GENERAL NOTES AND SPECIFICATIONS

ABBREVIATIONS

ACC.	=	ACCESS
BWL.	=	BRACED WALL LINE
BWP.	=	BRACED WALL PANEL
C.O.	=	CASED OPENING
C.J.	=	CEILING JOIST
CLOS.	=	CLOSET
COL.	=	COLUMN
COMP.	=	COMPOSITION
CONC.	=	CONCRETE
CONT.	=	CONTINUOUS
C.M.A.	=	CARBON MONOXIDE ALARM
C.M.U.	=	CONCRETE MASONRY UNIT
D.H.	=	DOUBLE HUNG
DIA.	=	DIAMETER
D.J.	=	DOUBLE JOIST
DN.	=	DOWN
EXH.	=	EXHAUST
EXT.	=	EXTERIOR
FL.J.	=	FLOOR JOIST
FTG.	=	FOOTING
G.F.I.	=	GROUND FAULT INTERRUPTER
H.B.	=	HOSE BIB
LVL	=	LAMINATED VENEER LUMBER
M.O.	=	MASONRY OPENING
MAS.	=	MASONRY
MAX.	=	MAXIMUM
M.C.	=	MEDICINE CABINET
MTL.	=	METAL
MIN.	=	MINIMUM
O.C.	=	ON CENTER
OSB	=	ORIENTED STRAND BOARD
PERF.	=	PERFORATED
REC.	=	RECESSED
REINF.	=	REINFORCED
SCR.	=	SCREENED
S.D.	=	SMOKE DETECTOR
SEC.	=	SECOND
SHWR.	=	SHOWER
S.Y.P.	=	SOUTHERN YELLOW PINE
S.P.F.	=	SPRUCE/PINE/FIR
SUSP.	=	SUSPENDED
TYP.	=	TYPICAL
U.O.N.	=	UNLESS OTHERWISE NOTED
WASH.	=	WASHER
W.H.	=	WATER HEATER
W.P.	=	WEATHER PROOF
W.W.M.	=	WELDED WIRE MESH
WDW. HT.	=	WINDOW HEIGHT
WD.	=	WOOD

SYMBOLS

—o	=	HOSE BIB
S	=	SWITCH
S_3	=	3-WAY SWITCH
	=	LIGHT FIXTURE
	=	EXHAUST FAN & LIGHT
	=	SMOKE DETECTOR
	=	SHOWER HEAD
	=	TELEPHONE JACK
	=	CONVENIENCE OUTLET
	=	220 VOLT OUTLET
	=	GROUND FAULT INTERRUPTER
	=	CEILING FAN
C	=	CARBON MONOXIDE ALARM

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ORIGINAL PURCHASE AGREEMENT

SEE ATTACHED CONSTRUCTION LICENSE FOR INVOICE NUMBER 13105.

BUILDING CODE INFORMATION

THIS PLAN HAS BEEN DRAWN TO CONFORM TO THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION (2015 INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, CURRENT EDITION) WITH AMENDMENTS UNLESS OTHERWISE NOTED. (SEE ATTACHMENTS)

PRIOR TO CONSTRUCTION

THE CONTRACTOR SHALL REVIEW THE PLAN(S) FOR THIS PARTICULAR BUILDING PROJECT TO ENSURE COMPLIANCE WITH ALL NATIONAL, STATE AND LOCAL CODES, CLIMATIC GEOGRAPHIC DESIGN CRITERIA, AND ANY OTHER PROVISIONS THAT MAY BE REQUIRED BY VA/FHA/RD.

THE CONTRACTOR SHALL VERIFY PLAN DIMENSIONS, STRUCTURAL COMPONENTS, AND GENERAL SPECIFICATIONS CONTAINED IN THIS SET OF PLANS AND REPORT ANY DISCREPANCIES TO STANDARD HOMES PLAN SERVICE, INC. FOR JUSTIFICATION OR CORRECTION BEFORE PROCEEDING WITH WORK ON HOUSE.

THE CONTRACTOR SHALL DETERMINE ROUGH OPENING SIZES FOR ALL BUILT-IN EQUIPMENT AND/OR FACILITIES AND ADJUST PLAN DIMENSIONS AS REQUIRED.

DO NOT SCALE FROM BLUEPRINTS. REFER TO THE LABELED DIMENSIONS FOR ACTUAL MEASUREMENTS.

IT SHALL BE THE RESPONSIBILITY OF THE OWNER/BUILDER TO PROVIDE FOR THE SERVICES OF A PROFESSIONAL ENGINEER IF REQUIRED BY THE BUILDING CODE OFFICIAL.

SHIPPING DATE : _____

STAMP MUST APPEAR IN RED. PLANS FOR WHICH A BUILDING PERMIT HAS NOT BEEN OBTAINED ONE YEAR FROM THE ABOVE DATE IS SUBJECT TO REVIEW BY STANDARD HOMES PLAN SERVICE, INC. A FEE MAY BE CHARGED FOR THIS SERVICE.

NOTICE TO CONTRACTOR:
All construction must comply with the Building Codes and is subject to field inspection and verification.
APPROVED
Limited building only review
Permit holder responsible for full compliance with the code
04/17/2023
Harnett COUNTY NORTH CAROLINA

EXCAVATION

EXCAVATE TO UNDISTURBED SOIL. BOTTOM OF FOOTING SHALL EXTEND BELOW LOCAL FROST LINE AND TO A MINIMUM DEPTH OF 12" BELOW ADJACENT GRADE. (PRESUMED 2000 PSF SOIL BEARING CAPACITY).

EXPANSIVE, COMPRESSIVE OR SHIFTING SOILS SHALL BE REMOVED TO A DEPTH AND WIDTH SUFFICIENT TO ASSUME A STABLE MOISTURE CONTENT IN EACH ACTIVE ZONE.

FOUNDATION

PROVIDE 1/2" DIA. STEEL ANCHOR BOLTS 6'-0" O.C., 1'-0" MAX. FROM CORNERS AND 1'-0" MAX. FROM ENDS OF EACH PLATE SECTION, WITH 7" MIN. EMBEDMENT.

PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.

SLOPE GRADE AWAY FROM FOUNDATION WALLS 8" MINIMUM WITHIN THE FIRST 10 FEET.

PROVIDE PRESSURE TREATED LUMBER FOR SILLS, PLATES, BANDS AND ANY LUMBER IN CONTACT WITH MASONRY.

PROVIDE APPROVED AND BONDED CHEMICAL SOIL TREATMENT AGAINST FUNGUS, TERMITES AND OTHER HARMFUL INSECTS.

CRAWL SPACE

ALL GIRDER JOINTS AND ENDS OF GIRDERS SHALL REST ON SOLID BEARINGS. FILL CORES OF HOLLOW MASONRY TO FOOTING WITH CONCRETE. FILL TOP COURSE CORES OF EXTERIOR FOUNDATION WALL WITH CONCRETE.

FOOTINGS SHALL EXTEND 6" AND SHALL BE 12" THICK UNDER GIRDER PIERS.

CHIMNEY FOOTING SHALL EXTEND 12" MINIMUM BEYOND EACH SIDE AND SHALL BE AT LEAST 12" THICK.

BASEMENT

ALL GIRDER JOINTS SHALL BREAK ON COLUMN CENTER LINES (STAGGERED) AND ENDS OF GIRDERS SHALL REST ON SOLID MASONRY.

DOUBLE SILL AND USE LEDGER OVER ALL BASEMENT OPENINGS.

ALL BASE. SASH SHALL BE 18/20 2-LT. 3'-3 7/8" X 1'-11 15/16" 3420 HB.

FRAMING

ALL FLOOR JOISTS, CEILING JOISTS, RAFTERS, GIRDERS, HEADERS, SILLS AND BEAMS SHALL BE NO. 2 SPRUCE/PINE/FIR (S.P.F.) UNLESS OTHERWISE INDICATED.

ALL LOAD BEARING WALLS SHALL BE STUD GRADE SPRUCE/PINE/FIR (S.P.F.) UNLESS OTHERWISE INDICATED.

DESIGN SPECIFICATIONS FOR LAMINATED VENEER LUMBER (LVL) BEAMS AND HEADERS :
GRADE : 2950Fb-2.0E
BENDING Fb : 2950
MOE : 2.0 X 10^6
SHEAR Fv : 290

SUPPORT FOR HEADERS:
HEADERS SHALL BE SUPPORTED ON EACH END WITH ONE OR MORE JACK STUDS OR WITH APPROVED FRAMING ANCHORS IN ACCORDANCE WITH BUILDING CODE (SEE PLAN). THE FULL-HEIGHT STUD ADJACENT TO EACH END OF THE HEADER SHALL BE END NAILED TO EACH END OF THE HEADER WITH FOUR-16D NAILS. SEE TABLE BELOW.

MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS:

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES	
	16	24
3 FEET OR LESS	1	1
4 FT.	2	1
8 FT.	3	2
12 FT.	5	3
16 FT.	6	4

CLIMATIC AND GEOGRAPHICAL DESIGN CRITERIA

ROOF LIVE LOAD (POUNDS PER SQUARE FOOT) : 20 PSF
ULTIMATE DESIGN WIND SPEED (MILES PER HOUR) : 120 MPH
NOMINAL DESIGN WIND SPEED : 93 MPH
EXPOSURE CATEGORY "B" UNLESS OTHERWISE NOTED
WINDOW DESIGN PRESSURE RATING : DP 25
COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET OR LESS:

PRESSURE ZONE	ULTIMATE DESIGN WIND SPEED (MPH)			
	115	120	130	140
ZONE 1	13.1, -14.0	14.2, -15.0	16.7, -18.0	19.4, -21.0
ZONE 2	13.1, -18.0	14.2, -18.0	16.7, -21.0	19.4, -24.0
ZONE 3	13.1, -18.0	14.2, -18.0	16.7, -21.0	19.4, -24.0
ZONE 4	14.3, -15.0	15.5, -16.0	18.2, -19.0	21.2, -22.0
ZONE 5	14.3, -19.0	15.5, -20.0	18.2, -24.0	21.2, -28.0

ASSUMED MEAN ROOF HEIGHT: 17'-6"

SEISMIC CONDITION BY ZONE : ZONES A AND B
SUBJECT TO DAMAGE FROM WEATHERING : MODERATE
CLIMATE ZONES (UNLESS OTHERWISE NOTED): ZONES 3 AND 4
MINIMUM VALUES FOR ENERGY COMPLIANCE:
CEILING R-38; EXTERIOR WALLS R-15; CRAWL WALL R-10
WINDOW U-FACTOR ≤ 0.35; RECOMMENDED SHGC ≤ 0.30

MISCELLANEOUS

LOCATE ALL CONVENIENCE OUTLETS ABOVE KITCHEN BASE CABINETS 42" ABOVE FINISHED FLOOR.

EMERGENCY EGRESS REQUIREMENTS

IT SHALL BE THE RESPONSIBILITY OF THE OWNER/BUILDER TO VERIFY CONFORMITY WITH EGRESS REQUIREMENTS BASED ON SPECIFICATIONS PROVIDED BY WINDOW MANUFACTURER.

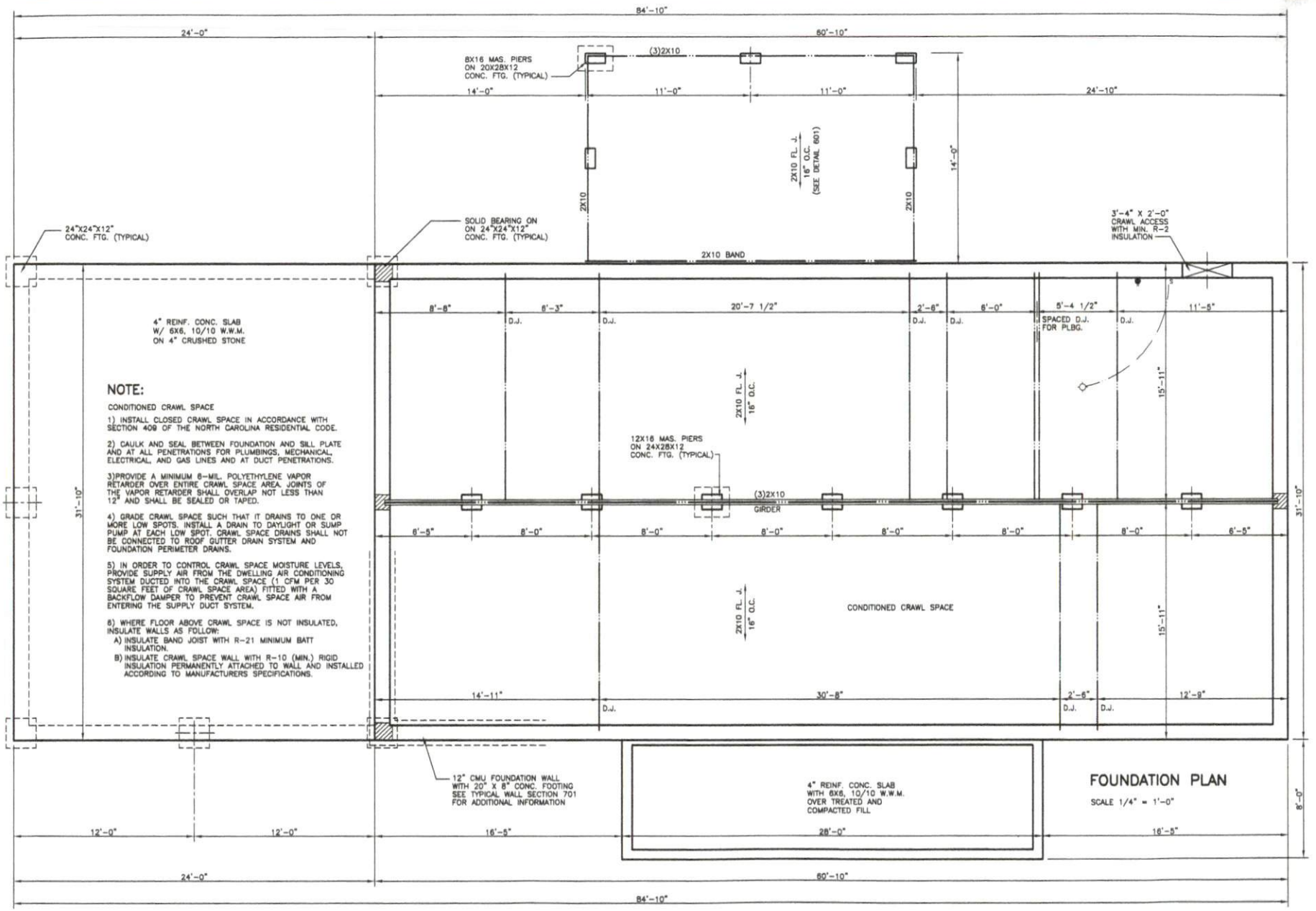
2018 NORTH CAROLINA RESIDENTIAL CODE

THE REQUIRED EGRESS WINDOW FROM EVERY SLEEPING ROOM SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE FINISHED FLOOR. THE NET CLEAR OPENING SHALL NOT BE LESS THAN 4.0 SQUARE FEET WHERE THE NET CLEAR OPENING HEIGHT SHALL BE AT LEAST 22 INCHES AND THE NET CLEAR OPENING WIDTH SHALL BE AT LEAST 20 INCHES. IN ADDITION THE MINIMUM TOTAL GLASS AREA SHALL NOT BE LESS THAN 5.0 SQUARE FEET IN THE CASE OF A GROUND STORY WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF A SECOND STORY WINDOW.

