





STRUCTURAL DESIGN REQUIREMENTS:

DESIGN STANDARDS:

ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS 2015 INTERNATIONAL BUILDING CODE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION ACI 318/14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

DESIGN CRITERIA:

DEAD LOAD

SNOW LOAD

-	GROUND SNOW	90 PSF				
-	EXPOSURE FACTOR, Ce	1.0				
-	IMPORTANCE FACTOR, IS	1.0 (Category "II" Building)				
-	THERMAL FACTOR, Ct	1.2				
-	ROOF SLOPE FACTOR, Cs	1.0				

15 PSF

FLOOR LOAD

DEAD	LOAD	15	PSF
LIVE	LOAD	65	PSF

WIND

- 3-SEC GUST WIND SPEED 115 MPH
- EXPOSURE "C"
- IMPORTANCE FACTOR, Iw 1.0 (Category "II" Building)

SOIL ASSUMED:

- SOIL BEARING, Qa 1500 PSF

EARTHWORK:

COMPLIANCE OF SOIL COMPACTION AND OTHER MEASURES TAKEN TO ACHIEVE THE ALLOWABLE BEARING PRESSURE IN AREAS OF BACKFILL WERE NOT FIELD VERIFIED BY A QUALIFIED SOILS ENGINEER. FOUNDATION:

EXISTING FOUNDATION DESIGN AND INSTALLATION BY OTHERS WAS NOT SPECIFIED BY FIRE TOWER ENGINEERED TIMBER

WOOD:

TIMBERS

UNLESS OTHERWISE NOTED, SOLID SAWN TIMBER SHALL BE GREEN (UNSEASONED) EASTERN WHITE PINE #2 OR TIMBER OF EQUIVALENT STRUCTURAL CAPACITY. TIMBERS SHALL BE FULL DIMENSION.

DECKING

UNLESS OTHERWISE NOTED ALL ROOF DECKING SHALL BE 2x HEMLOCK DECKING. EACH DECKING PIECE MUST BE CONTINUOUS OVER AT LEAST TWO SPANS. SECURE w/ FACE NAILS OR SCREWS WITH 2" EMBED MIN.

DIMENSIONAL LUMBER

ALL 2x DIMENSIONAL LUMBER SHALL BE #2 PINE OR OTHER SPECIES WITH EQUIVALENT ALLOWABLE DESIGN STRENGTHS. 2x MATERIAL SHALL BE FULL DIMENSION.

ALL SILL PLATES AND DIMENSIONAL WOOD FRAMING IN CONTACT WITH CONCRETE AND MASONRY SHALL BE PRESERVATIVE TREATED WOOD, UHMW PLASTIC OR OTHER WOOD IN COMPLIANCE WITH AWPA-U1 OR A NATURALLY DECAY RESISTANT SPECIES.

WOOD CONNECTORS:

ALL STEEL FASTENERS OR CONNECTIONS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE ZINC COATED IN ACCORDANCE WITH ASTM A 153, MADE OF STAINLESS STEEL, OR SHOW A SIMILAR LEVEL OF CORROSION PROTECTION. TIMBER SCREWS

UNLESS NOTED OTHERWISE, ALL SCREWS SHALL BE BY GRK RSS OR WURTH ASSY, WITH A SHA AT LEAST 0.2", AND A THREAD DIAMETER OF AT LEAST 0.30". EQUAL SUBSTITUTIONS MAY WITH DIRECT WRITTEN PERMISSION FROM THE ENGINEER. SCREWS HOLES SHALL NOT BE PRE OTHERWISE NOTED AND HAVE AT LEAST 2" OF THREAD PENETRATION INTO THE CONNECTING M

NAILS

UNLESS OTHERWISE CALLED OUT IN THE PLANS FOR MORE STRINGENT NAILING, NAILING SHA EXCEED THE NAILING IN "TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS" IRC. ALL NAILS SPECIFIED ARE COMMON. WHEN AIR GUN NAILING IS USED, CARE SHALL TRUE COMMON NAIL EQUIVALENTS REGARDING DIAMETER. (8d = 0.131"dia., 10D = 0.148" 0.162"dia.). TRADITIONAL CUT NAILS ARE ALLOWED, RUSTING WILL OCCUR IF NOT GALVAN EMBED LENGTH TO BE EQUAL OR GREATER THAN THE THICKNESS OF MATERIALS FASTENED.

<u>STEEL PLATES AND ANGLES</u> ASTM GRADE A36 OR BETTER FINISHED PER CLIENT SPECIFICATIONS.

STRAPS AND HOLD DOWNS ALL STRAPS AND HOLD DOWNS ARE BY SIMPSON STRONG-TIE OR EQUIVALENT.

TIMBER FRAME JOINERY

UNLESS OTHERWISE CALLED OUT IN JOINERY DETAILS ON THE STRUCTURAL AND TIMBER FRAM JOINERY SHOULD MEET THE FOLLOWING REQUIREMENTS, AND BE DETAILED IN ACCORDANCE WI

ALL PEGS SHALL BE HARDWOOD 1" IN DIAMETER, UNLESS NOTED OTHERWISE AND MEET THE R TFEC 1-19.

