

DESIGN LIVE LOADS:

Table listing design live loads for roof and floor levels, including uniform load, concentrated load, and supported mechanical equipment loads.

Table listing wood truss loads, including live load, dead load, top chord, and bottom chord.

Table listing loads on handrails, guards, grab bars, and vehicle barriers.

Table listing handrails and guards, including design load and transfer load.

Table listing wind loads, including basic design wind velocity, occupancy category, and importance factor.

Table listing roof loads, including roof area, zone 1, zone 2, zone 3, and zone 4.

Table listing seismic design parameters, including seismic design category, site class, mapped spectral acceleration, and site coefficient.

Table listing seismic force-resisting system, including light frame walls, structural panels, and system overstrength factor.

GENERAL NOTES:

- 1. THESE DRAWINGS SHALL BE USED WITH ARCHITECTURAL AND OTHER CONTRACT DOCUMENTS. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2018 EDITION OF THE NORTH CAROLINA STATE BUILDING CODE.

CONCRETE TESTING:

- 1. TESTING AGENCY OWNER WILL EMPLOY AND PAY FOR A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT SAMPLING AND TESTING FOR QUALITY CONTROL MAY INCLUDE THOSE SPECIFIED IN THIS ARTICLE.

STEEL TESTING:

- 1. TESTING AGENCY OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO INSPECT FIELD WELDS, MOMENT FRAME WELDS AND HIGH-STRENGTH BOLTED CONNECTIONS.

- 8. PROVIDE TESTING AGENCY WITH ACCESS TO PLACES WHERE STRUCTURAL STEEL WORK IS BEING FABRICATED OR PRODUCED SO REQUIRED INSPECTION AND TESTING CAN BE ACCOMPLISHED.

- 11. IN ADDITION TO VISUAL INSPECTION, SHOP-WELDED SHEAR CONNECTORS WILL BE INSPECTED AND TESTED ACCORDING TO AWS D1.1 AND THE INSPECTION PROCEDURES LISTED BELOW, AT TESTING AGENCY'S OPTION.

REINFORCING STEEL:

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, AND SHALL BE GRADE 60. REINFORCING STEEL THAT IS TO BE WELDED OR OTHERWISE INDICATED, SHALL BE ASTM A 706 GRADE 60.

CONCRETE:

- 1. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" UNLESS OTHERWISE NOTED ON THE CONTRACT DRAWINGS OR IN THE SPECIFICATIONS. COORDINATE CONCRETE WORK WITH OTHER TRADES BEFORE BEGINNING WORK.

Table listing concrete cast against and permanently exposed to earth, concrete exposed to earth or weather, and concrete not exposed to earth or weather.

CONCRETE MIXES:

- 1. ALL CONCRETE SHALL BE NORMAL WEIGHT (IN W) WITH A MAXIMUM UNIT WEIGHT OF 150 POUNDS PER CUBIC FOOT AND SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH AS SPECIFIED BELOW, FOR THE RESPECTIVE LOCATIONS.

- 1. LIGHT AGGREGATE, HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO THE STANDARD SPECIFICATION FOR HOLLOW CONCRETE MASONRY UNITS ASTM C-40. THE CONCRETE MASONRY UNITS SHALL BE GRADE N4 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1600 PSI ON THE NET CONCRETE MASONRY AREA.

- 1. TESTING AGENCY OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM SHOP INSPECTIONS AND TESTS AND TO PREPARE TEST REPORTS.

- 13. ANCHOR ROODS FOR ANCHOR RODS SHALL BE ALLOWED TO BE WET SET. ANCHOR RODS FOR SHALL BE POSITIONED WITH A MINIMUM CLEARANCE FROM THE REINFORCING STEEL.

- 14. ALL MASONRY SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE SHOWN.

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 FOR ALL W SHAPES AND ASTM A36 FOR ALL OTHER SHAPES RECTANGULAR HOLLOW STRUCTURAL STEEL (RHSS) SHALL CONFORM TO ASTM A500, GRADE C (Fy=50 ksi).

- 1. THE WOOD DESIGN AND CONSTRUCTION SHALL CONFORM TO: A. THE 2015 EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS) BY THE AMERICAN FOREST & PAPER ASSOCIATION (AF&PA) AND PROVISIONS THEREOF.

- 2. ALL FRAMED LUMBER SHALL BE (UNLESS OTHERWISE INDICATED IN THE DRAWINGS): A. STUDS AND TOP PLATES: SOUTHERN YELLOW PINE (SYP) NO. 2, 2x4.

- 2. BEAMS AND GIRDERS (INTERIOR EXPOSURE): 2.1E Parallam® PSL - Fy=2500 psi, Fv = 285 psi, E=2,000,000 psi

- 4. FOR LOAD-BEARING WALLS 9" TO 12" TALL - INSTALL ONE ROW OF WOOD BLOCKING AT STUD MID-HEIGHT. FOR LOAD-BEARING WALLS OVER 12" TO 16" TALL - INSTALL TWO ROWS OF WOOD BLOCKING AT STUD THIRD POINTS.

- 4. ROOF SHEATHING IS 1/2" OSB PERFORMANCE CATEGORY APA STRUCTURAL I RATED SHEATHING 4026. EXPOSURE 1, COMPLYING WITH PRODUCT STANDARD PS1 AND PS2.

- 1. DESIGN AND FABRICATION OF ALL PREMANUFACTURED WOOD TRUSSES SHALL CONFORM TO THE "2015 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" BY AWC, "TIMBER CONSTRUCTION STANDARD" BY AIA AND NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/TPI 1) BY TPI. ALL LUMBER SHALL BE SOUTHERN YELLOW PINE NO. 1 OR BETTER (NO. 3 FOR WEB MEMBERS IS ALLOWED).

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- 1. THE REPORTED MAXIMUM NET ALLOWABLE BEARING PRESSURE USED IN DESIGN IS 3000 PSF ON SUITABLE RESIDUAL SOIL OR PROPERLY COMPACTED STRUCTURAL FILL FOR WALL AND COLUMN FOOTINGS.

THE ARCHITECT/ENGINEER DOES NOT DEFINE THE SCOPE OF INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS, OR VENDORS. ANY SHEET NUMBERING SYSTEM USED WHICH IDENTIFIES DISCIPLINES IS SOLELY TO DEFINE A SUBCONTRACTOR'S SCOPE OF WORK. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, CODES OR CONSTRUCTION SEQUENCING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING. NO CONSIDERATION WILL BE GIVEN TO REQUESTS FOR CHANGE ORDERS FOR FAILURE TO OBTAIN AND REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, OR FOR FAILURE TO SEEK INTERPRETATION FROM ARCHITECT FOR DISCREPANCIES.

Professional seal for North Carolina Professional Engineer, Seal No. 18427, signed by Alan A. Strickland, dated 6/05/20.

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Advertisement for Strickland Brothers 10 Minute Oil Change, located at 810 South Main Street, Graham, NC.

Revision table with columns for Revision Number, Date, and Description. Includes project information: AEI PROJECT #: 20065, CONTENT: STRUCTURAL GENERAL NOTES.

Project information including Engineer of Record (LDA), Drawn by (DS), and Sheet number (S-0.1). Includes contact information for ARP Engineering Consulting Engineers.

