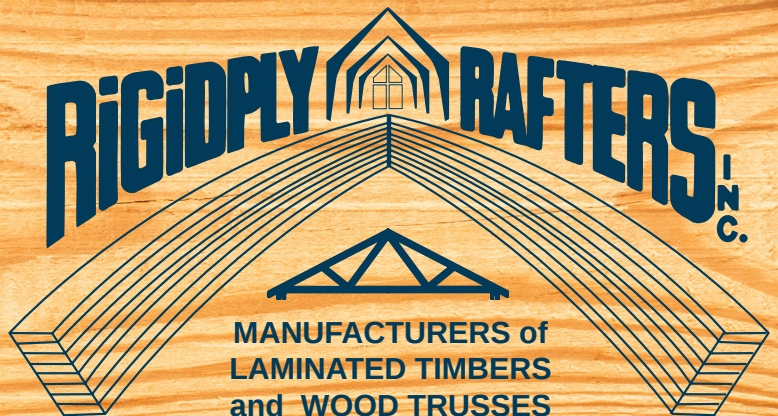


— Another **QUALITY** Product from Rigidply Rafters —

- SINCE 1954 -

# METAL - PLATED WOOD ROOF AND FLOOR TRUSSES





# RESIDENTIAL › POST FRAME › COMMERCIAL › AGRICULTURAL

## Rigidply Manufactures Trusses for Your Job

### WHO WE ARE:

**R**igidply Rafters Inc. is a family owned business that has been in continuous operation since 1954. In 1963, Rigidply Rafters, Inc. began manufacturing engineered, Metal-Plated Wood Trusses for roof and floor applications. Building on Rigidply's reputation for outstanding quality and service, our first crane truck was placed into service in 1964. Trusses could then be lifted directly from our truck to the roof or floor system. Rigidply's unmatched quality, people and service continue today as Rigidply remains the premier truss supplier in the Northeast.



### WHAT WE STAND FOR:

The name Rigidply Rafters Inc. stands for Quality, Service and Integrity. When you order trusses from Rigidply Rafters, Inc., you receive the best quality and most consistent product available. Rigidply is an active member of TPI (Truss Plate Institute) and SBCA (Structural Building Components Association).





# CUTTING EDGE EQUIPMENT

## PRODUCTION LINES INDIVIDUALLY SPECIALIZE IN:



- Wide-Span Trusses
- High Quantity Orders
- Complicated Roof Systems
- Over-Sized Width and/or Length
- Small Quantity Addition / Remodel Orders



EXPERIENCE QUALITY



# WOOD TRUSS FACTS ABOUT RIGIDPLY

## Unequaled Truss Strength:

- » Designed to satisfy a special & unique load case whereby the specified top chord live load is evaluated first, without code reductions
- » One of very few manufacturers who insist on this higher level of load performance
- » Evaluates each piece of truss lumber prior to it being used in a truss

"A 30 psf load at Rigidply means an actual 30 psf design load. It's what makes Rigidply trusses the strongest available!"

## Dry, Quality Lumber:

- » Ensures only the highest quality lumber used in Rigidply trusses
- » Stored under cover to protect appearance & performance

"By using specific Lumber Mills and our own internal specifications, Rigidply's standards for truss lumber are the strictest in the industry."

## Building Code Compliant:

- » Known for our ability to efficiently and accurately meet all current & relevant building requirements in a variety of situations & local conditions
- » Complies with all current state & national building codes

"We work with you & your building official to eliminate the headaches."

## Optimized Truss Design:

- » Utilizes Mitek™ truss plates & design software
- » Provides assistance throughout entire project

"Every structural truss design is shipped with a drawing sealed by a Registered Professional Mitek™ Engineer."

## Unmatched Manufacturing Quality:

- » Utilizes larger than required truss plates to allow safer handling at the job-site
- » Independent 3rd party inspections by the Truss Plate Institute back up Rigidply's quality

"Rigidply's manufacturing experience & quality are unmatched!"









