

EXISTING CONSTRUCTION

THE GENERAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY ALL EXISTING BUILDING CONSTRUCTION. THIS COORDINATION INCLUDES THE MATERIALS AND TYPES OF EXISTING CONSTRUCTION, ALL DIMENSIONS OF EXISTING CONSTRUCTION (HORIZONTAL AND VERTICAL DIMENSIONS, WALL THICKNESS, TOP OF FOOTING ELEVATIONS, SLAB THICKNESS, ETC.) AND ANY OTHER CONDITIONS OF EXISTING CONSTRUCTION WHICH RELATES TO NEW WORK.

THE GENERAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY ALL DIMENSIONS RELATING TO EXISTING AND NEW CONSTRUCTION PRIOR TO THE SUBMITTAL OF ANY SHOP DRAWINGS FOR APPROVAL AND PRIOR TO RELEASING ANY MATERIALS FOR FABRICATION.

THE GENERAL CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE METHODS AND MEANS USED IN SHORING, BRACING AND SUPPORTING THE EXISTING CONSTRUCTION WHILE ERECTING AND INSTALLING THE NEW CONSTRUCTION. THIS RESPONSIBILITY APPLIES TO THE ENTIRE PROJECT, TO INCLUDE THE SHORING, BRACING AND SUPPORTING OF FLOOR AND ROOF CONSTRUCTION ALONG WITH ANY EXISTING WALLS (BOTH LOAD BEARING AND NON-LOAD BEARING) WHICH ARE TO REMAIN IN THE EXISTING BUILDINGS. COORDINATION WITH THE CONTRACT DOCUMENTS IS TO INCLUDE BOTH THE ARCHITECTURAL DEMOLITION DRAWINGS AND ALL CONTRACT DRAWINGS OF NEW WORK.

SHORING, BRACING AND SUPPORTING OF EXISTING CONSTRUCTION SHALL BE DONE IN A MANNER TO PROVIDE COMPLETE SAFETY TO ALL PERSONNEL AND TO THE PUBLIC. WORK SHALL BE DONE IN A MANNER TO PREVENT DAMAGE BOTH TO EXISTING AND NEW CONSTRUCTION.

THIS WORK SHALL MEET ALL SAFETY REQUIREMENTS OF LOCAL, STATE AND FEDERAL AUTHORITIES OR GOVERNING AGENCIES. THE CONTRACTOR MAY VISIT THE PROJECT SITE TO REVIEW THE EXISTING BUILDING PRIOR TO BIDDING THE PROJECT.

STRUCTURAL DESIGN CRITERIA

APPLICABLE BUILDING CODES:

NORTH CAROLINA STATE BUILDING CODE (2012 EDITION)  
(INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION WITH NORTH CAROLINA AMENDMENTS.

REFERENCED STANDARDS:

- ACI - AMERICAN CONCRETE INSTITUTE
318-08 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
530-08 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
530.1-08 SPECIFICATIONS FOR MASONRY STRUCTURES.
AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
341-05, ANSI/AISC 341-05 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.
STEEL CONSTRUCTION MANUAL, THIRTEENTH EDITION.
360-05, SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
305-05, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
AISI - AMERICAN IRON AND STEEL INSTITUTE
S100-07 NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
S200-07 NAS COLD-FORMED STEEL FRAMING, GENERAL PROVISIONS.
S214-07 NAS COLD-FORMED STEEL FRAMING, TRUSS DESIGN, SUPPLEMENT 2 (2008).
2007 COLD FORMED STEEL DESIGN MANUAL.
ASCE/SEI - AMERICAN SOCIETY OF CIVIL ENGINEERS
5-05 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
6-05 SPECIFICATIONS FOR MASONRY STRUCTURES.
7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
AWS - AMERICAN WELDING SOCIETY
D1.1-04 STRUCTURAL WELDING CODE - STEEL.

Table with 2 columns: Item Name and Value. Includes FLOOR LIVE LOADS (100 PSF), ROOF LIVE LOAD (20 PSF), ROOF RAIN LOAD (23.4 PSF), ROOF SNOW LOAD (16.6 PSF), and WIND LOADS (SEI/ASCE 7-05).

COMPONENTS & CLADDING: ALL BUILDING COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR WIND LOADS DETERMINED PER THE 2012 NORTH CAROLINA STATE BUILDING CODE FOR THE BASIC DESIGN WIND VELOCITY, (MRI 50 YR), IMPORTANCE FACTOR, AND EXPOSURE LISTED ABOVE. EXTERNAL PRESSURE COEFFICIENT, GCP MAY BE CALCULATED BASED ON EFFECTIVE WIND AREA FOR EACH COMPONENT, MINIMUM AREA 10 SF. NO FURTHER REDUCTION TO THE CALCULATED PRESSURES ARE ALLOWED FOR STRENGTH OR DEFLECTION CALCULATION.