2015 INTERNATIONAL RESIDENTIAL CODE

THE REQUIRED EGRESS WINDOW FROM EVERY SLEEPING ROOM SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE FINISHED FLOOR. ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET EXCEPT GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET OPENING OF 5 SQUARE FEET. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES

TRUSS CONSTRUCTI
REVISED 10-24-22



FOUNDATION PLAN

SCALE 1/4" = 1'-0"

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DESIGNED

Standard Homes Plan Service, Inc.

7200 SUNSET LAKE ROAD FUQUAY-VARINA, NC 27526 (919)552-5677

SEE HOME DESIGN PREVIEWS ONLINE AT WWW.STANDARDHOMES.COM

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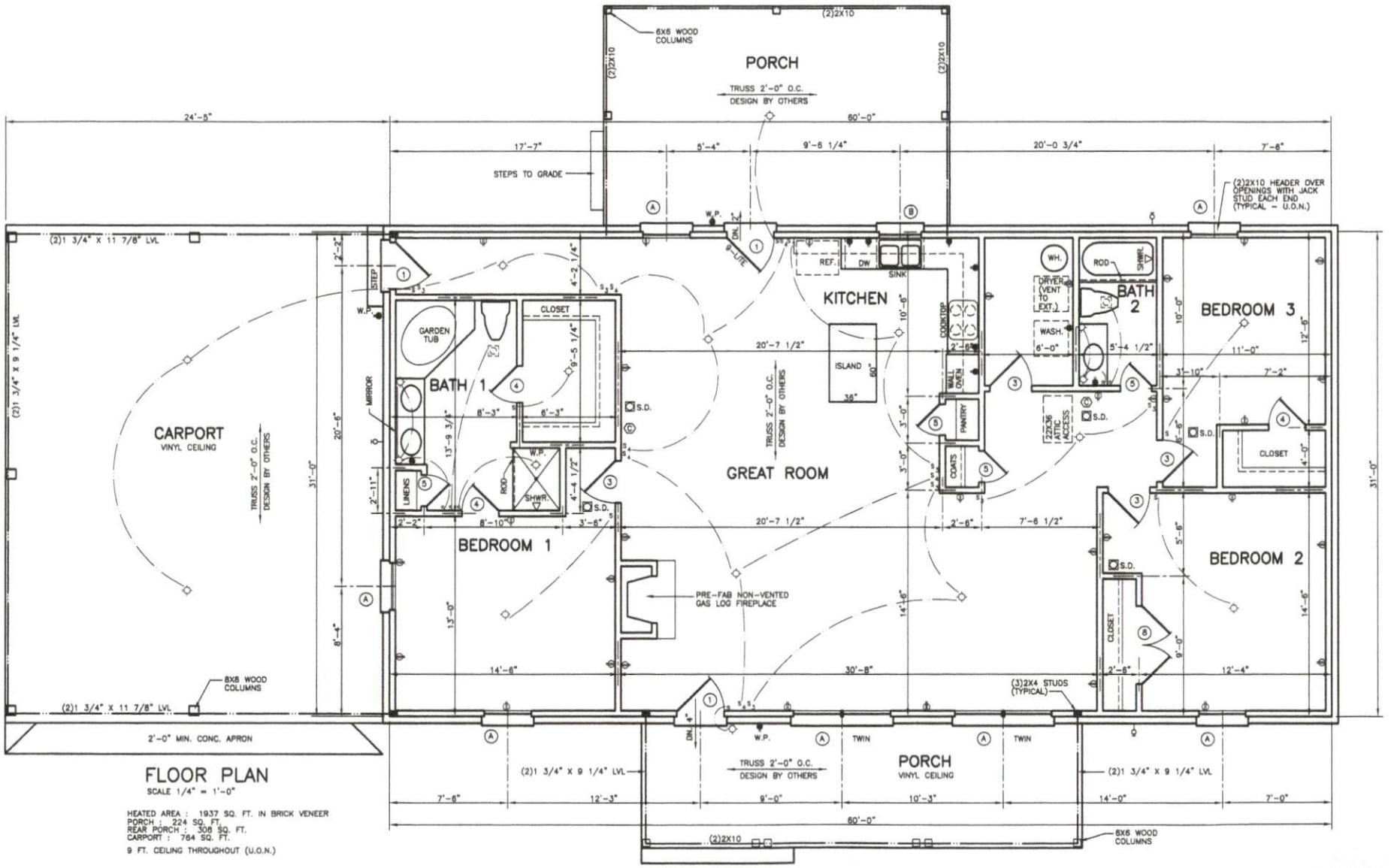
DESIGNED FOR	PLAN	NO.	MAT'L.	SHOWN	SH
LINDA AND ELTON MOORE	SCOTT	2	B.V.		2



FLOOR PLAN

SCALE 1/4" = 1'-0"

HEATED AREA : 1937 SQ. FT. IN BRICK VENEER
PORCH : 224 SQ. FT.
REAR PORCH : 308 SQ. FT.
CARPORT : 764 SQ. FT.

9 FT. CEILING THROUGHOUT (U.O.N.)

WINDOW SCHEDULE

A	3'-0" X 5'-2" WD. D.H.	D		G		L	
B	2'-8" X 4'-2" WD. D.H.	E		H		M	
C		F		K		N	

DOOR SCHEDULE

1	3'-0" X 6'-8" X 1 3/4"	4	2'-4" X 6'-8" X 1 3/8"	7	BIFOLD 5'-0" X 6'-8" X 1 3/8"	10	
2	2'-8" X 6'-8" X 1 3/4"	5	2'-0" X 6'-8" X 1 3/8"	8	DOUBLE OPENING 5'-0" X 6'-8" X 1 3/8"	11	
3	2'-8" X 6'-8" X 1 3/8"	6	1'-6" X 6'-8" X 1 3/8"	9		12	

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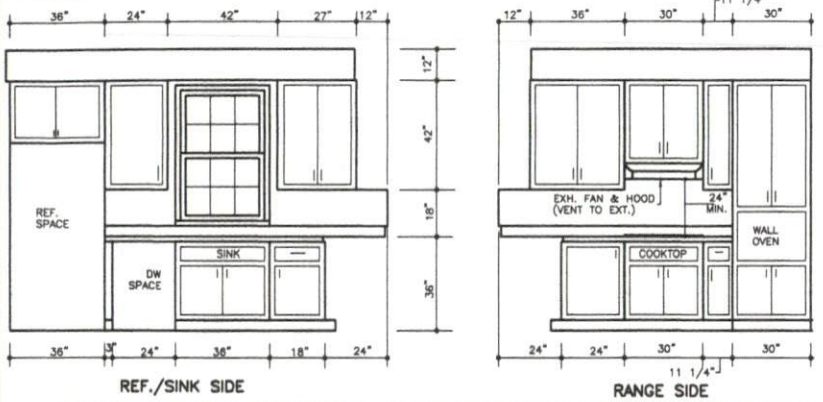
DESIGNED FOR LINDA AND ELTON MOORE

PLAN SCOTT NO. 2 MATERIAL B.V.

3 O



KITCHEN CABINET ELEVATIONS

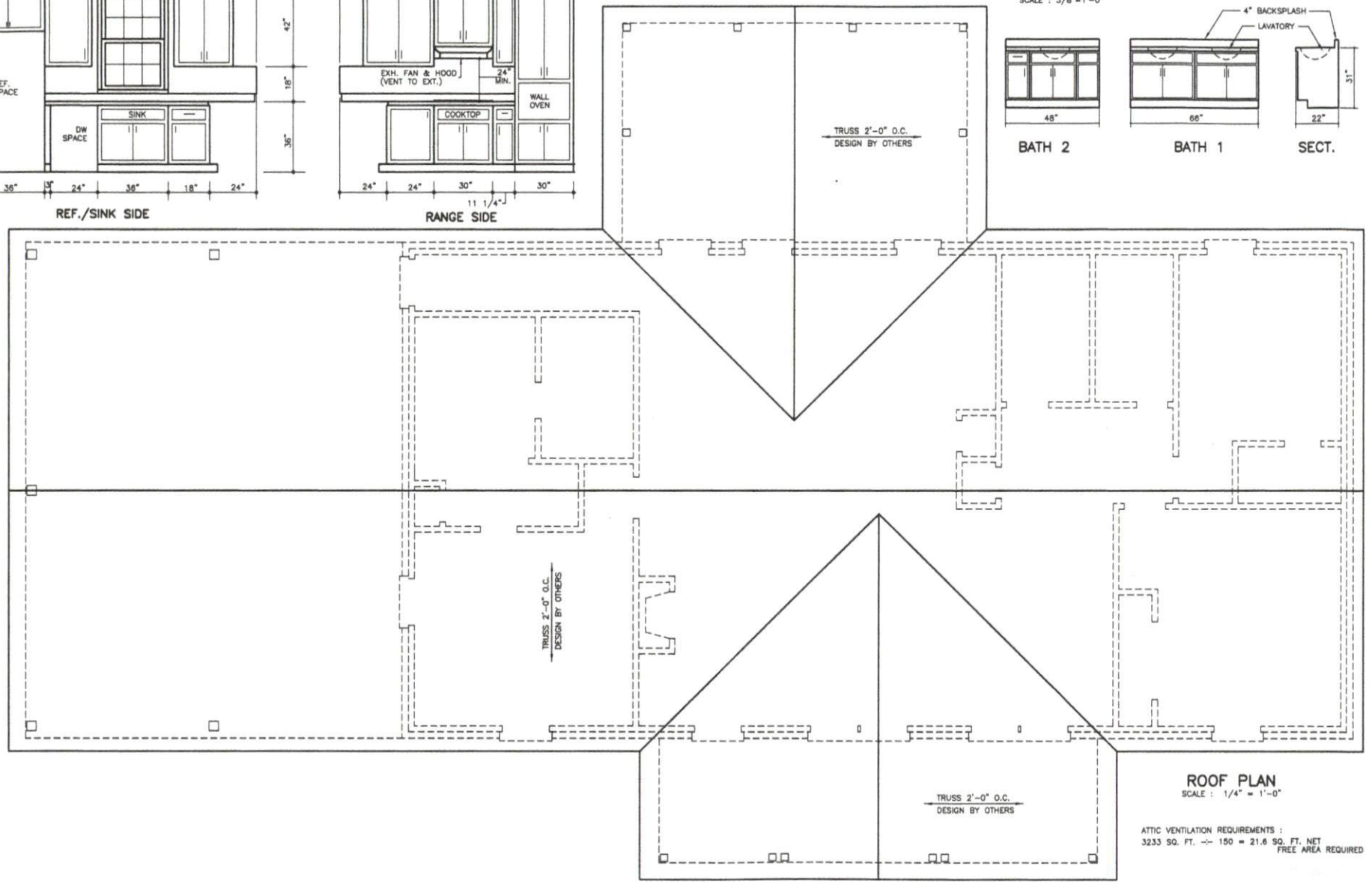
SCALE : 3/8"=1'-0"

FOR SECTION THRU CABINETS, SEE DETAIL ON COVER SHEET.

VANITY DETAILS

SCALE : 3/8"=1'-0"

BATH 2 BATH 1 SECT.



ROOF PLAN

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

ATTIC VENTILATION REQUIREMENTS :
3233 SQ. FT. ÷ 150 = 21.6 SQ. FT. NET FREE AREA REQUIRED

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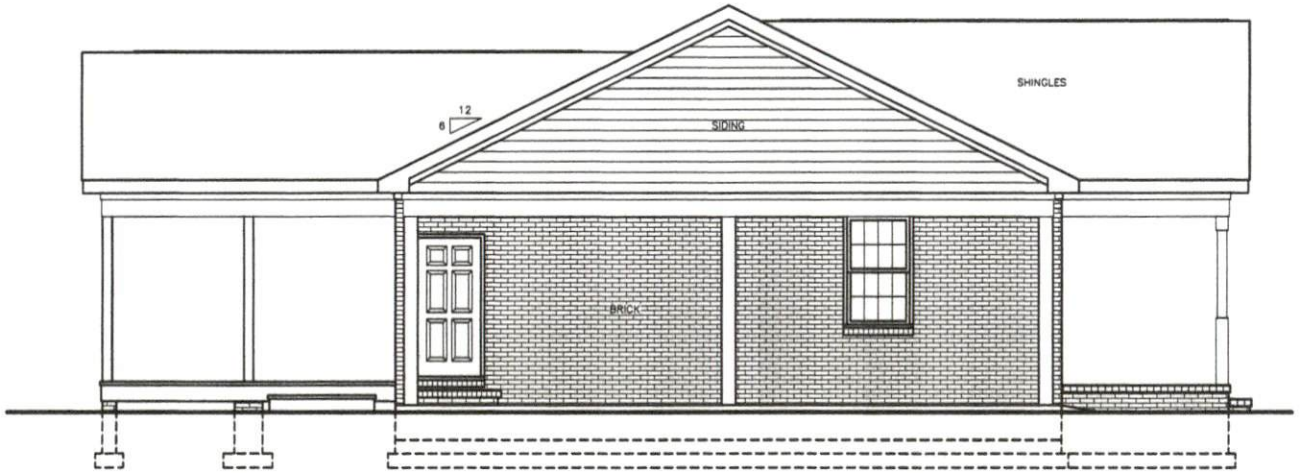
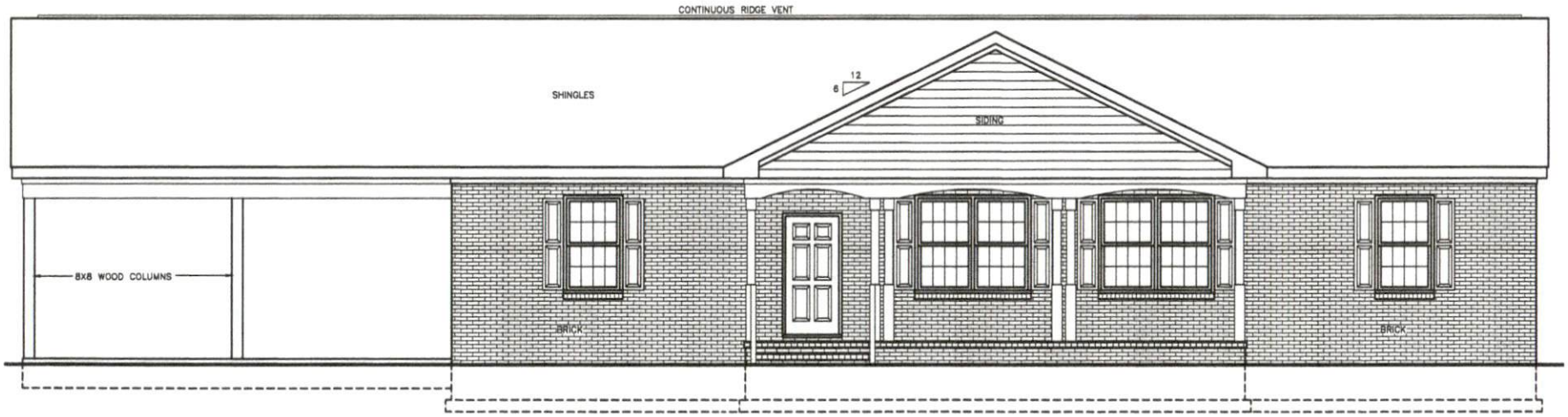
LINDA AND ELTON MOORE	SCOTT	2	B.V.		4 C



PROVIDE GUTTERS, DOWNSPOUTS AND SPLASHPADS ACCORDING TO LOCAL CODE AND RAINFALL CONDITIONS.

