

GENERAL NOTES:

- 1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2012 EDITION.
3. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
4. DESIGN CRITERIA:
CLASSIFICATION OF BUILDING
OCCUPANCY CATEGORY II
LIVE LOADS - UNIFORM:
SLAB ON GRADE 100 PSF
ROOF 20 PSF
LIVE LOADS - CONCENTRATED:
ROOFS 300#

UNLESS OTHERWISE NOTED, CONCENTRATED LOADS ARE APPLIED UNIFORMLY OVER 2'-6" x 2'-6" AREA.

SNOW LOADS:
GROUND SNOW LOAD 10 PSF
SLOPED ROOF LOAD 10 PSF
IMPORTANCE FACTOR (Is) 1.0
THERMAL FACTOR (Ct) 1.0
EXPOSURE FACTOR (Ce) 1.0

WIND LOADS:
BASIC WIND SPEED 115 MPH
EXPOSURE CATEGORY C
IMPORTANCE FACTOR (Iw) 1.0
INTERNAL PRESSURE COEFFICIENT ±0.18
COMPONENT AND CLADDING PRESSURES:
WALLS, ZONE 5 (10 SF) 33 PSF
ROOF, ZONE 3 (10 SF) 67 PSF
WIND BASE SHEARS (FOR MWFRS):
Vx 2 KIPS
Vy 2 KIPS

SEISMIC LOADS:
SITE CLASSIFICATION D (PRESUMPTIVE)
SEISMIC DESIGN CATEGORY C
IMPORTANCE FACTOR (Ie) 1.0
SPECTRAL RESPONSE ACCELERATIONS:
Ss 22.1%g
SMS 35.4%g
Sds 23.6%g
S1 9.8%g
SM1 23.6%g
SD1 15.8%g
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
BASIC STRUCTURAL SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
RESPONSE MODIFICATION COEFFICIENT (R) 3.0
SEISMIC RESPONSE COEFFICIENT (Cs) 0.0697
SEISMIC BASE SHEAR (V) 1.2 KIPS

LATERAL DESIGN CONTROL
CONTROLLING LATERAL LOADS WIND

FOUNDATION NOTES:

- 1. FOUNDATIONS HAVE BEEN DESIGNED FOR A PRESUMPTIVE NET ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF.
2. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE TESTING AGENCY TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED WHERE REQUIRED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROL OF GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING SHALL BE PREVENTED.

CAST-IN-PLACE CONCRETE NOTES:

- 1. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
A. SLAB-ON-GRADE 3,500 PSI
B. CONCRETE NOT OTHERWISE NOTED 3,000 PSI
3. REINFORCING MATERIALS SHALL BE AS FOLLOWS:
A. REINFORCING BARS - ASTM A 615, GRADE 60, DEFORMED.
B. WELDED WIRE REINFORCEMENT - ASTM A 185, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.
4. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES SHALL BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
5. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.
6. LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A 36, Fy = 36 KSI
B. STRUCTURAL STEEL W-SHAPES - ASTM A 992, Fy = 50 KSI
C. HOLLOW STRUCTURAL SECTIONS (HSS): SQUARE AND RECTANGULAR - ASTM A 500, GRADE B, Fy = 46 KSI
D. ANCHOR RODS - ASTM F 1554, GRADE 36
E. HIGH STRENGTH BOLTS - ASTM A325 (TYPICAL UON)
F. FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)
G. WASHERS - ASTM F 436
H. NUTS - ASTM A 563

- 3. NON COMPOSITE BEAMS SHALL BE AISC "SIMPLE SHEAR CONNECTION" WITH ASTM A325 BOLTS. DESIGN CONNECTIONS FOR 6 KIPS OF REACTIONS (AS MINIMUM).
4. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING.
5. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES SHALL BE E70XX LOW HYDROGEN, UNLESS OTHERWISE NOTED. PROVIDE CONTINUOUS FILLED WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.

- 6. HOT DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
A. ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
B. ITEMS IDENTIFIED BY GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.

ROUGH CARPENTRY NOTES:

