## **RESIDENTIAL BUILDING CODE**

MEAN ROOF HEIGHT: 18'-8	3"	HEIGHT TO R	RIDGE: 25'-5"
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.55	0.55	0.55
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci
WALL R-VALUE	15	15	19
FLOOR R-VALUE	19	19	30
* BASEMENT WALL R-VALUE	5/13	10/15	10/15
** SLAB R-VALUE	0	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19

\* "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION

\*\* INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING; INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"

					1				
COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOA									
MEAN ROOF	UP T	O 30'	30'-1" TO 35' 35'-1'		35'-1"	35'-1" TO 40' 40'-1"		TO 45'	
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8	
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2	
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2	
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9	
ZONE 5	15.5	-20.0	16.3	-21 N	16.0	-21 g	17.4	<b>-</b> 22 4	

ZONE 2 16.7 -21.0 17.5 -22.1 18.2 -22.9 18.7 -23.5 ZONE 3 16.7 -21.0 17.5 -22.1 18.2 -22.9 18.7 -23.5 ZONE 4 18.2 -19.0 19.1 -20.0 19.8 -20.7 20.4 -21.3 ZONE 5 18.2 -24.0 19.1 -25.2 19.8 -26.2 20.4 -26.9

# **ROOF VENTILATION**

**R806.1 Ventilation required.** Enclosed *attics* and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.

**R806.2 Minimum area.** The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.

1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only. 2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,283 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 15.22 SQ.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 7.61 SQ.FT.



RAIL AS NEEDED PER CODE

**ELECTRICIAN: PIONEER** 

**HVAC: CENTRAL AIR** 

PLUMBING: DOUBLE J

## **AIR LEAKAGE**

 $\textbf{N1102.4.1 Building thermal envelope.} \ \ \textbf{The building thermal}$ envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code: 1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.

2. Capping and sealing shafts or chases, including flue shafts. 3. Capping and sealing soffit or dropped ceiling areas.

# **FRONT ELEVATION**

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



footing for truss point load

Add pier in perimeter

FIRST FLOOR PALYROOM 1555 SQ.FT. 264 SQ.FT. 1819 SQ.FT. **HEATED OPTIONAL** 

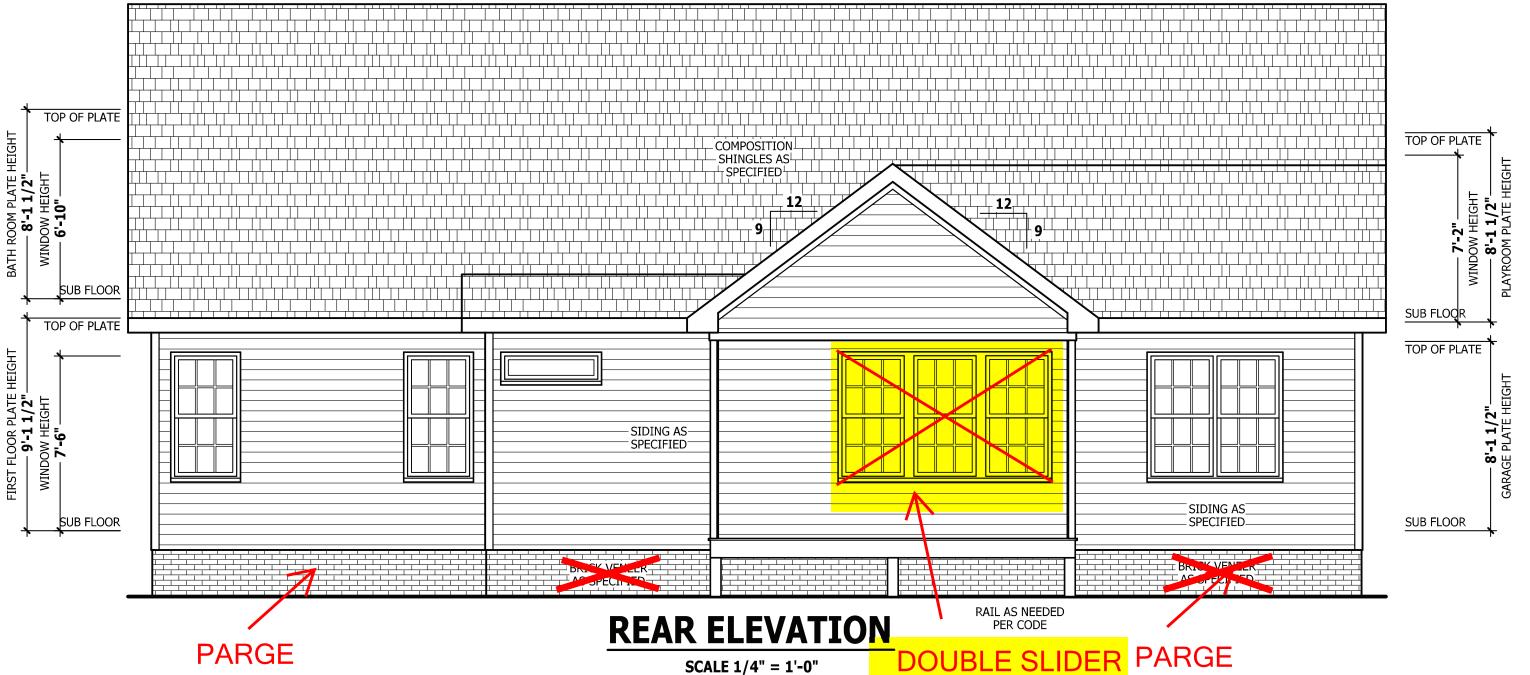
HEATED

27 WENDYWOOD DR.

SECOND FLOOR 570 SQ.FT. 570 SQ.FT.

**UNHEATED** 448 SQ.FT. 42 SQ.FT. 154 SQ.FT. GARAGE FRONT PORCH REAR PORCH 644 SQ.FT.

**UNHEATED OPTIONAL** THIRD GARAGE 298 SQ.FT. 298 SQ.FT. **TOTAL** 



RIDGE VENT AS REQUIRED

PURCHASER MUST VERIFY ALI MITCHELL MANOR - LOT 10 ASSUMES NO LIABILITY FOR

PROCEDURES. ARY WITH LOCATION. A LOCAL

IGINEER SHOULD BE CONSULTI THESE DRAWING ARE NSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER

**ELEVATIONS** Halifax REAR **FRONT** 

SQUARE FOOTAGE HEATED 1555 SQ FT 264 SQ FT 1819 SQ FT **HEATED OPTIONAL** ECOND FLOOR UNHEATED GARAGE FRONT PORCH REAR PORCH UNHEATED OPTIONAL

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200223B **PAGE 1 OF 8** 

SCALE 1/4" = 1'-0"

Company, Inc\200223B Halifax II\200223B Halifax II Left.

Z:\Builder\Weaver

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Halifax

PALYROOM 1555 SQ.FT.
TOTAL 1819 SQ.FT.
HEATED OPTIONAL
SECOND FLOOR 570 SQ TOTAL

'NHFE-T

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SERITY OF THE DESIG

ONOLITHIC SLAB PLAN
The Halifax II

WE FRE S - 910.630.2100 - 919.606.4696

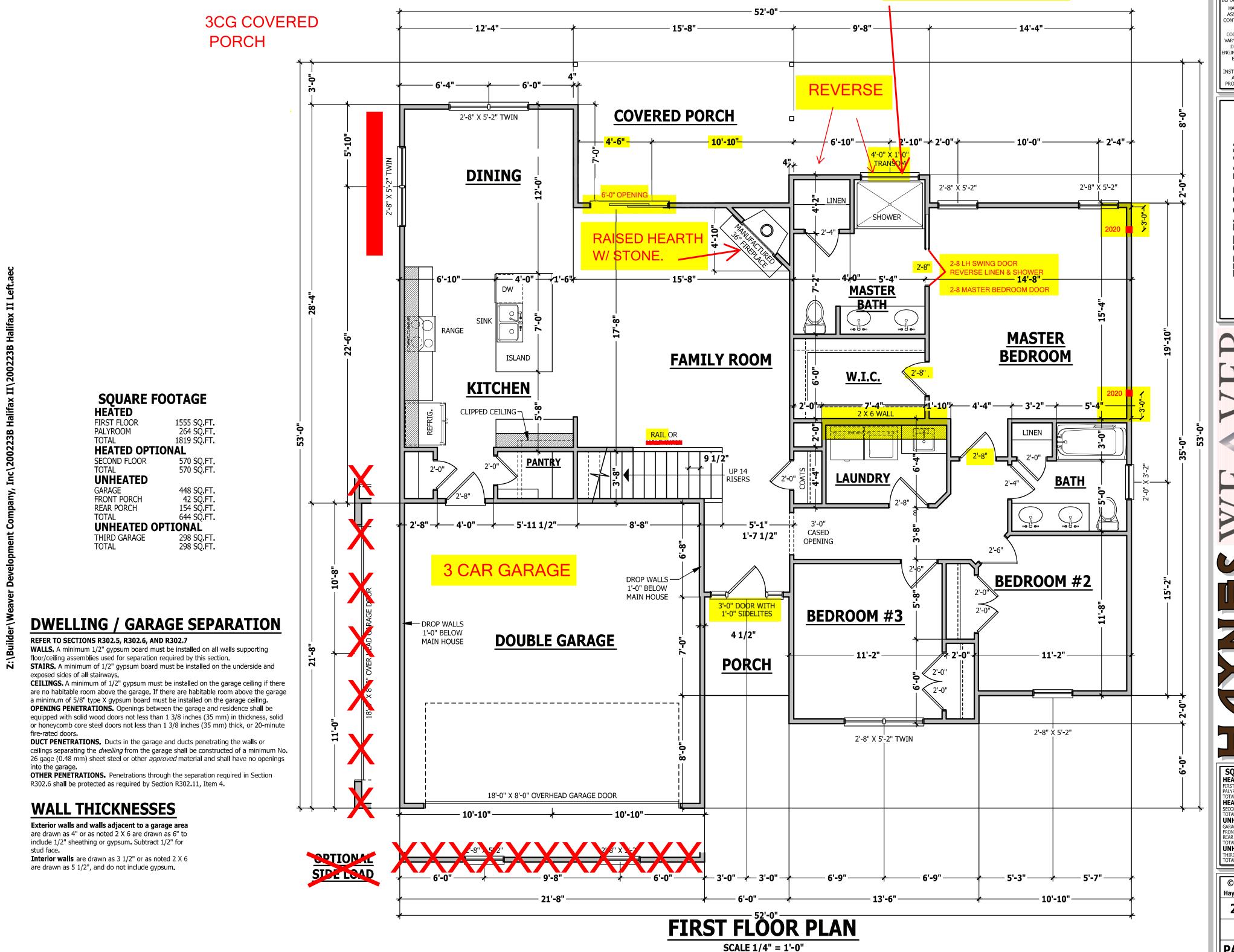
SOUARE FOOTAGE

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DIMENSIONS AND CONDITIONS
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RAISE HEADER TO TOP PLATE

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FIRST FLOOR PLAN

The Halifax II

★ E ★ V E 
 ★ H O M E S ← 910.630.2100 • 919.606.4696

HATINE BLANS INC

 SQUARE FOOTAGE

 HEATED
 1555 SQ.FT.

 FIRST FLOOR
 264 SQ.FT.

 PALYROOM
 264 SQ.FT.

 TOTAL
 1819 SQ.FT.

 HEATED OPTIONAL
 570 SQ.FT.

 TOTAL
 570 SQ.FT.

 UNHEATED
 448 SQ.FT.

 FRONT PORCH
 42 SQ.FT.

 REAR PORCH
 154 SQ.FT.

 TOTAL
 644 SQ.FT.

 UNHEATED OPTIONAL

 UNHEATED OPTIONAL

 THIRD GARAGE
 298 SQ.FT.

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### STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.

JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200		
Guardrail in-fill components	50		
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40		L/360
Snow	20		

**FRAMING LUMBER:** All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise. **ENGINEERED WOOD BEAMS:** 

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10<sup>6</sup> PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. LINTELS: Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing. ROOF SHEATHING: OSB or CDX roof sheathing minimum 3/8" thick. CONCRETE AND SOILS: See foundation notes.

### **BRACE WALL PANEL NOTES**

**EXTERIOR WALLS:** All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless noted otherwise.

**GYPSUM:** All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

**REQUIRED LENGTH OF BRACING:** Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length.

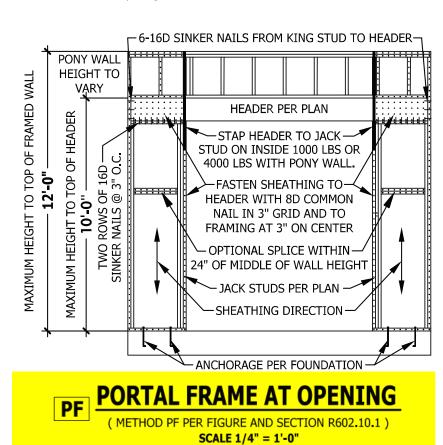
**HD:** 800 lbs hold down hold down device fastened to the edge of the brace wall panel closets to the corner.

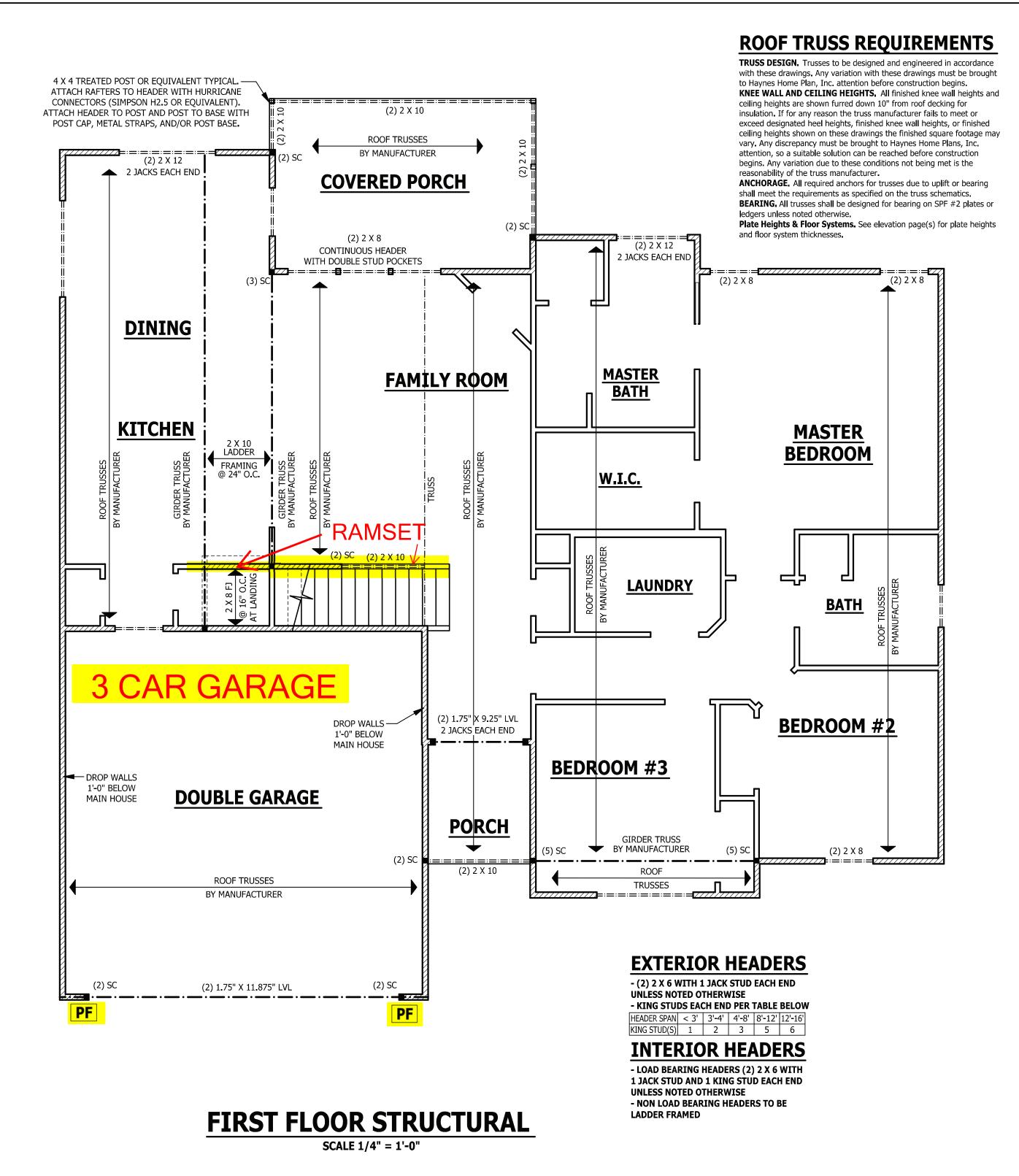
Methods Per Table R602.10.1

CS-WSP: Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or 8d(2 1/2" long x 0.113" diameter).

