

- GENERAL NOTES:
- THESE DRAWINGS SHALL BE USED WITH ARCHITECTURAL AND OTHER CONTRACT DOCUMENTS. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA STATE BUILDING CODE (2015 IBC).
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING OF THE STRUCTURE AND COMPONENTS UNTIL ALL COMPONENTS ARE ERECTED AND ALL CONNECTIONS ARE FULLY MADE. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL FRAMING IS COMPLETED AND ALL MASONRY CONSTRUCTION AT PERIMETER IS COMPLETED AND THE ROOF DECK CONNECTIONS ARE COMPLETED. CONTRACTOR SHALL BRACE ALL WALLS DURING CONSTRUCTION AGAINST WIND OR CONSTRUCTION LOADS.
 - THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS THROUGH ROOFS, FLOORS AND WALLS. VERIFY WITH THE TENANT, ARCHITECT AND VARIOUS TRADES AND AS REQUIRED. OPENINGS NOT SO VERIFIED SHALL BE MODIFIED, IF REQUIRED, AT NO ADDITIONAL COST.
 - EQUIPMENT PADS SHALL BE PROVIDED BY THE MECHANICAL, ELECTRICAL, OR PLUMBING CONTRACTORS REQUIRING THE PAD.
 - CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, PROCEDURES AND SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - THE GENERAL CONTRACTOR SHALL VERIFY ALL NEW AND EXISTING DIMENSIONS PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENTS. NOTIFY ARCHITECT IMMEDIATELY IF DIMENSIONAL CONFLICTS EXIST.

- SPECIAL INSPECTIONS:
- SPECIAL INSPECTIONS ARE NOT REQUIRED FOR THIS PROJECT.
- SHOP DRAWINGS:
- SUBMIT SHOP DRAWINGS ON ALL MATERIALS FOR REVIEW BEFORE FABRICATION. THE CONTRACT DRAWINGS SHALL NOT BE USED AS BASE DRAWINGS FOR SHOP DRAWINGS. SHOP DRAWINGS SUBMITTED FOR REVIEW WHICH WERE PREPARED WITH CONTRACT DRAWINGS USED AS BASE DRAWINGS WILL BE REJECTED.
 - ALL SUBMITTALS TO ENGINEER FOR REVIEW SHALL BE PREVIOUSLY REVIEWED BY THE CONTRACTOR, WITH HIS APPROVAL STAMPED ON THE DRAWINGS, DATED AND SIGNED. SUBMITTALS NOT CONFORMING SHALL BE SUFFICIENT REASON FOR REJECTION BY THE ENGINEER.