ALL SPLASHPADS SHALL CARRY WATER 60" FROM BUILDING.

LEFT SIDE ELEVATION



FRONT ELEVATION

SCALE 1/4" = 1'-0"

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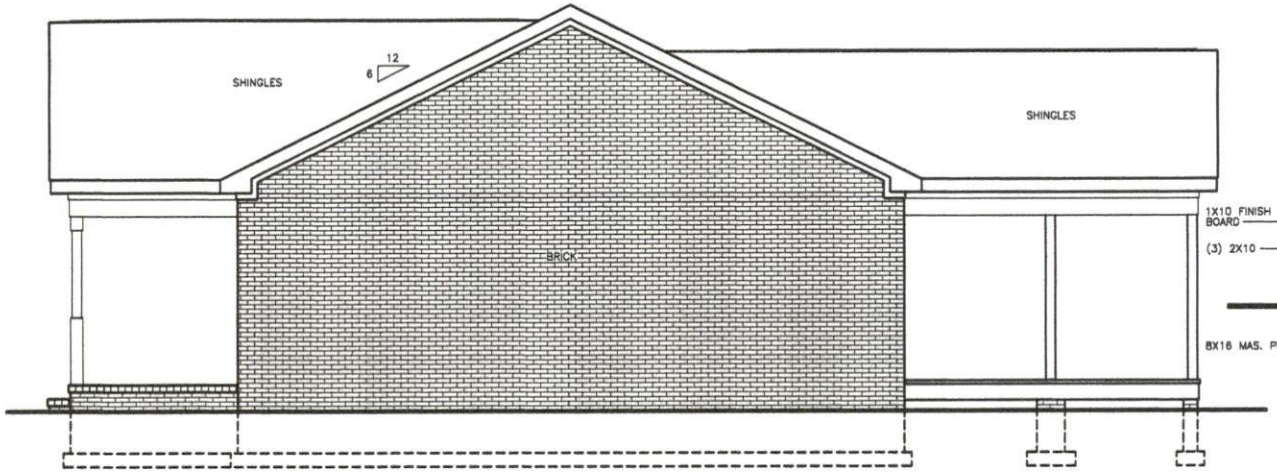
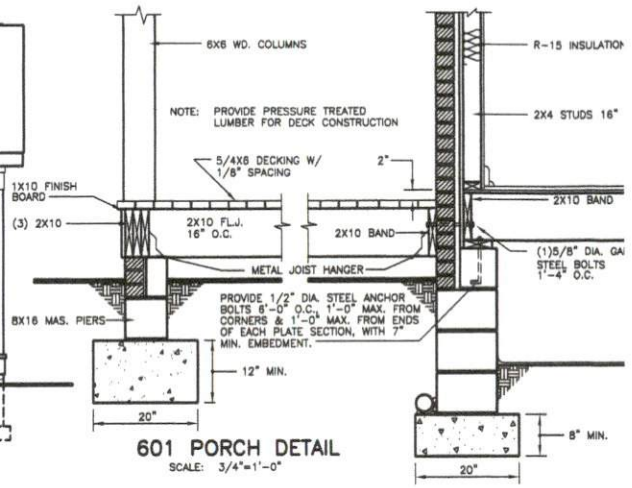


RIGHT SIDE ELEVATION



601 PORCH DETAIL

SCALE: 3/4"=1'-0"

REAR EALEVATION

SCALE 1/4" = 1'-0"

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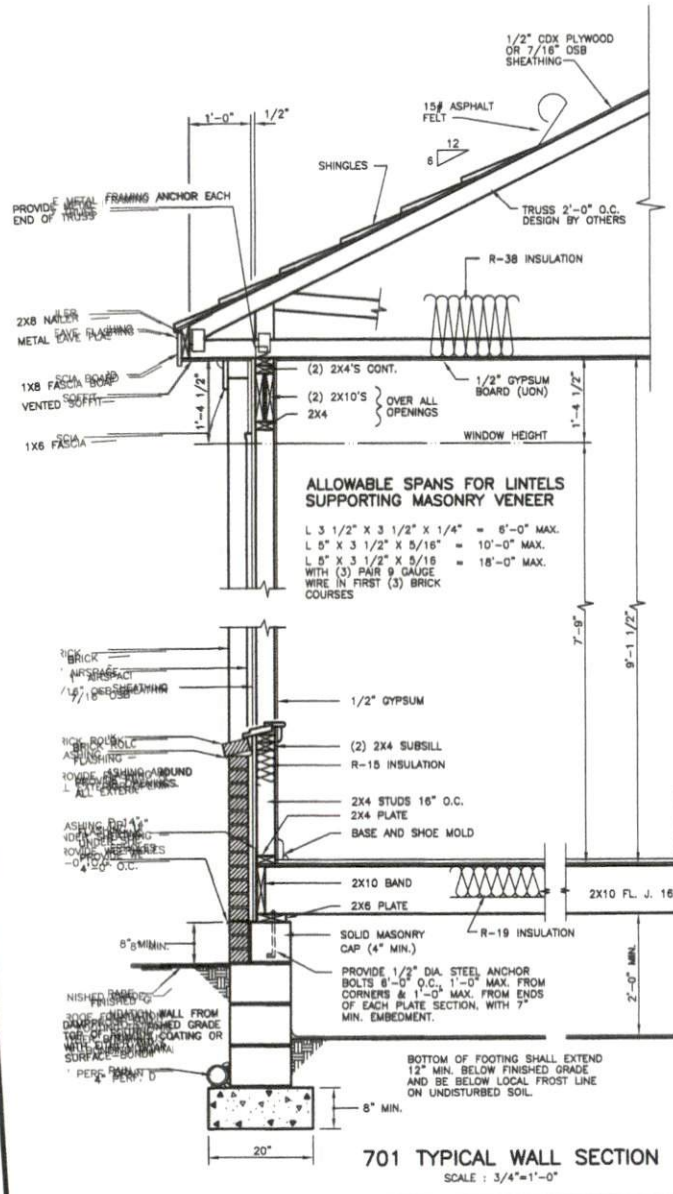
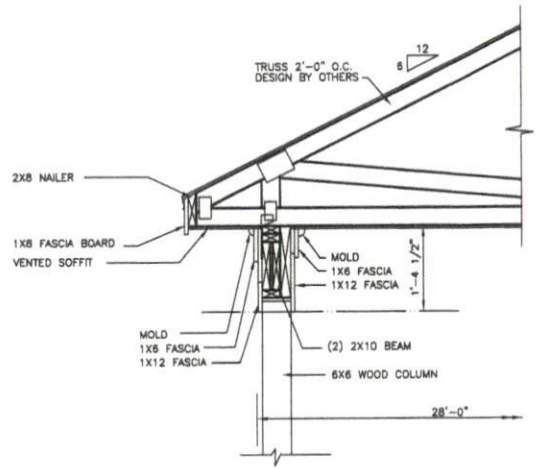


701 TYPICAL WALL SECTION

SCALE : 3/4"=1'-0"



702 SECTION THRU FRONT PORCH

SCALE : 3/4" = 1'-0"

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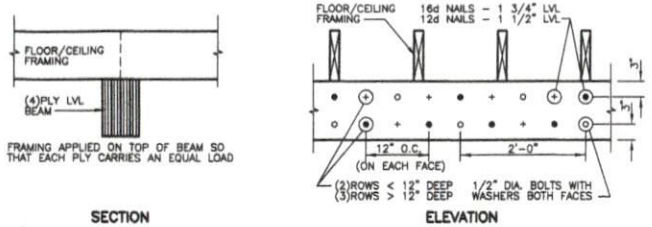
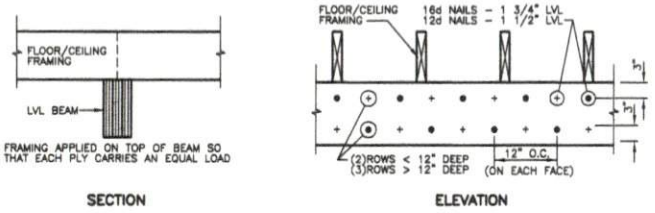
LINDA AND ELTON MOORE	SCOTT	2	B.V.		7

CONNECTION OF MULTIPLE PLY BEAMS

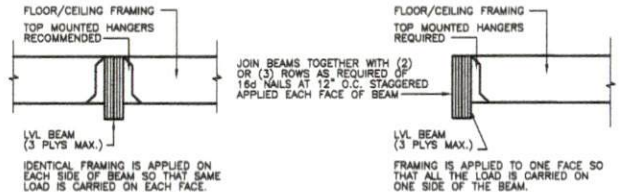
(INSTALLATION & CONNECTION OF BEAMS SHALL BE ACCORDING TO MANUFACTURERS SPECIFICATIONS)



D001
TOP LOADED (4 PILES)



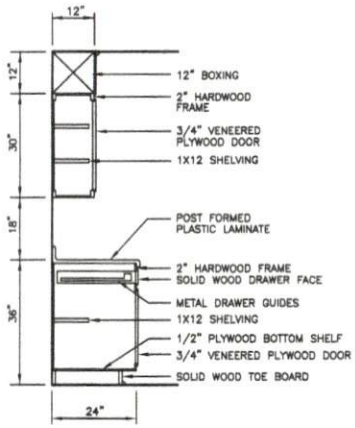
D002
TOP LOADED (3 PILES MAXIMUM)



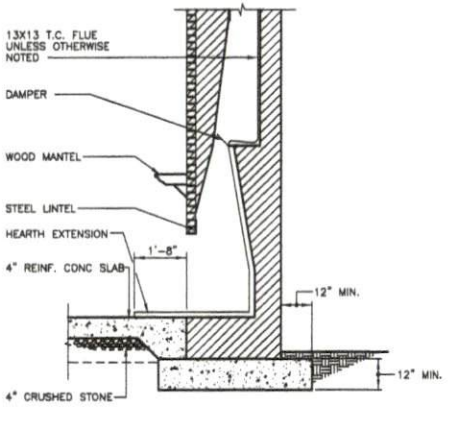
D003
SIDE LOADED

MINUMUM UNIFORMLY DISTRIBUTED LIVE LOADS (PSF)	
USE	LIVE LOAD
UNINHABITABLE ATTICS WITHOUT STORAGE	10
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20
HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS	30
BALCONIES AND DECKS	40
ROOMS OTHER THAN SLEEPING ROOMS	40
SLEEPING ROOMS	30
STAIRS	40
FIRE ESCAPES	40
GUARDS AND HANDRAILS	200
GUARD IN-FILL COMPONENTS	50
PASSENGER VEHICLE GARAGES	50

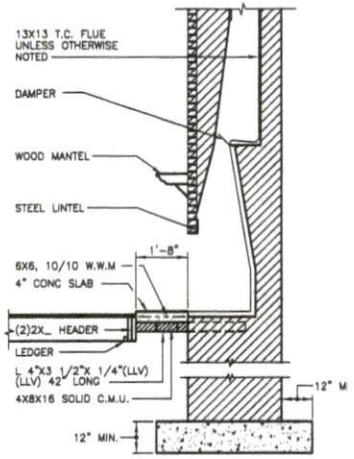
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS (NOTE : L = SPAN LENGTH ; H = SPAN HEIGHT)	
STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
RAFTERS HAVING SLOPES GREATER THAN 3:12 WITH FINISHED CEILING NOT ATTACHED TO RAFTERS	L/180
FLOORS	L/360
CEILING WITH BRITTLE FINISHES (INCLUDING PLASTER AND STUCCO)	L/360
CEILING WITH FLEXIBLE FINISHES (INCLUDING GYPUSM BOARD)	L/240
ALL OTHER STRUCTURAL MEMBERS	L/240
LINTELS SUPPORTING MASONRY VENEER WALLS	L/600
INTERIOR WALLS AND PARTITIONS	H/180
EXTERIOR WALLS - WIND LOADS WITH PLASTER OR STUCCO FINISH	H/360
EXTERIOR WALLS - WIND LOADS WITH OTHER BRITTLE FINISHES	H/240
EXTERIOR WALLS - WIND LOADS WITH FLEXIBLE FINISHES	H/120



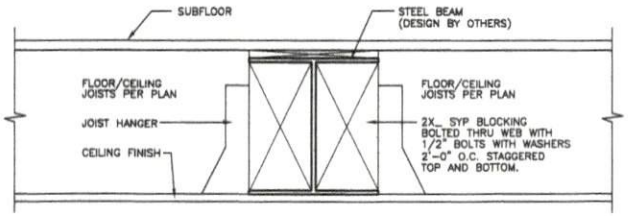
SECTION THRU
KITCHEN CABINETS



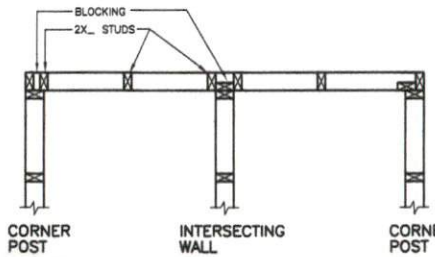
D005
SECT. THRU FIREPLACE ON CONCRETE SLAB



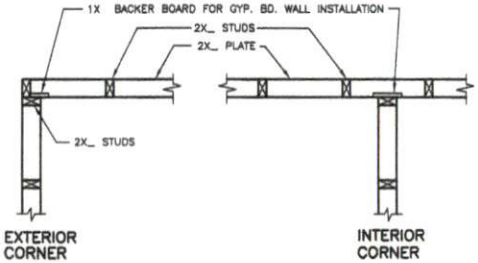
D006
SECT. THRU FIREPLACE ON WOOD FLOC



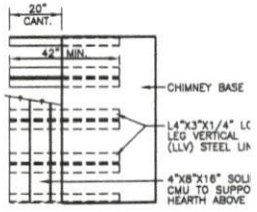
D004
SECTION THRU STEEL BEAM



D007
DETAIL BASIC WALL FRAMING



D008
DETAIL ADVANCED WALL FRAMING



PLAN VIEW
OF SUSPENDED HEARTH

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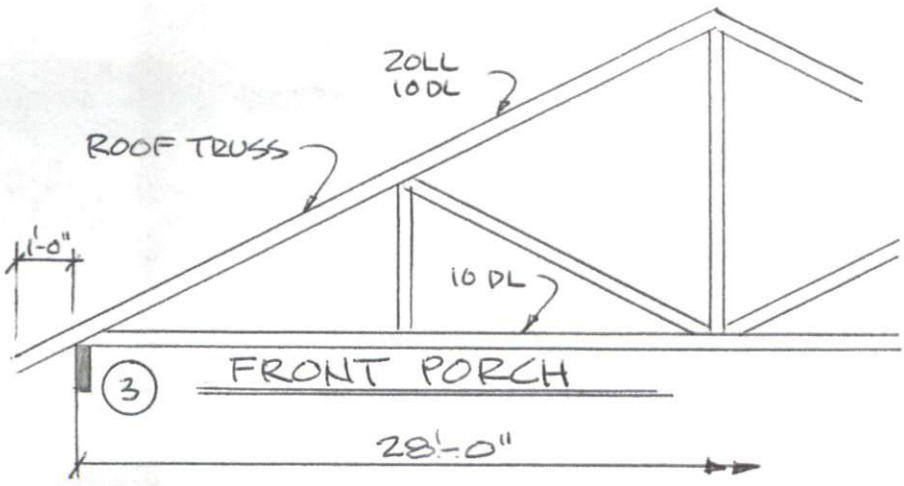
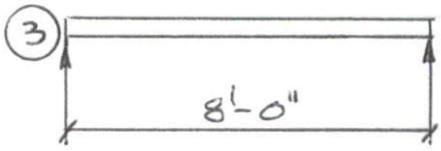
STANDARD CONSTRUCTION DETAILS