CS-SFB: Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing

**GB:** Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws. **PF:** Portal fame per figure R602.10.1





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FIRST FLOOR STRUCTURAL

The Halifax II

HOME PLANS, INC

 SQUARE FOOTAGE

 HEATED
 1555 SQ.F

 FIRST FLOOR
 1555 SQ.F

 PALYROOM
 264 SQ.F

 TOTAL
 1819 SQ.F

 HEATED OPTIONAL
 SECOND FLOOR

 SECOND FLOOR
 570 SQ.F

 TOTAL
 570 SQ.F

 UNHEATED
 CAPPAGE

 CAPPAGE
 448 SQ.F

GARAGE 448 SQ.F FRONT PORCH 42 SQ.F REAR PORCH 154 SQ.F TOTAL 644 SQ.F UNHEATED OPTIONAL THIRD GARAGE 298 SQ.F TOTAL 298 SQ.F

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Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code. JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

•	3		
DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
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Fire escapes	40	10	L/360
Guardrails and handrails	200		
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Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40		L/360
Snow	20		
		·	·

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

### **ENGINEERED WOOD BEAMS:**

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions.

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### **ROOF TRUSS REQUIREMENTS**

**TRUSS DESIGN.** Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

**ANCHORAGE.** All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

**Plate Heights & Floor Systems.** See elevation page(s) for plate heights and floor system thicknesses.

### **ATTIC ACCESS**

### **SECTION R807**

**R807.1 Attic access.** An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided a some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

### Exceptions:

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

### WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face.

Interior walls are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.

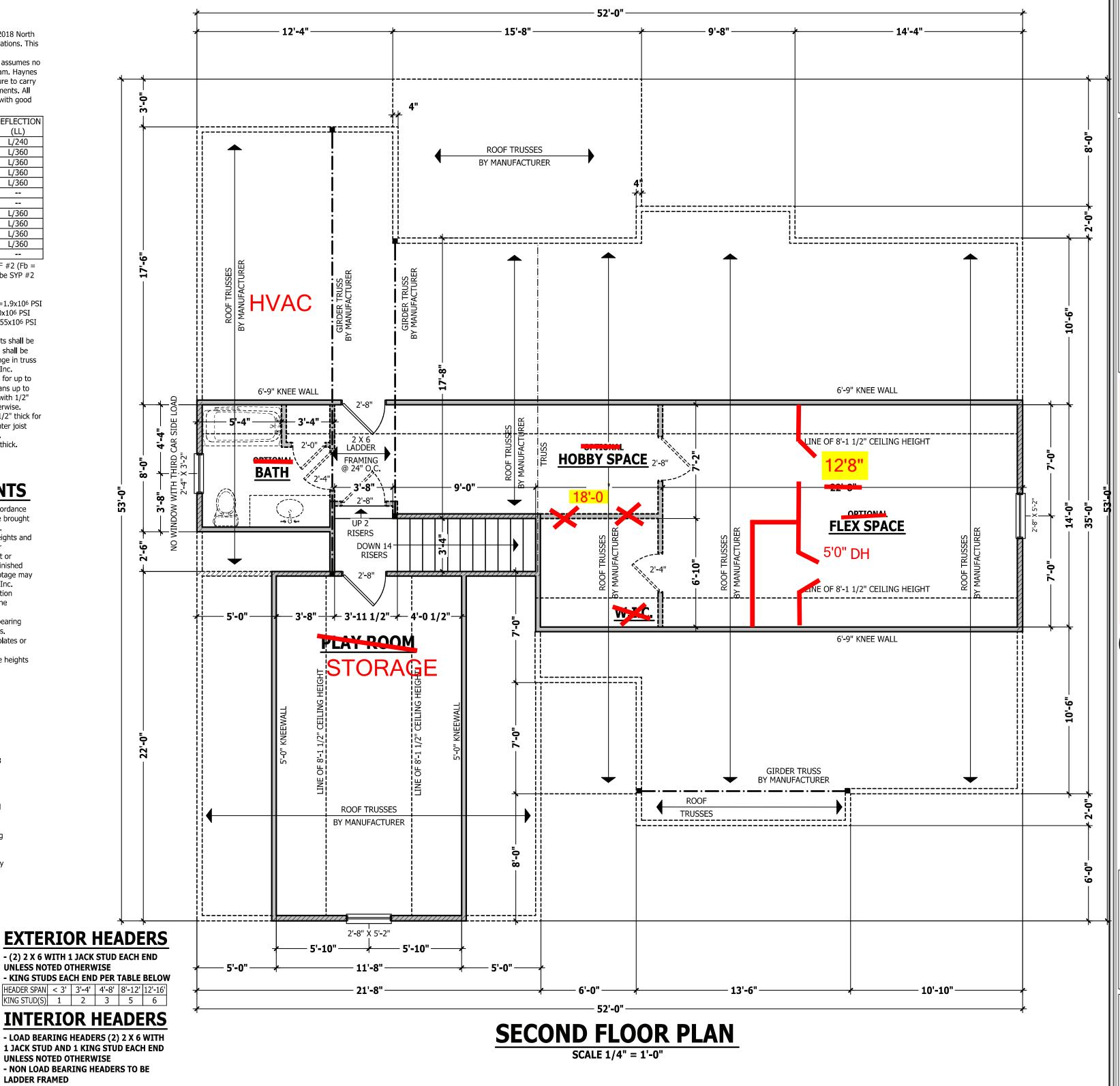
### **EXTERIOR HEADERS** - (2) 2 X 6 WITH 1 JACK STUD EACH END

**UNLESS NOTED OTHERWISE** - KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16'

### **INTERIOR HEADERS**

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END **UNLESS NOTED OTHERWISE** - NON LOAD BEARING HEADERS TO BE

LADDER FRAMED



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**PLAN** 

Halifax FLOOR SECOND

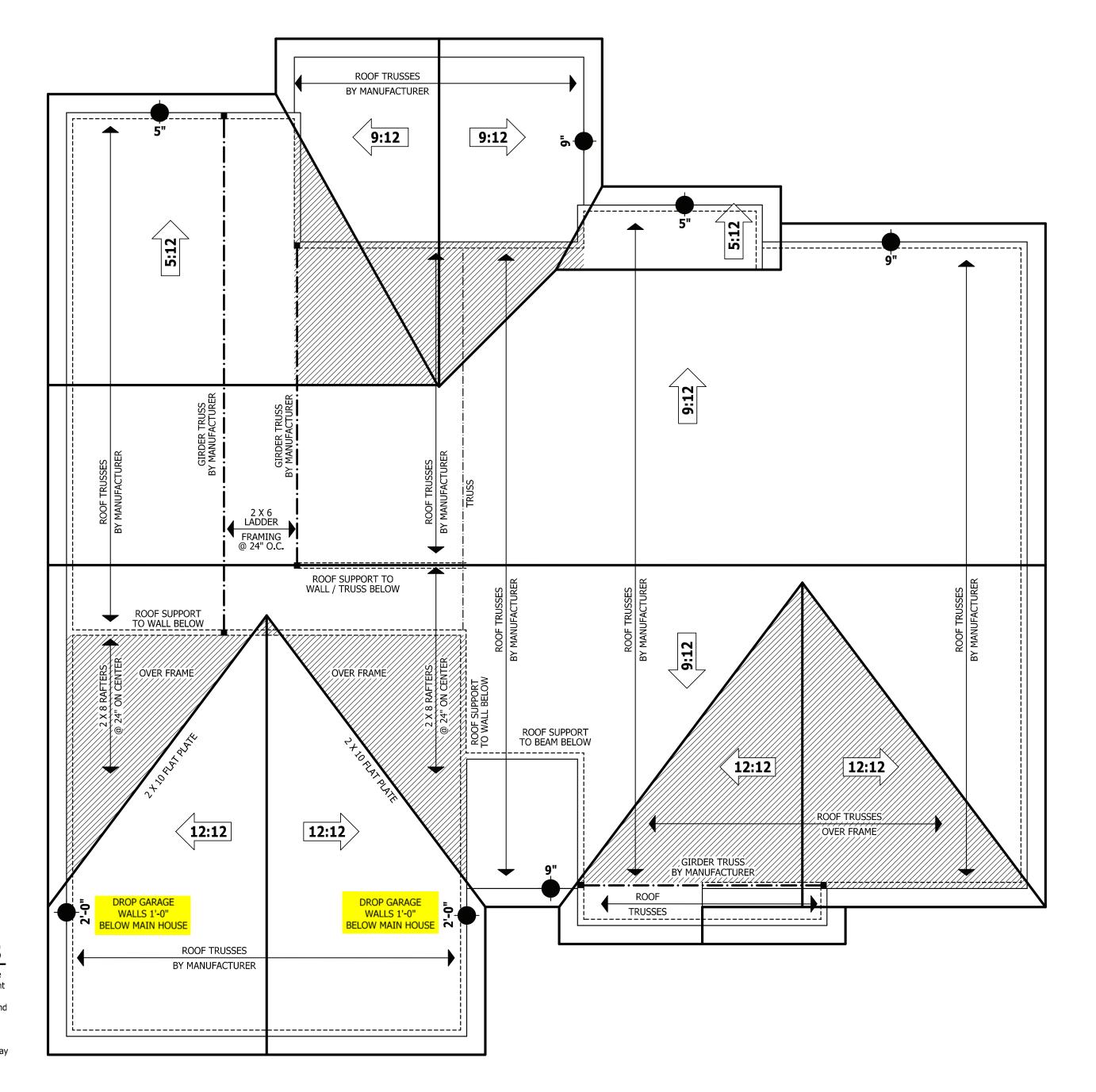
SQUARE FOOTAGE HEATED HEATED OPTIONAL TOTAL UNHEATED ARAGE RONT PORCH TOTAL 644 SQ.F UNHEATED OPTIONAL

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# 3 CAR GARAGE



### **ROOF TRUSS REQUIREMENTS**

**TRUSS DESIGN.** Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

**ANCHORAGE.** All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.

HEEL HEIGHT ABOVE FIRST FLOOR PLATE HEEL HEIGHT ABOVE SECOND FLOOR PLATE

# **ROOF PLAN** SCALE 1/4" = 1'-0"

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**ROOF PLAN** 

The Halifax

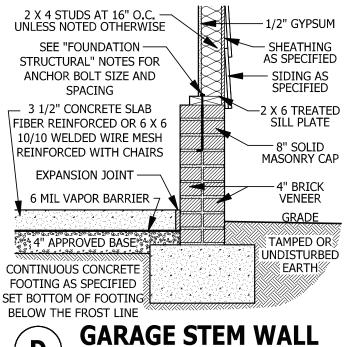
SQUARE FOOTAGE
HEATED
FIRST FLOOR 1555 SQ.FI
PALYROOM 264 SQ.FI PALYROOM 264 SQ.FT.
TOTAL 1819 SQ.FT.
HEATED OPTIONAL TOTAL UNHEATED Garage Front Porch

TOTAL 644 SQ.F
UNHEATED OPTIONAL

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D

# **DECK STAIR NOTES**

**SECTION AM110** 

AM110.1 Stairs shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span between

SCALE 3/4" = 1'-0"

supports. Spacing between stringers shall be based upon decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer. If used, suspended headers shall shall be attached with 3/8 inch galvanized bolts with nuts and washers to securely support stringers at the top.

### **DECK BRACING**

SECTION AM109

AM109.1 Deck bracing. Decks shall be braced to provide lateral stability. The following are acceptable means to provide lateral stability.

AM109.1.1. When the deck floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required.

**AM109.1.2.** 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girder/double band with one 5/8 inch hot dipped galvanized bolt with nut and washer at both ends of the brace per Figure AM109.1

**AM109.1.3.** For freestanding decks without knee braces or diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2

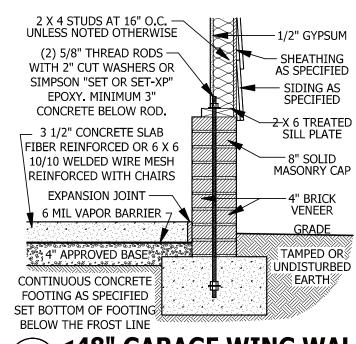
and the fol	lowing:			
POST SIZE	MAX TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 X 4	48 SF	4'-0"	2'-6"	1'-0"
6 X 6	120 SF	6'-0"	3'-6"	1'-8"

**AM109.1.4.** 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109.3.

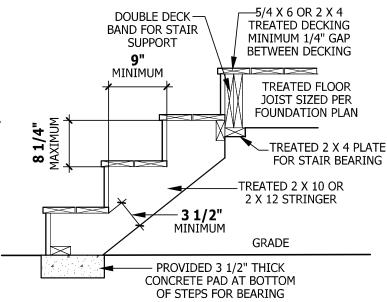
AM109.1.5. For embedment of piles in Coastal Regions,

FLOOR JOIST OVERLAP AS SPECIFIED ) JOIST (3) 2 X 10 GIRDER **UNLESS NOTED** 8" SOLID -OTHERWISE MASONRY CAP -2 X 6 TREATED SILL PLATE (3) 2 X 10 GIRDER 🖀 FLOOR JOIST UNLESS NOTED AS SPECIFIED OTHERWISE -2 X 6 TREATED SILL PLATE MINIMUM ⊢8" SOLID 2 X 2 LEDGER MASONRY CAP STRIPS OR HANGERS CONCRETE FOOTING AS SPECIFIED SET PIER SIZE AS **BOTTOM OF** SPECIFIED FOOTING BELOW THE FROST LINE

### **DROPPED/FLUSH PIER** В SCALE 3/4'' = 1'-0''



### <48" GARAGE WING WALL SCALE 3/4" = 1'-0"



# **FIGURE AM110** TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

WEEP SCREED

MINIMUM 4" TO

**GROUND OR 2"** 

TO PAVEMENT

GRADE

SHEATHING SPECIFIED

AS SPECIFIED

SEE FOUNDATION

FOR FOUNDATION

**DETAILS** 

**WEEP SCREED** 

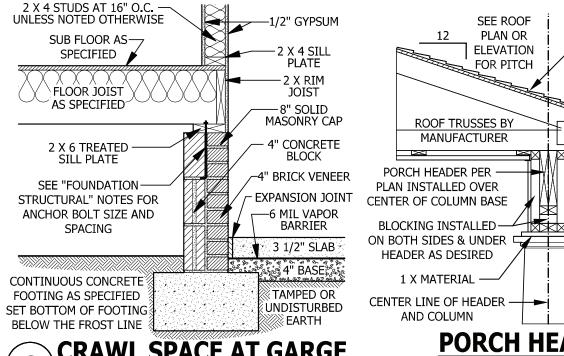
**SCALE 3/4" = 1'-0"** 

# **WEEP SCREEDS**

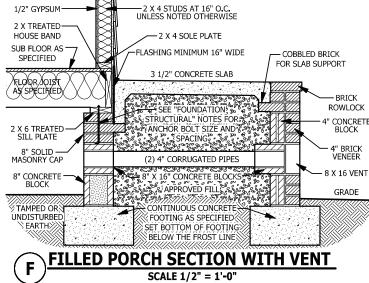
All weep screeds and stone veneer to be installed per manufactures instructions and per the 2012 North Carolina Residential Building code.

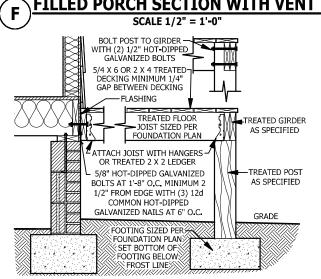
**R703.6.2.1 -** A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2

inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall shall cover and terminate on the attachment flange of the weep screed.



### CRAWL SPACE AT GARGE SCALE 3/4" = 1'-0"





G DECK ATTACHMENT SCALE 1/2" = 1'-0"

# **SMOKE ALARMS**

R314.1 Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.

R314.2 Smoke detection systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible notification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a household fire warning system is installed using a combination of smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with NFPA 72.

**Exception:** Where smoke alarms are provided meeting the requirements of Section R314.4.

R314.3 Location. Smoke alarms shall be installed in the following locations

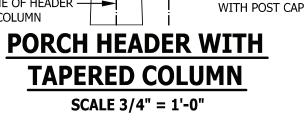
1. In each sleeping room.

2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.

3. On each additional *story* of the *dwelling*, including *basements* and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic-stories. In *dwellings* or *dwelling units* with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full *story* below the upper level.

When more than one smoke alarm is required to be installed within an individual *dwelling* unit the alarm devices shall be interconnected **Exceptions:** the alarms in the individual unit.

**R314.4 Power source.** Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall lap the attachment flange. The exterior lath receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.



EDGED OR PORCH FLOOR

- SHINGLES AS SPECIFIED

-SHEATHING AS SPECIFIED

- 15# BUILDING FELT

- VINYL OR HARDIE SOFFIT

INSTALLED PER MANUFACTURERS

INSTRUCTIONS

Tapered Column over

MASONRY BASE

ATTACHED TO HEADER

# **CARBON MONOXIDE ALARMS**

R315.1 Carbon monoxide alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s) as directed by the alarm manufacturer.

**R315.2 Where required in existing dwellings.** In existing dwellings, where interior alterations, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section

**R315.3 Alarm requirements.** The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

## **STAIRWAY NOTES**

R311.7.2 Headroom. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the

landing or platform on that portion of the stairway. R311.7.4 Stair treads and risers. Stair treads and risers shall meet the requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners. **R311.7.4.1 Riser height.** The maximum riser height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of the adjacent treads.

R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 4 inches (102 mm) at any point.