- STEEL:
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 FOR ALL W SHAPES AND ASTM A36 FOR ALL OTHER SHAPES. RECTANGULAR HOLLOW STRUCTURAL STEEL (TUBE) SHALL CONFORM TO ASTM A500, GRADE B ($F_y=46 \text{ ksi}$). ROUND HOLLOW STRUCTURAL STEEL (PIPE) SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B. ANCHOR BOLTS SHALL BE WELDABLE AND SHALL CONFORM TO ASTM F1554 GRADE 36 OR 55 WITH WELDABILITY SUPPLEMENT S1.
 - THE STRUCTURAL STEEL SHALL BE FABRICATED BY A QUALIFIED FABRICATOR WHO PARTICIPATES IN THE AISC CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC CERTIFIED PLANT, CATEGORY STD AT TIME OF BID. OR THE STRUCTURAL STEEL FABRICATOR MUST DEMONSTRATE A CONSISTENT RECORD OF AT LEAST 10 (TEN) SUCCESSFUL PROJECTS OF EQUAL OR GREATER MAGNITUDE OVER THE PRECEDING ONE YEAR. THE CONTRACTOR SHALL SUBMIT EVIDENCE IN WRITING VERIFYING ONE OF THE ABOVE REQUIRED QUALIFICATIONS.
 - THE STRUCTURAL STEEL SHALL BE ERECTED BY A QUALIFIED INSTALLER WHO PARTICIPATES IN THE AISC CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC CERTIFIED ERECTOR, CATEGORY CSE [ACSE] AT TIME OF BID.
 - BOLTED CONNECTIONS - 3/4" INCH DIAMETER A325-X, TYPE 1 BOLTS UNLESS NOTED OTHERWISE. USE 3/4" INCH DIAMETER A325-X, TYPE 1 BOLTS FOR EXPOSED EXTERIOR CONDITIONS. NON-FRAME BEAM CONNECTIONS MAY BE DESIGNED FOR THE REACTIONS SHOWN ON THE PLANS. IF NO REACTION IS SHOWN, THE CONNECTION SHALL BE DESIGNED ACCORDING TO THE MAXIMUM TOTAL FACTORED UNIFORM LOAD FOR THE APPROPRIATE BEAM SECTION AND SPAN AS DETERMINED FROM THE STEEL BEAM SELECTION TABLES IN THE AISC MANUAL, THIRTEENTH EDITION. FRAME MEMBERS SHALL BE DESIGNED ACCORDING TO THE NOTES AND LOADS INDICATED IN THE PLANS AND ELEVATIONS.
 - BOLTED CONNECTIONS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, APPROVED JUNE 23, 2000. ALTERNATE DESIGN BOLTS OR DIRECT TENSION INDICATOR DEVICES WILL BE ACCEPTED ONLY BY WRITTEN APPROVAL OF THE ENGINEER. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 8 OF THE SPECIFICATION. AN INDEPENDENT TESTING AGENCY SHALL INSPECT ALL BOLTED CONNECTIONS IN ACCORDANCE WITH SECTION 9 OF THE SPECIFICATION AND REPORT IN WRITING TO THE CONTRACTOR AND ARCHITECT.
 - ALL SHOP AND FIELD WELDING SHALL BE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS STANDARDS. USE E70XX ELECTRODES UNLESS NOTED OTHERWISE. CURRENT AWS CERTIFICATIONS SHALL BE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE ARCHITECT OR ENGINEER. NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS BY ANY TRADE WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
 - ALL BEAMS AND PRIMARY BRACING MEMBERS SHALL BE SECURED WITH AT LEAST 2 BOLTS PRIOR TO REMOVAL OF HOISTING CABLES.
 - IN CONDITIONS WHERE BEAMS FRAME WITH DOUBLE ANGLE FRAMING CONNECTIONS FROM BOTH SIDES OF A COLUMN WEB, OR BEAM WEB OVER A COLUMN, THE FABRICATOR SHALL FABRICATE THE CONNECTION SO THAT THE FIRST BEAM ERECTED TO THE CONNECTION SHALL HAVE AT LEAST ONE BOLT AND WRENCH-TIGHTENED NUT SECURING THE FIRST BEAM AT ALL TIMES. THE CONNECTION SHALL BE DETAILED SO THAT EITHER BEAM MAY BE CONSIDERED THE FIRST BEAM ERECTED. ALTERNATIVELY, A SEAT ANGLE AT THE FACE OF THE COLUMN FOR ERECTION, OR OTHER METHOD SATISFYING OSHA REQUIREMENTS, MAY BE USED IF CONDITIONS PERMIT.
 - ALL EXPOSED STRUCTURAL STEEL SHALL BE GALVANIZED. SUBMIT WITH SHOP DRAWINGS FOR REVIEW.
 - ALL STRUCTURAL STEEL SHALL RECEIVE A STANDARD SHOP PRIMER PAINT, EXCEPT AT WELDING LOCATIONS. SUBMIT WITH SHOP DRAWINGS FOR REVIEW.
- MASONRY:
- LIGHT AGGREGATE, HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO THE STANDARD SPECIFICATION FOR HOLLOW CONCRETE MASONRY UNITS ASTM C-90. THE CONCRETE MASONRY UNITS SHALL BE GRADE N-11 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET CONCRETE MASONRY AREA, AVERAGE OF THREE UNITS, WITH AN ASSUMED COMPRESSIVE STRENGTH OF MASONRY, 1m, OF 1500 PSI MINIMUM. SUBMIT EVIDENCE IN WRITING TO THE ARCHITECT TO SUBSTANTIATE THESE VALUES.
 - USE TYPE S MORTAR WITH A MINIMUM AVERAGE 28-DAY COMPRESSIVE STRENGTH OF 1800 PSI. TYPE S MORTAR SHALL CONFORM TO ASTM C270. MORTAR SHALL BE PCL (PORTLAND CEMENT SHALL COMPLY WITH ASTM C150 TYPE I OR III) AND HYDRATED LIME SHALL COMPLY WITH ASTM C207) OR MORTAR CEMENT ASTM C 1329, TYPE S. DO NOT USE MASONRY CEMENT.
 - THE ACI BUILDING CODE REQUIREMENTS FOR MASONRY CONSTRUCTION (ACI 530/ASCE 5) SHALL APPLY FOR ALL CONCRETE MASONRY UNITS CONSTRUCTION AND BRICK MASONRY CONSTRUCTION. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS FOR COLD WEATHER MASONRY CONSTRUCTION. CONTROL JOINT SPACING FOR CMU CONSTRUCTION SHALL NOT EXCEED THAT RECOMMENDED BY NCM FOR THE HEIGHT AND THICKNESS OF THE WALL FOR GRADE N-11 CONCRETE MASONRY, 24" MAXIMUM. DO NOT EXTEND CONTROL JOINTS THROUGH MASONRY LINTELS.
 - HOLLOW CONCRETE MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS AND WEBS. USE HORIZONTAL JOINT REINFORCEMENT AT 16" OC IN ALL CMU WALLS.
 - USE FINE AGGREGATE GROUT WHERE SPACE TO BE FILLED IS LESS THAN 2 INCHES IN ANY DIMENSION. OTHERWISE, USE COARSE AGGREGATE GROUT. AGGREGATES FOR MASONRY GROUT SHALL CONFORM TO ASTM C 404. COURSE AGGREGATE SHALL BE ASTM C33, NO. 8 OR NO. 89 WITH A MAXIMUM 3/8" AGGREGATE SIZE. MASONRY GROUT SHALL CONFORM TO THE VOLUME PROPORTIONS OF TABLE 1, ASTM C476. MAXIMUM LIFT IS 4'-0" ROD EACH LIFT TO CONSOLIDATE GROUT. GROUT FOR HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C 476 WITH AN 8" TO 11" SLUMP.
 - FILL ALL CELLS OF ALL CONCRETE MASONRY UNITS SOLID WITH GROUT BELOW GRADE.
 - USE CORNER BARS IN BOND BEAMS AND AT CORNERS OF EACH RUN OF LONGITUDINAL REINFORCING. CORNER BARS SHALL BE THE SAME SIZE AND SPACING AS LONGITUDINAL BARS. OVERLAP STEPS IN BOND BEAMS BY 8 FEET.
 - ALL VERTICAL REINFORCING SHALL BE ACCURATELY LOCATED WITH VERTICAL REINFORCING BAR POSITIONERS IN THE CELLS AND BED JOINTS. LOCATE PER MANUFACTURERS RECOMMENDATIONS.
 - ALL MASONRY SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE SHOWN.