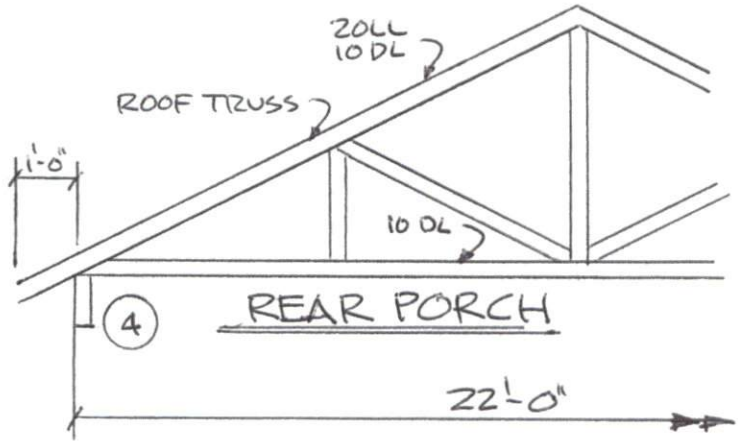
SCOTT No. 2
FOR: ELTON & LINDA MOORE
PERMIT:
REVISED:
DATE: 10-24-22

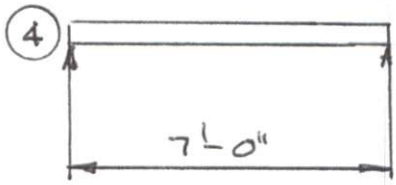


(3) $w = (15'-0")(40\ PSF)$

$w = 600\ PLF$

Choose 2 (1 3/4") (9 1/4") LVL (see attached)





(4) $w = (12'-0")(40\ PSF)$

$w = 480\ PLF$

Choose (2) 2x10 # 2 SPF PER 2018 NCRC, APPENDIX W

GANG LAM LVL BY LOUISIANA PACIFIC 2950 Fb - 2.0 E

GANG-LAM LVL 2950 Fb 2.0E MAXIMUM UNIFORM LOAD (PLF)

ALLOWABLE FLOOR LOADS (PLF) 100%

Beam Span (Ft)	1 Ply 1¾ x 7¼			1 Ply 1¾ x 9¼			1 Ply 1¾ x 9½			1 Ply 1¾ x 11¼			1 Ply 1¾ x 11⅞			1 Ply 1¾ x 14			1 Ply 1¾ x 16 * Refer To Note 4			1 Ply 1¾ x 18 * Refer To Note 4		
	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load
	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240
6	681	522	777	1046	1016	1046	1082	1082	1082	1348	1348	1348	1450	1450	1450	1827	1827	1827	2233	2233	2233	2698	2698	2698
7	443	337	639	864	669	864	893	720	893	1102	1102	1102	1181	1181	1181	1470	1470	1470	1772	1772	1772	2110	2110	2110
8	303	229	441	603	461	736	649	497	760	932	794	932	996	918	996	1229	1229	1229	1469	1469	1469	1732	1732	1732
9	215	163	315	434	330	607	467	356	637	748	574	807	861	667	861	1056	1041	1056	1254	1254	1254	1468	1468	1468
10	158	120	231	321	244	467	347	263	504	559	427	704	649	497	758	925	784	925	1094	1094	1094	1274	1274	1274
11	120	90	174	244	185	355	263	199	384	428	325	584	498	380	644	785	603	823	969	870	969	1125	1125	1125
12	93	70	134	189	143	276	205	155	298	334	253	484	389	296	543	618	473	732	870	686	870	1007	945	1007
13	73	55	105	150	113	218	162	122	235	265	201	385	310	235	449	495	377	625	717	550	790	911	761	911
14	59	44	84	121	91	175	130	96	189	214	162	310	250	189	363	401	305	541	584	446	689	807	621	832
15	48	36	68	98	74	142	106	80	154	175	132	253	205	155	297	329	250	472	481	367	601	668	512	744
16	40	-	55	81	61	117	88	66	126	145	109	209	170	128	245	274	207	396	401	305	529	559	427	656
17	33	-	46	68	51	97	74	55	105	121	91	174	142	107	205	230	174	332	337	256	469	472	359	582
18	-	-	38	58	43	81	62	47	88	102	77	147	120	91	172	194	147	281	286	217	413	401	305	520
19	-	-	32	49	37	68	53	40	74	87	66	124	102	77	146	166	125	239	245	185	353	344	261	467
20	-	-	-	42	32	58	46	34	63	75	57	106	88	66	125	143	108	205	211	160	304	297	225	421
21	-	-	-	37	-	50	39	-	54	65	49	91	76	57	108	124	93	177	183	138	263	258	195	371
22	-	-	-	32	-	43	34	-	47	57	43	79	66	50	93	108	81	154	160	121	229	225	170	324
23	-	-	-	-	-	37	-	-	40	50	37	68	58	44	81	95	71	134	140	106	200	198	150	284
24	-	-	-	-	-	32	-	-	35	44	33	60	51	39	71	84	63	117	124	93	176	175	132	250
25	-	-	-	-	-	-	-	-	-	39	-	52	46	34	62	74	56	103	110	83	155	155	117	221
26	-	-	-	-	-	-	-	-	-	35	-	46	41	31	55	66	50	91	98	74	138	138	104	196
27	-	-	-	-	-	-	-	-	-	31	-	41	36	-	48	59	45	81	88	66	122	124	93	175
28	-	-	-	-	-	-	-	-	-	-	-	36	33	-	43	53	40	72	79	59	109	111	84	156
29	-	-	-	-	-	-	-	-	-	-	-	32	-	-	38	48	36	64	71	53	98	100	76	140
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	43	33	57	64	48	88	91	68	126

How to use maximum uniform load tables:

1. Select the correct table for the beam application you need.
2. Choose the required beam span in the left column.
3. Select a beam depth from the tables that satisfies **BOTH** the live and total load PLF on the beam.
4. Check the bearing requirements as shown on page 8.

Example: Floor live load 480 PLF, L/360 deflection limit.
Floor total load 660 PLF, L/240 deflection limit.
Beam span 14' - 0"

Solution: Try 2 plies 1¾" x 11⅞", which can carry:
- Live load 2 x 250 = 500 > 480 PLF ✓OK
- Total load 2 x 363 = 726 > 660 PLF ✓OK

Notes (for page 6 and 7)

1. Beam spans are defined as follows: Simple span dimensions are measured from inside face of supports. Multiple span dimensions are measured from inside face of exterior supports to center line of interior supports.
2. These tables are for simple spans (with a support at each end) or for continuous (multiple span) beams if spans are equal.
3. PLF values are for a single ply of 1¾" Gang-Lam LVL.
   - Double the values for two plies or 3½" thickness.
   - Triple the values for three plies or 5¼" thickness.

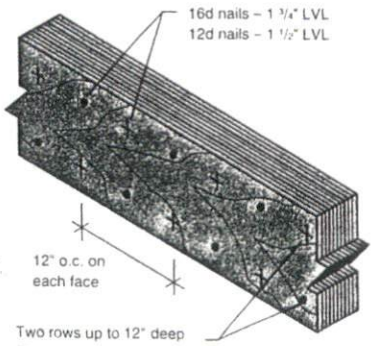
* 4. For 1¾" x 16" beams and deeper, two plies (minimum) are required.

5. More than three plies may require special design. Contact your L-P engineered products distributor.

CONNECTION OF MULTIPLE PLY BEAMS

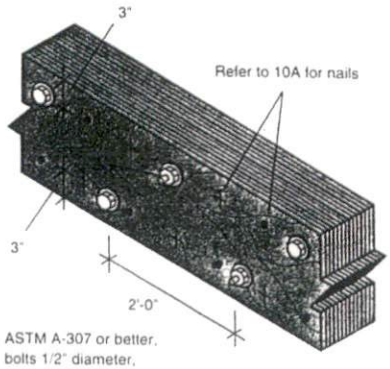
10A TOP LOADED (3 PLIES MAXIMUM)

Framing is applied on top of the beam so that each ply carries an equal load.



10B TOP LOADED 4 PLIES

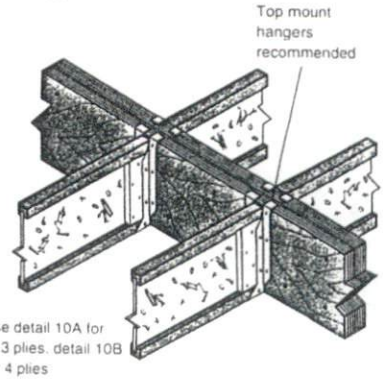
Framing is applied on top of the beam so that each ply carries an equal load.



ASTM A-307 or better, bolts 1/2" diameter, fenderwashers both faces

10C SIDE LOADED

The same framing is used on each side of the beam so the same load is carried on each face.



Use detail 10A for 2&3 plies. detail 10B for 4 plies

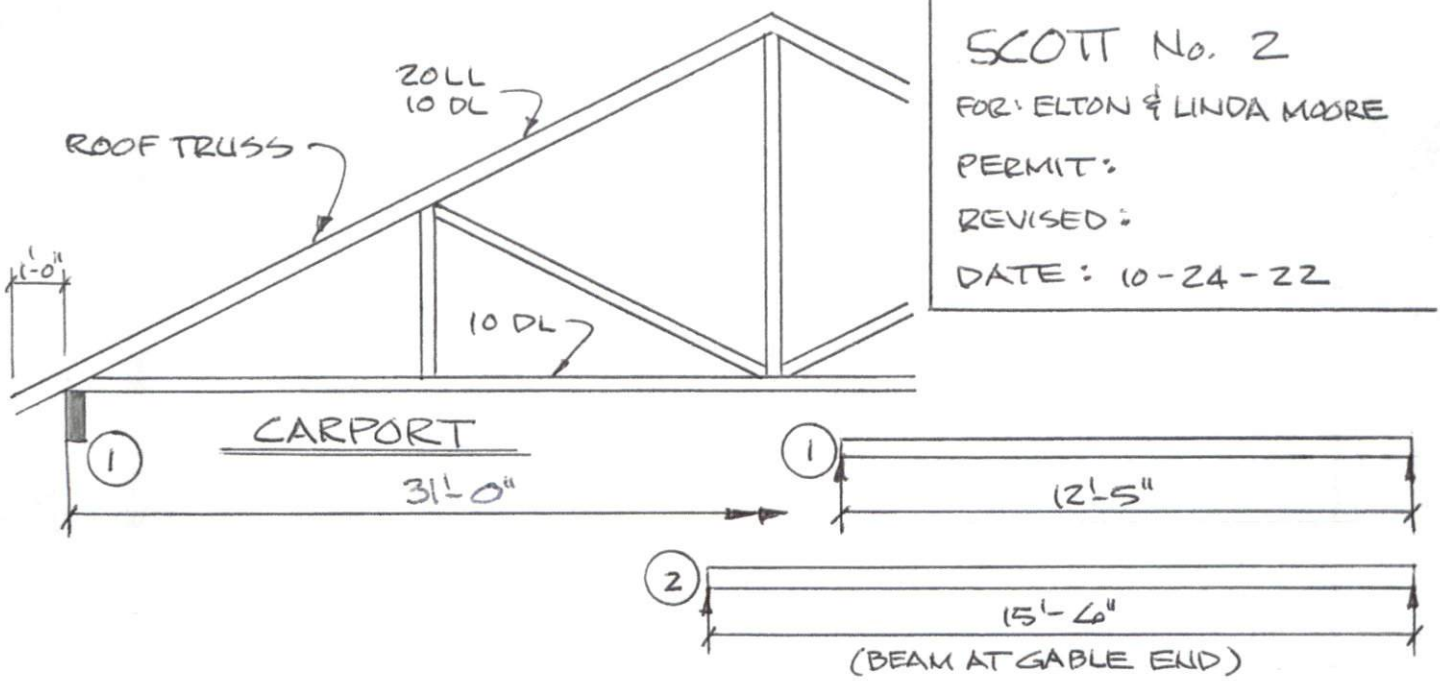
SCOTT No. 2

FOR: ELTON & LINDA MOORE

PERMIT:

REVISED:

DATE: 10-24-22



(1) $w = (16'-6")(40\ PSF)$

$w = 660\ PLF$

Choose (2) 1 3/4" x 11 7/8" LVL (See attached)

(2) $w = (2'-0")(40\ PSF) + (7'-0")(11\ PSF)$

$w = 157\ PLF$

Choose (2) 1 3/4" x 9 1/4" LVL (see attached)

GANG LAM LVL BY LOUISIANA PACIFIC 2950 F_b - 2.0E

GANG-LAM LVL 2950 Fb 2.0E MAXIMUM UNIFORM LOAD (PLF)

ALLOWABLE FLOOR LOADS (PLF) 100%

Beam Span (ft)	1 Ply 1¾ x 7¼			1 Ply 1¾ x 9¼			1 Ply 1¾ x 9½			1 Ply 1¾ x 11¼			1 Ply 1¾ x 11⅞			1 Ply 1¾ x 14			1 Ply 1¾ x 16 * Refer To Note 4			1 Ply 1¾ x 18 * Refer To Note 4		
	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load	Live Load Deflection		Total Load
	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240
6	681	522	777	1046	1016	1046	1082	1082	1082	1348	1348	1348	1450	1450	1450	1827	1827	1827	2233	2233	2233	2698	2698	2698
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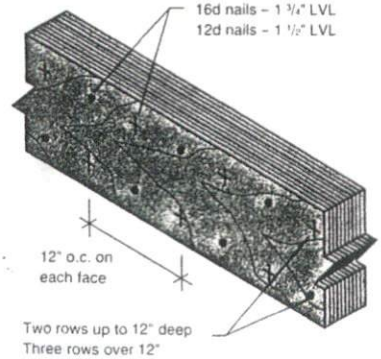

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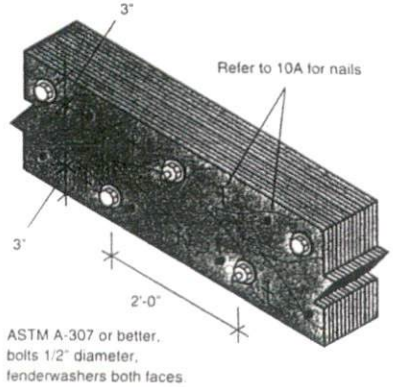

10C SIDE LOADED

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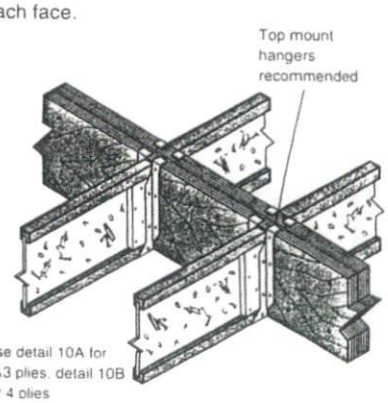


Peak Truss Builders, LLC

PO Box 340, New Hill, NC 27562

Comments and Clarifications

Job #:
Q-2300655
Customer:
Valued Customer
Address:

Description:
Scott (Moore)
Contact:

Site Address:
Dunn NC

Notes:
Roof Trusses

Truss Design Date:

1. All exterior/bearing walls are 2x4 (3-1/2" wide) unless otherwise noted.
2. The plan elevations on this job show brick. Per plans, truss overhang is measured from face of wood wall.
3. All perimeter dimensions on layout reflect outside to outside of the sheathing. Studs are held in 1/2" to allow sheathing to line up with edge of slab.
4. All trusses and engineered wood require proper bracing and blocking. Some bracing guidance is provided in our Field Installation Package. However, "systematic" or "whole house" bracing is the responsibility of the Engineer of Record.
5. Cantilever - - horizontal truss dimension is 12". Sub-fascia and fascia are beyond.
6. Carport and porch LVLs supplied by others.
7. No additional storage is considered in this design. If HVAC / attic storage is required, please specify so we can revise our quote and design.