# TRUSS SHAPES & DETAILS

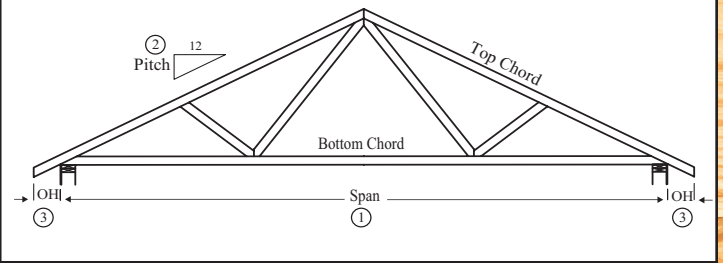
- Span** - The length of the bottom chord.
- Pitch / Roof Slope** - The vertical rise in inches per 12 inch horizontal run.
- Overhang Length** - The horizontal distance from the end of the bottom chord to the bottom edge of the top chord at the end of the overhang.
- Cantilever** - The distance that the bottom chord extends past the bearing.
- The End Cut of Truss** - Specify plumb cut, square cut or custom specifications for the outside ends of the truss.
- Heel Height** - Vertical distance from bottom of bottom chord to top of top chord located at end of bottom chord.
- Overall Height** - Total vertical distance from highest point of top chord (usually the peak) to the bottom edge of the lowest bottom chord (does not include overhang).
- Bearing Width** - Horizontal length of direct contact provided between truss member and structural support.
- Slope of Ceiling** - All or part of the truss bottom chord may be sloped to produce the desired function and appearance.
- Seat Cut** - Length of horizontal or flat part of bottom chord at the ends of a sloped bottom chord.
- Bearing Height Difference** - Vertical dimension between bearing surfaces occurring at two different levels.

**Note:** Numbers shown coincide with the adjacent and following truss shape details.

## WHEN ORDERING TRUSSES, CONSIDER THE FOLLOWING:

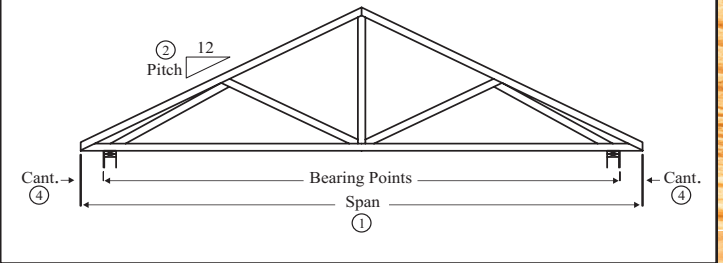
- Quantity** - The number of trusses can be easily determined as they are often spaced 24" or 48" on center (O.C.)
- Design Loads** - Top Chord Live and Dead Loads, Bottom Chord Live and Dead Loads, Wind Loads, and any other loads the truss may experience.
- Gable Ends** - Structural or non-structural, girts or nailers, plywood or OSB sheathing, window openings, dropped top chord, and any other design considerations.
- Type of Truss** - Specify the type of truss required: scissor, attic, parallel chords, floor, etc.
- Special Trusses** - Specify all dimensions, Cantilever conditions, Heel Height requirement, etc.