- 1. ROUGH CARPENTRY SHALL BE IN ACCORDANCE WITH THE AMERICAN WOOD COUNCIL (AWC) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."
2. UNLESS OTHERWISE NOTED, USE "COMMON" NAILS AND ALL NAILING SHALL CONFORM TO THE "FASTENING SCHEDULE" TABLE 2304.9.1 OF THE BUILDING CODE.
3. WOOD FRAMING MEMBERS SHALL COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND THE FOLLOWING REQUIREMENTS:
A. MOISTURE CONTENT - SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT.
B. GRADE - NO. 2, OR BETTER UNLESS OTHERWISE NOTED.
C. SPECIES - SPRUCE-PINE-FIR (SOUTH) UNDER WWSA RULES.
4. WOOD STRUCTURAL PANELS (WSP) SHALL COMPLY WITH PS 1 "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" FOR PLYWOOD CONSTRUCTION PANELS AND THE FOLLOWING REQUIREMENTS:
A. ROOF SHEATHING: 15/32" INCH, APA RATED SHEATHING, EXPOSURE 1 DURABILITY CLASSIFICATION. PROVIDE TONGUE-AND-GROOVE EDGES OR USE "PLY-CLIPS" AT MID-SPAN BETWEEN EACH SUPPORT.
5. METAL FRAMING ANCHORS, HOLD DOWNS, HURRICANE TIES, HANGERS, ETC. SHALL COMPLY WITH ASTM A 653 AND BE CAPABLE OF SUPPORTING THE REACTIONS SHOWN. WHERE PRODUCTS OF A SPECIFIC MANUFACTURER ARE SHOWN, EQUAL PRODUCTS OF ANOTHER MANUFACTURER MAY BE USED IF APPROVED.

ROUGH CARPENTRY NOTES cont:

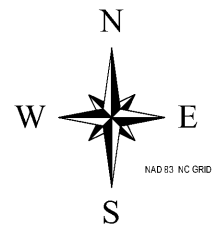
- 6. PROVIDE BRIDGING FOR ALL ROOF TRUSSES. MAXIMUM SPACING SHALL BE 8'-0", UNLESS OTHERWISE NOTED.
7. UNLESS OTHERWISE NOTED, ATTACH BLOCKING AND NAILERS TO STEEL FRAMING USING 3/16 INCH DIAMETER POWDER ACTUATED FASTENERS AT 24 INCHES ON CENTER OR 1/2 INCH DIAMETER BOLTS AT 48 INCHES ON CENTER. STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.
8. WHERE MULTIPLE FRAMING MEMBERS ARE INDICATED, SCAB CONTINGENT MEMBERS TOGETHER WITH 16d NAILS AT 12 INCHES ON CENTER, ALTERNATING AT 2 INCHES FROM EACH EDGE.
9. ALL CONNECTION HARDWARE IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED COATED.
10. POWDER ACTUATED FASTENERS (PAF) SHALL HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS UNLESS OTHERWISE NOTED:
A. STEEL: SHEAR = 600 LBS
TENSION = 250 LBS
B. CONCRETE: SHEAR = 260 LBS
TENSION = 255 LBS

COLD-FORMED METAL FRAMING NOTES:

- 1. COLD-FORMED METAL FRAMING SHALL BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS."
2. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". TOUCH UP ALL WELDS WITH SPECIFIED COATING SYSTEMS.
3. COLD-FORMED METAL FRAMING MEMBERS SHALL CONFORM TO ASTM C 955, AND BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A 653 AND ASTM C 955 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL AND THINNER MEMBERS, AND 50 KSI FOR ALL OTHER MEMBERS.
4. MEMBER SECTION PROPERTIES SHALL CONFORM TO PART 'I' OF THE "COLD-FORMED STEEL DESIGN MANUAL."
5. PROVIDE BRIDGING LINES AT 4'-0" MAXIMUM ON CENTER IN ALL WALLS UNLESS OTHERWISE INDICATED. BRIDGING SHALL BE FULLY INSTALLED AND ANCHORED BEFORE SUPERIMPOSING LOADS ONTO THE STUDS.

ABBREVIATIONS:

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes terms like FF (ABOVE FINISHED FLOOR), ARCH (ARCHITECT), BLDG (BUILDING), BOT (BOTTOM OF DECK), etc.



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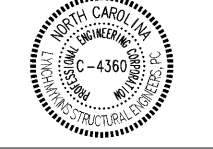
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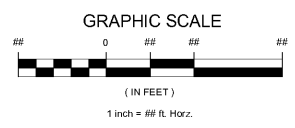


NOTICE: THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN ALL DIMENSIONS TO THE RIGHT ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND ACCEPTS TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



PLAN LEGEND:

- (X) = PLAN KEY NOTE MARK
(X/SX) = SECTION/DETAIL MARK
(SX) = SECTION/DETAIL NUMBER/LETTER
CFX = COLUMN FOOTING MARK



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STATE EMPLOYEES' CREDIT UNION - CHARLOTTE - ALBEMARLE RD REMOTE ATM ADDITIONS
GENERAL NOTES
PROJECT: STATE EMPLOYEES' CREDIT UNION - CHARLOTTE - ALBEMARLE RD REMOTE ATM ADDITIONS
SHEET TITLE:
PROJECT MANAGER: CBR
FIELD SURVEY DATE:
CHECKED BY: CBR
DRAWING DATE: 02/07/2020
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JOB #: NCE01.23
SHEET: S001-1