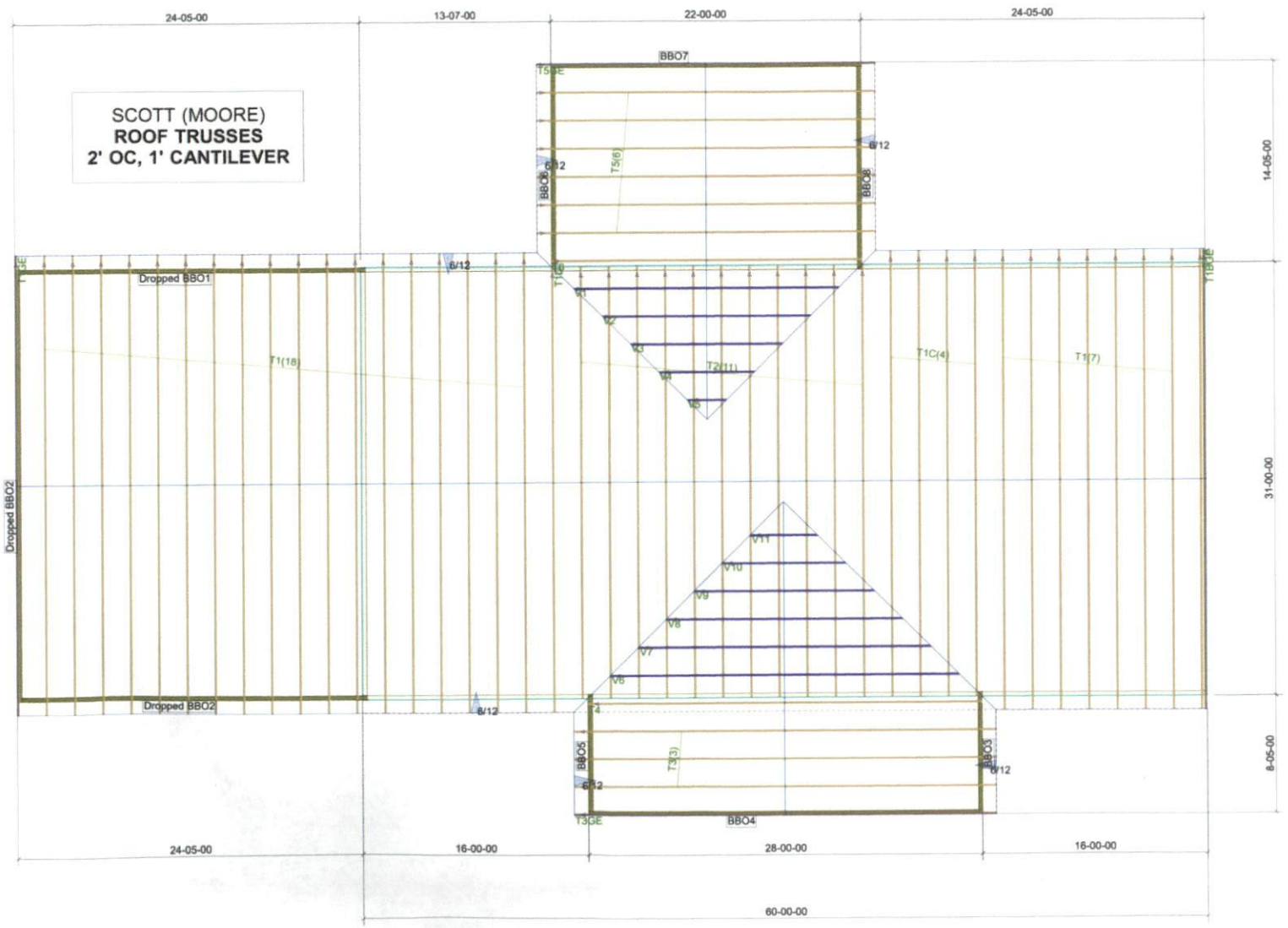
I have Reviewed and Approved above Clarifications:

Signed: _____ Date: _____

THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY.
PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS, SUCH AS PLUMBING OR DUCT DROPS.

PROPOSED DESIGN- NOT FOR CONSTRUCTION

SCOTT (MOORE)
ROOF TRUSSES
2' OC, 1' CANTILEVER



Notes:
1. Exterior dimensions shown are assumed to be:
   ☐ Out-to-out of stud
   ☒ Out-to-out of sheathing
2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing shown is not exceeded.
3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
4. Do not approve drawings if any information herein is unclear. Once ordered trusses will be fabricated as approved.
5. Please contact Peak Truss Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.com

Roof Truss Loading per 2018 NC Residential Code

Top Chord Live Load	20# PSF
Top Chord Dead Load	10# PSF
Bottom Chord Live Load	0# PSF
Bottom Chord Dead Load	10# PSF

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

△ - This symbol denotes left end of truss as shown on truss drawings

● - Approximate location of toilet drop. Builder please confirm.

Truss connections by others:
(N) -Nailed
(L) -Ledger

Wall Types

	Load Bearing
	Non Load Bearing

Job # Q-2300655

Scott (Moore)
Dunn NC
UNit / Lot:

Layout Creation Date: 3/30/2023
Designer: **Katie Bailey**

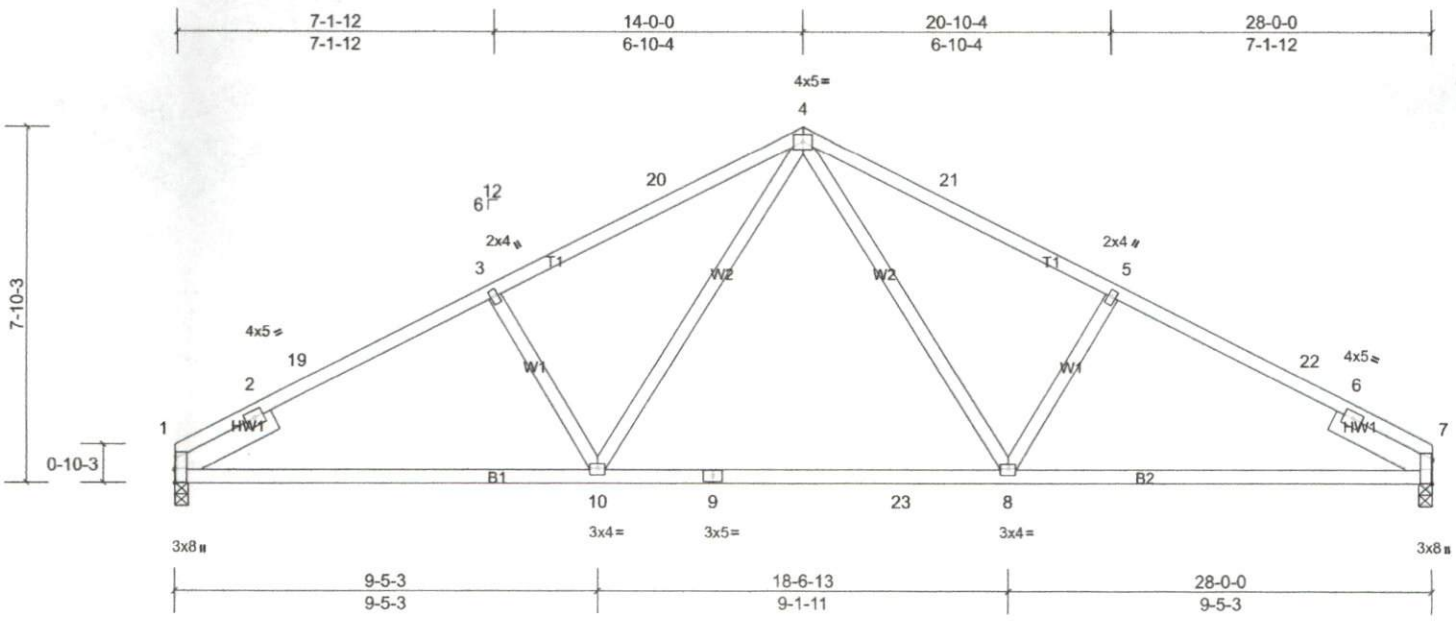
Valued Customer

Peak Truss Builders, LLC
PO Box 340, New Hill, NC 27562

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	T4	Common	1	1	Job Reference (optional)

Peak Truss Builders LLC, New Hill, user — Run: 8.62 S Nov 16 2022 Print: 8.620 S Nov 16 2022 MiTek Industries, Inc. Thu Mar 30 12:42:22 — Page: 1

ID:mrmWpjrEbJ7IVQByKx?Qo8zVlrt-E6WcNpC2pwUDhli8PYSrO20CUWp9pkmTRINRAuzVlmF



Scale = 1:48.5

Plate Offsets (X, Y): [1:0-3-8,Edge], [7:0-6-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.30	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.46	8-10	>729	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 139 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-8-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=1120/0-3-8, (min. 0-1-8), 7=1120/0-3-8, (min. 0-1-8)
Max Horiz 1=-104 (LC 9)
Max Uplift 1=-138 (LC 11), 7=-138 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-508/0, 2-19=-1736/247, 3-19=-1638/269, 3-20=-1578/277, 4-20=-1472/294, 4-21=-1472/294, 5-21=-1578/277, 5-22=-1640/269, 6-22=-1736/247, 6-7=-427/0
BOT CHORD	1-10=-183/1495, 9-10=-33/1048, 9-23=-33/1048, 8-23=-33/1048, 7-8=-160/1493
WEBS	4-8=-63/600, 5-8=-359/188, 4-10=-63/596, 3-10=-359/188

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 14-0-0, Exterior (2) 14-0-0 to 17-0-0, Interior (1) 17-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1 and 138 lb uplift at joint 7.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	T5	Common	6	1	Job Reference (optional)

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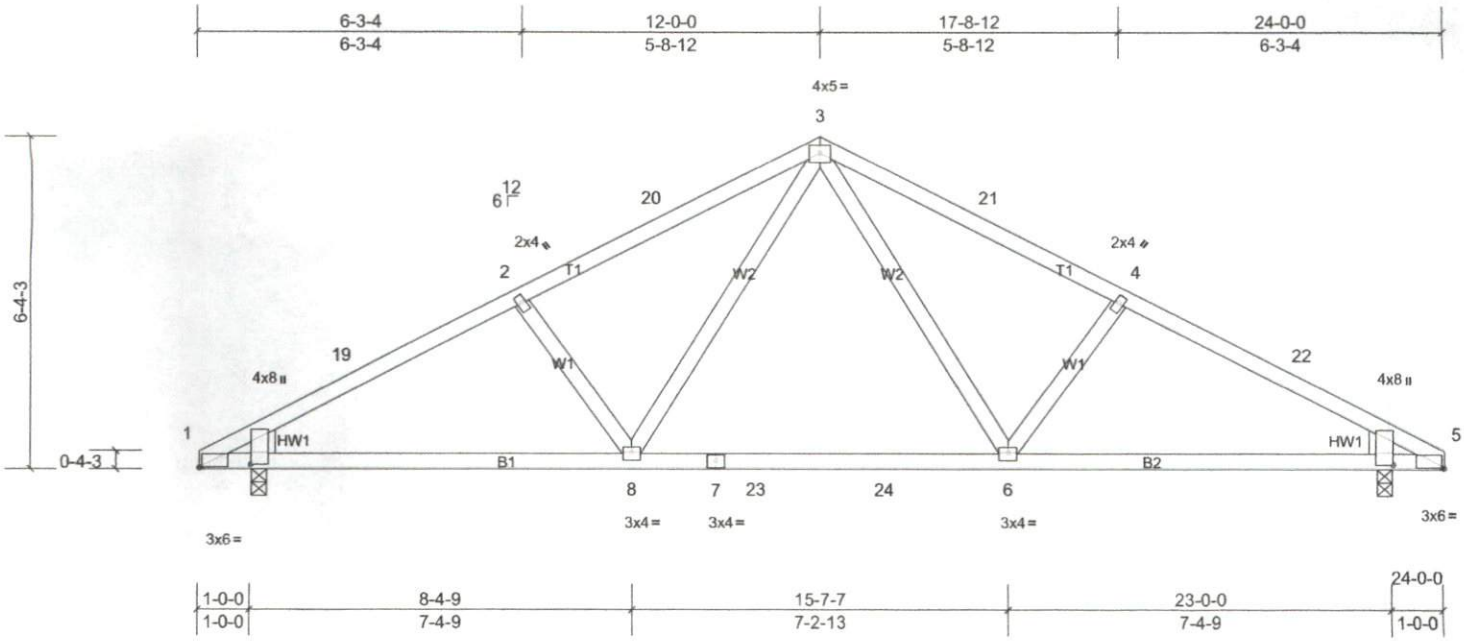

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Plate Offsets (X, Y): [1:0-0-8,0-0-2], [1:0-0-12,0-11-13], [5:0-0-8,0-0-2], [5:0-0-12,0-11-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.15	6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.26	6-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 111 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
WEDGE	Left: 2x6 SP No.2
	Right: 2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-9-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=960/0-3-8, (min. 0-1-8), 5=960/0-3-8, (min. 0-1-8)
Max Horiz 1=-89 (LC 9)
Max Uplift 1=-118 (LC 11), 5=-118 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-1342/188, 2-19=-1300/210, 2-20=-1179/204, 3-20=-1104/220, 3-21=-1104/220, 4-21=-1179/204, 4-22=-1300/210, 5-22=-1342/188
BOT CHORD	1-8=-112/1125, 7-8=-9/800, 7-23=-9/800, 23-24=-9/800, 6-24=-9/800, 5-6=-112/1125
WEBS	3-6=-35/403, 4-6=-266/147, 3-8=-35/403, 2-8=-266/147

