SITE INFO:
- SITE ADDRESS

STRUCTURAL DESIGN REQUIREMENTS:
- ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS
- 2012 INTERNATIONAL RESIDENTIAL CODE
- 2010 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION

DESIGN CRITERIA:
- ROOF DEAD LOAD - 20 PSF
- ROOF LIVE LOAD - 20 PSF
- GROUND SNOW LOAD - 10 PSF
- WIND LOAD - 120 MPH ULTIMATE
- IMPORTANCE FACTOR, LOO (CATEGORY II BUILDING)

GENERAL NOTES:
THese DRAWINGS ARE INTENDED TO REPRESENT THE TIMBER FRAME STRUCTURE ONLY. ANY STRUCTURE NOT EXPLICITLY SHOWN ON THESE PLANS HAS NOT BEEN ENGINEERED BY THE ENGINEER OR DESIGNED BY CAROLINA TIMBERWORKS, AND IS THE RESPONSIBILITY OF OTHERS. THE TIMBER FRAME IS DESIGNED TO RESIST GRAVITY AND WIND LOADS.

DO NOT SCALE ANY DRAWINGS.

TIMBERS:
- UNLESS OTHERWISE NOTED, EXTERIOR TIMBERS SHALL BE #2 4 BETTER SITK, WESTERN RED CEDAR, R/S TO THE FULL STATED DIMENSIONS.
- UNLESS OTHERWISE NOTED, INTERIOR TIMBERS SHALL BE #4 BETTER PINE, DOUGLAS FIR, S4S TO 1/2 UNDER THE STATED DIMENSIONS, W/ STOP CHAMFER.

TIMBER SCREWS:
- UNLESS OTHERWISE NOTED, ALL SCREWS SHALL BE BY S.R. #50 OR MARSH ASSY, WITH A SHANK DIAMETER OF AT LEAST 0.2", AND A THREAD DIAMETER OF AT LEAST 0.30". EQUAL SUBSTITUTIONS MAY BE MADE ONLY WITH DIRECT WRITTEN PERMISSION FROM THE ENGINEER.
- SCREWS HOLES SHALL NOT BE PRE-DRILLED UNLESS OTHERWISE NOTED, AND HAVE AT LEAST 3" OF THREAD PENETRATION INTO THE CONNECTING MEMBER.

TIMBER FRAME JOINERY:
- UNLESS OTHERWISE CALLED OUT, THE JOINERY SHOULD MEET THE FOLLOWING REQUIREMENTS, AND BE DETAILED IN ACCORDANCE WITH TEC 140. ALL PEGS SHALL BE 1" IN DIAMETER, AND MEET THE REQUIREMENTS OF TEC 140.
- TENONS CONNECTING MEMBERS IN 8X MATERIAL AND LARGER (SMALLEST DIMENSION), SHALL BE 2" THICK AND 4 1/2" IN LENGTH, WITH 2" OF RELISH, IN 6X MATERIAL, 2" THICK, 4" LONG TENONS WITH 2" RELISH SHALL BE USED. 4X AND SMALLER MATERIAL, INCLUDING BRACES (UNLESS OTHERWISE CALLED OUT) AND STRUTS, SHALL HAVE A 2" THICK TENON, AT LEAST 3-1/2" IN LENGTH, AND 1-1/2" RELISH.

WHERE TENON RELISH OCCURS, TENONS SHALL BE AS LONG AS POSSIBLE, AND OFFSET (HIGH LOW), IN THREE-WAY AND FOUR-WAY CONNECTIONS. 1 1/2" THICK HARDWOOD (SPECIFIC GRAVITY EQUAL TO OR GREATER THAN THE CONNECTING TIMBERS) OR 1-3/4" LVL SLEDGES ARE STRONGLY ENCOURAGED UNLESS OTHERWISE CALLED OUT ON THE PLANS.

HOUSINGS FOR 8X AND LARGER STOCK SHALL BE 1", UNLESS SPECIFIED OTHERWISE. WHERE 6X FRAMING IS NOT DIRECTLY SUPPORTING ROOF OR FLOOR LOADS, STUD TENONS MAY BE USED IN PLACE OF FULL 1" HOUSINGS. 4X MATERIAL, INCLUDING BRACES, SHALL BE HOUSED 1/2", BIRDS MOUTH REDUCIONS, AND CORES NOT SUPPORTED BY A BEARING SURFACE SHALL NOT EXCEED MORE THAN 1/4 OF THE MEMBER DEPTH WITHOUT REQUIRING FURTHER REINFORCEMENT.

ARCHITECT: [Name]
CLIENT: [Name]
DRAWN BY: [Name]
DATE: 01-OH

FIRE TOWER
ENGINEERED TIMBER

CAROLINA TIMBERWORKS
ARCHITECTURAL WOODWORKS
RESIDENCE

ARCHITECT:

CLIENT:

DRAWN BY:

DATE: 01-01-01

FIRE TOWER
ENGINEERED TIMBER

CAROLINA TIMBERWORKS
ARCHITECTURAL TIMBER FRAME

COVERED DECK

SHEET 1 OF 32
BRACKET OVERHANG AROUND HOUSE
RAFTERS OVERHANG AROUND HOUSE