

**STRUCTURAL NOTES**

**A. GENERAL**

- THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE NOT TO BE CONSIDERED AS SHOP DRAWINGS OR PORTIONS THEREOF.
- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSIDERED TO APPLY TO ANY SIMILAR SITUATION UNLESS NOTED OTHERWISE ON THE PROJECT. A DIFFERENT DETAIL OR SECTION IS SHOWN.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUB-CRONTACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING PROVISIONS AND SECURE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES ANY REQUIRE SHORING, SHEETING, TEMPORARY BRACING, DAYS OR BE DOWN WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS TO COORDINATE ALL DETAILS, DIMENSIONS, ELEVATIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

**B. GOVERNING CODE: 2012 - INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS**

- ROOF SNOW LOADS**
  - GROUND SNOW LOAD:  $P_g = 5$  PSF (FIGURE 1608.2)
  - FLAT-ROOF SNOW LOAD:  $P_f = 5$  PSF (FIGURE 7, SECTION 7.3)
  - SNOW EXPOSURE FACTOR:  $C_e = 1.0$  (TABLE 1608.3.1)
  - SNOW LOAD IMPORTANCE FACTOR:  $I_s = 1.0$  (TABLE 1604.5)
  - SNOW THERMAL FACTOR:  $C_t = 1.0$  (TABLE 1608.3.2)
  - ALL APPLICABLE EFFECTS DUE TO SNOW DRIFTING (SECTION 1609)
- ROOF LIVE LOADS**
  - MINIMUM ROOF LIVE LOAD = 20 PSF (SECTION 1607.11.2)
  - SEE "PREFABRICATED WOOD TRUSSES" DESIGN CRITERIA FOR ADDITIONAL LOADING INFORMATION.
- WIND LOADS**
  - BASIC WIND SPEED = 115 MPH (FIGURE 1609)
  - WIND EXPOSURE CATEGORY "B" (SECTION 1609.4)
  - SEISMIC DESIGN DATA:
    - SEISMIC SITE CLASS - BASED ON SECTION 1615.1
    - SEISMIC IMPORTANCE FACTOR:  $I_w = 1.0$  (TABLE 1604.5)
    - SITE (SOIL) CLASS - SECTION 1612.2
  - STRUCTURAL FRAMING AND SEISMIC RESISTING SYSTEM: LIGHT-FRAMED WALLS WITH SHEAR PANELS (TABLE 1617.6.2, ITEM 1 K)

**C. FOUNDATION**

- FOUNDATIONS ARE DESIGNED TO BEAR ON NATURAL GRADE OR FILL, WELL COMPACTED TO AN ALLOWABLE BEARING CAPACITY, INDICATED ON THE FOUNDATION PLAN.
- A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO PERFORM SOIL BORINGS, PROVIDE A FOUNDATION REPORT AND VERIFY THAT THE REQUIRED MINIMUM BEARING CAPACITY WAS OBTAINED.
- SAID SOIL CAPACITY SHALL BE OBTAINED AND TESTED BY A REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOUNDATION.
- BOTTOM OF FOOTING ELEVATION TO BE DETERMINED BY THE SOIL CONDITIONS AND FROST-LINE DEPTH.
- ALL LONGITUDINAL REBARS IN THE WALL FOOTINGS SHALL BE CONTINUOUS AND SPICED AS SPECIFIED. CONTINUE ALL HORIZONTAL REBARS AT BENTS AND CORNERS BY USING THE REBARS OF SAID DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS WID FOOTING EACH SIDE OF CORNER OR BENT.

**D. REINFORCED CONCRETE**

- MATERIALS:**
  - SPECIFICATIONS IN GENERAL, COMPLY WITH ACI 308 - (LATEST EDITION)
  - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- STRUCTURAL CONCRETE:**