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-0-0, Exterior (2) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 24-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 1 and 118 lb uplift at joint 5.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	T5GE	Common Supported Gable	1	1	Job Reference (optional)

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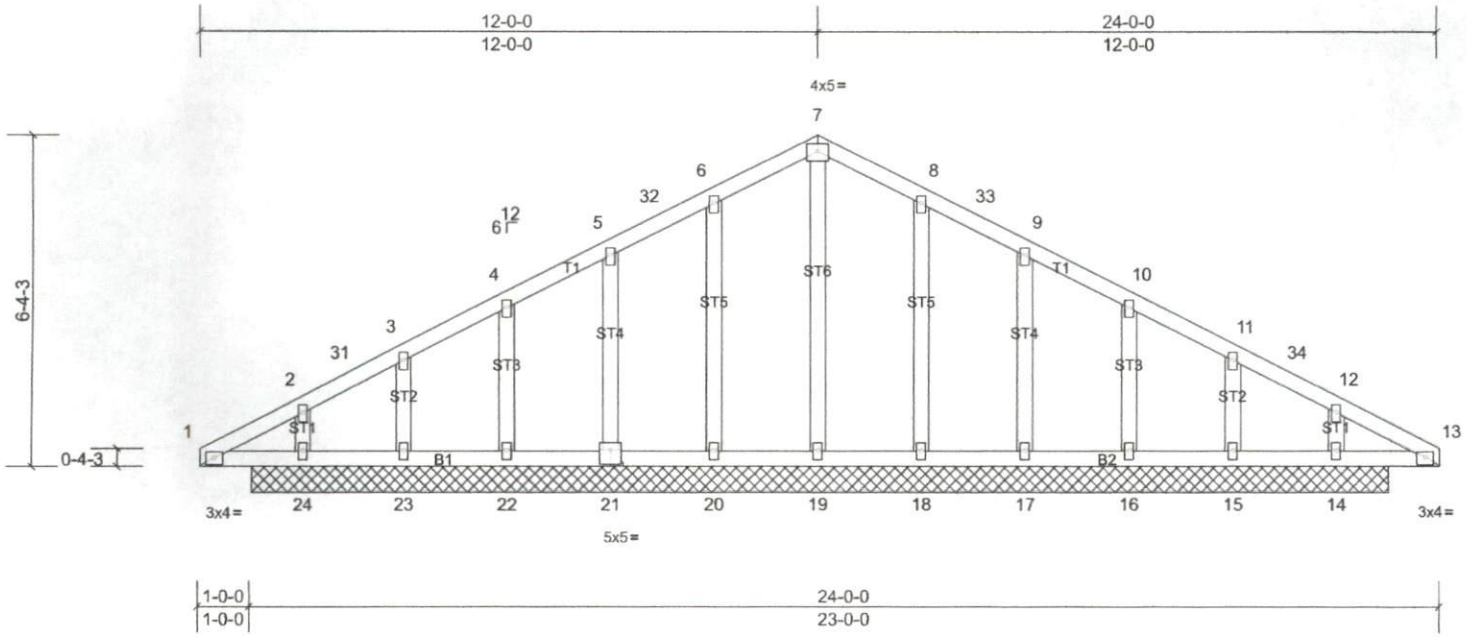

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Plate Offsets (X, Y): [21:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 126 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 22-0-0.

(lb) - Max Horiz 24=-89 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 14, 15, 16, 17, 18, 20, 21, 22, 23, 24

Max Grav All reactions 250 (lb) or less at joint(s) 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 12-0-0, Corner (3) 12-0-0 to 15-0-0, Exterior (2) 15-0-0 to 24-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22, 23, 24, 18, 17, 16, 15, 14.
8) Non Standard bearing condition. Review required.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	T6	Common	1	1	Job Reference (optional)

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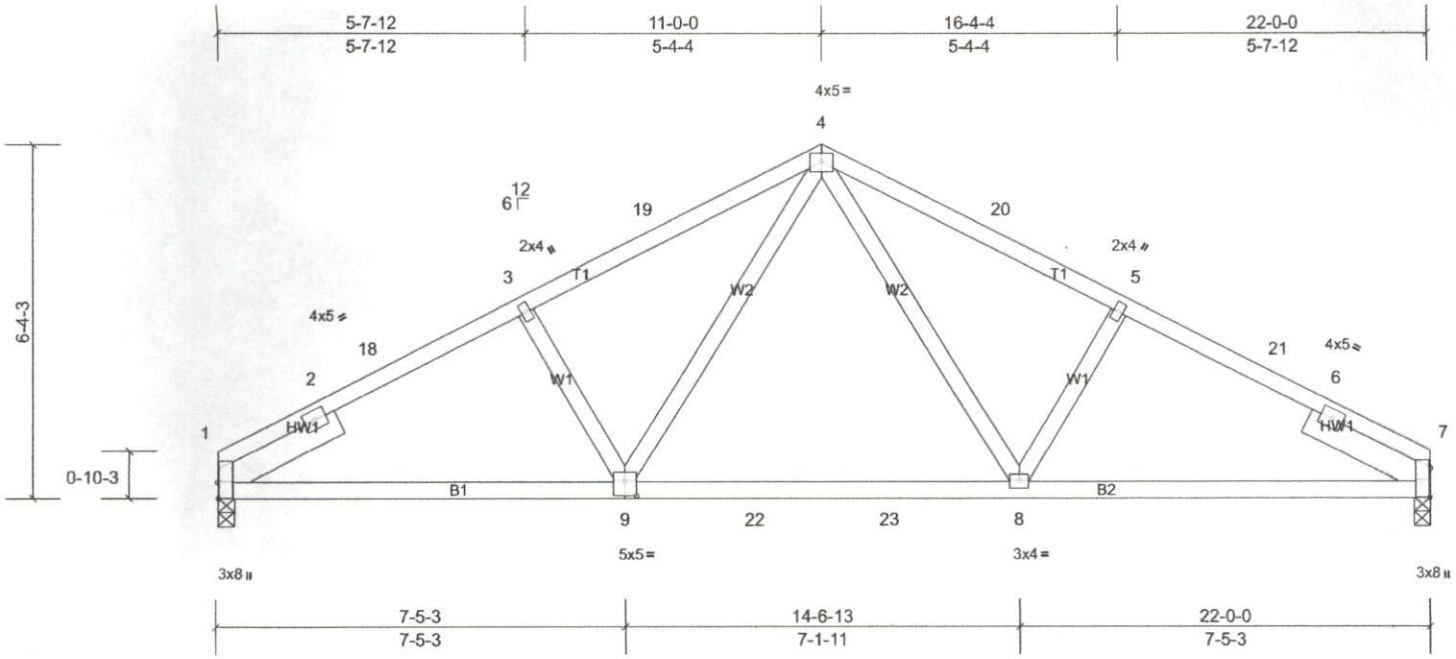

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Plate Offsets (X, Y): [1:0-3-8,Edge], [7:0-6-4,Edge], [9:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.11	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.19	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 112 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-1-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=880/0-3-8, (min. 0-1-8), 7=880/0-3-8, (min. 0-1-8)
Max Horiz 1=82 (LC 10)
Max Uplift 1=-108 (LC 11), 7=-108 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-394/0, 2-18=-1307/193, 3-18=-1224/206, 3-19=-1199/213, 4-19=-1127/229, 4-20=-1127/229, 5-20=-1199/213, 5-21=-1224/206, 6-21=-1307/193, 6-7=-347/0
BOT CHORD	1-9=-123/1124, 9-22=-25/808, 22-23=-25/808, 8-23=-25/808, 7-8=-120/1124
WEBS	4-8=-47/429, 5-8=-263/144, 4-9=-47/429, 3-9=-263/144

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=22ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-0-0, Exterior (2) 11-0-0 to 14-0-0, Interior (1) 14-0-0 to 22-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 1 and 108 lb uplift at joint 7.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V1	Valley	1	1	Job Reference (optional)

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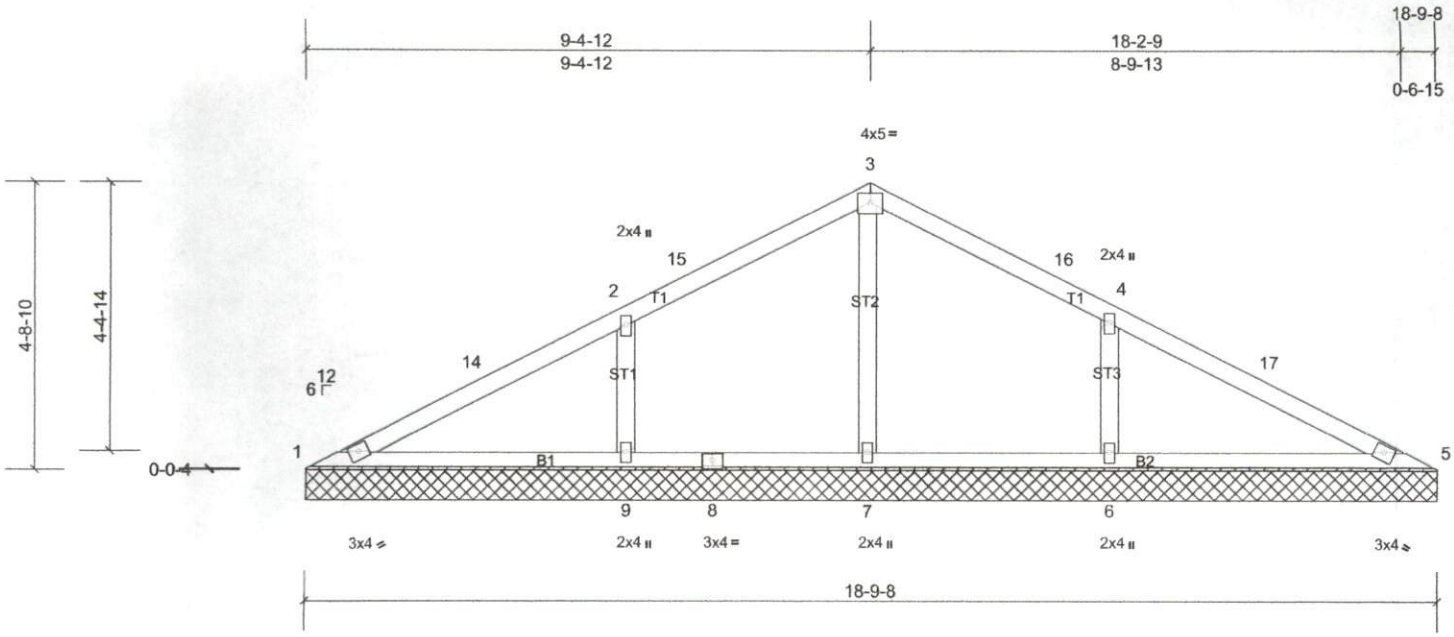

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 70 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

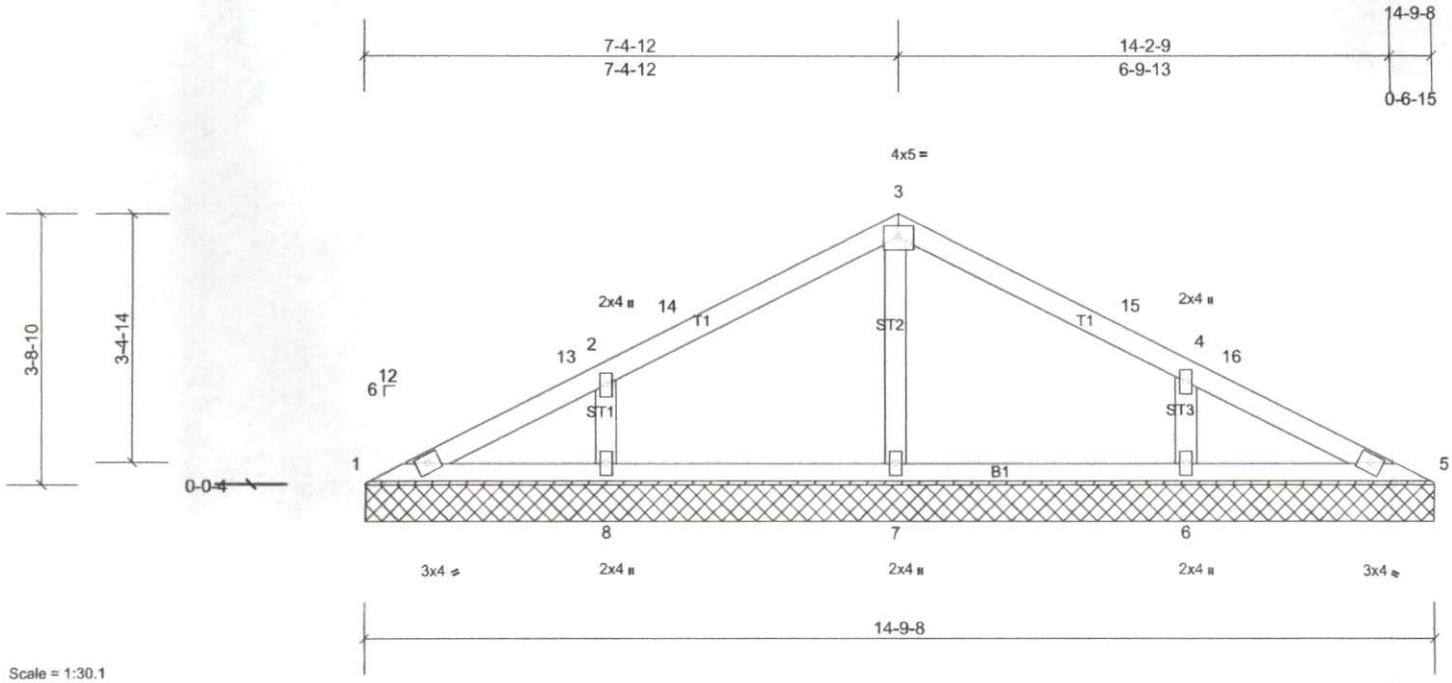
REACTIONS All bearings 18-9-8.
(lb) - Max Horiz 1=-68 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-102 (LC 11), 9=-102 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=458 (LC 21), 7=420 (LC 1), 9=455 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-42/287, 3-15=0/257, 3-16=0/251, 4-17=-41/284
WEBS 3-7=-377/33, 2-9=-316/141, 4-6=-317/141

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 9-5-4, Exterior (2) 9-5-4 to 12-5-4, Interior (1) 12-5-4 to 18-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=102, 6=102.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V2	Valley	1	1	Job Reference (optional)



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 53 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