TENONS CONNECTING MEMBERS IN 8X MATERIAL AND LARGER (SMALLEST DIMENSION), SHALL 5" IN LENGTH, WITH 3" OF RELISH. IN 6X MATERIAL, 1 $\frac{1}{2}$ " THICK, 4" LONG TENONS WITH SHALL BE USED. 4X AND SMALLER MATERIAL, INCLUDING BRACES (UNLESS OTHERWISE CALLISTRUTS, SHALL HAVE A 1 $\frac{1}{2}$ " THICK TENON, AT LEAST 3 $\frac{1}{2}$ " IN LENGTH, AND 2 $\frac{1}{2}$ " OF RELIS

WHERE TENON INTERFERENCE OCCURS, TENONS SHALL BE AS LONG AS POSSIBLE, AND OFFSET POSSIBLE. IN THREE-WAY AND FOUR-WAY CONNECTIONS, 1 $\frac{1}{2}$ " THICK HARDWOOD (SPECIFIC (TO OR GREATER THAN THE CONNECTING TIMBERS) OR 1 $\frac{3}{4}$ " LVL SPLINES ARE STRONGLY ENCODED

HOUSINGS FOR 6X AND LARGER STOCK SHALL BE 1", UNLESS SPECIFIED OTHERWISE. WHERE NOT DIRECTLY SUPPORTING ROOF OR FLOOR LOADS, $\frac{1}{2}$ " STUB TENONS MAY BE USED IN PLACE HOUSINGS. 4X MATERIAL, INCLUDING BRACES, SHALL BE HOUSED $\frac{1}{2}$ ". BIRDS MOUTHS, RED COPES NOT SUPPORTED BY A BEARING SURFACE SHALL NOT EXCEED MORE THAN $\frac{1}{4}$ THE MEMBER REQUIRING FURTHER REINFORCEMENT.

UNLESS OTHERWISE SPECIFIED, RAFTERS AND PURLINS SHALL BE SECURED INTO THEIR HOUS SUPPORTS WITH LOG SCREWS, (1) SCREW AT EACH END FOR 6X AND SMALLER MATERIAL, (2) END FOR 8X AND LARGER MATERIAL.

GENERAL NOTES:

SHRINKAGE OF TIMBERS MAY RESULT IN THE "LOOSENING" OF BOLTS AND ALL-THREAD CONNEC PERIODIC TIGHTENING OF THESE CONNECTIONS DURING THE FIRST SEVERAL YEARS OF THE S' SERVICE LIFE IS REQUIRED.

DO NOT SCALE ANY DRAWINGS.

NK DIAMETER OF / BE MADE ONLY E-DRILLED UNLESS MEMBER. ALL MEET OR IN THE 2009 BE TAKEN TO USE dia., 16d = HIZED. NAIL		251 SCRIRNERS MILL RD	HARRISON, ME 04040	DRAWING	1F-2
THE DRAWINGS, THE TH TFEC 1-19. REQUIREMENTS OF BE 2" THICK AND H 2 ½" RELISH ED OUT) AND TSH. T (HIGH/LOW) WHERE GRAVITY EQUAL DURAGED.	SHEET TITLE NOTES			FOR CONSTRUCTION	
E 6X FRAMING IS E OF FULL 1" OUCTIONS, AND R DEPTH WITHOUT BINGS AND SCREWS AT EACH	F E 21 Del	ROG BRUN I COMPARENT SIGNEER NORMAN Avenue Norman Avenue Norman Avenue	ERLE GRABER 1925 NSE EL ENSE EL EL EL EL EL EL EL EL EL EL EL EL EL	★ The First Community of the first Community	
CTORS. TRUCTURE'S EERED TIMBER	STRUCTURAL ENGINERE: FIRE TOWER ENGINEERED TIMBER 21 NORMAN AVBNUE 2005TH STREET	DELRAN, NJ 08075 CALUMET, MI 49913 401-654-4600 EXT 201 906-379-0520 REF:	PROJECT NO: DATE:	FILE: SCRIBNERS MILL.DWG	CHK'D BY: ####

EAVE BRACE	EWP	#2	6	4	6	10	120
BENT BRACE	EWP	#2	4	6	6	10	120
CROSS	EWP	#2	8	6	6	8	192
JOIST	EWP	#2	12	6	6	14	504
NAILER	EWP	#2	6	6	6	14	252
NAILER	EWP	#2	2	6	6	8	48
PURLIN	EWP	#2	12	6	6	15	540
PURLIN	EWP	#2	6	6	6	14	252
TOP PLATE	EWP	#2	2	6	10	42	420
DOOR POST	EWP	#2	4	8	8	12	256
PURLIN	EWP	#2	2	8	8	15	160
PURLIN	EWP	#2	1	8	8	14	75
RAFTER	EWP	#2	8	8	8	12	512
POST	EWP	#2	8	8	10	12	640
SILL	EWP	#2	2	8	10	40	534
SILL	EWP	#2	4	8	10	14	374
TIE	EWP	#2	4	8	10	16	427

TOTAL BF

5426