R311.7.4.3 Profile. The radius of curvature at the nosing shall be no greater than 9/16 inch (14 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid

**R311.7.7 Handrails.** Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers. **R311.7.7.1 Height.** Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be

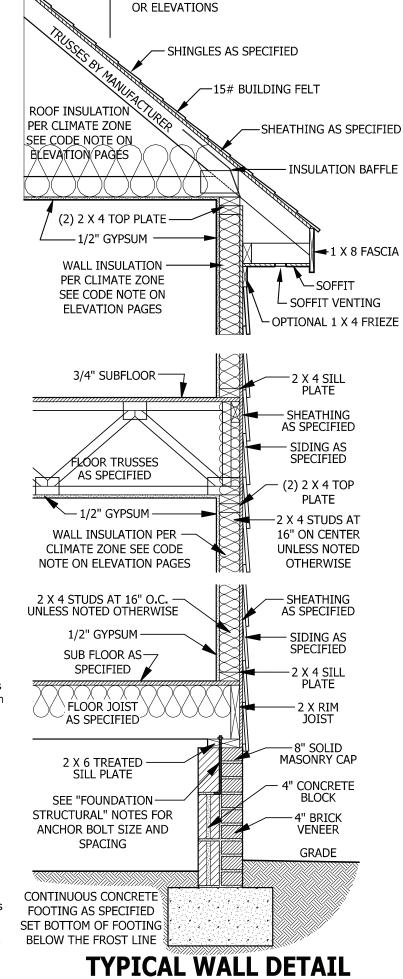
not less than 34 inches (864 mm)and not more than 38 inches (965 mm). 1. The use of a volute, turnout or starting easing shall be allowed over the

lowest tread. 2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

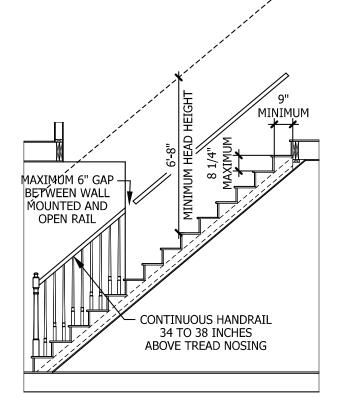
R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handrails.

in such a manner that the actuation of one alarm will activate all of 1. Handrails shall be permitted to be interrupted by a newel post. 2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

3. Two or more separate rails shall be considered continuous if the termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the wall-mounted rail must return into the wall.



PITCH PER ROOF PLAN



SCALE 3/4" = 1'-0"

TYPICAL STAIR DETAIL

IMENSIONS AND CONDITION HAYNES HOME PLANS, INC. SSUMES NO LIABILITY FOR ONTRACTORS PRACTICES AND PROCEDURES.

CODES AND CONDITIONS MA ARY WITH LOCATION, A LOCAL DESIGNER, ARCHITECT OR SINEER SHOULD BE CONSUL BEFORE CONSTRUCTION. THESE DRAWING ARE

STRUMENTS OF SERVICE AN AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER

**DETAILS** 

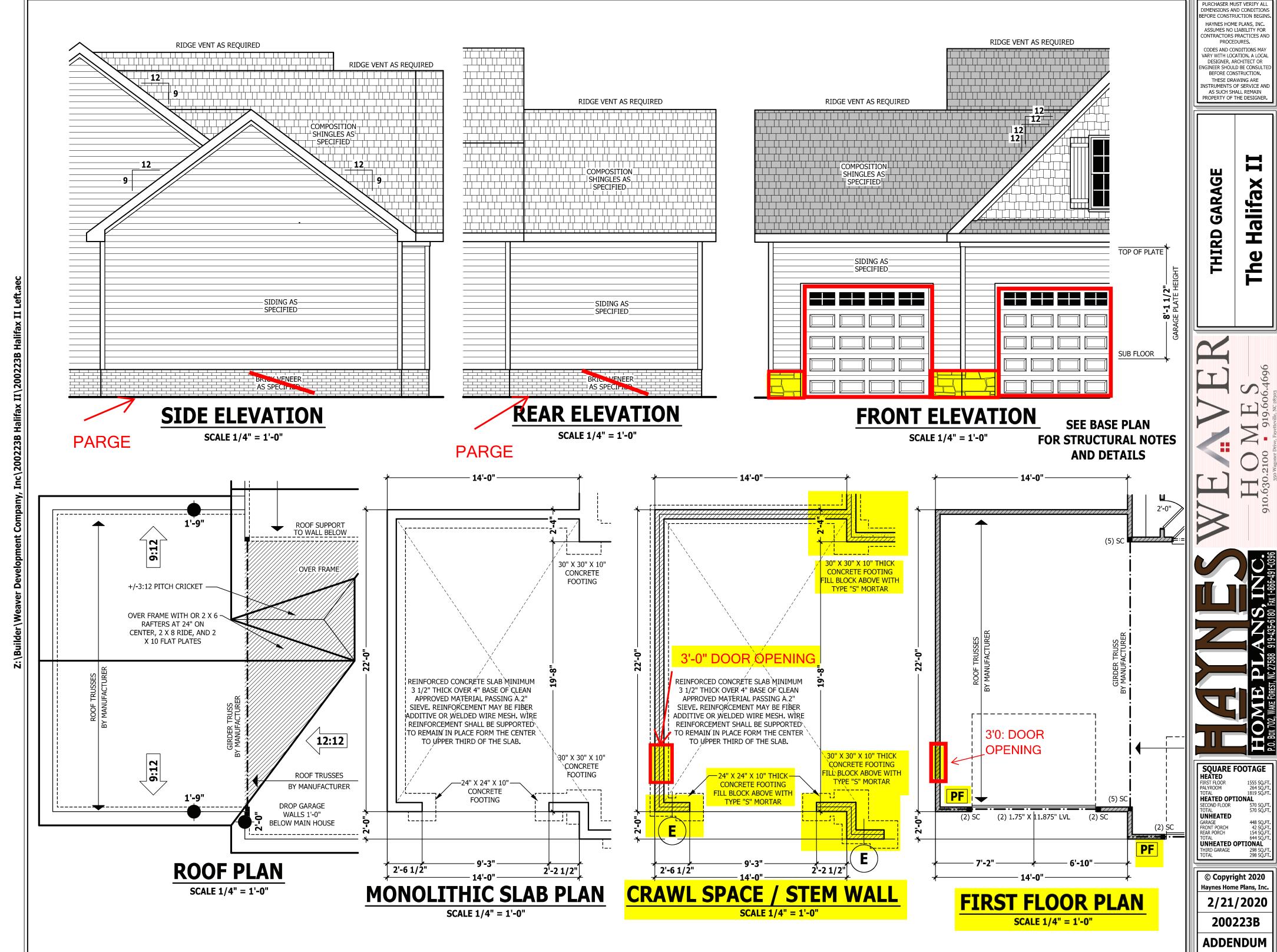
Halifax **TYPICAL** The

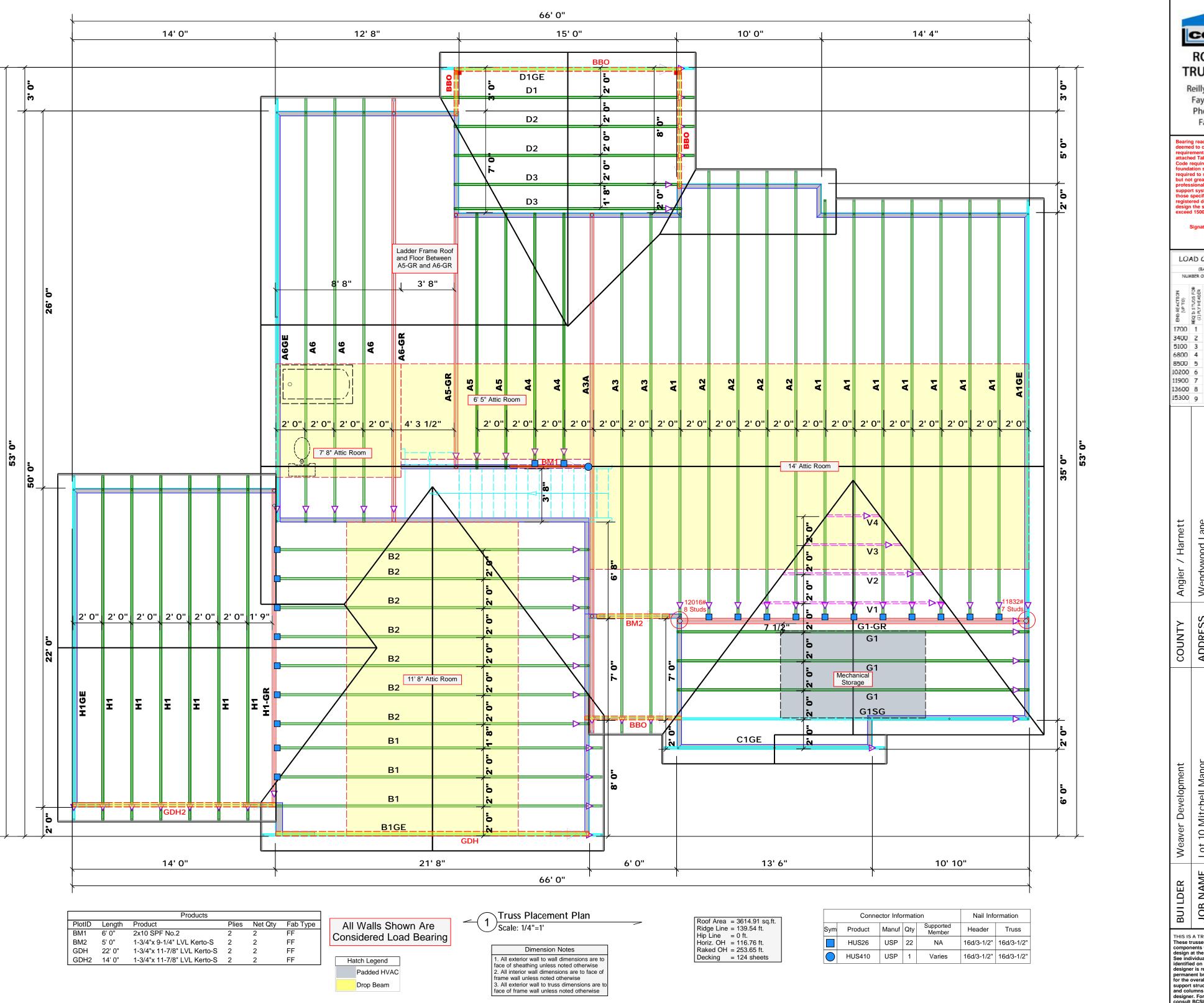
**SQUARE FOOTAGE** 1555 SO.FT RST FLOOR ALYROOM HEATED OPTIONAL TOTAL
UNHEATED RONT PORCH TOTAL 644 SQ.F UNHEATED OPTIONAL

© Copyright 2020 2/21/2020

200223B

| PAGE 8 OF 8





### соттесн **ROOF & FLOOR** TRUSSES & BEAMS

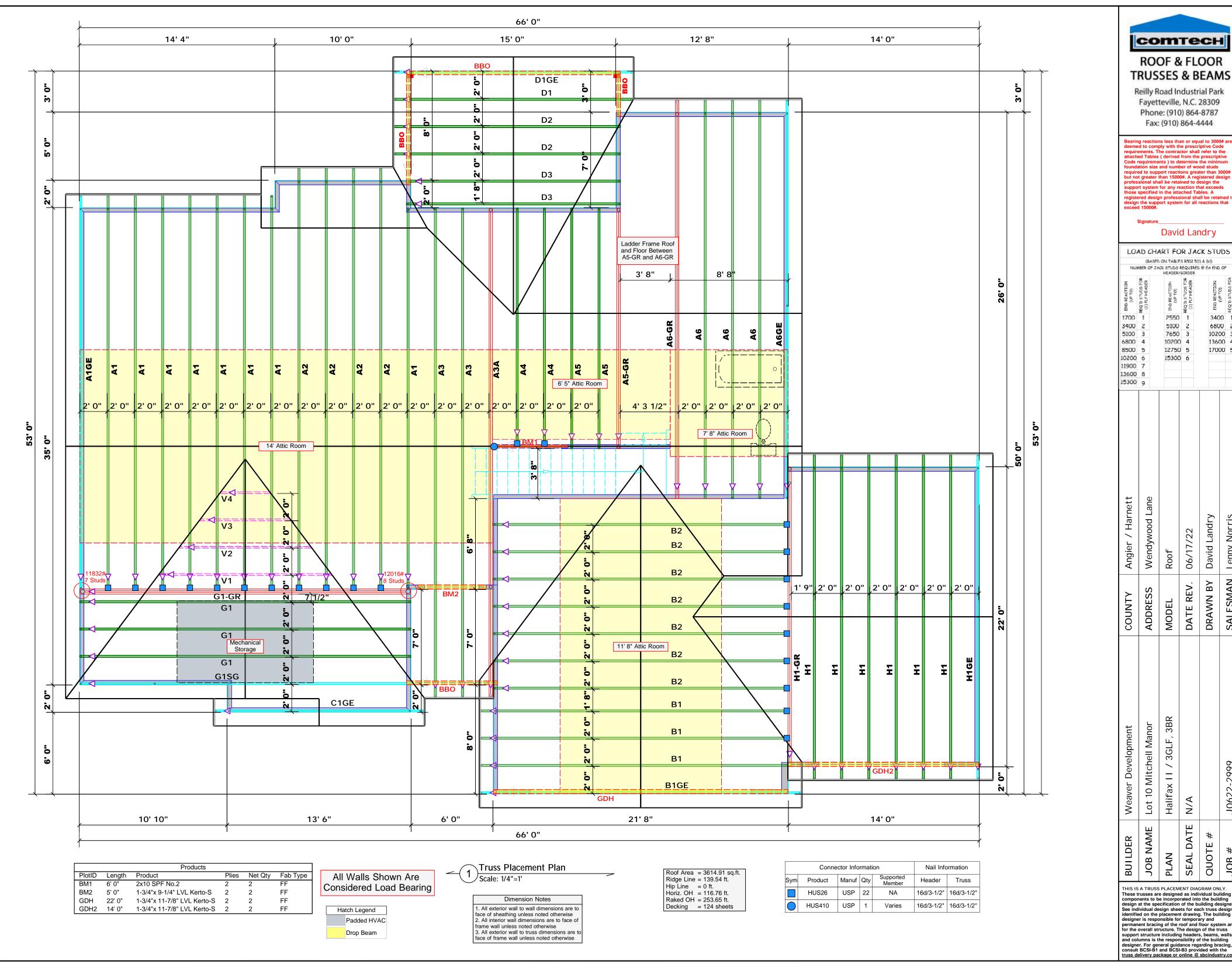
Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

David Landry

LOAD CHART FOR JACK STUDS												
(BASED ON TABLES R502.5(1) & (b))												
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER												
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP T0)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (OF TO)	REQ'D STUDS FOR (4) PLY HEADER					
1700	1		2550	1		3400	1					
3400	2		5100	2		6800	2					
5100	3		7650	3		10200	3					
6800	4		10200	4		13600	4					
8500	5		12750	5		17000	5					
10200	6		15300	6								
11900	7											
13600	8											

COUNTY Angier / Harnett ADDRESS Wendywood Lane MODEL Roof DATE REV. 06/17/22 DRAWN BY David Landry
--

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com truss delivery package or online @ sbcindustry.co



# ROOF & FLOOR TRUSSES & BEAMS

Fayetteville, N.C. 28309 Phone: (910) 864-8787

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds

David Landry

(BASED ON TABLES R502 5(1) & (b)) NUMBER OF JACK STUDS REQUIRED ⊕ EA END OF HEADER/GIRDER

2550 1 3400 1 5100 2 6800 Z 7650 3 10200 3 10200 4 13600 4 12750 5 17000 5 15300 6

David Landry 06/17/22 DATE REV.
DRAWN BY
SALESMAN

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

QUOTE



Client: Weaver Development Co. Inc.

Halifax II

Project:

Address: Wendywood Lane

Angier, NC 27501

Date: 6/17/2022

Input by: David Landry

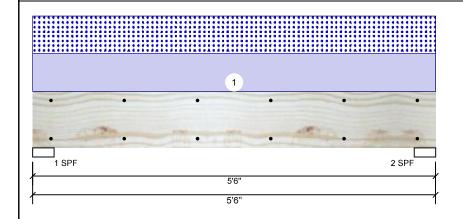
Job Name: Lot 10 Mitchell Manor

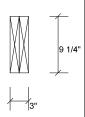
Project #: J0622-2999

BM1 S-P-F #2 2.000" X 10.000"

2-Ply - PASSED

Level: Level





Page 1 of 8

#### **Member Information**

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor
Design Method: ASD
Building Code: IBC/IRC 2015

Load Sharing: No
Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	919	919	0	0
2	Vertical	0	919	919	0	0

### Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	41%	919 / 919	1837	L	D+S
2 - SPF	3.500"	Vert	41%	919 / 919	1837	L	D+S

#### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2122 ft-lb	2'9"	3946 ft-lb	0.538 (54%)	D+S	L
Unbraced	2122 ft-lb	2'9"	3654 ft-lb	0.581 (58%)	D+S	L
Shear	1127 lb	1' 3/4"	2872 lb	0.392 (39%)	D+S	L
LL Defl inch	0.018 (L/3452)	2'9"	0.126 (L/480)	0.139 (14%)	S	L
TL Defl inch	0.035 (L/1726)	2'9"	0.168 (L/360)	0.209 (21%)	D+S	L

#### **Design Notes**

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

טו	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	334 PLF	0 PLF	334 PLF	0 PLF	0 PLF	A4

Manufacturer Info

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

This design is valid until 11/3/2024 CSD



Client: Weaver Development Co. Inc.