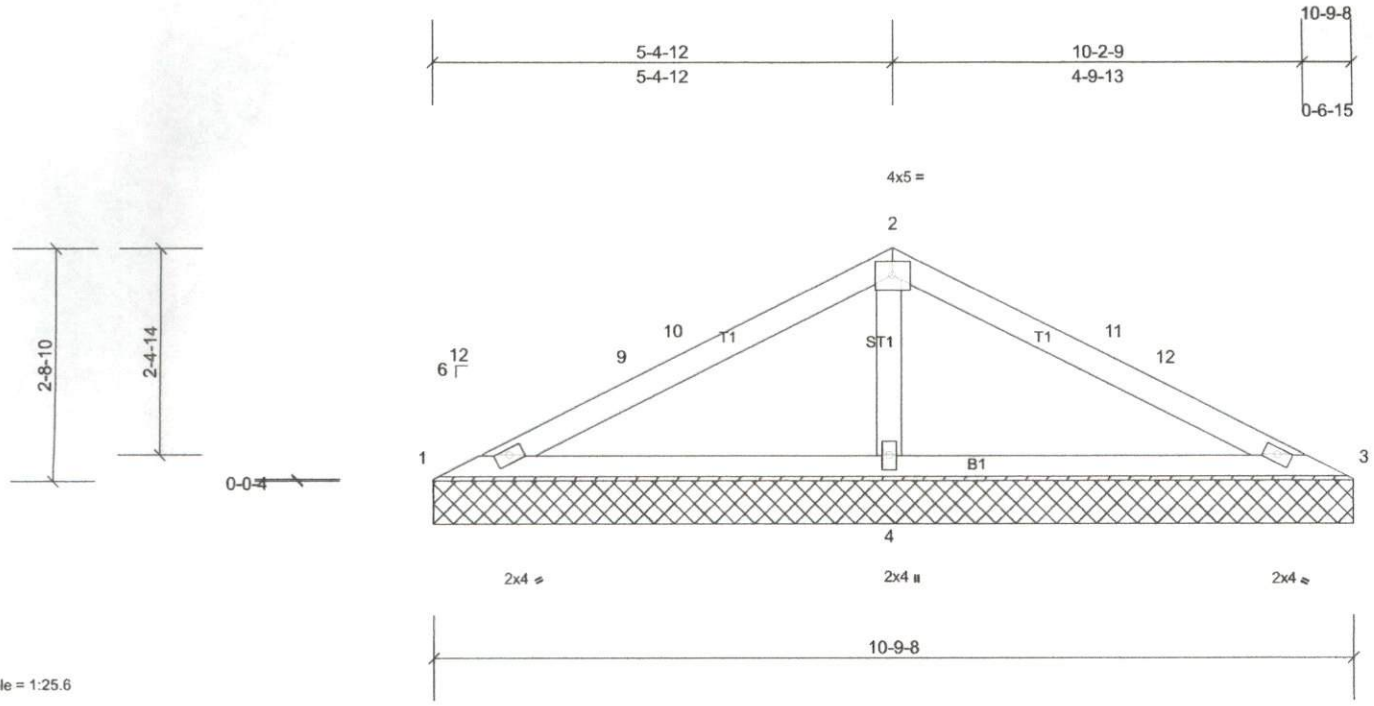
REACTIONS All bearings 14-9-8.
(lb) - Max Horiz 1=-53 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=347 (LC 21), 7=323 (LC 1), 8=347 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-256/117, 4-6=-254/115

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 7-5-4, Exterior (2) 7-5-4 to 10-5-4, Interior (1) 10-5-4 to 14-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V3	Valley	1	1	Job Reference (optional)



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 35 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=39/10-9-8, (min. 0-1-8), 3=45/10-9-8, (min. 0-1-8), 4=778/10-9-8, (min. 0-1-8)
Max Horiz 1=-38 (LC 9)
Max Uplift 1=-24 (LC 21), 3=-20 (LC 20), 4=-111 (LC 11)
Max Grav 1=83 (LC 20), 3=88 (LC 21), 4=778 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-82/333, 9-10=-69/349, 2-10=-67/413, 2-11=-63/402, 11-12=-65/338, 3-12=-75/321
BOT CHORD 1-4=-312/108, 3-4=-302/106
WEBS 2-4=-594/152

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 5-5-4, Exterior (2) 5-5-4 to 8-5-4, Interior (1) 8-5-4 to 10-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 20 lb uplift at joint 3 and 111 lb uplift at joint 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) *Standard*

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V4	Valley	1	1	Job Reference (optional)

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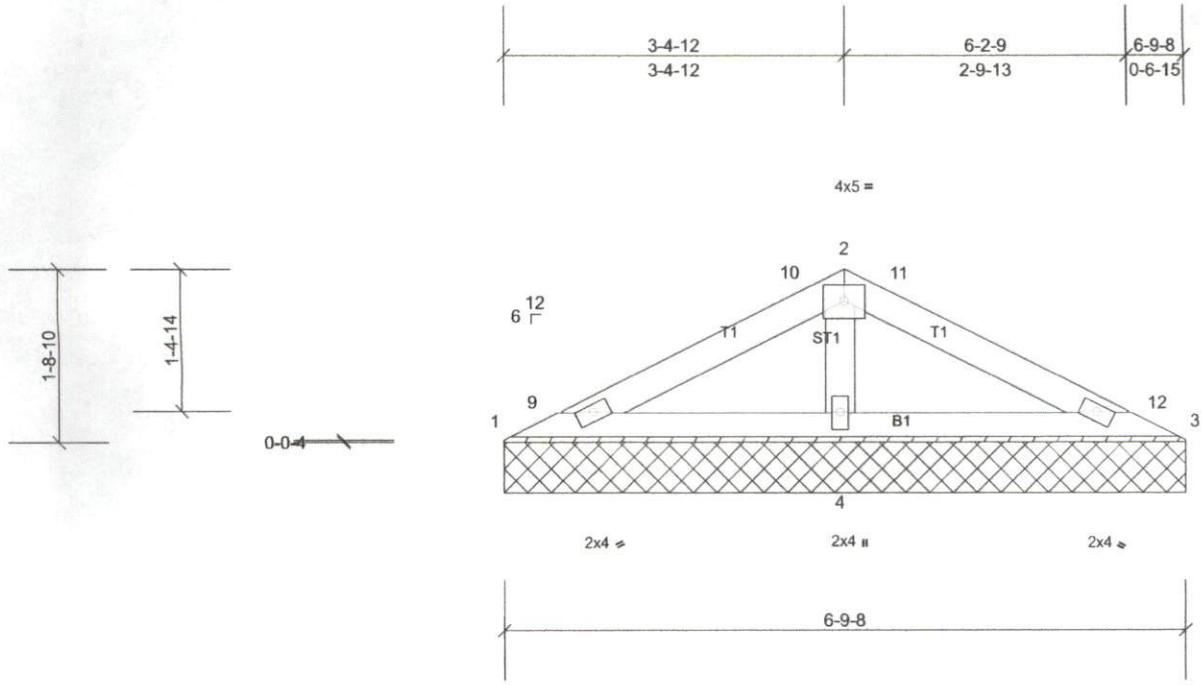

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.3

REACTIONS (lb/size) 1=56/6-9-8, (min. 0-1-8), 3=62/6-9-8, (min. 0-1-8), 4=425/6-9-8, (min. 0-1-8)
Max Horiz 1=23 (LC 10)
Max Uplift 1=-6 (LC 11), 3=-6 (LC 11), 4=-55 (LC 11)
Max Grav 1=76 (LC 20), 3=80 (LC 21), 4=425 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-280/102

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-9-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 3-5-4, Exterior (2) 3-5-4 to 6-5-4, Interior (1) 6-5-4 to 6-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 6 lb uplift at joint 3 and 55 lb uplift at joint 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V5	Valley	1	1	Job Reference (optional)

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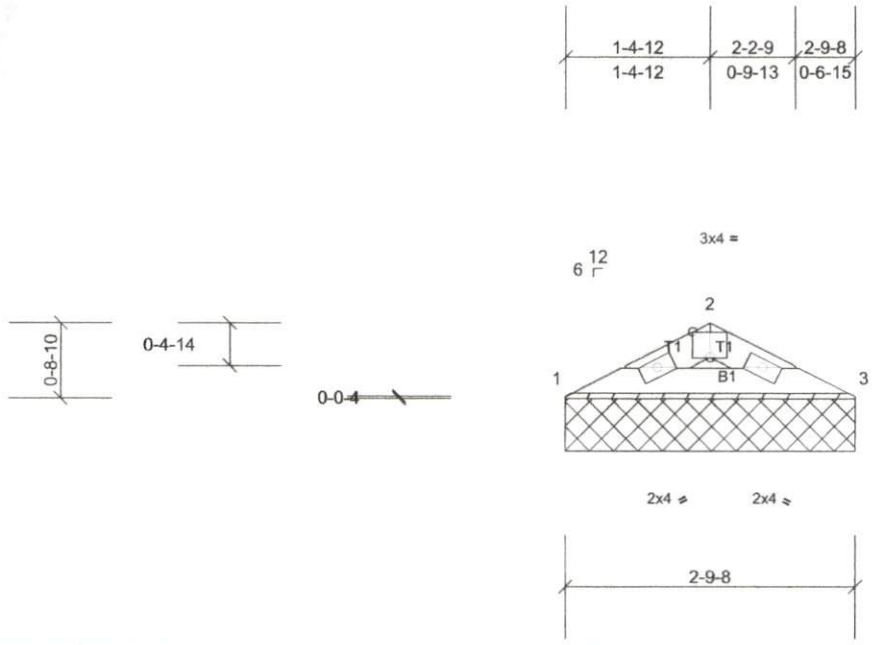

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Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=112/2-9-8, (min. 0-1-8), 3=112/2-9-8, (min. 0-1-8)
Max Horiz 1=-8 (LC 9)
Max Uplift 1=-14 (LC 11), 3=-14 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 14 lb uplift at joint 3.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V6	Valley	1	1	Job Reference (optional)

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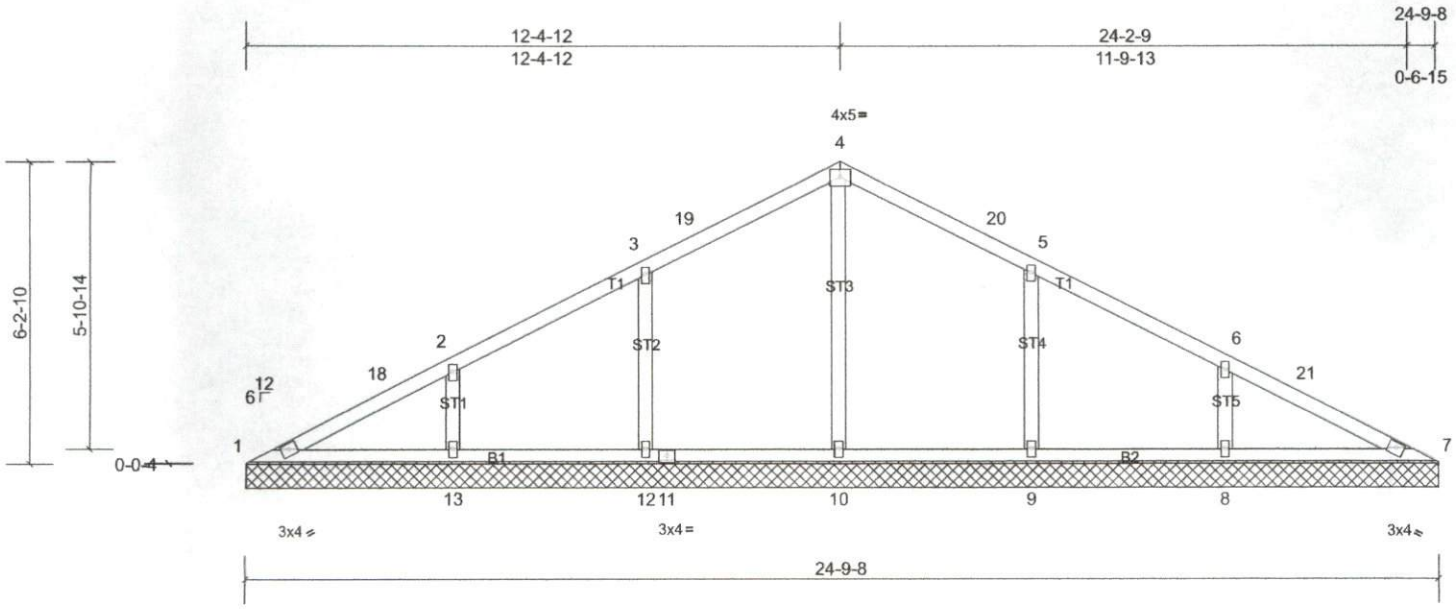

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 24-9-8.
(lb) - Max Horiz 1=-90 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 12, 13
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=378 (LC 21), 9=359 (LC 17), 10=476 (LC 16), 12=364 (LC 16), 13=372 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-285/0, 3-12=-257/130, 2-13=-254/115, 5-9=-252/128, 6-8=-258/117

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 12-5-4, Exterior (2) 12-5-4 to 15-5-4, Interior (1) 15-5-4 to 24-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 9, 8.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) *Standard*

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V7	Valley	1	1	Job Reference (optional)

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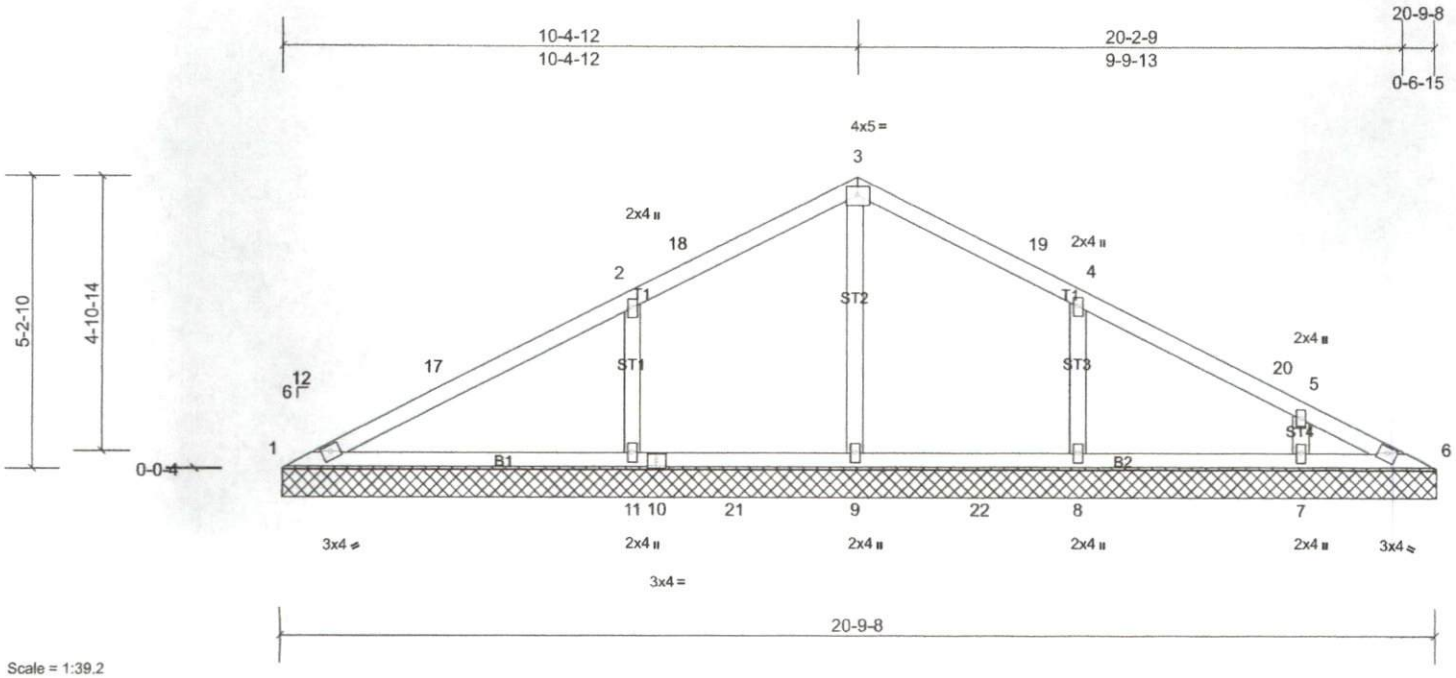

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 79 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 20-9-8.

