

**GENERAL NOTES**

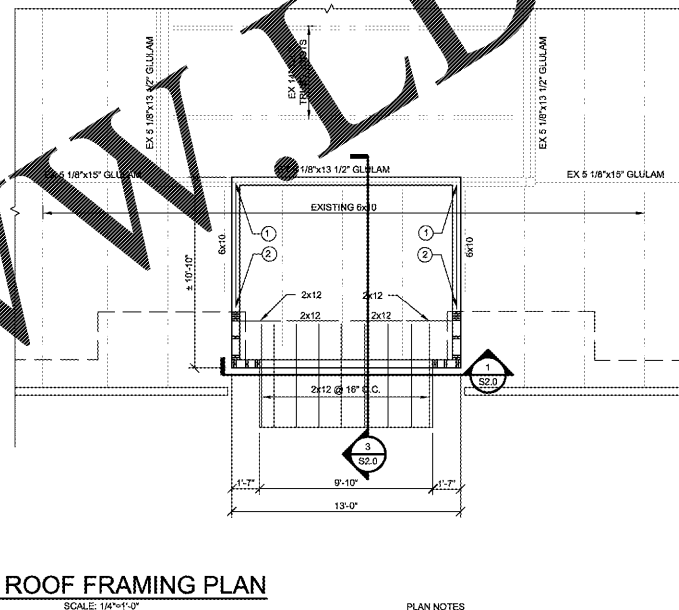
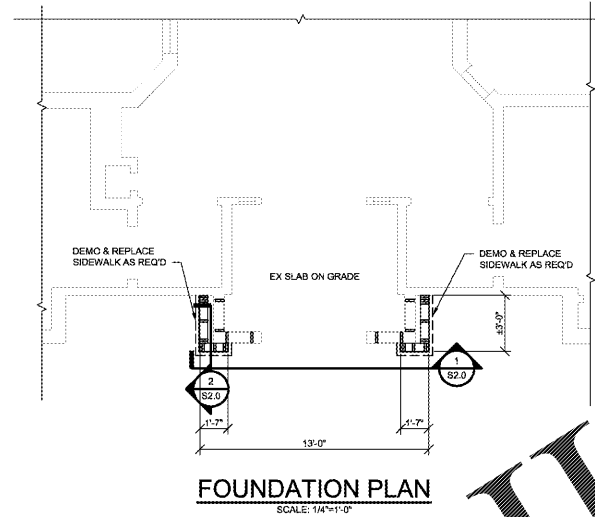
- I. GENERAL
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS.
  - IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
  - THE GENERAL CONTRACTOR SHALL COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN DISCIPLINES AND WITHIN A GIVEN DISCIPLINE TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION.
  - IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR THE SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
  - THE CONTRACTOR SHALL COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO THOSE FOR OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, AND MECHANICAL PLANS.
  - ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER CONDITIONS OF ANY EXISTING STRUCTURES OR OTHER FEATURES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS REPORTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
  - UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
  - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND FOR SAFETY PRECAUTIONS AND PROGRAMS.
  - BRITT, PETERS & ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR OR FOR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

- II. DESIGN CRITERIA
- A. THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE 2012 INTERNATIONAL BUILDING CODE.
- B. LIVE LOADS
- LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD LISTED BELOW OR THE CONCENTRATED LOAD ACTING OVER A 25 SQUARE FOOT AREA EXCEPT FOR PARKING GARAGES WHICH ACT OVER AN AREA OF 20 SQUARE INCHES. LIVE LOADS HAVE BEEN REDUCED AS PRESCRIBED IN THE AFORESAID BUILDING CODE.
- | CATEGORY                             | UNIFORM LOAD (PSF) | CONCENTRATED LOAD (LBS) |
|--------------------------------------|--------------------|-------------------------|
| a. ROOFS                             |                    |                         |
| ALL ROOF SURFACES SUBJECT TO WORKERS |                    | 300                     |
| ORDINARY ROOF                        | 20                 |                         |
- D. DESIGN SNOW LOAD:
- |                        |    |        |
|------------------------|----|--------|
| GROUND SNOW LOAD       | PG | 15 PSF |
| FLAT ROOF SNOW LOAD    | PF | 20 PSF |
| EXPOSURE FACTOR        | CE | 1.0    |
| SNOW THERMAL FACTOR    | CT | 1.0    |
| SNOW IMPORTANCE FACTOR | I  | 1.0    |
- E. DESIGN WIND LOADS:
- |                         |      |                         |
|-------------------------|------|-------------------------|
| BASIC WIND SPEED        | Vult | 115 MPH (3 SECOND GUST) |
| BASIC WIND SPEED        | Vamb | 90 MPH (3 SECOND GUST)  |
| WIND IMPORTANCE FACTOR  | I    | 1.0                     |
| EXPOSURE                | B    |                         |
| INTERNAL PRESSURE COEFF | GCP1 | ±0.18                   |
- F. SEISMIC LOADS:
- |                                                    |       |        |
|----------------------------------------------------|-------|--------|
| SHORT PERIOD SPECTRAL RESPONSE ACCELERATION        | SS    | 0.446g |
| 1-SEC PERIOD SPECTRAL RESPONSE ACCELERATION        | S1    | 0.186g |
| SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION | SDS   | 0.429g |
| 1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION | SD1   | 0.255g |
| RISK CATEGORY                                      | GROUP | A      |
| SEISMIC DESIGN CATEGORY                            | D     |        |
- G. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS, LOCATIONS AND ASSOCIATED OPENINGS WITH THE MECHANICAL CONTRACTOR AND SUBMIT SUCH INFORMATION PRIOR TO FABRICATION OF THE SUPPORTING STRUCTURE. PROMPTLY NOTIFY THE ENGINEER IF THE ACTUAL WEIGHT EXCEEDS THE WEIGHT SHOWN ON THE STRUCTURAL DRAWINGS.