Wendywood Lane Angier, NC 27501 Address:

Date: 6/17/2022

Input by: David Landry Job Name: Lot 10 Mitchell Manor

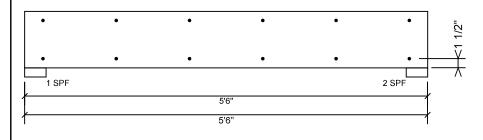
Project #: J0622-2999 Level: Level

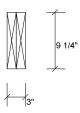
S-P-F #2 **BM1** 

2.000" X 10.000"

Project:

2-Ply - PASSED





Page 2 of 8

#### Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

0.0 % Capacity 0.0 PLF Load Yield Limit per Foot 157.4 PLF Yield Limit per Fastener 78.7 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

> Manufacturer Info Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS соттесн



Client: Weaver Development Co. Inc.

Address: Wendywood Lane

Angier, NC 27501

6/17/2022 Date:

Input by: David Landry Job Name: Lot 10 Mitchell Manor

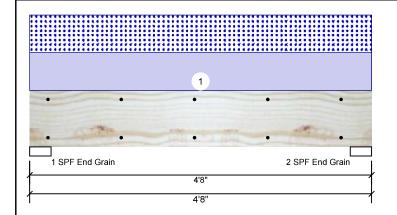
Project #: J0622-2999

**Kerto-S LVL BM2** 

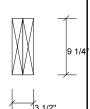
1.750" X 9.250"

2-Ply - PASSED

Level: Level



Project:



Page 3 of 8

•	viciniber innorm	iation		
	Type:	Girder	Application:	Floor
	Plies:	2	Design Method:	ASD
	Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
	Deflection LL:	480	Load Sharing:	No
	Deflection TL:	360	Deck:	Not Checked
	Importance:	Normal - II		
	Temperature:	Temp <= 100°F		

#### **Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1526	1510	0	0
2	Vertical	0	1526	1510	0	0
l						

#### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2881 ft-lb	2'4"	14423 ft-lb	0.200 (20%)	D+S	L
Unbraced	2881 ft-lb	2'4"	12555 ft-lb	0.229 (23%)	D+S	L
Shear	1659 lb	3'7 1/4"	7943 lb	0.209 (21%)	D+S	L
LL Defl inch	0.015 (L/3370)	2'4 1/16"	0.105 (L/480)	0.142 (14%)	S	L
TL Defl inch	0.030 (L/1676)	2'4 1/16"	0.140 (L/360)	0.215 (21%)	D+S	L

### Bearings

•	searings								
	Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.	
	1 - SPF End Grain	3.500"	Vert	30%	1526 / 1510	3036	L	D+S	
	2 - SPF End Grain	3.500"	Vert	30%	1526 / 1510	3036	L	D+S	

#### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

Location Trib Width ID Load Type Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Uniform 647 PLF 0 PLF 647 PLF 0 PLF 0 PLF A3 Top

> Self Weight 7 PLF

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

#### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

#### chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 11/3/2024

For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA





isDesign

Client: Weaver Development Co. Inc.

Input by: David Landry Job Name: Lot 10 Mitchell Manor J0622-2999 Project #:

6/17/2022

Date:

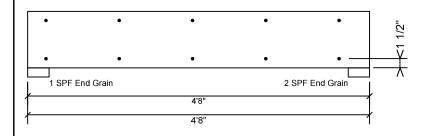
Wendywood Lane Angier, NC 27501

**Kerto-S LVL BM2** 

1.750" X 9.250"

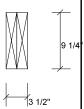
2-Ply - PASSED

Level: Level



Project:

Address:



Page 4 of 8

#### Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	,
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design ortieria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

#### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

#### Handling & Installation

Handling & Installation

1. LVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info







Client: Weaver Development Co. Inc.

Address: Wendywood Lane

Angier, NC 27501

6/17/2022 Date:

Input by: David Landry Job Name: Lot 10 Mitchell Manor Page 5 of 8

Project #: J0622-2999 Level: Level

Reactions UNPATTERNED lb (Uplift)

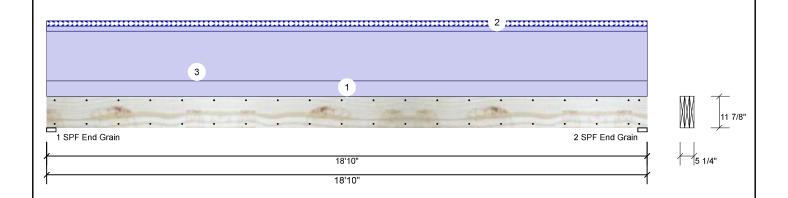
**Kerto-S LVL GDH** 

Member Information

1.750" X 11.875"

Project:

3-Ply - PASSED



Type:	Girder		Applicat	ion: Fl	oor		Brg	Direction	Liv	е	Dead	Snow	Wind	Const
Plies:	3		Design	Method: AS	SD		1	Vertical		0	2720	188	0	0
Moisture Co	ondition: Dry		Building	Code: IB	C/IRC 2015	5	2	Vertical		0	2720	188	0	0
Deflection L	.L: 480		Load St	naring: Ye	s									
Deflection T	L: 360		Deck:	No	t Checked									
Importance	Normal -	II												
Temperatur	e: Temp <=	100°F												
							Beari	ngs						
							Bear	ing Length	Dir.	Сар.	React D/L II	o Total	Ld. Case	Ld. Comb.
							1 - S End	PF 3.500"	Vert	19%	2720 / 18	3 2908	L	D+S
Analysis F	Results						Grair	1						
Analysis Moment	Actual 12191 ft-lb	Location 9'5"	Allowed 27954 ft-lb	Capacity 0.436 (44%)	Comb.	Case Uniform	2 - S End Grair	•	Vert	19%	2720 / 18	3 2908	L	D+S

Uniform

L

### **Design Notes**

Unbraced

Shear

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

9'5" 13043 ft-lb

9'5 1/16" 0.459 (L/480) 0.080 (8%) S

9'5 1/16" 0.612 (L/360) 0.922 (92%) D+S

17'6 5/8" 11970 lb

0.999

(100%)

0.197 (20%) D

- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.

13035 ft-lb

2364 lb

LL Defl inch 0.037 (L/6029)

TL Defl inch 0.565 (L/390)

- 6 Top must be laterally braced at a maximum of 10'11 13/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

o Edicial sicilaciness ratio based on single ply width.											
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall	
2	Tie-In	0-0-0 to 18-10-0	1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof	
3	Uniform			Тор	195 PLF	0 PLF	0 PLF	0 PLF	0 PLF	B1GE	
	Self Weight				14 PLF						

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

#### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

#### chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info





isDesign

Client: Weaver Development Co. Inc.

Project: Address: Wendywood Lane

Angier, NC 27501

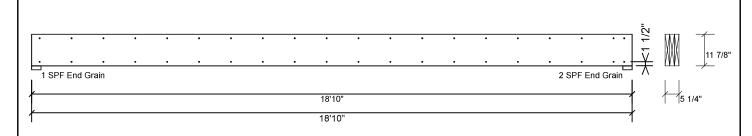
6/17/2022 Date:

Input by: David Landry Job Name: Lot 10 Mitchell Manor Page 6 of 8

J0622-2999 Project #:

**Kerto-S LVL** 1.750" X 11.875" 3-Ply - PASSED **GDH** 

Level: Level



#### **Multi-Ply Analysis**

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed

Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 163.7 PLF Yield Limit per Fastener 81.9 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

#### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

#### chemicals

#### Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info







Client: Weaver Development Co. Inc.

Project:

Address: Wendywood Lane Angier, NC 27501

6/17/2022 Date:

Input by: David Landry Job Name: Lot 10 Mitchell Manor

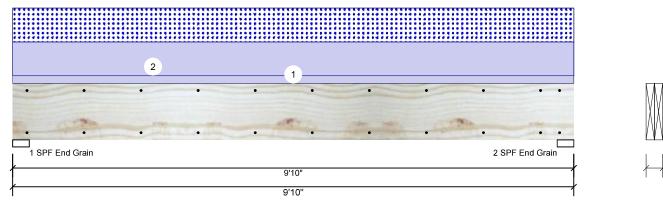
Project #: J0622-2999

**Kerto-S LVL** GDH2

1.750" X 11.875"

2-Ply - PASSED

Level: Level



11 7/8"

Page 7 of 8

#### Member Information

Туре:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Floor Application: Design Method: ASD **Building Code:** IBC/IRC 2015

Load Sharing: Deck: Not Checked

Reactions	UNPATTERNED	lb	(Uplift)
-----------	-------------	----	----------

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1653	1313	0	0
2	Vertical	0	1653	1313	0	0

#### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6627 ft-lb	4'11"	22897 ft-lb	0.289 (29%)	D+S	L
Unbraced	6627 ft-lb	4'11"	9857 ft-lb	0.672 (67%)	D+S	L
Shear	2202 lb	1'3 3/8"	10197 lb	0.216 (22%)	D+S	L
LL Defl inch	0.056 (L/2022)	4'11"	0.234 (L/480)	0.237 (24%)	S	L
TL Defl inch	0.126 (L/895)	4'11"	0.312 (L/360)	0.402 (40%)	D+S	L

### Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	29%	1653 / 1313	2966	L	D+S
2 - SPF End Grain	3.500"	Vert	29%	1653 / 1313	2966	L	D+S

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.

Self Weight

- 7 Bottom must be laterally braced at end bearings.

o Lateral Sieriue	o Lateral significant based on single ply width.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
2	Uniform			Тор	267 PLF	0 PLF	267 PLF	0 PLF	0 PLF	G1

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

#### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

### Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

9 PLF

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA





isDesign

Client: Weaver Development Co. Inc.

Project:

Address: Wendywood Lane

Angier, NC 27501

6/17/2022 Date:

Input by: David Landry Job Name: Lot 10 Mitchell Manor Page 8 of 8

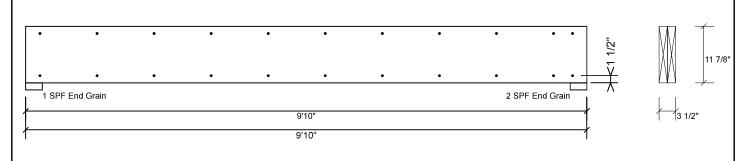
J0622-2999 Project #:

**Kerto-S LVL** GDH2

1.750" X 11.875"

2-Ply - PASSED

Level: Level



#### Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 0.0 % 0.0 PLF Load Yield Limit per Foot 163.7 PLF Yield Limit per Fastener 81.9 lb. IV Yield Mode Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

#### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

#### Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

Manufacturer Info

www.metsawood.com/us







RE: J0622-2999

Lot 10 Mitchell Manor

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Weaver Development Project Name: J0622-2999 Lot/Block: 10 Model: Halifax II

Address: Wendywood Lane Subdivision: Mitchell Manor

State: NC City: Angier

#### General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E16466230	A1	12/2/2021	21	E16466250	G1-GR	12/2/2021
2	E16466231	A1GE	12/2/2021	22	E16466251	G1SG	12/2/2021
3	E16466232	A2	12/2/2021	23	E16466252	H1	12/2/2021
4	E16466233	A3	12/2/2021	24	E16466253	H1-GR	12/2/2021
5	E16466234	A3A	12/2/2021	25	E16466254	H1GE	12/2/2021
6	E16466235	A4	12/2/2021	26	E16466255	V1	12/2/2021
7	E16466236	A5	12/2/2021	27	E16466256	V2	12/2/2021
8	E16466237	A5-GR	12/2/2021	28	E16466257	V3	12/2/2021
9	E16466238	A6	12/2/2021	29	E16466258	V4	12/2/2021
10	E16466239	A6-GR	12/2/2021				
11	E16466240	A6GE	12/2/2021				
12	E16466241	B1	12/2/2021				
13	E16466242	B1GE	12/2/2021				
14	E16466243	B2	12/2/2021				
15	E16466244	C1GE	12/2/2021				
16	E16466245	D1	12/2/2021				
17	E16466246	D1GE	12/2/2021				
18	E16466247	D2	12/2/2021				
19	E16466248	D3	12/2/2021				

12/2/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

G1

Truss Design Engineer's Name: Lassiter, Frank

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

E16466249

20

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Job	)	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
						E16466230
JUE	522-2999	A1	ATTIC	8	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:08 2021 Page 1

Structural wood sheathing directly applied or 4-5-13 oc purlins,

Rigid ceiling directly applied or 5-11-10 oc bracing.

except end verticals

1 Brace at Jt(s): 16

1 Row at midpt

				ID:G?N	1gu2wAOe	thMIzVCCS4	xvzzRiE-ldq1A1D	kwDtvkJIEW	VuxEcmRt?xZJETF	·m1RSKqhyD46l
- 1	3-2-12	<sub>1</sub> 5-0-3 <sub>1</sub>	10-5-8	15-10-13	17-8-4	22-5-8	27-11-0	28-10 <sub>-</sub> 0		
	3-2-12	1-9-7	5-5-5	5-5-5	1-9-7	4-9-4	5-5-8	0-11-0		

6x8 = Scale = 1:86.6

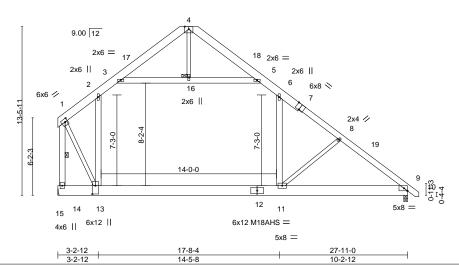


Plate Offsets (X,Y)--[1:0-2-8,0-2-12], [7:0-4-0,Edge], [9:0-3-5,Edge], [13:0-8-0,0-3-0] LOADING (psf) SPACING-DEFL **PLATES** 2-0-0 CSI (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) -0.30 11-13 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.69 Vert(CT) -0.61 11-13 >538 240 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.72 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.21 9-11 >999 240 Weight: 307 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

**JOINTS** 

LUMBER-

REACTIONS.

TOP CHORD 2x8 SP No.1 \*Except\*

7-10: 2x6 SP No.1 BOT CHORD 2x10 SP 2400F 2.0E \*Except\*

9-12: 2x10 SP No.1

9-12. 2X 10 SP No.1 \*WEBS 2x6 SP No.1 \*Except\* 8-11,4-16,1-13: 2x4 SP No.2

0-11,4-10,1-13. 2.44 31 110.2

(size) 14=Mechanical, 9=0-3-8 Max Horz 14=-317(LC 8)

Max Grav 14=2033(LC 21), 9=1665(LC 21)

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

TOP CHORD 1-2=-1625/0, 2-3=-1477/112, 3-4=-556/107, 4-5=-411/104, 5-6=-1312/102, 6-8=-1903/0,

8-9=-2117/0, 1-14=-3612/0

BOT CHORD 13-14=-267/321, 11-13=0/1397, 9-11=0/1642

WEBS 2-13=-362/304, 6-11=0/784, 8-11=-523/203, 3-16=-1122/83, 5-16=-1122/83,

1-13=0/3077

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-6-6, Interior(1) 4-6-6 to 10-5-8, Exterior(2) 10-5-8 to 14-10-5, Interior(1) 14-10-5 to 28-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-16, 5-16; Wall dead load (5.0psf) on member(s).2-13, 6-11
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 8) Refer to girder(s) for truss to truss connections.
- 9) Attic room checked for L/360 deflection.



December 2,2021



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	A1GE	GABLE	1	_	E16466231
30022-2999	AIGE	GABLE	'	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:09 2021 Page 1

Structural wood sheathing directly applied or 5-0-7 oc purlins,

except end verticals.