## Regular Truss



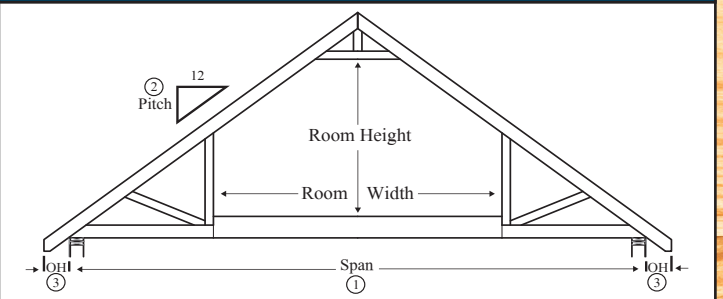
- Span
- Slope / Pitch
- Overhang

## Cantilever Truss



- Truss Length (Bottom Chord Length)
- Slope / Pitch
- Cantilever

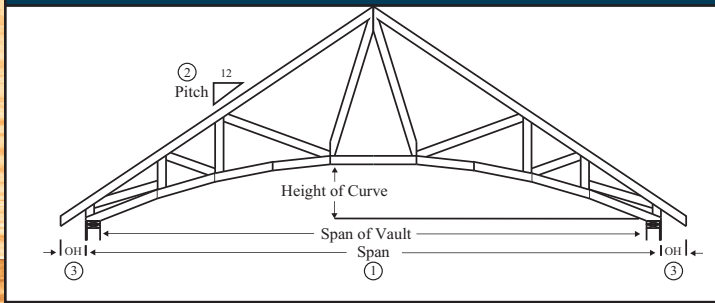
## Attic Truss



- Span
- Slope / Pitch
- Overhang

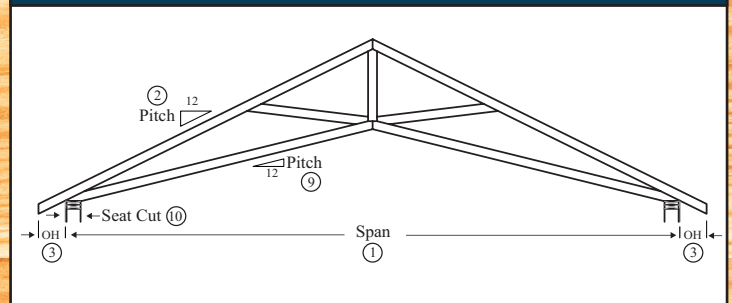


## Curved Bottom Chord Truss



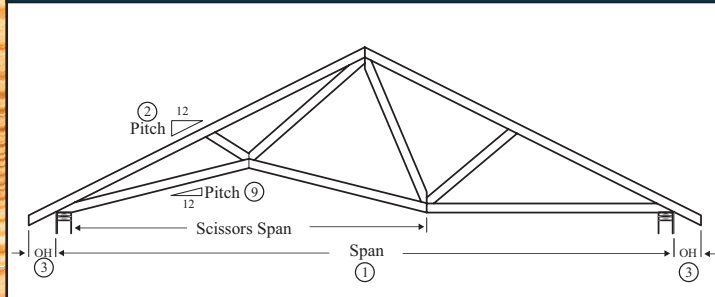
- 1. Span
  - 2. Top Chord Slope / Pitch
  - 3. Overhang
- Vault Span - Distance between bearing points.**

## Scissors Truss



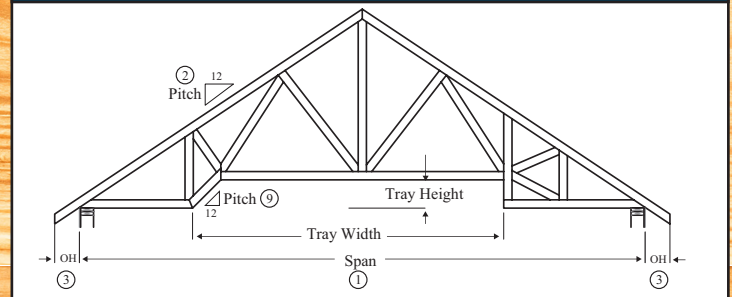
- 1. Span
  - 2. Slope / Pitch
  - 3. Overhang
  - 9. Slope of Ceiling
- 10. Seat Cut**

## Partial Scissors Truss



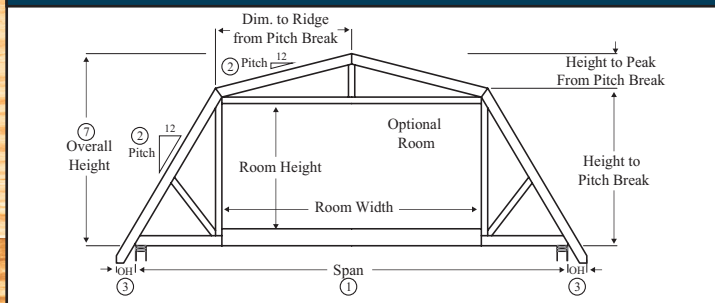
- 1. Span
  - 2. Top Chord Slope / Pitch
  - 3. Overhang
  - 9. Slope of ceiling
- Scissors Span - inside dimension of vaulted area**