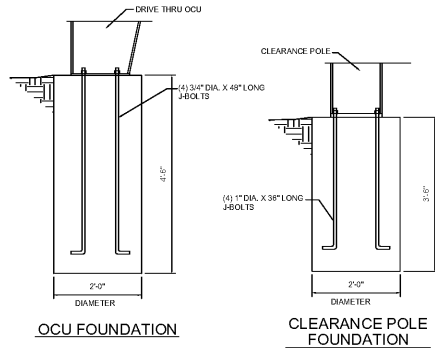
CLASS	LOCATION	FC
I	FOOTINGS, CHAIRS, & GRADE BEAMS	3,500
II	INTERIOR SLABS ON GRADE, AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	4,000
III	PIERS PLACED INTEGRALLY WITH WALLS, EXTERIOR SLABS ON GRADE, AND ALL EXTERIOR CONCRETE (WITH AND WITHOUT OTHERWISE IDENTIFIED)	4,000
IV	BACKFILL BELOW FOOTINGS AND GRADE BEAMS	1,500
- ALL DEFORMED REINFORCING BARS:  $F_y = 60,000$ , GALVANIZED WELDED WIRE FABRIC SHALL CONFORM TO ASTM A655 (LATEST EDITION). USE SHEET FORM, NOT ROLLED.
- FIELD MANUAL:** PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
- CONTINUES:**
  - PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT AND CONCRETE COVER OVER THE REINFORCING.
- FOOTINGS:**
  - VERTICAL DOWELS IN FOOTINGS TO MATCH VERTICAL WALL REINFORCING.
  - PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
- UNLESS NOTED OTHERWISE, MINIMUM LAP SPACE LENGTHS TO BE AS FOLLOWS:
  - VERTICAL BARS IN WALLS, PIERS, OR COLUMNS (INCLUDING DOWELS): 30 DIAMETER
  - HORIZONTAL BARS IN SLABS & FOOTING: 35 DIAMETER
  - HORIZONTAL BARS IN WALL: 45 DIAMETER
- SAW-CUT & CONSTRUCTION JOINTS:** PROVIDE JOINTS IN ALL SLABS-ON-GRADE, AS INDICATED ON THE FOUNDATION PLAN.
- CONCRETE COVER:** UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER: 3 INCHES
  - CONCRETE EXPOSED TO EARTH OR WEATHER:
    - AS BARS AND SMALLER: 1-1/2 INCHES
    - OTHERS: 2 INCHES
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
    - BEAM AND SPIRALS: 1-1/2 INCHES
    - SLABS, WALLS, JOISTS: 1-1/2 INCHES
    - PI BARS AND SMALLER: 1 INCH
    - OTHERS: 1-1/2 INCHES

**E. STRUCTURAL STEEL**

- MATERIALS:**
  - STRUCTURAL STEEL: ASTM A572 - 50 KSI; ASTM ANCHOR BOLTS: ASTM A307 OR ELECTRODES: STRUCTURAL EXPANSION BOLTS: HELIX TOWER-3
- SPECIFICATIONS:** WELDING PERSONNEL AND WELDERS ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGNATION AND DIRECTION TO BE GOVERNED BY THE LATEST EDITION OF THE AWS SPECIFICATION FOR STRUCTURAL STEEL WELDING.
  - AWSD CODE OF STANDARD PRACTICES
  - STRUCTURAL WELDING CODE, D1.1 - OF THE AMERICAN WELDING SOCIETY.
- CONNECTIONS:**
  - CONNECTIONS TO BE SHOWN BY INDICATION TO DETAIL FULL ANCHORING AND OTHER FASTENING OF CONNECTIONS ON THE PLANS. FOLLOW THE INSTRUCTIONS ON THE GENERAL ARRANGEMENT DRAWING.
  - WELDING: ALL WELD ANGLES, UNLESS IN EXTERIOR WALLS, AND ALL EXTERIOR EXPOSED WELD ELEMENTS SHALL BE HOT DIP GALVANIZED.
- MISC. DETAILS:**
  - EXPANSION BOLTS: OBTAIN PRIOR APPROVAL.
  - STEEL SUPPORTING OR CONNECTED TO IRON AND OTHER MATERIALS: OBTAIN PRIOR APPROVAL.
  - FOR LIFTING PURPOSES ONLY: CONTRACTOR SHALL RECONCILE EXACT PLATE LOCATION BEFORE PROCEEDING WITH HIS WORK.
  - GROUND UNDER BEARING PLATES, BASE PLATES, AND SETTING PLATES TO BE NON-SHRINKING TYPE.
  - STEEL BELOW GRADE TO BE PROTECTED BY A MIN. OF 3 INCHES OF CONCRETE.
  - PROVIDE HEAVY WASHER AT ALL ANCHOR BOLTS.
  - EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS FOLLOWS:
    - 1/2 INCH DIAMETER BOLTS --- 3 1/2 INCHES EMBEDMENT
    - 3/4 INCH DIAMETER BOLTS --- 5 INCHES EMBEDMENT