				ID:G?Mgu	2wAOeth	MIZVCCS4xvzzi	RIE-DQOQONEN	/InvvnmMSJQ4	4cST9_zqqLvvzvawF	5CtN/yD46C
1	3-2-12	5-0-3	10-5-8	15-10-13	17-8-4	22-5-8	27-11-0	28-10 <sub>-</sub> 0		
Г	3-2-12	1-9-7	5-5-5	5-5-5	1-9-7	4-9-4	5-5-8	0-11-0		

Scale = 1:86.6 6x8 =

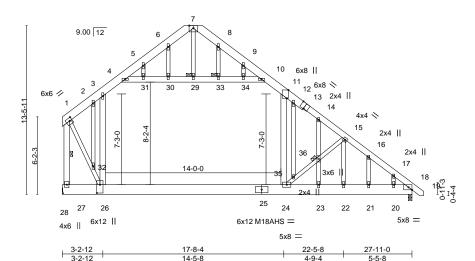


Plate Offsets (X,Y)--[1:0-2-8,0-2-12], [11:0-7-14,Edge], [13:0-4-0,Edge], [18:0-3-5,Edge], [26:0-8-0,0-3-0] LOADING (psf) SPACING-**PLATES** 2-0-0 CSI (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.58 Vert(LL) -0.28 24-26 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.67 Vert(CT) -0.57 24-26 >579 240 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.78 Horz(CT) 0.02 18 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.26 24 >999 240 Weight: 352 lb FT = 20%

LUMBER-		BRACING-
TOP CHORD	2x8 SP No 1 *Except*	TOP CHORD

TOP CHORD 2x8 SP No.1 \*Except\* 13-19: 2x6 SP No.1

2x10 SP 2400F 2.0E \*Except\* BOT CHORD BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 18-25: 2x10 SP No.1 6-2-6 oc bracing: 26-27

**WEBS** 2x6 SP No.1 \*Except\* 6-6-8 oc bracing: 24-26.

15-24,7-29,1-26,15-22: 2x4 SP No.2 WEBS 1 Row at midpt 1-27 OTHERS 2x4 SP No.2 JOINTS 1 Brace at Jt(s): 29, 33, 36

REACTIONS. (size) 27=Mechanical, 18=0-3-8

Max Horz 27=-432(LC 13)

Max Uplift 18=-35(LC 13)

Max Grav 27=2032(LC 21), 18=1669(LC 21)

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

1-2=-1613/0, 2-3=-1516/0, 3-4=-1471/166, 4-5=-656/111, 5-6=-453/132, 6-7=-432/188, TOP CHORD

7-8=-345/181, 8-9=-399/132, 9-10=-401/114, 10-11=-1295/156, 11-12=-1925/44,

12-14=-1885/8, 14-15=-1743/0, 15-16=-2232/131, 16-17=-2287/79, 17-18=-2454/0,

**BOT CHORD** 26-27=-326/435, 24-26=0/1410, 23-24=0/1780, 22-23=0/1780, 21-22=0/1751,

20-21=0/1751, 18-20=0/1751

**WEBS**  $3-26=-407/223,\ 11-24=0/1075,\ 24-35=-994/479,\ 35-36=-812/423,\ 15-36=-811/415,$ 

 $4 - 31 = -1087/103,\ 30 - 31 = -1077/104,\ 29 - 30 = -1078/104,\ 29 - 33 = -1078/104,\ 33 - 34 = -1078/104,\ 33 - 34 = -1078/104,\ 34 - 31 = -1087/103,\ 30 - 31 = -1077/104,\ 29 - 30 = -1078/104,\ 29 - 30 = -1078/104,\ 30 - 31 = -1078/104,\$ 

10-34=-1073/102, 1-32=-10/3046, 26-32=-19/3104, 5-31=-9/358, 12-35=-261/81,

14-36=-400/35, 23-36=-399/25, 15-22=-247/660

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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 MT20 plates unless otherwise indicated.
- 5) All plates are 2x6 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 3-4, 10-11, 4-31, 30-31, 29-30, 29-33, 33-34, 10-34; Wall dead load (5.0 psf) on member(s).3-26, 11-24



December 2,2021

Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	A1GE	GABLE	1	1	E16466231
30022-2333	AIGE	OABLE	'	· '	Job Reference (optional)

B.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:09 2021 Page 2 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-DqOQONEMhWnmMSJQ4cST9\_zqqLvvzvawF5CtN7yD46C

- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 18.
- 13) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000	40	ATTIC			E16466232
J0622-2999	A2	ATTIC	4	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:10 2021 Page 1

				ID:G	:?Mgu2wA	OefhMlzVC0	CS4xvzzRiE-h0yol	bjF_Sqvd_cudeJzihBW	/2DkD2iJW3UlxQvZyD46B
- 1	3-2-12	5-0-3	10-5-8	15-10-13	<sub>1</sub> 17-8-4	22-5-8	26-5-8	29-11-0 30-10 <sub>0</sub>	
Ī	3-2-12	1-9-7	5-5-5	5-5-5	1-9-7	4-9-4	4-0-0	3-5-8 0-11-0	

Scale = 1:86.6 6x8 =

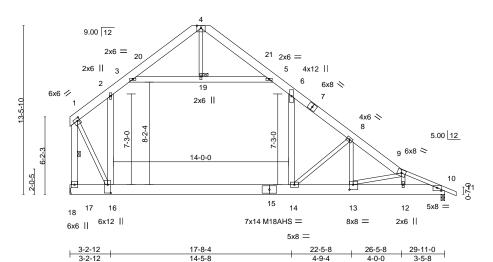


Plate Offsets (X,Y)-- [1:0-2-8,0-2-8], [10:0-4-0,0-2-14], [13:0-3-8,0-4-12], [16:0-8-0,0-3-0]

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.42	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.36 14-16 >978 360	PLATES GRIP MT20 244/190
			, , , , , , , , , , , , , , , , , , , ,	
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.74 14-16 >479 240	M18AHS 186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.02 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.22 14 >999 240	Weight: 334 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

**JOINTS** 

LUMBER-

2x8 SP 2400F 2.0E \*Except\*

TOP CHORD 9-11: 2x4 SP No.1

BOT CHORD 2x10 SP 2400F 2 0F

2x4 SP No.2 \*Except\* **WEBS** 

2-16,6-14,3-5,1-17: 2x6 SP No.1

REACTIONS. (size) 17=Mechanical, 10=0-3-8

Max Horz 17=-320(LC 8)

Max Grav 17=2144(LC 21), 10=1640(LC 21)

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

TOP CHORD  $1\hbox{-}2\hbox{--}1710/0,\ 2\hbox{-}3\hbox{--}1583/108,\ 3\hbox{-}4\hbox{--}573/106,\ 4\hbox{-}5\hbox{--}392/105,\ 5\hbox{-}6\hbox{--}1377/102,\ 6\hbox{-}8\hbox{--}2121/0,}$ 

8-9=-3066/14. 9-10=-2966/3. 1-17=-3817/0

16-17=-219/323, 14-16=0/1512, 13-14=0/2530, 12-13=0/2793, 10-12=0/2680 2-16=-372/266, 6-14=0/1019, 8-14=-1601/216, 9-12=-533/69, 3-19=-1220/78, **BOT CHORD WEBS** 

5-19=-1220/78, 1-16=0/3299, 8-13=-80/1003, 9-13=-314/97

#### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-6-6, Interior(1) 4-6-6 to 10-5-8, Exterior(2) 10-5-8 to 14-10-5, Interior(1) 14-10-5 to 30-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-19, 5-19; Wall dead load (5.0psf) on member(s).2-16, 6-14
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 8) Refer to girder(s) for truss to truss connections. 9) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied or 3-6-9 oc purlins,

Rigid ceiling directly applied or 5-6-5 oc bracing.

except end verticals

1 Brace at Jt(s): 19

1 Row at midpt





Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	42	ATTIC		,	E16466233
J0622-2999	A3	ATTIC	2	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:11 2021 Page 1

				ID:G?Mg	ju2wAOefhMlzVC	CS4xvzzF	RiE-9CWAp3Gc	C81UbmTpB1VxEP	'3A38ZpRqyDjPh_R?	?yD46
-0 <sub>r</sub> 11 <sub>r</sub> 0	7-1-12	10-2-12	12-0-3 <sub>1</sub>	17-5-8	22-10-13	24-8-4	29-5-8	34-11-0	1	
0.11.0	7-1-12	3-1-0	1-0-7	5-5-5	5-5-5	1-0-7	1-0-1	5-5-8	7	

Scale = 1:86.0 6x8 =

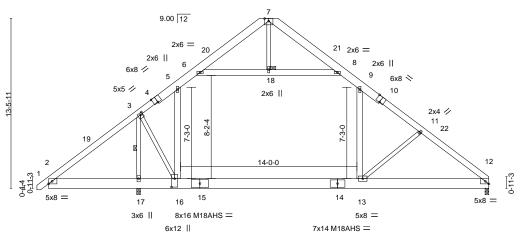
Structural wood sheathing directly applied or 4-7-1 oc purlins.

3-17

Rigid ceiling directly applied or 5-7-4 oc bracing.

1 Row at midnt

1 Brace at Jt(s): 18



10-2-12 3-1-0 14-5-8 10-2-12

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

JOINTS

Plate Off	Plate Offsets (X,Y) [3:0-2-4,0-1-12], [4:0-4-0,Edge], [10:0-4-0,Edge], [16:0-8-0,0-3-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.32 13-	.,	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.67 13-1	6 >495	240	M18AHS	186/179	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.01	12 n/a	n/a			
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.21	13 >999	240	Weight: 349 lb	FT = 20%	

LUMBER-

TOP CHORD 2x8 SP No.1 \*Except\* 1-4.10-12: 2x6 SP No.1

BOT CHORD 2x10 SP 2400F 2.0E 2x4 SP No.2 \*Except\* **WEBS** 

5-16,9-13,6-8: 2x6 SP No.1

REACTIONS. (size) 17=0-3-8, 12=0-3-8

Max Horz 17=323(LC 9)

Max Grav 17=2585(LC 2), 12=1558(LC 21)

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

TOP CHORD 2-3=-359/523, 3-5=-1443/0, 5-6=-1383/35, 6-7=-583/127, 7-8=-419/108, 8-9=-1216/43,

9-11=-1770/0. 11-12=-1987/0

**BOT CHORD** 2-17=-366/407, 16-17=-456/389, 13-16=0/1282, 12-13=0/1537

3-17=-3830/192, 3-16=0/3169, 5-16=-533/223, 9-13=0/749, 11-13=-530/237, **WEBS** 

6-18=-1007/0, 8-18=-1007/0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 17-5-8, Exterior(2) 17-5-8 to 21-10-5, Interior(1) 21-10-5 to 34-9-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-18, 8-18; Wall dead load (5.0psf) on member(s).5-16, 9-13 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-16
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- designer.
- 9) Attic room checked for L/360 deflection.



December 2,2021



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor	
J0622-2999	АЗА	ATTIC	1	2	Job Reference (optional)	E16466234

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:12 2021 Page 1 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-dP4Y0OHEzR9LDw2?lk0AmcbOSYr2AF2My3QXzSyD469

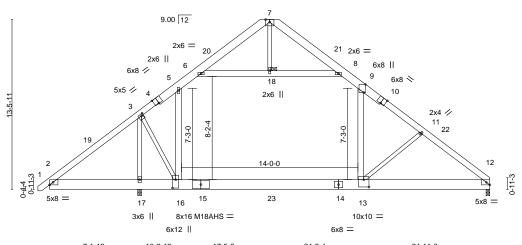


Scale = 1:86.0 6x8 =

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Brace at Jt(s): 18



10-2-12 7-1-12 3-1-0 7-2-12 7-2-12 Plate Offsets (X,Y)- [3:0-2-0.0-1-12], [4:0-4-0.Edge], [9:0-7-14.Edge], [10:0-4-0.Edge], [12:0-3-5.Edge], [13:0-5-0.0-7-0], [16:0-8-0.0-3-0]

Tidle Officer (71, 1)	[0.0 2 0,0 1 12], [1.0 1 0,2490], [0.0 1	in, Eugoj, [io.o i o, Eugo	j, [12.0 0 0,Eugoj, [10.0 0 0,0 1 0], [10.0 0 0,0 0 0]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.44 13-16 >747 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.71 13-16 >468 240	M18AHS 186/179
BCLL 0.0 *	Rep Stress Incr NO	WB 0.86	Horz(CT) 0.01 12 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.20 13-16 >999 240	Weight: 699 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

JOINTS

LUMBER-TOP CHORD

2x8 SP 2400F 2.0E \*Except\* 1-4.10-12: 2x6 SP 2400F 2.0E

BOT CHORD 2x10 SP 2400F 2.0E 2x4 SP No.2 \*Except\* **WEBS** 

5-16,9-13,6-8: 2x6 SP No.1

REACTIONS. (size) 17=0-3-8, 12=0-3-8

Max Horz 17=323(LC 11)

Max Grav 17=4603(LC 21), 12=2767(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-359/514, 3-5=-3511/152, 5-6=-2754/232, 6-7=-542/115, 7-8=-302/99,

8-9=-2471/221, 9-11=-4020/206, 11-12=-4280/227 2-17=-357/405, 16-17=-440/387, 13-16=0/2920, 12-13=-78/3320

**BOT CHORD** 

3-17=-8046/801, 3-16=-480/6540, 5-16=-88/1207, 9-13=-84/2257, 11-13=-732/263, **WEBS** 

6-18=-2795/253, 8-18=-2795/253

#### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 17-5-8, Exterior(2) 17-5-8 to 21-10-5, Interior(1) 21-10-5 to 34-9-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5) All plates are MT20 plates unless otherwise indicated.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-18, 8-18; Wall dead load (5.0psf) on member(s).5-16, 9-13 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-16
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3237 lb down and 464 lb up at 17-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

12) Attic room checked for L/360 deflection.



December 2,2021

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss experts.

\*\*Start Property Amages\*\* To general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000	A2A	ATTIC			E16466234
J0622-2999	A3A	ATTIC	1	2	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:12 2021 Page 2 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-dP4Y0OHEzR9LDw2?lk0AmcbOSYr2AF2My3QXzSyD469

#### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-80, 6-7=-60, 7-8=-60, 8-9=-80, 9-12=-60, 2-16=-20, 13-16=-40, 12-13=-20, 6-8=-20

Drag: 5-16=-10, 9-13=-10

Concentrated Loads (lb) Vert: 23=-1837(F)



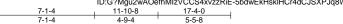
Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000		DOOF TRUING			E16466235
J0622-2999	A4	ROOF TRUSS	2	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:13 2021 Page 1 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-5bdwEkHsklHCr4dCJSXPJq8WXyMxvqXVAjA5WuyD468

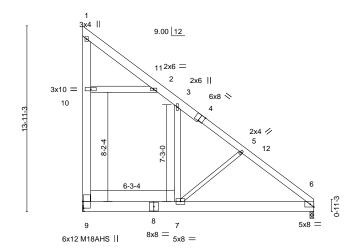
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



Scale = 1:81.3



7-1-4	17-4-0
7-1-4	10-2-12

BRACING-

TOP CHORD

BOT CHORD

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.16	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.35	6-7	>572	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-S	Wind(LL)	0.15	6-7	>999	240	Weight: 203 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1 \*Except\* 4-6: 2x6 SP No.1

BOT CHORD 2x10 SP 2400F 2.0E 2x6 SP No.1 \*Except\* **WEBS** 

1-9: 2x8 SP No.1, 5-7: 2x4 SP No.2

REACTIONS. (size) 9=Mechanical, 6=0-3-8

Max Horz 9=-422(LC 13) Max Uplift 9=-57(LC 13)

Max Grav 9=1328(LC 21), 6=798(LC 21)

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

9-10=-561/92, 1-10=-505/125, 1-2=-119/538, 2-3=-259/134, 3-5=-535/82, 5-6=-746/90 TOP CHORD

**BOT CHORD** 7-9=-13/405, 6-7=0/578

3-7=-18/253, 5-7=-514/223, 2-10=-703/262 **WEBS** 

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 4-8-7, Interior(1) 4-8-7 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 2-3, 2-10; Wall dead load (5.0psf) on member(s).3-7
  6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 7-9
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 9.
- 9) Attic room checked for L/360 deflection.



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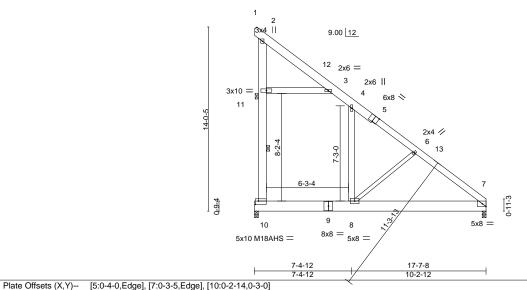


Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000	٨٥	DOOF TRUCK		,	E16466236
J0622-2999	A5	ROOF TRUSS	2	1	Job Reference (optional)

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	ID:G?Mgu2wAO	efhMlzVCCS4xvzzRi	iE-5bdwEkHsklHCr4dCJSXPJq8UVyMyvqVVAjA5WuyD
7-4-12	12-2-0	17-7-8	1
7-4-12	4-9-4	5-5-8	1

Scale = 1:82.6



LOADING (	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	
	20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.16	7-8	>999	360	

TCDL 10.0 Lumber DOL 1.15 0.28 Vert(CT) -0.35 7-8 >573 BCLL 0.0 \* Rep Stress Incr YES WB 0.34 Horz(CT) 0.00 n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.15 7-8 >999

**PLATES** 244/190 MT20 240 M18AHS 186/179 n/a 240

Weight: 205 lb FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1 \*Except\* 5-7: 2x6 SP No.1 BOT CHORD 2x10 SP 2400F 2.0E **WEBS** 

2x6 SP No.1 \*Except\*

2-10: 2x8 SP No.1, 6-8: 2x4 SP No.2

**BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 10-11

WEBS 1 Row at midpt **JOINTS** 1 Brace at Jt(s): 11

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Horz 10=-432(LC 13) Max Uplift 10=-72(LC 13)

Max Grav 10=1359(LC 21), 7=796(LC 21)

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

TOP CHORD  $10\text{-}11\text{=-}592/107, 2\text{-}11\text{=-}536/140, 2\text{-}3\text{=-}128/539, 3\text{-}4\text{=-}272/100, 4\text{-}6\text{=-}544/49,}$ 

6-7=-755/57

**BOT CHORD** 8-10=-16/415. 7-8=0/585

WEBS 4-8=-20/253, 3-11=-698/256, 6-8=-515/226

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-0 to 4-5-13, Interior(1) 4-5-13 to 17-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 3-11; Wall dead load (5.0psf) on member(s).4-8
  6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-10
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 10.
- 8) Attic room checked for L/360 deflection.