## Tray Truss



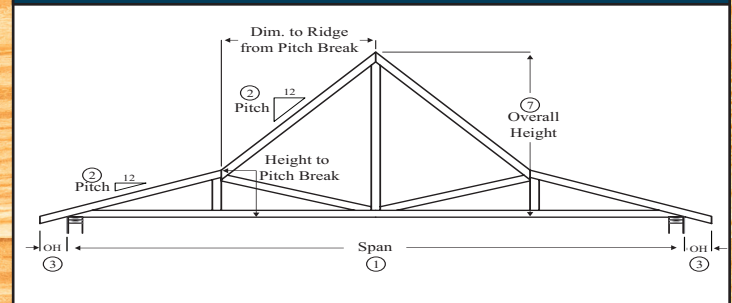
- 1. Span
  - 2. Top Chord Slope / Pitch
  - 3. Overhang
  - 9. Slope of Ceiling
- Tray width, height, side slope**

## Gambrel Attic Truss



- 1. Span
  - 2. Side and Top Slope / Pitch
  - 3. Overhang
- 7. Overall Height**  
**Gambrel Dimensions - location of pitch breaks**

## Polynesian Truss



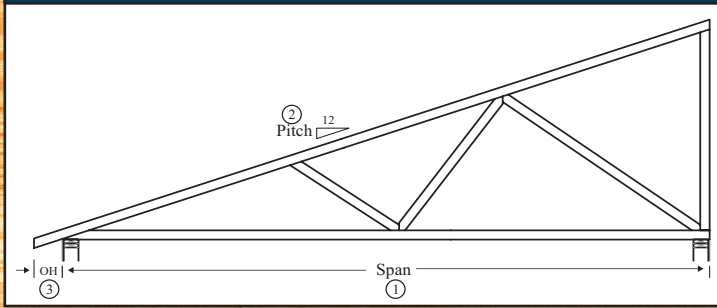
- 1. Span
  - 2. Side and Top Slope / Pitch
  - 3. Overhang
- 7. Overall Height**  
**Polynesian Dimensions - location of pitch breaks**