**F. MASONRY**

- MATERIALS:**
  - CONCRETE BLOCK: ASTM C90 (HOLLOW) ASTM C145 (SOLID)
  - MORTAR: ASTM C270 TYPE "S", AVERAGE COMPRESSIVE STRENGTH: 1800 PSI (MINIMUM AT 28 DAYS)
  - BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE
  - JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAUGE MINIMUM SIZE WIRES AND CROSS WIRES (LAP OR TRUSS TYPE)
  - BAR REINFORCING: ASTM A615, GRADE 60.
- REINFORCED MASONRY:** WHERE VERTICAL BARS ARE TO BE GROUDED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
  - PROVIDE DOWELS FROM FOOTING, SAME SIZE AND SPACING AS WALL BARS.
  - LAP 12 INCHES MINIMUM WITH WALL BAR, LABELED INTO FOOTING 9 INCHES.
  - PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" X 2" IN SIZE, FREE OF MORTAR DRIPPINGS.
  - AT JOINTS IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 45 DIAMETER LAP.
  - ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
- MISCELLANEOUS:**
  - FILL CORE SOLID AROUND ANCHOR BOLTS.
  - PROVIDE TORSION SOLID BLOCKS OR SOLID FULLED HOLLOW BLOCKS AT ALL EXPANSION JOINT LOCATIONS.
  - IFOLLOW MASONRY UNITS TO BE LAD WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES IN THE STARTING COURSE ON FOOTINGS AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAD WITH FULL HEAD AND JOINTS.
  - PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
  - LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY MASONRY.
  - WHERE MASONRY UNITS ARE USED ABOVE HOLLOW UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF TORSION SOLID MASONRY (OR SOLID GROUTED BLOCK) AT LEAST 8 INCHES HIGH BELOW TRANSITION.



**H. STRUCTURAL LUMBER**

- A. STUDS:** STRUCTURAL LUMBER: DOUGLAS FIR-LARCH #2, OR APPROVED EQUAL:
 

NO.	SP.	FC	FD	ED	EM	ES	ES	ES	ES
24	1,500	825	90	585	1,850	1,800,000			
24B	1,200	725	80	585	1,800	1,800,000			
24C	1,200	650	90	585	1,550	1,800,000			
24D	1,000	600	80	585	1,400	1,800,000			
24E	975	500	90	585	1,450	1,800,000			
- ROOF/WALL:** ORIENTED STRAND BOARD, STRUCTURAL 1, EXPOSURE 1, EXTERIOR GLE. FOR ROOF AND WALLS PANEL IDENTIFICATION INDEX 24/8" - 5/8" INCH OR 24/0" - 1/2 INCH (WITH PLYWOOD CLIPS AT ROOF).
- ROOF/WALL:** PLYWOOD: C-PLYWOOD, STRUCTURAL 1, EXPOSURE 1, EXTERIOR GLE. FOR ROOF AND WALL PANEL IDENTIFICATION INDEX 24/8" - 5/8" INCH OR 24/0" - 1/2 INCH (WITH PLYWOOD CLIPS AT ROOF).
- SILL PLATES:** NO. 2 SPRUCE-PINE-FIR, OR EQUAL, FC=675 PSI, FV=70 PSI, E=1,200,000 PSI.
- SPECIFICATIONS:** UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST EDITIONS OF:
  - NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.
  - U.S. PRODUCT STANDARD PS-1 FOR SOFTWOOD PLYWOOD - CONSTRUCTION AND INDUSTRIAL.
- CONNECTIONS:**
  - BOLTS TO BEAMS - 16 GA. GALVANIZED STD. JOIST HANGERS, UNLESS SHOWN OTHERWISE.
  - PLYWOOD TO ROOF TRUSSES OR RAFTERS - NAILLED - USE 8d RING SHANK NAILS AT 6 INCHES O/C AT PANEL EDGES AND 12 INCHES O/C AT INTERMEDIATE SUPPORTS. PROVIDE PLYWOOD CLIPS AT MID-SPAN OF PLYWOOD BETWEEN SUPPORTS.
- ALL STRUCTURAL WOOD TO BE SURFACED** FOUR (4) SIDES (S-4-S) A AND MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
- ALL LUMBER AND PLYWOOD IN CONTACT WITH CONCRETE, STUCCO, MASONRY OR OTHER CEMENTITIOUS MATERIALS SHALL BE TREATED WITH AN E.P.A. ACCEPTABLE WOOD PRESERVATIVE (SUCH AS "ACQ" - ALKALINE-COPPER-QUATERNARY OR "CCA" - COPPER AZOLE TYPE A & B).**
- ALL WOOD CONNECTORS SHALL BE GALVANIZED STEEL OR RUST-PROOF PAINTED STEEL (G.O.R.).** ALL GALVANIZED METAL CONNECTORS IN CONTACT WITH TREATED WOOD (ITEM #8) SHALL BE TRIPLE-ZINC 6-187 GALVANIZED. ANY FIELD WELDS (INTERIOR OR EXTERIOR) OF SUCH CONNECTORS SHALL BE WIRE BRUSH CLEANED AND RUST PROOF PAINTED.
- MISCELLANEOUS:**
  - USE ONE LINE OF SOLID BLOCKING OR CROSS BRIDGING AT 8'-0" O/C MAX. FOR ALL JOISTS AND RAFTERS. USE SOLID BLOCKING AT JOIST AND RAFTER BEARING.
  - USE SOLID BLOCKING AT MID-HEIGHT FOR ALL EXTERIOR STUD WALLS AND INTERIOR BEARING PARTITIONS.
  - USE DOUBLE STUDS UNDER BEAM AND LINTEL BEARING, UNLESS SHOWN OTHERWISE.