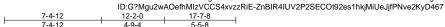
December 2,2021





Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	A5-GR	ROOF TRUSS	1	2	E16466237
					Job Reference (optional)

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Scale = 1:82.6

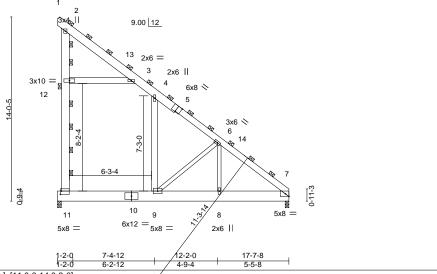


Plate Offsets (X,Y)-- [5:0-4-0,Edge], [7:0-3-5,Edge], [11:0-0-14,0-3-0]

LOADING (psf)	SPACING- 3-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.10 9 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.22 9 >930 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.21	Horz(CT) 0.00 7 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 9 >999 240	Weight: 421 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**JOINTS** 

LUMBER-

WEBS

TOP CHORD 2x8 SP No.1 \*Except\* 5-7: 2x6 SP No.1 BOT CHORD 2x10 SP 2400F 2.0E 2x6 SP No.1 \*Except\*

2-11: 2x8 SP No.1, 6-9,6-8: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 7=0-3-8

Max Horz 11=-648(LC 13) Max Uplift 11=-108(LC 13)

Max Grav 11=2038(LC 21), 7=1193(LC 21)

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

TOP CHORD  $11 - 12 = -814/159, \ 2 - 12 = -730/208, \ 2 - 3 = -189/707, \ 3 - 4 = -412/149, \ 4 - 6 = -738/83,$ 

6-7=-1755/32 **BOT CHORD** 9-11=-61/625, 8-9=0/1261, 7-8=0/1261

WEBS 3-12=-945/393, 6-9=-1476/312, 6-8=-30/1064

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-0 to 4-5-13, Interior(1) 4-5-13 to 17-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (10.0 psf) on member(s). 3-4, 3-12; Wall dead load (5.0psf) on member(s).4-9
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 11.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.



2-0-0 oc purlins (6-0-0 max.), except end verticals

Rigid ceiling directly applied or 10-0-0 oc bracing.

(Switched from sheeted: Spacing > 2-10-0).



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000	40	DOOF TRUING			E16466238
J0622-2999	A6	ROOF TRUSS	3	1	Job Reference (optional)

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Structural wood sheathing directly applied or 4-5-13 oc purlins,

3-15, 14-15

Rigid ceiling directly applied or 5-11-2 oc bracing.

			I	D:G?Mgu2wAOefhMlz	:VCCS4xvzzRiE-2_lheQJ	7GMXv4Nna(	⊋tZtOFDr?lumNbtoe1tBanyD466
	3-10-0	9-7-0	10-10 <sub>1</sub> 0 13-7-1	19-10-0	28-3-8	29-2 <sub>1</sub> 8	
Ī	3-10-0	5-9-0	1-3-0 2-9-1	6-2-15	8-5-8	0-111-0	

6x10 M18SHS = Scale = 1:87.0

except end verticals

1 Brace at Jt(s): 15

1 Row at midpt

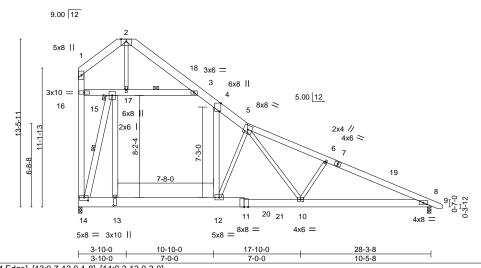


Plate Offsets (X,Y)--[4:0-7-14,Edge], [13:0-7-12,0-1-8], [14:0-3-12,0-3-0] LOADING (psf) SPACING-DEFL. **PLATES** 2-0-0 CSI (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.67 Vert(LL) -0.22 10-12 >999 360 MT20 244/190 TCDL -0.46 10-12 10.0 Lumber DOL 1.15 ВС 0.90 Vert(CT) >736 240 M18SHS 244/190 **BCLL** 0.0 Rep Stress Incr YES WB 0.94 Horz(CT) 0.03 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.15 10-12 >999 240 Weight: 322 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

**JOINTS** 

LUMBER-

TOP CHORD 2x8 SP No.1 \*Except\* 5-7.7-9: 2x6 SP No.1

BOT CHORD 2x8 SP No.1 \*Except\* 11-14: 2x10 SP No.1

WEBS 2x6 SP No.1 \*Except\*

2-17,5-12,5-10,6-10: 2x4 SP No.2

**REACTIONS.** (size) 14=0-3-8, 8=0-3-8

Max Horz 14=-386(LC 13)

Max Grav 14=1899(LC 21), 8=1327(LC 2)

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

TOP CHORD 1-2=-46/909, 2-3=-81/883, 3-4=-845/0, 4-5=-1740/0, 5-6=-2479/0, 6-8=-2689/6,

14-16=-69/1026, 1-16=-13/598

BOT CHORD 13-14=0/1154, 12-13=0/1196, 10-12=0/1729, 8-10=0/2401

WEBS 13-15=0/1674, 4-12=0/1284, 15-16=-703/80, 15-17=-2008/133, 3-17=-1755/94, 14-15=-3791/83, 2-17=-1396/254, 5-12=-1480/147, 5-10=-173/947, 6-10=-420/248

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 8-2-13, Interior(1) 8-2-13 to 28-11-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 3-4, 4-5, 15-16, 15-17, 3-17; Wall dead load (5.0psf) on member(s).13-15, 4-12
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- 8) Attic room checked for L/360 deflection.







Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	A6-GR	ROOF TRUSS	1		E16466239
			· ·	2	Job Reference (optional)

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			ID:G?Mgu2wAOefhMIz	VCCS4xvzzRiEMtR36KNo	ozndJhxzYHb	LTgJE6ZchrVk55K8lffyD464
3-10-0	9-7-0	10-10-0 13-7-1	19-10-0	28-3-8	29-2-8	
3-10-0	5-9-0	1-3-0 2-9-1	6-2-15	8-5-8	0-11-0	

6x8 = Scale = 1:82.3

10-5-8

240

2-0-0 oc purlins (6-0-0 max.), except end verticals

Rigid ceiling directly applied or 10-0-0 oc bracing.

(Switched from sheeted: Spacing > 2-10-0).

>999

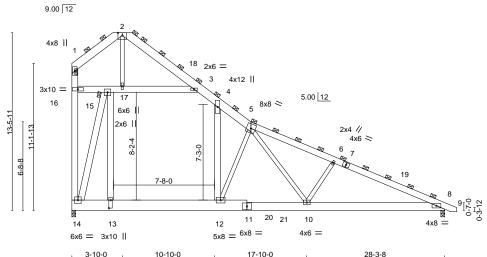


Plate Offsets (X,Y)--[13:0-7-4,0-1-8] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 3-0-0 (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.16 10-12 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.74 Vert(CT) -0.34 10-12 >981 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.90 Horz(CT) 0.02 n/a n/a

7-0-0

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

JOINTS

0.11 10-12

LUMBER-

10.0

BCDL

TOP CHORD 2x8 SP No.1 \*Except\* 5-7,7-9: 2x6 SP No.1 BOT CHORD 2x8 SP No.1 \*Except\*

11-14: 2x10 SP No.1 WEBS 2x6 SP No.1 \*Except\*

2x6 SP No.1 "Except" 2-17,5-12,5-10,6-10: 2x4 SP No.2

**REACTIONS.** (size) 14=0-3-8, 8=0-3-8

Max Horz 14=-579(LC 13)

Max Grav 14=2848(LC 21), 8=1990(LC 2)

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

Code IRC2015/TPI2014

TOP CHORD 1-2=-69/1364, 2-3=-122/1324, 3-4=-1268/0, 4-5=-2610/0, 5-6=-3719/0, 6-8=-4034/9,

3-10-0

7-0-0

Matrix-S

14-16=-103/1539, 1-16=-19/897

BOT CHORD 13-14=0/1730, 12-13=0/1794, 10-12=0/2594, 8-10=0/3601

WEBS 13-15=0/2510, 4-12=0/1926, 15-16=-1055/120, 15-17=-3012/199, 3-17=-2632/140,

 $14 - 15 = -5686/124, \ 2 - 17 = -2094/382, \ 5 - 12 = -2220/220, \ 5 - 10 = -260/1421, \ 6 - 10 = -630/372$ 

#### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 8-2-13, Interior(1) 8-2-13 to 28-11-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 4-5, 15-16, 15-17, 3-17; Wall dead load (5.0psf) on member(s).13-15, 4-12
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

10) Attic room checked for L/360 deflection.



Weight: 644 lb

FT = 20%



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	A6GE	GABLE	1	1	E16466240
30022-2333	AUGE	OABLE	'	· '	Job Reference (optional)

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Structural wood sheathing directly applied or 4-11-1 oc purlins,

27-28, 8-25

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

		ID:U	ا Niguzwa Oeiniviiz ا ع	CCS4XVZZRIE-WAJ3SIIIKI	rgimixivin_a	46X3111219E?66VyS11U16DyD4
3-10-0	9-7-0	10-10 <sub>1</sub> 0 13-7-1	19-10-0	28-3-8	29-2 <sub>1</sub> 8	
3-10-0	5-9-0	1-3-0 2-9-1	6-2-15	8-5-8	0-11-0	

Scale = 1:87.0 6x10 M18SHS =

except end verticals.

1 Row at midpt

8-9-11 oc bracing: 26-27

6-11-2 oc bracing: 25-26.

1 Brace at Jt(s): 28, 35, 39

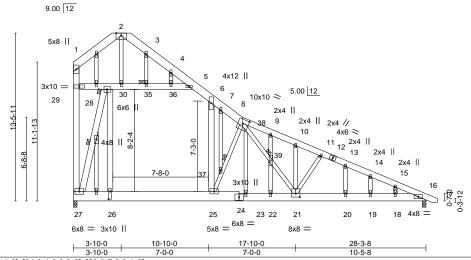


Plate Offsets (X,Y)	[8:0-5-8,0-4-0], [21:0-4-0,0-3-8], [26:0-7	<b>'-</b> 8,0-1-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL Ž0.Ó	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.17 25 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.37 23-25 >898 240	M18SHS 244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.03 16 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.18 23-25 >999 240	Weight: 372 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x8 SP No.1 \*Except\* 8-12.12-17: 2x6 SP No.1

BOT CHORD 2x8 SP No 1 \*Except\*

24-27: 2x10 SP No.1

2x6 SP No.1 \*Except\* **WEBS** 

2-30,8-25,8-21,11-21: 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS. (size) 27=0-3-8, 16=0-3-8

Max Horz 27=-563(LC 13)

Max Uplift 27=-62(LC 13), 16=-134(LC 13) Max Grav 27=1798(LC 21), 16=1288(LC 1)

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

1-2=-128/768, 2-3=-152/797, 3-4=-176/666, 4-5=-229/603, 5-6=-810/21, 6-7=-1473/0, TOP CHORD

7-8=-1553/0, 8-9=-2182/301, 9-10=-2203/254, 10-11=-2244/236, 11-13=-2332/264, 13-14=-2405/262, 14-15=-2401/211, 15-16=-2447/172, 27-29=-204/868, 1-29=-80/527

26-27=0/1083, 25-26=0/1123, 23-25=0/1668, 22-23=0/1668, 21-22=0/1668,

**BOT CHORD** 20-21=-104/2197, 19-20=-104/2197, 18-19=-104/2197, 16-18=-104/2197

26-28=-65/1610, 6-25=-26/999, 28-29=-589/141, 28-30=-1741/298, 30-35=-1523/241,

 $35 - 36 = -1524/241, \ 5 - 36 = -1525/239, \ 27 - 28 = -3429/396, \ 2 - 30 = -1299/326, \ 25 - 37 = -1571/470, \$  $8-37 = -1650/498,\ 8-38 = -491/1192,\ 38-39 = -311/673,\ 21-39 = -325/714,\ 11-21 = -413/251,$ 

23-38=-204/583

#### NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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 MT20 plates unless otherwise indicated.
- 5) All plates are 2x6 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 5-6, 28-29, 28-30, 30-35, 35-36, 5-36; Wall dead load (5.0psf) on member(s).26-28,
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 25-26



December 2,2021

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	A6GE	GABLE	1	1	E16466240
					Job Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:16 2021 Page 2 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-WAJ3smKl1gfmiXMn\_a46xSm2T9E?66vyshOl6DyD465

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 27 and 134 lb uplift at joint 16.

  12) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	B1	ATTIC	2	1	E16466241
J0622-2999	ы	ATTIC	3	'	Job Reference (optional)

5x5 =

Comtech, Inc, Fayetteville, NC - 28314,

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6-0-12

4-8-12

except end verticals.

1 Brace at Jt(s): 15

Structural wood sheathing directly applied or 4-2-15 oc purlins,

Rigid ceiling directly applied or 9-7-6 oc bracing.

Scale = 1:76.9

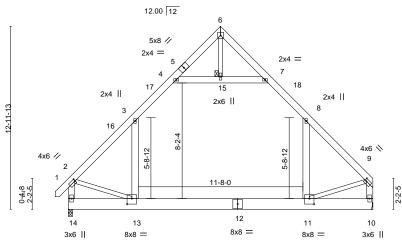


Plate Offsets (X,Y)-- [2:0-0-8,0-2-0], [9:0-1-8,0-2-0], [11:0-4-0,0-4-12], [13:0-4-0,0-4-12]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L	/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -0	.23 11-13	>999 36	60	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0	.38 11-13	>659 24	10		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0	.01 10	n/a n	/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0	.06 11-13	>999 24	10	Weight: 226 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP No.1

WEBS 2x6 SP No.1 \*Except\*

6-15,2-13,9-11: 2x4 SP No.2

REACTIONS. (size) 14=0-3-8, 10=Mechanical

Max Horz 14=329(LC 9) Max Grav 14=1486(LC 21), 10=1445(LC 20)

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

TOP CHORD 2-3=-1617/0, 3-4=-981/145, 7-8=-984/149, 8-9=-1597/0, 2-14=-1643/8, 9-10=-1598/0

BOT CHORD 13-14=-312/478, 11-13=0/995

WEBS 8-11=-8/675, 3-13=-2/708, 4-15=-1030/189, 7-15=-1030/189, 2-13=0/854, 9-11=0/917

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 15-2-5 to 21-4-4 zone; 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

4-8-12

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 7-8, 4-15, 7-15; Wall dead load (5.0psf) on member(s).8-11, 3-13 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 7) Refer to girder(s) for truss to truss connections.
- 8) Attic room checked for L/360 deflection.



December 2,2021





818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10633 3000	P1CE	GABLE	1	,	E16466242
J0622-2999	B1GE	GABLE	'	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:19 2021 Page 1 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-wl?BUoMdKb1LZ?4LfiepZ5OXRNIXJS2OZedPjYyD462

-0 <sub>111</sub> 0	4-8-12	7-7-12	10-9-8	13-11-4	16-10-4	21-7-0	22-6-0	
0-11-0	1-8-12	2-11-0	3-1-12	3-1-12	2-11-0	1-8-12	0 11 0	

5x5 =

Scale = 1:82.1

Structural wood sheathing directly applied or 4-9-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Brace at Jt(s): 23, 25, 28

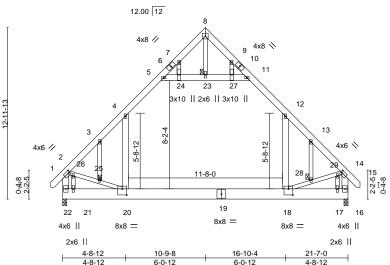


Plate Offsets (X,Y)	[2:0-1-0,0-2-0], [14:0-1-0,0-2-0], [18:0-4-0,0-5-8], [20:0-4-0,0-5-8]	
		=

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.21 18-20 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.35 18-20 >726 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.01 16 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 18-20 >999 240	Weight: 244 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP No.1

2x6 SP No 1 \*Except\* WFBS 8-23,2-20,14-18: 2x4 SP No.2

**OTHERS** 2x4 SP No.2

REACTIONS. (size) 22=0-3-8, 16=0-3-8

Max Horz 22=422(LC 11)

Max Grav 22=1480(LC 21), 16=1480(LC 20)

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

TOP CHORD 2-3=-1601/0, 3-4=-1592/42, 4-5=-995/179, 7-8=-26/326, 8-9=-26/326, 11-12=-995/179,

12-13=-1591/42, 13-14=-1600/0, 2-22=-1231/0, 14-16=-1232/0

**BOT CHORD** 21-22=-379/571, 20-21=-379/571, 18-20=0/1047, 17-18=-83/286, 16-17=-83/286 12-18=0/790, 4-20=0/790, 5-24=-1075/235, 23-24=-1070/236, 23-27=-1070/236, **WEBS** 

11-27=-1075/235, 8-23=-438/0, 2-26=-22/762, 25-26=-3/913, 20-25=-19/874, 18-28=-26/879, 28-29=-10/918, 14-29=-29/767, 7-24=-10/475, 21-26=-476/69,

9-27=-10/474, 17-29=-477/69

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (10.0 psf) on member(s). 4-5, 11-12, 5-24, 23-24, 23-27, 11-27; Wall dead load (5.0psf) on member(s).12-18, 4-20
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20
- 10) Attic room checked for L/360 deflection.