*Note: Numbers shown coincide with definitions on Page 5.*



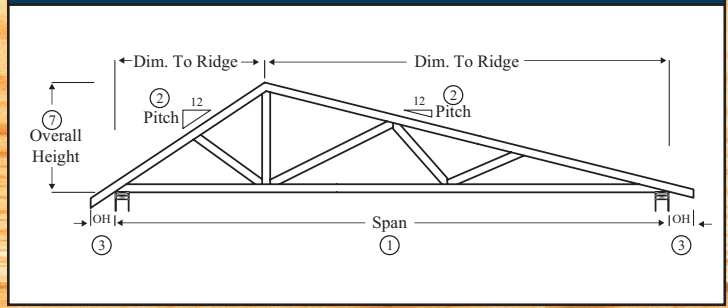
# TRUSS SHAPES AND DETAILS

## Monopitch Truss



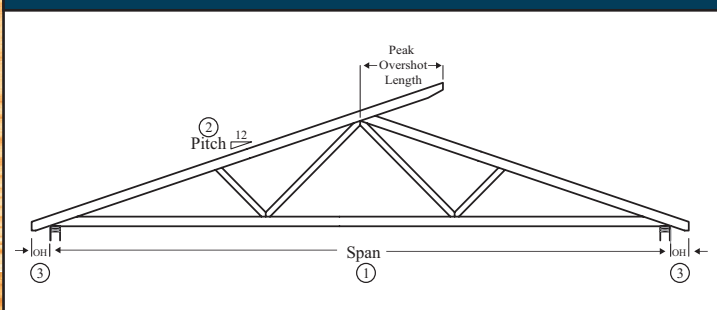
1. Span
2. Slope / Pitch
3. Overhang

## Dual Pitch Truss



1. Span
2. Slope / Front and Rear Pitch
3. Overhang
7. Overall Height

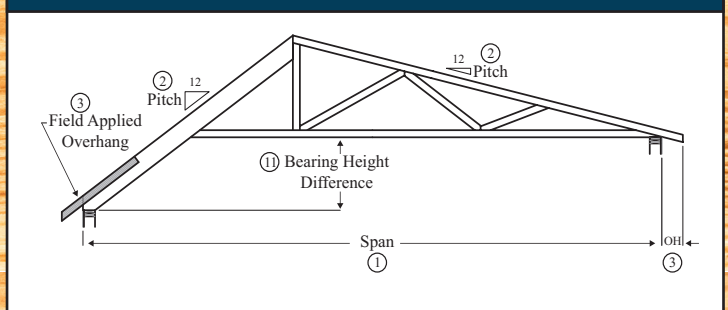
## Peak Overshot Truss



1. Span
2. Slope / Pitch
3. Overhang

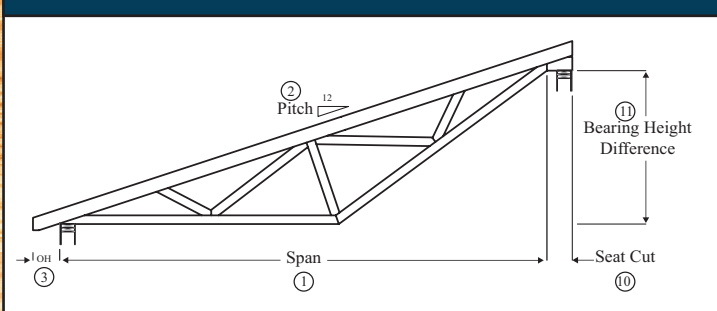
**Peak Overshoot Length** - horizontal dimensions

## Tail Bearing Truss



1. Span
2. Slope / Front and Rear Pitch
3. Overhang
11. Bearing Height Difference

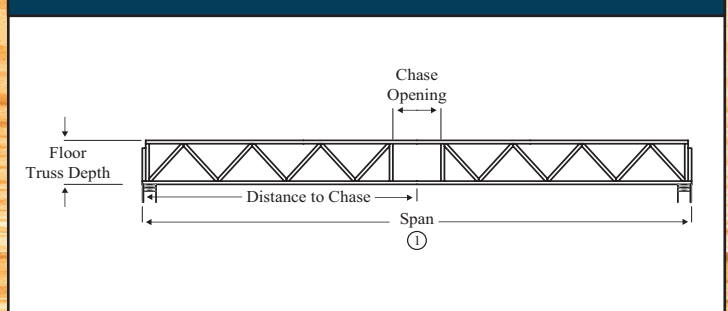
## Inverted Truss



1. Span
2. Slope / Pitch
3. Overhang
10. Seat Cut Length

11. Bearing Height difference

## Floor Truss

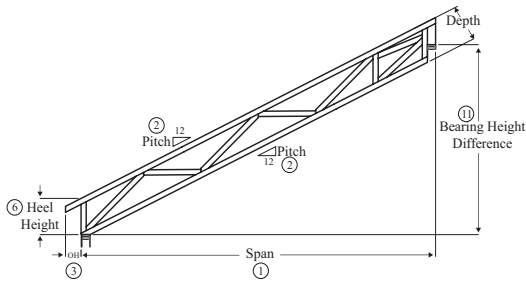


1. Span

*Note: Numbers shown coincide with definitions on Page 5.*

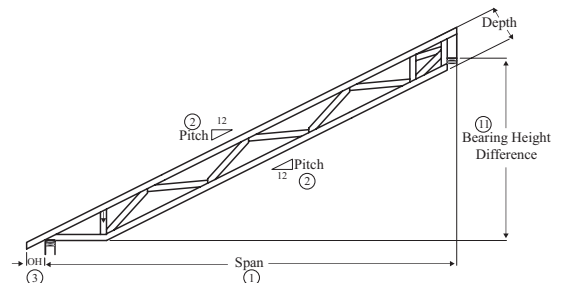


## Parallel Chord Truss w/ Raised Heel



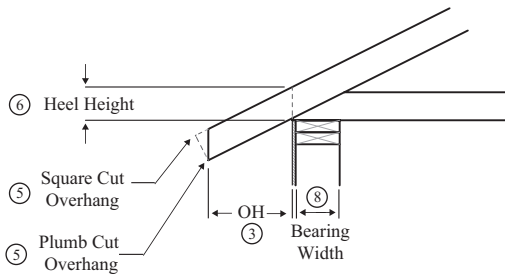
1. Span
2. Slope / Top and Bottom Chord Pitch
3. Overhang
6. Heel Height
11. Bearing Height Difference