(lb) - Max Horiz 1=75 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 7, 8, 16 except 11=-120 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 6, 16 except 7=284 (LC 21), 8=356 (LC 1), 9=475 (LC 16), 11=526 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-17=0/281
WEBS	3-9=-353/1, 2-11=-360/161, 4-8=-265/135

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=21ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 10-5-4, Exterior (2) 10-5-4 to 13-5-4, Interior (1) 13-5-4 to 20-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 7 except (jt=lb) 11=120.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V8	Valley	1	1	Job Reference (optional)

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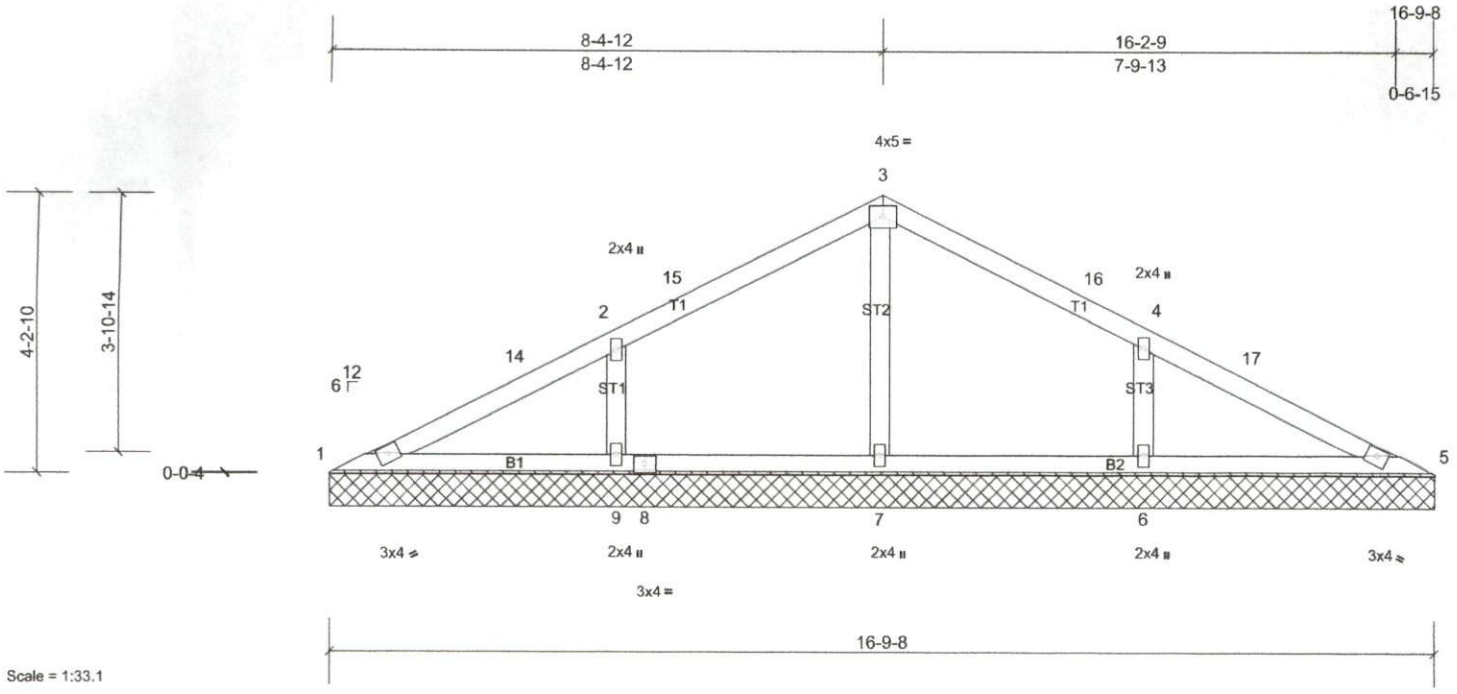

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 61 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 16-9-8.
(lb) - Max Horiz 1=60 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 9
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=398 (LC 21), 7=367 (LC 1), 9=396 (LC 20)

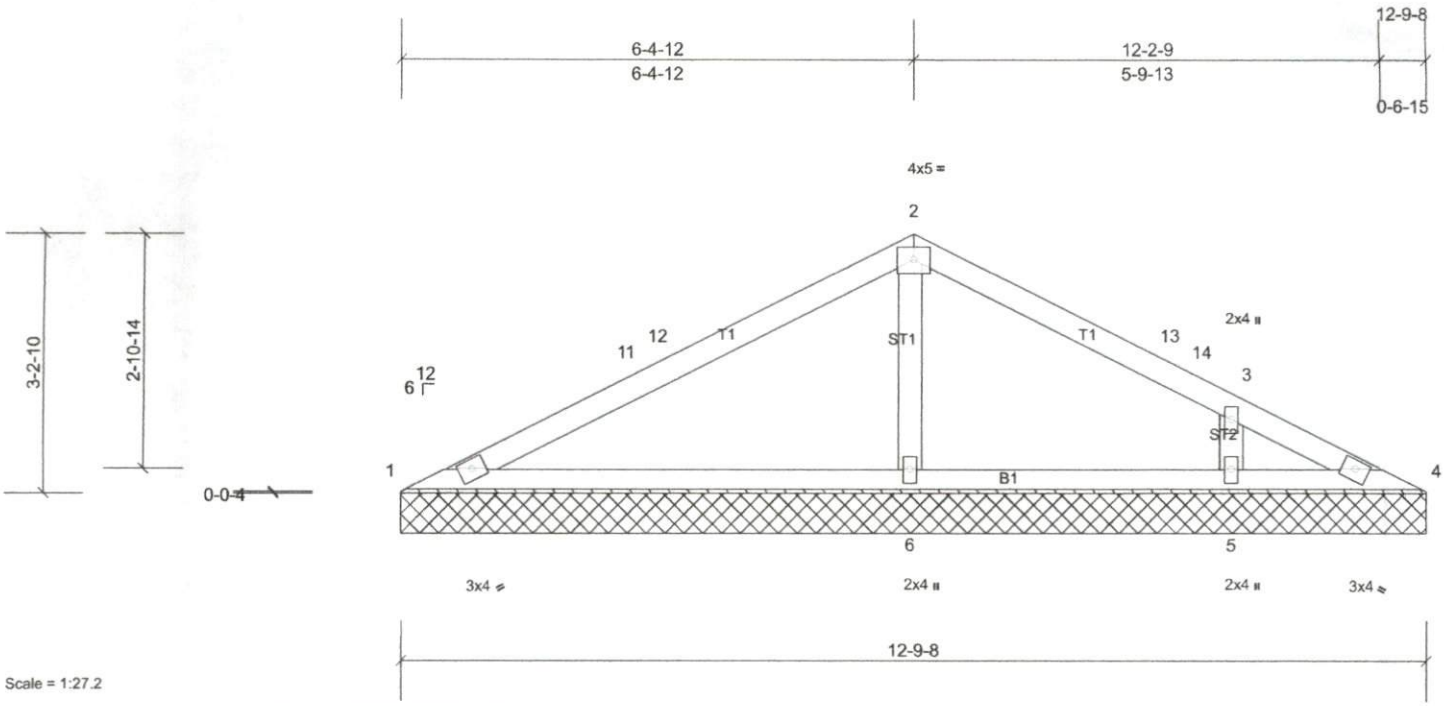
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-305/31, 2-9=-281/127, 4-6=-281/126

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 8-5-4, Exterior (2) 8-5-4 to 11-5-4, Interior (1) 11-5-4 to 16-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V9	Valley	1	1	Job Reference (optional)



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 43 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 12-9-8.
(lb) - Max Horiz 1=-45 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 4, 5, 6
Max Grav All reactions 250 (lb) or less at joint(s) 1, 4 except 5=259 (LC 21), 6=762 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-97/320, 11-12=-42/330, 2-12=-40/411, 2-13=-30/370, 13-14=-35/327, 3-14=-40/323, 3-4=-94/352
BOT CHORD 1-6=-300/96, 5-6=-292/94, 4-5=-292/94
WEBS 2-6=-584/131

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 6-5-4, Exterior (2) 6-5-4 to 9-5-4, Interior (1) 9-5-4 to 12-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 6, 5.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V10	Valley	1	1	Job Reference (optional)

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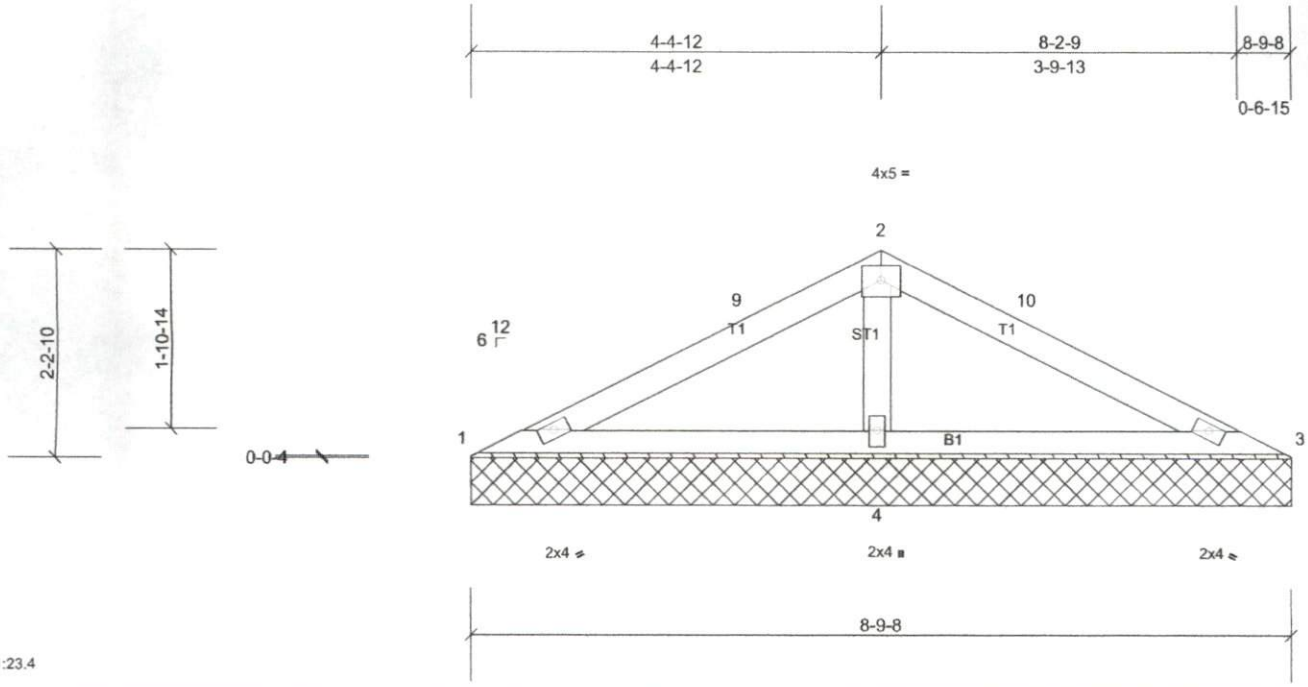

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.3

REACTIONS (lb/size) 1=46/8-9-8, (min. 0-1-8), 3=52/8-9-8, (min. 0-1-8), 4=606/8-9-8, (min. 0-1-8)
Max Horiz 1=30 (LC 10)
Max Uplift 1=-9 (LC 21), 3=-5 (LC 20), 4=-86 (LC 11)
Max Grav 1=78 (LC 20), 3=83 (LC 21), 4=606 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-9=-83/280, 2-9=-74/313, 2-10=-69/303, 3-10=-78/269
BOT CHORD	1-4=-250/116
WEBS	2-4=-432/134

BRACING

TOP CHORD	Structural wood sheathing directly applied or 8-9-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

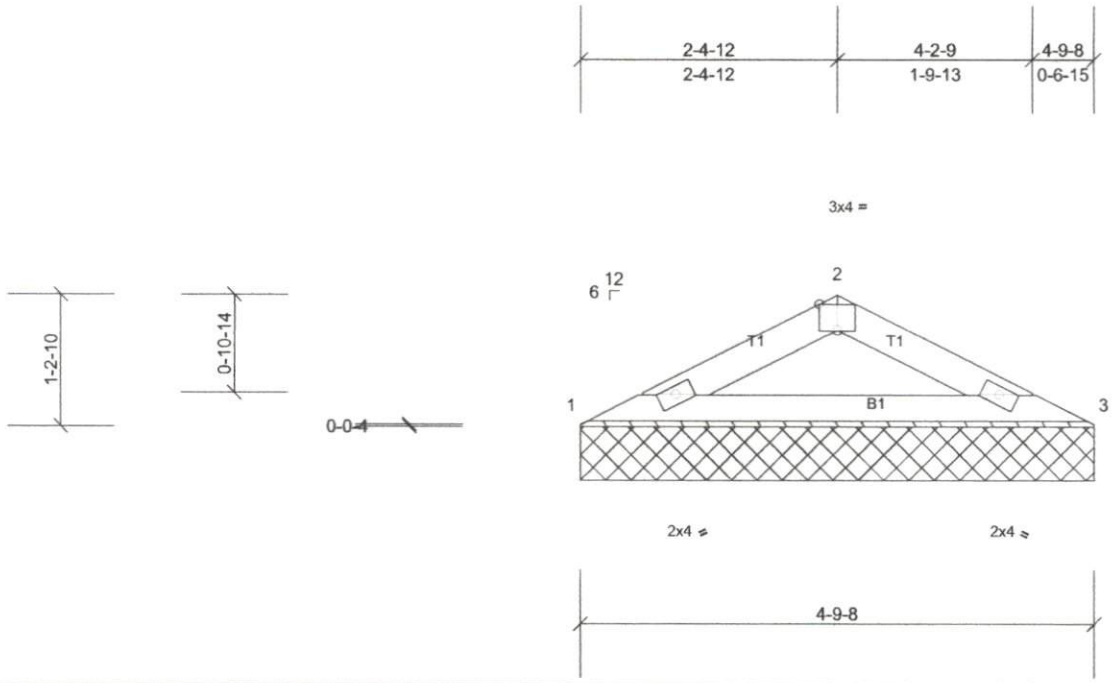
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 4-5-4, Exterior (2) 4-5-4 to 7-7-11, Interior (1) 7-7-11 to 8-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 5 lb uplift at joint 3 and 86 lb uplift at joint 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Scott (Moore)-Roof
Q-2300655-1	V11	Valley	1	1	Job Reference (optional)



Scale = 1:20.4

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=192/4-9-8, (min. 0-1-8), 3=192/4-9-8, (min. 0-1-8)
Max Horiz 1=-16 (LC 9)
Max Uplift 1=-24 (LC 11), 3=-24 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-345/109
BOT CHORD 1-3=-86/300

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 24 lb uplift at joint 3.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard