ BARN
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TOP SILL PLATE: #2 SYP KD, 2X6, CONTINUOUS (NAILS 3" GLAV Nails per code)

STUDS: #2 SYP KD, 2X6, SPACING AT 3'-0" OC (PER CODE)

TOP PLATES: #2 SYP KD, CONTINUOUS (NAILS PER CODE), SECURED TO RAFTERS WITH SIMPSON MTL CLIPS

DOOR WINDOW HEADERS: 2-2X10 #2 SYP KD, (NCRBC R602.3(1)) EXTERIOR WALLS

TRANSVERSE WALLS ARE NOT LOAD BEARING, USED 2-2X10 #2 SYP KD

RAFTERS: #2 SYP KD, 2X10 @ 3'-0" OC (FREE SPACE SIDE WALL TO SIDE WALL), PER NC CODE)

COLLAR TIES: NOT REQUIRED, CENTER WALL LOAD BEARING

RIDGE BOARD SUPPORT: PROVIDE 3 1/2" X 3 1/2" #2 SYP POST UNDER RIDGE BEAM EVERY OTHER RATER MAX.

ROOF SPACERS: #2 SYP KD @ 3'-0" OC

EXTERIOR SIDING SPACERS: #2 SYP KD 2X6 @ 3'-0" OC AFF AND 6'-0" AFF EXTERIOR SIDING SHALL ACT AS BRACING AND SHEAR WALL.

EXTERIOR SHEATHING: NONE, BARN, NOT CONDITIONED

EXTERIOR SIDING: GALV METAL SIDING INSTALLED VERTICALLY

3 1/2" GLAV SCREWS @ 3'-0" OC, EACH STUD

WALL TIES: PROVIDE SIMPSON, INSTALL SIMPSON STRONG TIE CS (METAL STRAP) CUT TO LENGTH A TOP OF STUDS TO SECURE STUD TO TOP PLATE AND HL ANGLES AT EACH STUD BASE TO SECURE BOTTOM OF STUD TO SILL PLATE (PROVIDE 2 1/2" SCREWS FOR SECURING SILL PLATE)

PLUMBING: NONE

HVAC: SINGLE SMALL WINDOW AC UNIT

ELECTRICAL: 200 AMP PANEL CONNECTED TO REMOTE ONSITE EXISTING TRANSFORMER