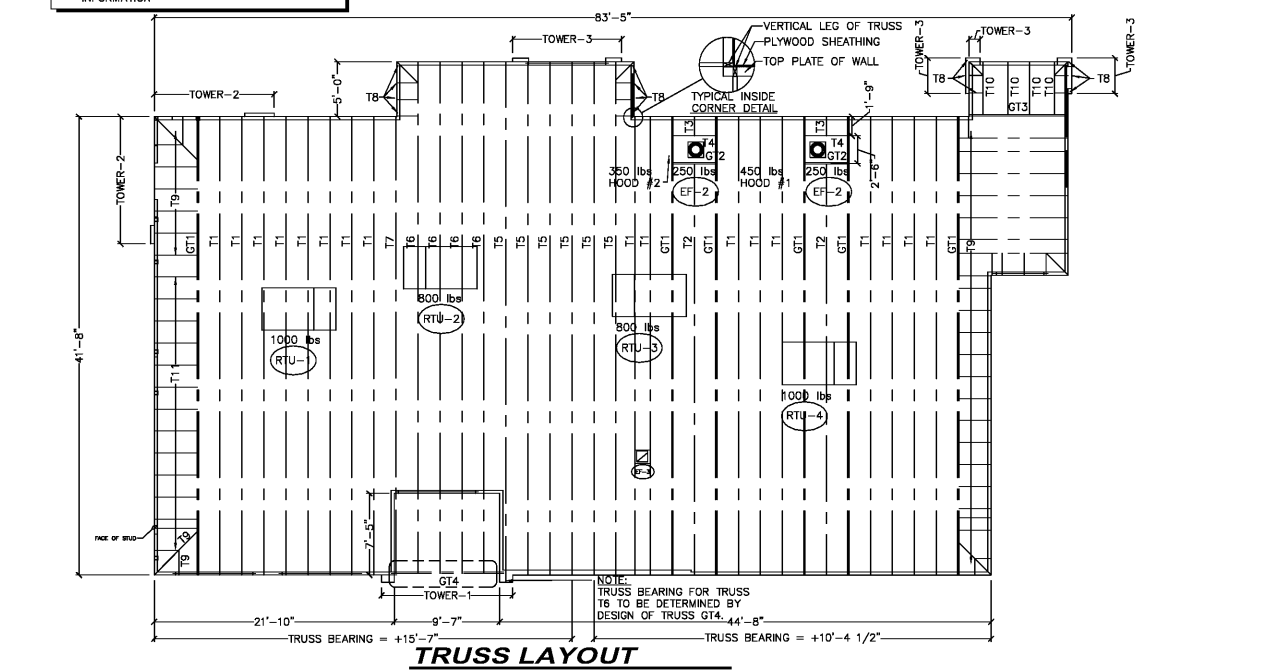
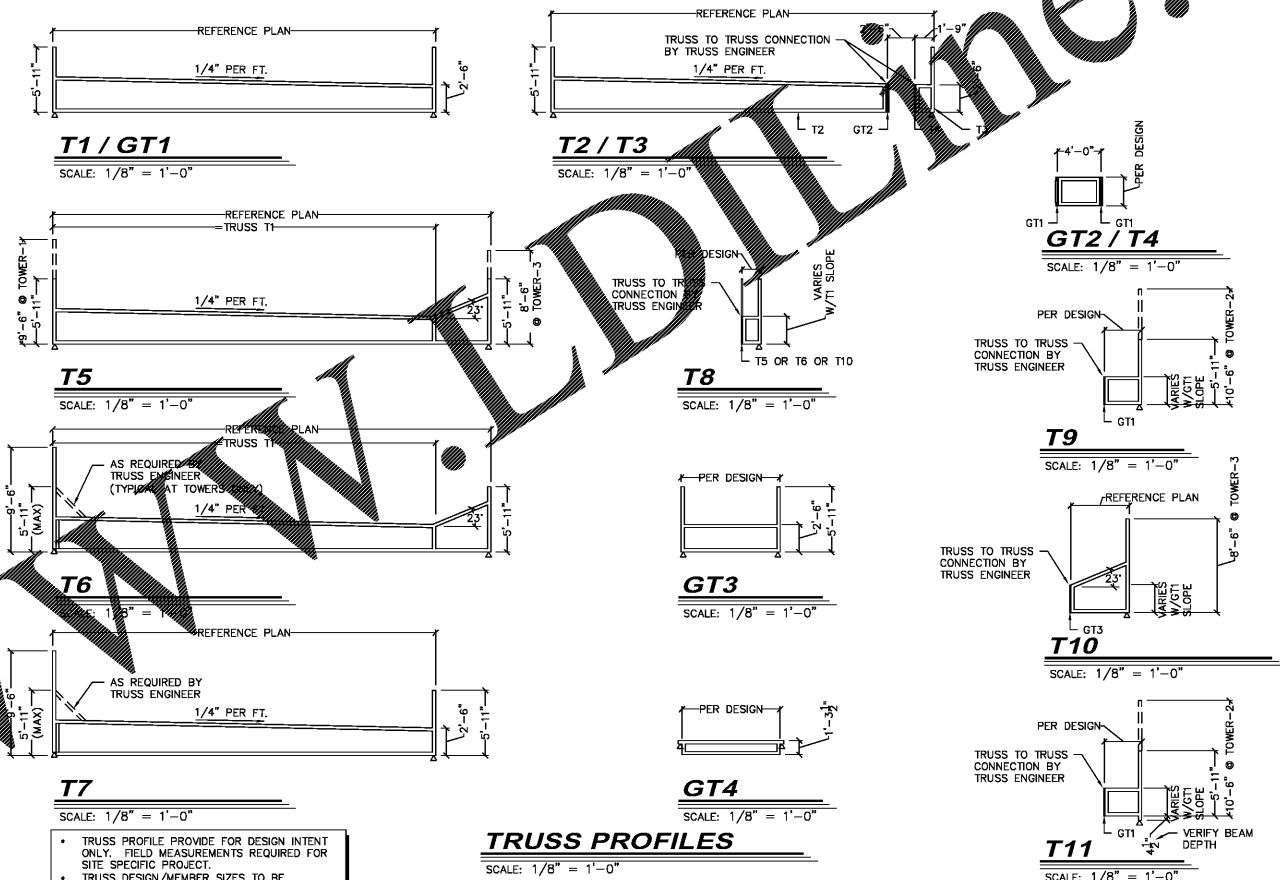
**I. PREFABRICATED WOOD TRUSSES**