- III. CONCRETE
- A. CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- CONCRETE 28 DAY COMPRESSIVE STRENGTH AND DENSITY REQUIREMENTS:
- | USAGE                                   | STRENGTH (PSI) | CONE TYPE | COMMENTS |
|-----------------------------------------|----------------|-----------|----------|
| a. ALL CONCRETE NOT OTHERWISE SPECIFIED | 3000           | NWT       |          |
- NWT = NORMAL WEIGHT CONCRETE
  - ALL CONCRETE SHALL HAVE ALLOWABLE UNIT SHRINKAGE OF 0.04% AT 28 DAYS. (SEE ASTM C157)
  - ALL SLABS TO RECEIVE MOISTURE SENSITIVE FLOOR COVERINGS SHALL HAVE MAXIMUM WATER/CEMENT RATIO OF 0.45.
  - EXTERIOR CONCRETE SLABS SHALL HAVE 4% TO 6% ENTRAINED AIR
  - ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE"
  - PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.
  - ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C 33.
  - ALL REINFORCEMENT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
    - ALL REINFORCING, UNO: ASTM A615 GRADE 60
  - WELDED WIRE REINFORCEMENT (WWR):
    - SMOOTH WIRE: ASTM A 185 (65 KSI)
    - DEFORMED WIRE: ASTM A 487 (70 KSI)
    - POLYPROPYLENE FIBRILLATED FIBER MAY BE USED TO SUBSTITUTE WWR IN SLABS ON GRADE, WHEN ADDED TO CONCRETE MIX ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDED DOSAGES.
  - REINFORCEMENT DETAILING:
    - REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315.
    - LAP WWR ONE CROSSWIRE SPACING PLUS 2"
    - PROVIDE CORNER BARS AT ALL FOOTINGS AND WALL INTERSECTIONS TO MATCH HORIZONTAL REINFORCING SIZE AND SPACING. AT INTERSECTIONS OF CONTINUOUS SPREAD FOOTINGS EXTEND ALL BARS TO FAR SIDE OF INTERSECTING FOOTING
    - REINFORCEMENT SHALL BE SECURELY PLACED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. PROVIDE THE FOLLOWING CONCRETE COVER FOR REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE:
      - CAST AGAINST EARTH 3"
      - EXPOSED TO EARTHWEATHER #6 THRU #18 2"
      - #8 & SMALLER 1 1/2"
  - CHAMFER ALL PERMANENTLY EXPOSED CONCRETE EDGES 3/4 INCH UNO.
  - NO HOLES OR OPENINGS THROUGH FOUNDATION WALLS AND/OR FOOTINGS WITHOUT ENGINEER'S APPROVAL.
  - ALUMINUM SHALL NOT BE EMBEDDED IN ANY CONCRETE.