## Parallel Chord Truss w/ Standard Heel



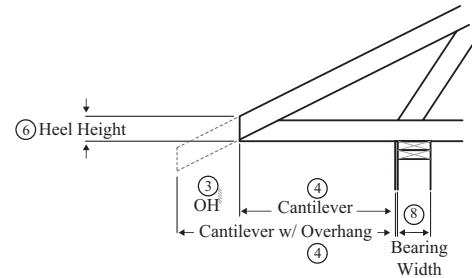
1. Span
2. Slope / Top and Bottom Chord Pitch
3. Overhang
11. Bearing Height Difference

## Overhang Detail



3. Overhang
5. The End Cut of Truss - either Square Cut or Plumb Cut
6. Heel Height
8. Bearing Width

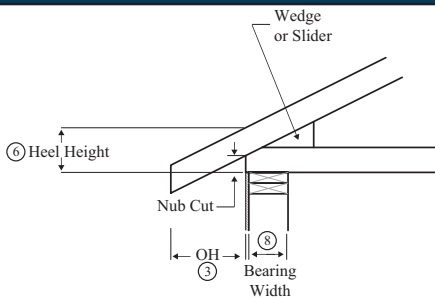
## Overhang Detail



3. Overhang
4. Cantilever
6. Heel Height
8. Bearing Width

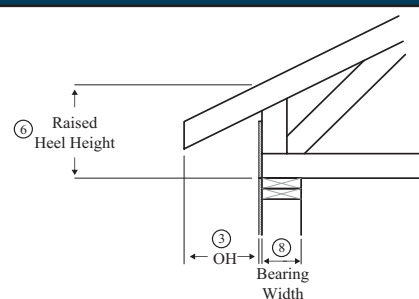
**Cantilever w/ Overhang -**  
Overall horizontal cantilever and overhang distances

## Overhang Detail



3. Overhang
  6. Heel Height
  8. Bearing Width
- Nub Cut -** Depth at heel from top chord / bottom chord intersect to top of bearing