Table with 2 columns: Zone/Type and Wind Pressure (P). Includes ZONE 1 (+P = 10.0 psf, -P = -22.7 psf), ZONE 2 (+P = 10.0 psf, -P = -38.1 psf), ZONE 3 (+P = 10.0 psf, -P = -51.4 psf), OVERHANG ZONE 1 (+P = 0.0 psf, -P = -32.7 psf), OVERHANG ZONE 2 (+P = 0.0 psf, -P = -55.9 psf), WALLS ZONE 4 (+P = 10.0 psf, -P = -22.5 psf), WALLS ZONE 5 (+P = 10.0 psf, -P = -27.1 psf).

SEISMIC LOADS (SEI/ASCE 7-05): ANALYTICAL PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE. SEISMIC CLASSIFICATION: D. OCCUPANCY CATEGORY: III. SEISMIC RESISTANCE FACTOR: 1.25. SEISMIC DESIGN CATEGORY: C. EFFECTIVE SPECTRAL RESPONSE ACCELERATION (SC=B). SHORT PERIOD: Ss = 0.257 g. LONG PERIOD: Sl = 0.088 g. SITE COEFFICIENT, (FUNCTION OF SITE CLASS WITH Ss AND Sl): Fa = 1.600. 1 SECOND PERIOD: Fv = 2.400. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS. SHORT PERIOD: Sds = 0.255 g. LONG PERIOD: Sdl = 0.141 g. PEAK GROUND ACCELERATION: PGA = 0.15g. BASIC SEISMIC-FORCE-RESISTING SYSTEM: MAIN BUILDING, NORTH/SOUTH: BUILDING FRAME SYSTEM: ORDINARY STEEL CONCENTRICALLY BRACED FRAMES. MAIN BUILDING, EAST/WEST: BUILDING FRAME SYSTEM: MOMENT RESISTING FRAME IN STEEL. STRUCTURALLY STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR AISC SEISMIC PROVISIONS, PART I, (ANSI/AISC 341-05).

ANALYSIS PROCEDURE: EQUIVALENT LATERAL-FORCE ANALYSIS. DESIGN COEFFICIENTS AND FACTORS: RESPONSE MODIFICATION FACTOR: R = 3.0 N5. DEFLECTION AMPLIFICATION FACTOR: Cd = 3.0 N5. SYSTEM OVER-STRENGTH FACTOR: Sds = 3.0 N5. ALLOWABLE STORY DRIFT: delta = 0.015max. LONG PERIOD TRANSITION PERIOD: TL = 0 SEC. SEISMIC RESPONSE COEFFICIENT: Cs = 0.105. SEISMIC DESIGN BASE SHEAR: Vx = 10.8 kips, N5. Vy = 10.8 kips, E/W.

ABBREVIATIONS

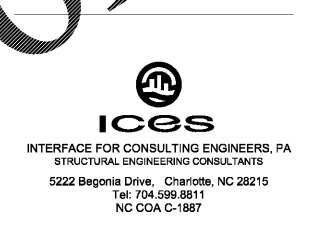
Table of abbreviations with 3 columns: Symbol, Description, and Full Name. Includes symbols like #, @, CL, >, <, #, AB, AR, ACI, ADD, ADDL, AFF, AHU, AISC, AISI, ALT, ARCH, ASTM, AMS, AHS, BCX, BF, BFF, BLDG, BM, BOD, BOS, BOTT, BR, BRG, CAN, CFS, C/J, C/P, C/S, C/T, C/W, CON, CONCT, CONTR, CIP, COL, CONC, CONT, CNTR, CRCB, CTRD, d, DA, DBA, DBE, DEFL, DEPR, DET, DIA, DIAG, DIM, DIST, DL, DWS(S), DWS(S), EA, EE, EF, EJ, EL, ELEV, ELEV, EMBED, ENGR, EOP, EOS, EQ, EQUIP, EM, EXIST, EXP, EXT, FD, FDN, FFE, FHB, FLR, FOB, FOCM, FOEB, FOM, FOS, FOW, FS, FT, FTG, FV, GA, GALV, GB, HD, HI, HORIZ, HS, HSS, IN, INT, JBE, JST, JT, K, KB, KSI.

SYMBOL LEGEND

Table of symbols and their meanings. Includes symbols like F, C, P, PC, SB, CPT, RD, EL, BRICK, CONCRETE, CONCRETE MASONRY UNIT.



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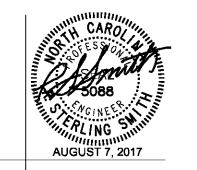


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Table with 2 columns: TAG, DESCRIPTION, DATE.

GENERAL NOTES & ABBREVIATIONS

CLEMMONS FIRST BAPTIST CHURCH NARTHEX ADDITION



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