- IV. WOOD FRAMING
- A. SAWN CUT LUMBER:
- UNLESS NOTED OTHERWISE, ALL LUMBER TO BE #2 KD SOUTHERN YELLOW PINE WITH A MAXIMUM MOISTURE CONTENT OF 19%.
  - 3/8" AND LARGER MEMBERS SHALL BE NO. 1 SYP.
  - ALL EXTERIOR WALLS TO BE FRAMED WITH #2 SOUTHERN YELLOW PINE 2X6 STUDS SPACED AT 16" O.C.
  - ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL BE PRESURE TREATED AND SHALL BEAR THE THIRD PARTY QUALITY MARK "ABOVE GROUND USE." REFERENCE STANDARD AWPA C2 AND ASTM D1760 FOR PRESURE TREATMENT OF TIMBER PRODUCTS.
  - AS A MINIMUM, FASTEN ALL WOOD FRAMING WITH COMMON NAILS TO COMPLY WITH THE "FASTENING SCHEDULE" OF THE AFORESAID BUILDING CODE.
  - ALL MULTIPLE PIECE WOOD BEAMS TO BE CONNECTED TOGETHER WITH (3) ROWS OF 16D NAILS @ 12" O.C. (U.N.O.)
  - PROVIDE SOLID BLOCKING BETWEEN JOISTS UNDER ALL LOAD BEARING PARTITIONS RUNNING PERPENDICULAR TO JOISTS.
  - PROVIDE SOLID BLOCKING BETWEEN JOIST AT ALL BEARING LOCATIONS.
  - THE DOUBLE TOP PLATES OF THE WALL SHALL RESIST THE CHORD FORCES IN THE ROOF DIAPHRAGM AND ACT AS DRAG STRUTS BETWEEN SHEAR WALL SEGMENTS. JOISTS SHALL BE LAPPED SPICED WITHIN THE CENTER THIRD OF A WALL LENGTH AND THE MINIMUM LAP SHALL BE 4 FEET.
  - TIMBER CONNECTORS CALLED FOR ON THE DRAWINGS ARE AS MANUFACTURED BY THE SIMPSON COMPANY. CONNECTORS BY OTHER MANUFACTURERS MAY BE USED IF THE LOAD CAPACITY IS EQUAL TO OR GREATER THAN THE CONNECTOR SPECIFIED. USE MANUFACTURER'S FURNISHED NAILS AND BOLTS.
- B. WALL AND ROOF SHEATHING
- WALL SHEATHING SHALL BE MANUFACTURED BY A MEMBER OF AMERICAN PLYWOOD ASSOCIATION, SHALL BE LABELED WITH THE APA GRADE STAMP AND CONFORM TO THE FOLLOWING REQUIREMENTS:
    - PANEL GRADE: RATED SHEATHING
    - SPAN RATING: 1632
    - EXPOSURE DURABILITY CLASSIFICATION: EXPOSURE 1
    - PRODUCT STANDARD: PS1
    - THICKNESS: 5/8
  - ROOF SHEATHING SHALL BE MANUFACTURED BY A MEMBER OF AMERICAN PLYWOOD ASSOCIATION, SHALL BE LABELED WITH THE APA GRADE STAMP AND CONFORM TO THE FOLLOWING REQUIREMENTS:
    - PANEL GRADE: RATED SHEATHING
    - SPAN RATING: 4020
    - EXPOSURE DURABILITY CLASSIFICATION: EXPOSURE 1
    - PRODUCT STANDARD: PS1
    - THICKNESS: 5/8
  - ALL SHEATHING SHALL BE INSTALLED WITH THE STRENGTH (TYPICALLY FACE GRAIN) DIRECTION PERPENDICULAR TO THE SUPPORTING FRAMING WITH STAGGERED JOINTS.
  - ROOF SHEATHING SHALL BE INSTALLED WITH 5/8" PSC SHEATHING CLIPS BY SIMPSON STRONG TIE, INC. INSTALLED BETWEEN THE EDGED OF ALL ADJACENT PANELS MIDWAY BETWEEN SUPPORTING FRAMING MEMBERS THAT ARE SPACED MORE THAN 20 INCHES APART.
  - WALL SHEATHING SHALL BE FASTENED TO SUPPORTING FRAMING WITH 10D COMMON RING SHANK NAILS AT THE SPACING INDICATED BELOW UNLESS NOTED OTHERWISE IN THE SHEAR WALL SCHEDULE:
    - WALL EDGE: 8" O.C.
    - SUPPORTED PANEL EDGES AWAY FROM EDGE OF WALL: 8" O.C.
    - CENTER OF PANELS: 12" O.C.
  - ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING FRAMING WITH 8D COMMON RING SHANK NAILS AT THE SPACING INDICATED BELOW:
    - ROOF EDGE: 4" O.C., U.N.O.
    - SUPPORTED PANEL EDGES AWAY FROM EDGE OF ROOF: 6" O.C.
    - SUPPORTED PANEL EDGES BLOCKED DIAPHRAGM: 6" O.C., U.N.O.
    - CENTER OF PANELS: 12" O.C.
  - WHERE EITHER 2-INCH OR 2 1/2-INCH FASTENER SPACINGS ARE USED WITH 2-INCH WIDE FRAMING MEMBERS FOR WOOD STRUCTURAL PANELS USED AT ROOF OR FLOOR, THE FRAMING MEMBER ADJOINING PANEL EDGES SHALL BE 3-INCH NOMINAL WIDTH AND NAILS AT PANEL EDGES SHALL BE STAGGERED IN TWO LINES.
- C. LAMINATED VENEER LUMBER (LVL)
- ALL LAMINATED VENEER LUMBER SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN THE IBC-16B REPORT.
  - ALLOWABLE UNIT STRESSES REQUIRED FOR DRY CONDITIONS OF USE FOR VENEER LAMINATED LUMBER SHALL BE AS FOLLOWS:
    - BENDING: 2600 PSI
    - COMPRESSION PARALLEL TO GRAIN: 2400 PSI
    - HORIZONTAL SHEAR: 285 PSI
    - COMPRESSION PERPENDICULAR TO GRAIN: 750 PSI
  - LAMINATED VENEER LUMBER MEMBER SIZES SHOWN ARE NET; OTHER MEMBER SIZES ARE NOMINAL.