December 2,2021



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000	50	1	_		E16466243
J0622-2999	B2	ATTIC	/	1	Joh Deference (antional)
		I .		1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:20 2021 Page 1 G?Mqu2wAOefhMlzVCCS4xvzzRiE-OxYai7NF5u9CA9fYDQ925Iwf3meD21NXnIMyF yD461

		טו	.G : WguzwA	Oeiriiviiz v C	534XVZZKIE-UX i al	/ NF3u9CA9H DQ9Z3IWI3HEDZ I
4-8-12	7-7-12	10-9-8	13-11-4	16-10-4	21-7-0	1
4-8-12	2-11-0	3-1-12	3-1-12	2-11-0	4-8-12	1

5x5 = Scale = 1:76.9

Structural wood sheathing directly applied or 4-2-11 oc purlins,

Rigid ceiling directly applied or 9-6-8 oc bracing.

except end verticals.

1 Brace at Jt(s): 13

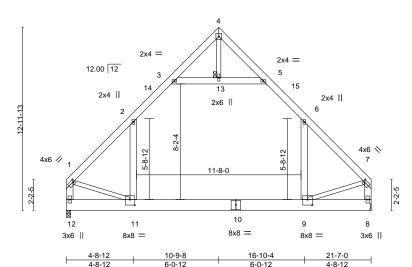


Plate Offsets (X,Y)	[1:0-1-4,0-2-0], [7:0-1-4,0-2-0], [9:0-4-0,0-4-12], [11:0-4-0,0-4-12]	
		-

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.23	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.39	9-11	>653	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	9-11	>999	240	Weight: 223 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP No.1

WEBS 2x6 SP No.1 \*Except\*

4-13,1-11,7-9: 2x4 SP No.2

(size) 12=0-3-8, 8=Mechanical

Max Horz 12=313(LC 11)

Max Grav 12=1446(LC 21), 8=1446(LC 20)

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

TOP CHORD 1-2=-1600/0, 2-3=-984/147, 5-6=-984/147, 6-7=-1600/0, 1-12=-1600/0, 7-8=-1601/0

BOT CHORD 11-12=-303/406, 9-11=0/997

WEBS 6-9=-6/678, 2-11=-7/678, 3-13=-1036/187, 5-13=-1036/187, 1-11=0/915, 7-9=0/919

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-8-12, Interior(1) 4-8-12 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 15-2-5 to 21-4-4 zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-13, 5-13; Wall dead load (5.0psf) on member(s).6-9, 2-11 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- 7) Refer to girder(s) for truss to truss connections.
- 8) Attic room checked for L/360 deflection.



December 2,2021



Job	Truss		Truss Type		Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	C1GE		COMMON SUPPORTED GAB		1	1	E16466244
							Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,				8.	430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:21 2021 Page 1
				ID:G?Mgu2	wAOefhN	11zVCCS4	kvzzRiE-s76yvTOtsCH3oIEkn7gHeWT0GA9enVgh0y6WoQyD460
		<sub>1</sub> 0-11-Q	7-7-8			14-4-0	<sub>1</sub> 15-3-0 <sub>1</sub>

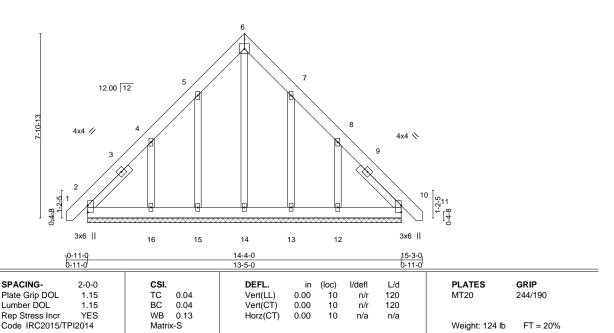
6-8-8

0-11-0

Scale = 1:46.4 5x5 =

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



BRACING-

TOP CHORD

**BOT CHORD** 

6-8-8

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

LOADING (psf)

2x6 SP No.1 2x6 SP No.1 TOP CHORD BOT CHORD

20.0

10.0

0.0

10.0

2x4 SP No.2 **OTHERS** 

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS. All bearings 13-5-0.

(lb) - Max Horz 2=-224(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-256(LC 12), 12=-251(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=270(LC 19), 12=265(LC 20)

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

**WEBS** 4-16=-280/263, 8-12=-280/260

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=256, 12=251.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 2,2021





Discrimination   Disc	Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitche	all Manor	
Dot   Common   1	300	ITUSS	riuss Type	Qiy	Fiy	LOT TO WITCH	en Marior	F16466245
Comtech, Inc.  Fayetteville, NC - 28314,    3.830 s Aug 16 2021 MTRE Mudstries, Inc. Thu Dec. 2 07:26:22 2021 Page 1	10622-2999	D1	COMMON	1		1		L10400243
Comtech, Inc.  Fayetteville, NC - 28314,  8.430 s Aug 16 2021 MTek Industries, Inc. Thu Dec 2 07:26:22 2021 Page 1 ID:G?Mgu2wAOefhMlzVCCS4xvzRiE-LkgK8pOWdWPwQSpwLBWAj07MaQmWv8qFcr3KtyD46?  15-8-0 7-10-0  5x5 =  Scale = 1:40.6	00022 2000	51	COMMON	'			ce (optional)	
D-10-8   7-10-0   15-8-0   16-6-8   1	Comtech, Inc.	Favetteville, NC - 28314.			8.430 s			26:22 2021 Page 1
9.00 12  9.00 12  9.00 12  9.00 12  9.00 12  9.00 12  9.00 12  15-8-0 7-10-0 15-8-0 7-10-0 15-8-0 16-6-8 0-10-8  Scale = 1:40.6				ID:G?Mgu2wAOefh		xvzzRiE-LKgK6p0		
5x5 = Scale = 1:40.6  9.00   12  9.00   12  4x12   1  7-10-0  7-10-0  7-10-0  7-10-0		<sub>T</sub> 0-10-8 <sub>i</sub>	7-10-0			15-8-0	,16-6-8 <sub>1</sub>	, ,
9.00 12  9.00 12  4x12     9 6 10  4x12     7-10-0  7-10-0  7-10-0  7-10-0		0-10-8	7-10-0	1		7-10-0	<sup>1</sup> 0-10-8 <sup>1</sup>	
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9.00 12  9.00 12  9.00 12  4x12     9 6 10  4x12     7-10-0  7-10-0  7-10-0  7-10-0				5x5 =				Scale = 1:40.6
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7  8  8  8  9  6  10  4x12     7-10-0  7-10-0  7-10-0  7-10-0  7-10-0								
7  8  8  8  9  6  10  4x12     7-10-0  7-10-0  7-10-0  7-10-0  7-10-0			/	/ /    \				
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9 6 10 4x12    7-10-0 15-8-0 7-10-0				´				
9 6 10 4x12    7-10-0 15-8-0 7-10-0					\ \			
9 6 10 4x12    7-10-0 15-8-0 7-10-0						. \		
9 6 10 4x12    9 6 10 4x12    7-10-0 7-10-0 7-10-0		5-5	7 / /			\ \ 8		
4x12    6 4x12    2x4		3 <del>-</del> 9						
4x12    6 4x12    2x4								
4x12    6 4x12    2x4			//			\ \		
4x12    6 4x12    2x4								
4x12    6 4x12    2x4								
4x12    6 4x12    2x4			/ /					
4x12    6 4x12    2x4							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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2x4    7-10-0 7-10-0 15-8-0 7-10-0			9	6	10		4::40 II	
7-10-0 7-10-0 15-8-0 7-10-0		4X12		2v4 II			4X12	
7-10-0 7-10-0				2A4 II				
7-10-0 7-10-0			7-10-0			15-8-0		
		<del></del>		+				
1 ialio 011000 (A, 1) [2.0 0 0,1090]	Plate Offsets (X	V) [2:0-5-8 Edge] [4:0-5				1-10-0		
	Tidle Olisels (A,	1) [2.0 5 5,Luge], [4.0-5	o,Eugoj					

	, . ,	[=:= = =;===g=]; [::= = =;===g=]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.03 4-6 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.05 4-6 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.01 4 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 4-6 >999 240	Weight: 98 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WFBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 4=0-3-0

Max Horz 2=-154(LC 10) Max Uplift 2=-90(LC 9), 4=-90(LC 8) Max Grav 2=717(LC 2), 4=717(LC 2)

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

2-3=-810/620, 3-4=-810/618 2-6=-323/544, 4-6=-323/544 TOP CHORD BOT CHORD

**WEBS** 3-6=-488/523

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; DCDL=6.0psf; and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 7-10-0, Exterior(2) 7-10-0 to 12-2-13, Interior(1) 12-2-13 to 16-4-12 zone; porch 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
  6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

December 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

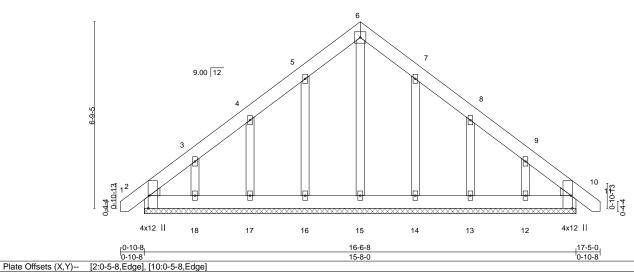
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see 

\*\*AMSUTPH\*\* Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
					E16466246
J0622-2999	D1GE	COMMON SUPPORTED GAB	1	1	
					Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,			.430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:23 2021 Page 1
			ID:G?Mgu2wAOef	hMIzVCCS	S4xvzzRiE-pWEiK9P8OpYn1cO7uYiljxYM0_qNFPA_TGbcsJyD46_
	<sub>[</sub> 0-10-8 <sub>]</sub>	8-8-8		1	6-6-8
	0-10-8	7-10-0	ı	7	-10-0 <sup>1</sup> 0-10-8 <sup>1</sup>

5x5 =



I late One		[2.0 5 0,Eage], [10.0 5 0,E	ugcj									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-S						Weight: 124 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD BOT CHORD 2x6 SP No.1 2x6 SP No.1

OTHERS 2x4 SP No.2 WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. All bearings 15-8-0.

(lb) - Max Horz 2=-192(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 14 except 17=-104(LC 12), 18=-135(LC 12),

13=-106(LC 13), 12=-129(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch 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 requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 14 except (jt=lb) 17=104, 18=135, 13=106, 12=129.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:39.4

December 2,2021





Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Mar		
			Qty	Fiy	Lot 10 Millerieli Mai	ioi	E16466247
J0622-2999	D2	COMMON	2		1 lab Dafanana (ant	!IV	
Comtech, Inc,	Fayetteville, NC - 28314,			8.430 s A	Job Reference (opt	ionai) ustries, Inc. Thu Dec 2	07:26:23 2021 Page 1
,,	•				CS4xvzzRiE-pWEiK9F	P8OpYn1cO7uYiljxYlp_r	
	70-10-8 0-10-8	7-10-0 7-10-0	-		15-8-0 7-10-0		
	0 10 0	7 10 0			7 10 0		
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	1X12 11		2x4			IX12 II	
		7-10-0			15-8-0		
	<del></del>	7-10-0			7-10-0		
Plate Offsets (X,Y	) [2:0-5-8,Edge], [4:0-5-8,Ed						
LOADING (psf)	SPACING-	2-0-0 <b>CSI</b> .	DEFL.	in (lo-\	1/doft 1 /d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0 <b>CSI.</b> 1.15 TC 0.30	Vert(LL) -0.0	in (loc) 3 2-5	I/defl L/d >999 360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC 0.30	Vert(CT) -0.0			IVITZU	<u>∠</u> <del>11</del> /13∪
DOLL 0.0		VEO N/D 0.04	VOI.(OT) 0.0		2000 240		

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

BOT CHORD

0.01

4 n/a

2-5

n/a

240

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 96 lb

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WFBS

0.0 \*

10.0

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 4=0-3-0

Max Horz 2=153(LC 11) Max Uplift 2=-90(LC 9), 4=-86(LC 8)

Max Grav 2=718(LC 2), 4=673(LC 2)

Rep Stress Incr

Code IRC2015/TPI2014

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

2-3=-811/620, 3-4=-809/620 2-5=-333/542, 4-5=-333/542 TOP CHORD BOT CHORD

**WEBS** 3-5=-486/524

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; DCDL=6.0psf; and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 7-10-0, Exterior(2) 7-10-0 to 12-2-13, Interior(1) 12-2-13 to 15-6-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.31

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
  6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job Truss Truss Type Qty Ply Lot 10 Mitchell Manor F16466248 J0622-2999 D3 COMMON Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:24 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314,  $ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-Hio4XVQm97gefmzJSGE\_G85TZN6P\_pj7iwKANlyD45z$ 7-10-0 7-10-0 Scale = 1:40.6 5x5 = 2 9.00 12 0-10-13 9 10 4 4x12 || 4x12 || 2x4 || 7-10-0 15-8-0 7-10-0 7-10-0 Plate Offsets (X,Y)--[1:0-5-8,Edge], [3:0-5-8,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 I/defl L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.30 Vert(LL) -0.02 3-4 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.29 Vert(CT) -0.05 3-4 >999 240

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.01

0.06

1-4 >999

n/a

n/a

240

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 94 lb

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x6 SP No.1 2x6 SP No.1 BOT CHORD 2x4 SP No.2 WFBS

0.0

10.0

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 1=0-3-0, 3=0-3-0

Max Horz 1=-150(LC 10) Max Uplift 1=-86(LC 9), 3=-86(LC 8) Max Grav 1=674(LC 2), 3=674(LC 2)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 1-2=-810/622, 2-3=-810/622 1-4=-335/543, 3-4=-335/543 **BOT CHORD** 

2-4=-483/524 **WEBS** 

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 7-10-0, Exterior(2) 7-10-0 to 12-2-13, Interior(1) 12-2-13 to 15-6-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.31

Matrix-S

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 3.



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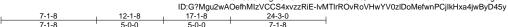
Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
	04			١.	E16466249
J0622-2999	G1	Common	3	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:25 2021 Page 1

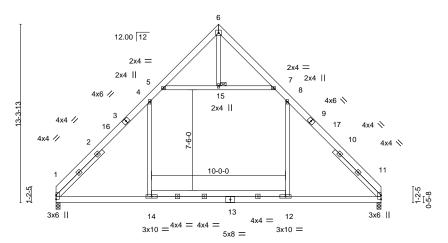
Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Brace at Jt(s): 15



Scale = 1:80.9 5x5 =



7-1	17-1-8		24-3	-0				
7-1	-8 '		10-0-0		7-1	-8		

**BRACING-**

JOINTS

TOP CHORD

BOT CHORD

LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.14	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.16	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	014	Matrix	x-S	Wind(LL)	0.19	1-14	>999	240	Weight: 217 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WFBS

SLIDER Left 2x4 SP No.2 4-10-11, Right 2x4 SP No.2 4-10-11

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=-306(LC 10) Max Uplift 1=-35(LC 13), 11=-35(LC 12) Max Grav 1=1110(LC 20), 11=1110(LC 19)

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

TOP CHORD  $1\text{-}4\text{=-}1451/251,\ 4\text{-}5\text{=-}805/321,\ 7\text{-}8\text{=-}805/320,\ 8\text{-}11\text{=-}1453/251}$ 

**BOT CHORD** 1-14=-7/913. 12-14=-12/914. 11-12=-7/912

WEBS 4-14=-25/552, 8-12=-26/554, 5-15=-863/391, 7-15=-863/391

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 12-1-8, Exterior(2) 12-1-8 to 16-6-7, Interior(1) 16-6-7 to 24-3-0 zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 11.



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Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	G1-GR	COMMON GIRDER	1		E16466250
				3	Job Reference (optional)

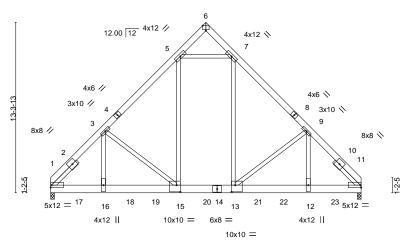
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:26 2021 Page 1 :G?Mgu2wAOefhMlzVCCS4xvzzRiE-D5wryBR0gkwLu47iagGSLZAeVBm7SfBQAEpHSeyD45x

		ID.O: Niguz	WACCIIIIVIIZVOO	O-XVZZINIE-DOWIYE	JI KOGKWEU-7 I I I I
4-1-8	10-1-8	12-1-8 14-1-8	20-1-8	24-3-0	
4-1-8	6-0-0	2-0-0 2-0-0	6-0-0	4-1-8	

4x6 = Scale = 1:84.7

Structural wood sheathing directly applied or 4-0-8 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



4-1-8 10-1-8 14-1-8 20-1-8 24-3-0
4-1-8 6-0-0 4-0-0 6-0-0 4-1-8

Plate Officets (X X)... 14-Edge 0.2-41 [6:0-3.0 Edge] [11-Edge 0.2-41 [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41] [13:0-3.8 0.6-41 [15:0-3.8 0.6-41] [13:0-3.8 0.6-41] [13:0-3.8 0.6-41] [13:0-3.8 0.6-41 [13:0-3.8 0.6-41] [13

Plate Offsets (X,Y)	- [1:Eage,0-2-4], [6:0-3-0,Eage], [11:Eag	e,0-2-4 <u>]</u> , [13:0-3-8,0-6-4 <u>],</u>	[15:0-3-8,0-6-4]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.09 12-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.18 12-13 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.56	Horz(CT) 0.04 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.02 15-16 >999 240	Weight: 703 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 2-9-4, Right 2x4 SP No.2 2-9-4

**REACTIONS.** (size) 1=0-3-8, 11=0-3-8

Max Horz 1=304(LC 24)

Max Grav 1=11831(LC 2), 11=12016(LC 2)

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

TOP CHORD 1-3=-13875/0, 3-5=-10297/0, 7-9=-10310/0, 9-11=-14178/0

BOT CHORD 1-16=0/9026, 15-16=0/9042, 13-15=0/7348, 12-13=0/9245, 11-12=0/9228

WEBS 7-13=0/6894, 9-13=-2492/0, 9-12=0/4965, 5-15=0/6826, 3-15=-2232/0, 3-16=0/4595,

5-7=-7517/0

### NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
  ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1958 lb down at 2-0-12, 1958 lb down at 4-0-12, 1958 lb down at 4-0-12, 1958 lb down at 10-0-12, 1958 lb down at 12-0-12, 1958 lb down at 12-0-12, 1958 lb down at 14-0-12, 2068 lb down at 16-0-12, 2068 lb down at 18-0-12, and 2068 lb down at 20-0-12, and 2068 lb down at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-6=-60, 6-11=-60, 1-11=-20



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### Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design in the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, cerection and bracing of trusses and truss systems, see

\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000	C4 CD	COMMON GIRDER			E16466250
J0622-2999	G1-GR	COMMON GIRDER	'	3	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:26 2021 Page 2 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-D5wryBR0gkwLu47iagGSLZAeVBm7SfBQAEpHSeyD45x

### LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 13=-1547(B) 12=-1645(B) 15=-1547(B) 16=-1547(B) 17=-1547(B) 18=-1547(B) 19=-1547(B) 20=-1547(B) 21=-1645(B) 22=-1645(B) 23=-1645(B)

Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	G1SG	GABLE		,	E16466251
J0622-2999	G15G	GABLE	'	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:27 2021 Page 1



5x5 = Scale = 1:83.1

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Fasten (2X) T and I braces to narrow edge of web with 10d

(0.131"x3") nails, 6in o.c., with 3in minimum end distance.

2x4 SPF No.2 - 5-16, 4-17

Rigid ceiling directly applied or 10-0-0 oc bracing.

Brace must cover 90% of web length.

1 Brace at Jt(s): 21, 22, 25

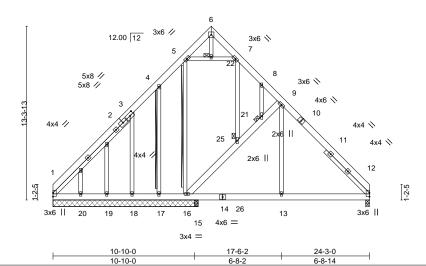


Plate Offsets (X,Y)	[3:0-3-8,0-2-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.02 13-15 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.03 12-13 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.01 12 n/a n/a	
BCDI 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 12-13 >999 240	Weight: 259 lb FT = 20%

**BRACING-**

WFBS

JOINTS

TOP CHORD

**BOT CHORD** 

T-Brace:

LUMBER-TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 \*Except\*

2x4 SP No.2 \*Except\* 9-16: 2x6 SP No.1

OTHERS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 8-5-2, Right 2x4 SP No.2 4-8-11

**REACTIONS.** All bearings 11-1-8 except (jt=length) 12=0-3-8, 15=0-3-8.

(lb) - Max Horz 1=-382(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 17, 20 except 16=-205(LC 13),

18=-446(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 17, 19, 20 except 1=385(LC 21),

 $12{=}663(LC\ 20),\ 16{=}287(LC\ 1),\ 18{=}434(LC\ 19),\ 15{=}352(LC\ 18)$ 

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

TOP CHORD 1-3=-503/279, 3-4=-349/173, 4-5=-269/210, 8-9=-311/176, 9-12=-683/95

BOT CHORD 1-20=-204/371, 19-20=-204/371, 18-19=-204/371, 17-18=-205/372, 16-17=-205/372,

15-16=0/417, 13-15=0/417, 12-13=0/417

WEBS 16-25=-528/327, 21-25=-506/310, 9-21=-552/358, 9-13=0/298, 3-18=-507/461

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 17, 20 except (jt=lb) 16=205, 18=446.
   9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 2,2021





Job Truss Truss Type Qty Ply Lot 10 Mitchell Manor F16466252 J0622-2999 Н1 COMMON Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:28 2021 Page 1 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-9U1bNtTGCMA38NG4h5lwQ\_G4Q?OkweLjdYINWWyD45v Comtech, Inc. Fayetteville, NC - 28314, 0-11-0 10-11-8 10-11-8 Scale = 1:56.7 5x8 | 9.00 12 10 0-11-3 12 6 13 7 5x8 || 5x8 || 4x8 = 3x10 || 10-11-8 10-11-8 10-11-8 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl L/d 20.0 Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 1.15 0.62 -0.14 4-7 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 вс 0.65 Vert(CT) -0.24 4-7 >999 240 WB

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

0.02

2-7

n/a

240

Structural wood sheathing directly applied or 5-6-9 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 135 lb

FT = 20%

n/a

>999

LUMBER-

**BCLL** 

BCDL

TOP CHORD 2x6 SP No.1 2x6 SP No.1 BOT CHORD 2x4 SP No.2 WFBS WEDGE

0.0

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-211(LC 10)

Max Uplift 2=-53(LC 12), 4=-53(LC 13)

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 2=1125(LC 19), 4=1125(LC 20)

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

TOP CHORD 2-3=-1278/229, 3-4=-1278/229 BOT CHORD

2-7=0/940, 4-7=0/940 WEBS 3-7=0/893

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-8-4 zone; 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

0.20

Matrix-S

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 2,2021





Qty Plv Job Truss Truss Type Lot 10 Mitchell Manor E16466253 J0622-2999 H1-GR COMMON GIRDER Comtech, Inc., Fayetteville, NC 28309 10-11-8 16-11-8 4-11-8 4-11-8 6-0-0 6-0-0 4-11-8 Scale = 1:57.5 5x8 || 9.00 12 4x12 // 4x12 💸 Ø 10 11 13 14 15 17 12 16 9 6 8 8x8 = 8x8 = 6x8 4x12 || 4x12 || 10x10 = 10-11-8 4-11-8 Plate Offsets (X,Y)-- [1:Edge,0-4-1], [5:Edge,0-4-1], [8:0-5-0,0-6-4]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL)	-0.08	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.57	Vert(CT)	-0.17	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.56	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	-0.01	8-9	>999	240	Weight: 367 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP 2400F 2.0E 2x4 SP No.2 \*Except\* WEBS 3-8: 2x6 SP No.1

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (lb/size) 1=6475/0-3-8 (min. 0-3-3), 5=5419/0-3-8 (min. 0-2-10)

Max Horz 1=205(LC 5)

Max Grav 1=7649(LC 2), 5=6352(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-10330/0, 2-3=-6810/0, 3-4=-6808/0, 4-5=-9583/0

**BOT CHORD** 1-10=0/7859, 10-11=0/7859, 9-11=0/7859, 9-12=0/7859, 12-13=0/7859, 13-14=0/7859,

8-14=0/7859, 7-8=0/7270, 7-15=0/7270, 15-16=0/7270, 6-16=0/7270, 6-17=0/7270,

**WEBS** 3-8=0/7742, 4-8=-2267/0, 4-6=0/3124, 2-8=-2978/0, 2-9=0/3981

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.

- Webs connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1387 lb down at 2-0-12, 1387 lb down at 4-0-12, 1388 lb down at 5-8-12, 1388 lb down at 7-8-12, 1388 lb down at 9-8-12, 1388 lb down at 11-8-12, 1388 lb down at 13-8-12, and 1388 lb down at 15-8-12, and 1388 lb down at 17-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Structural wood sheathing directly applied or 5-0-8 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

December 2,2021

ameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designs. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss experts.

\*\*Start Property Amage Corp general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
J0622-2999	H1-GR	COMMON GIRDER	_		E16466253
30622-2999	ni-GK	COMMON GIRDER	'	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s Mar 22 2021 MiTek Industries, Inc. Thu Dec 2 14:05:33 2021 Page 2 ID:G?Mgu2wAOefhMlzVCCS4xvzzRiE-ammX6M9ruqkWo2MpLrP8CKOzJB8hHzNKyK8S6oyD?80

LOAD CASE(S) Standard

Uniform Loads (plf)

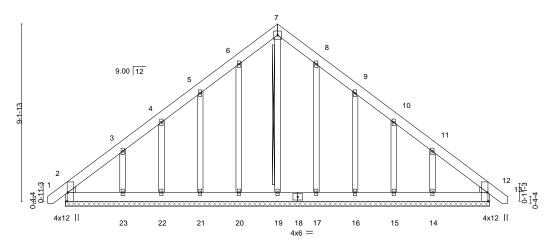
Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1130(B) 10=-1128(B) 11=-1128(B) 12=-1130(B) 13=-1130(B) 14=-1130(B) 15=-1130(B) 16=-1130(B) 17=-1130(B)

Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
					E16466254
J0622-2999	H1GE	COMMON SUPPORTED GAB	1	1	
					Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,		8	.430 s Aug	g 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:29 2021 Page 1
			ID:G?Mgu2w	AOefhMlz\	VCCS4xvzzRiE-dgbzbCUvzflwlXrGFpp9yBoOlOtaf7tssC2x3zyD45u
	-0-11-0	11-10-8		22-	2-10-0 23-9-9
	ó-11-ó	10-11-8		10-	)-11-8

Scale = 1:56.0 5x5 =



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

LOADING	G (psf)	SPACING- 2-0-	0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	5	TC	0.04	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	5	BC	0.03	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr YE	s	WB	0.12	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	.	Matri	x-S						Weight: 188 lb	FT = 20%

22-10-0

LUMBER-

TOP CHORD BOT CHORD 2x6 SP No.1 2x6 SP No.1 2x4 SP No 2

OTHERS WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**

TOP CHORD BOT CHORD WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 7-19

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 21-11-0.

(lb) - Max Horz 2=264(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 22, 17, 15, 12 except 21=-110(LC 12), 23=-180(LC 12),

16=-113(LC 13), 14=-175(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 12 except 23=275(LC 19), 14=268(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-270/203

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; DCDL=6.0psf; gable end zone and C-C Exterior(2) zone; 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 requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 22, 17, 15, 12 except (jt=lb) 21=110, 23=180, 16=113, 14=175.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property demaps. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor
10000 0000		\all_{\int}\all_{\all_{\all_{\all_{\all_{\all_{\all_{\all_{\all_{\all_{\int}\all_{\all}\all_{\all}}\ally}\ally \ally \			E16466255
J0622-2999	V1	VALLEY	1	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 07:26:31 2021 Page 1  $ID:G?Mgu2wAOefhMlzVC\check{C}S4xvzzRiE-a3jk?uV9VHYe?r?fMEsd2cuiGCY771u9JWX17ryD45s$ 

Scale = 1:39.0 4x4 =

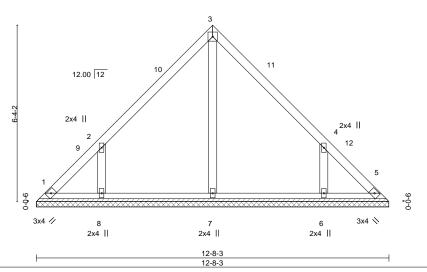


Plate Offsets (X, Y	- [4:0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI. DEF	<b>L.</b> in (lo	oc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14 Vert(	(LL) n/a	- n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09 Vert(	(CT) n/a	- n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.09 Horz	(CT) 0.00	5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 58 lb FT = 20%

LUMBER-

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

OTHERS

2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-8-3.

(lb) - Max Horz 1=144(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-161(LC 12), 6=-161(LC 13)

All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=342(LC 19), 6=342(LC 20)

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

**WEBS** 2-8=-356/291, 4-6=-355/291

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-4-1, Exterior(2) 6-4-1 to 10-8-14, Interior(1) 10-8-14 to 12-3-15 zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=161, 6=161,



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Job		Truss	Truss Type		Qty	Ply	Lot 10 Mitchell I	Manor		E16466256
J0622-2999		V2	VALLEY		1	1	lah Dafasanan	(antional)		£10400230
Comtech, Inc,	Fayettev	rille, NC - 28314,						Industries, In		7:26:32 2021 Page 1
		_	4-10-1	ID:G?Mgu	ı2wAOefh	9-8-3		EWnGagVc? '	arwxNsaqQsictF	PsVWIYAGbgHyD45r
			4-10-1	1		4-10-2		1		
				4x4 =						Scale = 1:31.7
		4-10-2	12.00 12	2			3		9-0-0	
			<u> </u>	4	~~~~	*****	3x4 <b>\</b>		Ó	
		3.*	· · ·	2x4			3,4 (			
		F		9-8-3 9-8-3						
LOADING (psf) TCLL 20.0 TCDL 10.0		SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1	TC 0.22 BC 0.15	DEFL. Vert(LL) Vert(CT	n/a	ı - ı -	I/defl L/d n/a 999 n/a 999		PLATES MT20	<b>GRIP</b> 244/190
BCLL 0.0 * BCDL 10.0		Rep Stress Incr YE Code IRC2015/TPI2014		Horz(CT	0.00	3	n/a n/a		Weight: 39 lb	FT = 20%

LUMBER-

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

**BRACING-**

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-8-3, 3=9-8-3, 4=9-8-3

Max Horz 1=-108(LC 8)

Max Uplift 1=-27(LC 13), 3=-27(LC 13)

Max Grav 1=204(LC 1), 3=204(LC 1), 4=311(LC 1)

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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor	Г	E16466257
J0622-2999	V3	VALLEY	1	1	Joh Deference (antice		E10400237
Comtech, Inc, F	Fayetteville, NC - 28314,	ID:( 3-4-1	?Mgu2wAOet	hMIzVCCS	Job Reference (option g 16 2021 MiTek Indus 64xvzzRiE-2FH6DEWn	nai) tries, Inc.  Thu Dec  2 07:26:; GagVc?arwxNsaqQtqcujsVA	32 2021 Page 1 IYAGbgHyD45r
		3-4-1		6-8-3 3-4-2			
		4x4	=				Scale = 1:22.5
	3.4-1	12.00 12			3	9.0-0	
		4 2x4			3x4 📏		
		6-8- 6-8-			<del></del>		
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0 Plate Grip DOL 1.′ Lumber DOL 1.′	5 TC 0.15 Ver 5 BC 0.07 Ver	(LL) n/s (CT) n/s	a -	l/defl L/d n/a 999 n/a 999	PLATES GR MT20 244	<b>IP</b> /190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YE Code IRC2015/TPI2014		z(CT) 0.00	0 3	n/a n/a	Weight: 26 lb	FT = 20%

LUMBER-

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

**BRACING-**

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

(size) 1=6-8-3, 3=6-8-3, 4=6-8-3 Max Horz 1=-72(LC 8) REACTIONS.

Max Uplift 1=-26(LC 13), 3=-26(LC 13)

Max Grav 1=146(LC 1), 3=146(LC 1), 4=187(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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Job	Truss	Truss Type	Qty	Ply	Lot 10 Mitchell Manor		E40400050
J0622-2999	V4	VALLEY	1	1			E16466258
	" 10 00011			100 1	Job Reference (optional)		
Comtech, Inc, Fayette	eville, NC - 28314,	ID:G?Ma			g 16 2021 MiTek Industries kvzzRiE-WRrUQaXP1uoM		
	<b>⊢</b>	1-10-1 1-10-1		3-8-3 1-10-2			, , , ,
				1-10-2			
		4x4 =					Scale: 1"=1'
	1-10-2	12.00 12			3		
	9-6-6		/////// >>>>>	////// XXXXX		9-0-0 10-0	
			******	******	<u> </u>	-	
		4					
		x4 // 2x4		3x4			
		207 11		0,4	•		
	_	3-8-3					
		3-8-3					
TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE	5 TC 0.03 Vert(LL 5 BC 0.02 Vert(C		a -	l/defl L/d n/a 999 n/a 999 n/a n/a		<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2015/TPI2014		., 0.00	, 3	11/4	Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

(size) 1=3-8-3, 3=3-8-3, 4=3-8-3 Max Horz 1=-36(LC 8) REACTIONS.

Max Uplift 1=-13(LC 13), 3=-13(LC 13)

Max Grav 1=72(LC 1), 3=73(LC 1), 4=93(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 2,2021



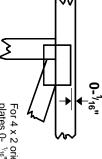


## Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated Apply plates to both sides of truss Dimensions are in ft-in-sixteenths.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss

ω

O

S

required direction of slots in connector plates This symbol indicates the

\* Plate location details available in MiTek 20/20 software or upon request

### **PLATE SIZE**



to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

# LATERAL BRACING LOCATION



output. Use T or I bracing Indicated by symbol shown and/or if indicated. by text in the bracing section of the

### BEARING



number where bearings occur.
Min size shown is for crushing only Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint

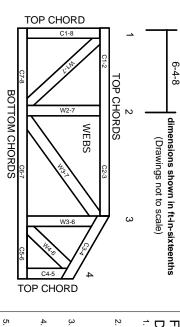
### Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction

DSB-89:

Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling, Building Component Safety Information Design Standard for Bracing.

# **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values established by others. Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# **General Safety Notes**

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.