- MATERIALS:**
  - LUMBER: SEE "STRUCTURAL LUMBER" SECTION FOR WOOD INFORMATION.
  - METAL CONNECTOR PLATES: GALVANIZED STEEL SHEET, ASTM A446 (LATEST EDITION) GRADE "A", COATING CLASS G60 PER ASTM A563 (LATEST EDITION), MANUFACTURED WITH HOLES, PLUGS, TEETH, OR PRONGS UNIFORMLY FINISHED AND FORMED.
  - SEE "STRUCTURAL LUMBER" SECTION FOR GALVANIZED CONNECTIONS FOR TREATED WOOD.
- DESIGN CRITERIA:**
  - LOADING:
    - TOP CHORD LIVE LOAD: 20 PSF
    - TOP CHORD DEAD LOAD: 20 PSF + 4 MECH EQUIP.
    - BOTTOM CHORD DEAD LOAD: 10 PSF
    - NET WIND UPLIFT: 1.8 PSF
  - DESIGN OF MEMBERS AND CONNECTIONS IS TO BE BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THIS PROJECT, EXPERIENCED IN SIMILAR DESIGN, RETAINED BY THE TRUSS MANUFACTURER.
  - SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE TRUSS DESIGN. IN ADDITION, SIGNED AND SEALED DESIGN CALCULATIONS FOR THESE TRUSSES SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
  - MEMBER SIZES SHOWN ARE MINIMUM SIZES.
  - MAXIMUM LIVE LOAD DEFLECTION IS TO BE L/360.
  - MAXIMUM TOTAL LOAD DEFLECTION IS TO BE L/240.
- MISCELLANEOUS:**
  - BOLT TOP CHORDS OF ALL MULTIPLE MEMBER TRUSSES TOGETHER WITH 1/2" DIA BOLTS AT 4'-0" O.C. BOLT WEB MEMBERS TOGETHER WITH 1/2" DIA BOLTS AT 2'-0" O.C. AT CONCENTRATED LOADS, UNLESS OTHERWISE SPECIFIED BY THE TRUSS DESIGN ENGINEER.
  - VERIFY ALL DIMENSIONS, ELEVATIONS AND SLOPES PRIOR TO MANUFACTURING. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT.
  - WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED TO CONFORM TO THE GEOMETRY SHOWN ON THE DRAWINGS. WEB CONFIGURATIONS ARE TO BE DETAILED AS REQUIRED BY THE DESIGNER/FABRICATOR.
  - PROVIDE 2x4 BOTTOM CHORD BRIDGING AT A MAXIMUM SPACING OF 10'-0" O.C.

**J. ABBREVIATIONS:**

MATERIAL/ACTIVITY	SERVICE	EXTENT
TYPE 1 CONCRETE CONSTRUCTION	FIELD INSPECTION	PERIODIC
INSTALLATION OF REINFORCING BARS	FIELD INSPECTION	PERIODIC
INSPECTION OF CAST-IN-PLACE CONCRETE	FIELD INSPECTION	PERIODIC
VERIFICATION OF REQUIRED DESIGN MIX	FIELD TESTING	CONTINUOUS
FRESH CONCRETE TEMPERATURE	FIELD TESTING	CONTINUOUS
CONCRETE CURING OPERATION	FIELD REVIEW	PERIODIC
INSTALLATION OF CORRELATION BARS	FIELD TESTING AND REVIEW	PERIODIC
TABLE 1 STRUCTURAL WOOD	FIELD TESTING AND REVIEW	PERIODIC
TRUSS FABRICATION/QUALITY CONTROL PROCEDURES	INSPECTION/REVIEW	PERIODIC
INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF CONNECTIONS	SHOP AND FIELD INSPECTION	PERIODIC
ROOF EXTERIOR WIND SHEAR WALLS	FIELD INSPECTION	PERIODIC

NOTE: THE INSPECTION AND TESTING AGENTS SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALITY OF THE INSPECTION AGENT'S WORK SHALL BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. SPECIAL INSPECTIONS REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.



DRAWN BY: MRM  
CHECKED BY: MRM  
DATE: 08/27/18  
PROJECT: BURGER KING RESTAURANT  
RELEASED FOR CONSTRUCTION: YES



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PROJECT #18026.07  
ROC-60 20/20 IMAGE: APRIL 2015 DESIGN RELEASE  
BURGER KING RESTAURANT  
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