- V. DEMOLITION
- REMOVE STRUCTURE FROM TOP DOWN. DO NOT ALLOW DEBRIS TO PILE UP OR FALL ON SLABS WHICH ARE TO REMAIN IN PLACE. PROVIDE PLYWOOD AND/OR PLANKING TO CURB AND PROTECT SLABS FROM DAMAGE. REPAIR OR REPLACE DAMAGED SLABS, BEAMS OR GIRDERS AS DIRECTED BY OWNER.
  - THESE DRAWINGS ARE INTENDED TO DEFINE LIMITS OF REMOVAL OF STRUCTURAL ELEMENTS AND PRECAUTIONS TO BE TAKEN TO PREVENT DAMAGE TO STRUCTURE WHICH WILL REMAIN.
  - CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND SUBMIT A WRITTEN REPORT TO THE ENGINEER FOR REVIEW AND/OR INSTRUCTION OF ACTUAL FIELD CONDITIONS. CONDITIONS MAY VARY FROM INFORMATION INDICATED ON DRAWINGS.
  - CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING OF STRUCTURE AS REQUIRED.
  - THE DETAILS AND ENGINEERING OF FORMWORK, BRACING AND OTHER CONSTRUCTION REQUIRED FOR SUCH WORK AND THE PHASING, SEQUENCING AND SEQUENCE OF SUCH OPENING SHALL BE PREPARED IN THE FORM OF SHOP OR DETAIL DRAWINGS BY A PROFESSIONAL ENGINEER. THE CONTRACTOR OR SUB-CONTRACTOR SHALL BE PROVIDED TO THE REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER RESPONSIBLE FOR THE INSPECTION OF SUCH WORK, WHO SHALL REPORT TO THE OWNER ANY DEVIATIONS OBSERVED DURING HIS INSPECTION.



**MAIN ROOF FRAMING PLAN**

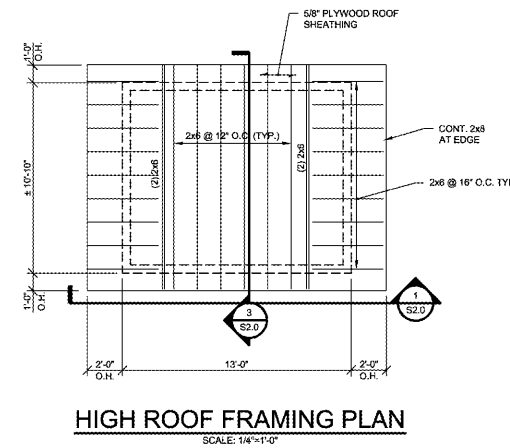
SCALE: 1/4"=1'-0"

**PLAN NOTES**

- GO TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF NEW MATERIALS
- IF EXISTING CONDITIONS VARY FROM THOSE SHOWN ON PLAN, CONTACT ENGINEER FOR ALTERNATE SOLUTIONS.

**KEY NOTES**

- PROVIDE SIMPSON HUB10
- PROVIDE (4) BEARING STUDS BENEATH NEW RAFTER W/ (2) SIMPSON H2.5A



**HIGH ROOF FRAMING PLAN**

SCALE: 1/4"=1'-0"

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**Architects**

ARCHITECT PROJECT #:  
17-0363

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REVISION INFORMATION	
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Restaurant #: 1343

**P1B (MEDIUM)**

2782 WILMA RUDOLPH BLVD.

**CLARKSVILLE, TN**

Drawing  
**EXTERIOR TOWER PLAN**

**S1.0**