1 EXISTING ROOF FRAMING PLAN
S1.02 3/32" = 1'-0"

SHEET NOTES

- COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.
- G.C. VERIFY THE LOCATION AND WEIGHT OF ALL NEW MECHANICAL UNITS TO BE SUPPORTED FROM THE EXISTING ROOF STRUCTURE. NOTIFY ARCHITECT/ENGINEER PRIOR TO FABRICATION AND INSTALLATION IF LOCATIONS AND WEIGHTS VARY FROM THOSE SHOWN.
- THE G.C. IN COORDINATION WITH THE ENGINEER SHALL FIELD VERIFY EXISTING SUPPORTING MEMBER SIZES AND DIMENSIONS AS REQUIRED. SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION AND INSTALLATION.
- PROVIDE NEW JOIST WEB STIFFENERS AT NEW CONCENTRATED LOADS ON EXISTING JOISTS - SEE DETAIL 2/S5.01
- PROVIDE A NEW ANGLE FRAME AT NEW ROOF OPENINGS AND AT NEW MECHANICAL UNITS SUPPORTED ON THE EXISTING ROOF - SEE DETAIL 1/S5.01
- ROUTE NEW DUCT WORK & PLUMBING SO THE EXISTING ROOF FRAMING IS NOT AFFECTED.

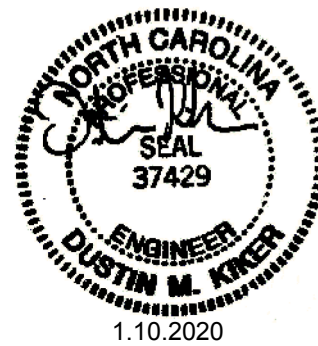


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ROOF FRAMING PLAN

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S1.02

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