## Heel Detail

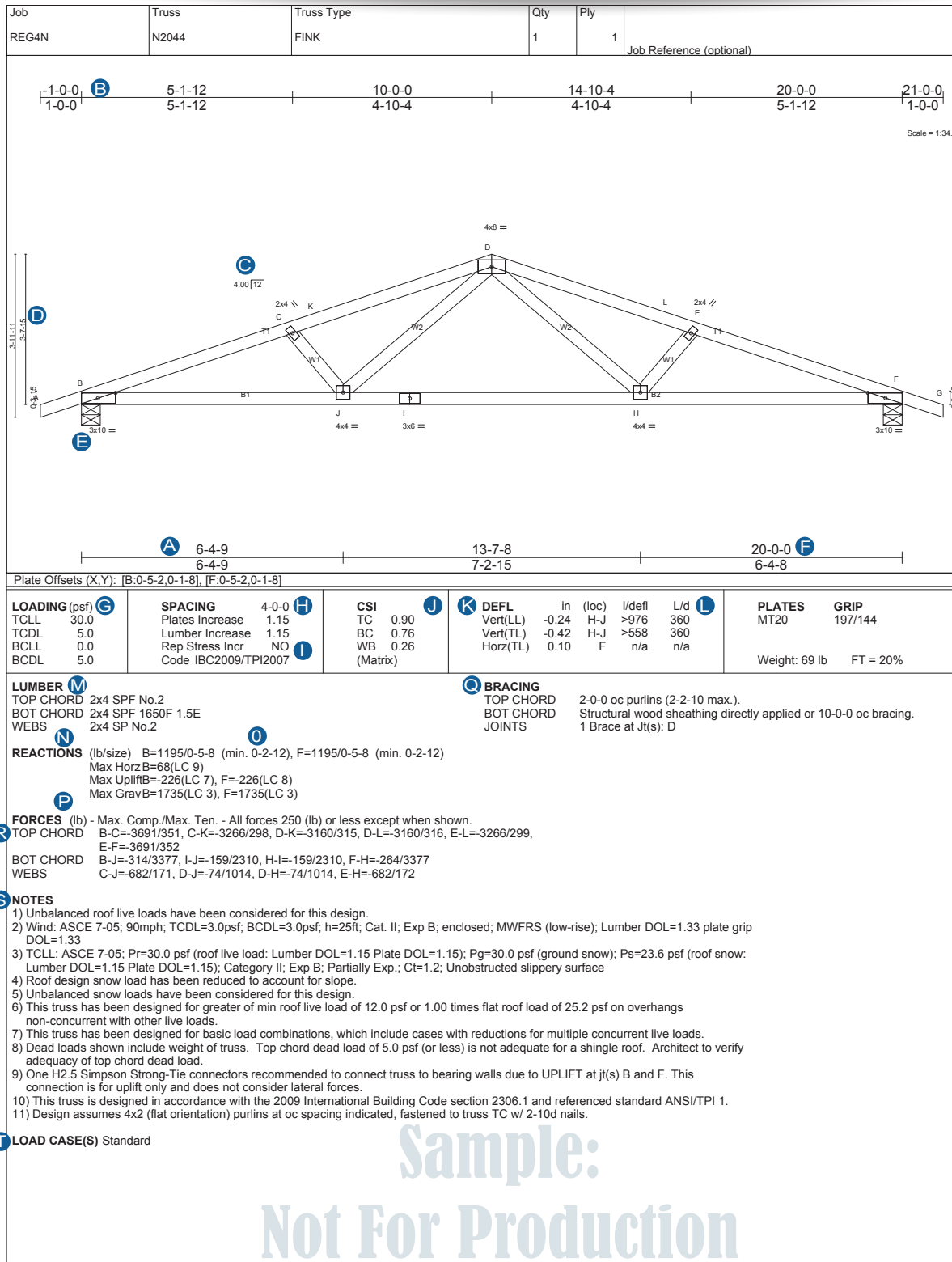


3. Overhang
6. Heel Height
8. Bearing Width

*Note: Numbers shown coincide with definitions on Page 5.*



# ROOF TRUSS DESIGN



Sample:  
Not For Production



- A.** Cumulative Dimensions
- B.** Panel Length (feet-inches-sixteenths)
- C.** Slope
- D.** Overall Height
- E.** Bearing Location
- E.** Truss Span (feet-inches-sixteenths)
- G.** Design Loading (PSF)
- H.** Spacing O.C. (Feet-inches-sixteenths)
- I.** Duration of Load for Plate and Lumber Design
- J.** Top Chord, Bottom Chord and Web Maximum Combined Stress Indices
- K.** Deflections (inches) and Span to Deflection Ratio
- L.** Allowable Deflection Ratio
- M.** Lumber Requirements
- N.** Reactions (pounds)
- O.** Minimum Bearing Required (Feet-inches-sixteenths)
- P.** Maximum Uplift and/or Horizontal Reaction if Applicable
- Q.** Required Member Bracing Only
- R.** Maximum Axial Forces; Compression/Tension
- S.** Notes
- T.** Additional Loads/Load Cases









- A.** Cumulative Dimensions
- B.** Panel Length (feet-inches-sixteenths)
- C.** Truss Depth
- D.** Bearing Location
- E.** Truss Span (feet-inches-sixteenths)
- F.** Design Loading (psf)
- G.** Spacing O.C. (feet-inches-sixteenths)
- H.** Duration of Load for Plate and Lumber Design
- I.** Top Chord, Bottom Chord and Web Maximum Combined Stress Indices
- J.** Deflections (inches) and Span to Deflection Ratio
- K.** Allowable Deflection Ratio
- L.** Lumber Requirements
- M.** Reaction (pounds)
- N.** Minimum Bearing Required (feet-inches-sixteenths)
- O.** Required Member Bracing
- P.** Maximum Axial Forces; Compression/Tension
- Q.** Notes
- R.** Additional Loads/Load Cases
- S.** Top Chord and Mid Chord Bearing Available
- T.** Chase Openings Available





# CRANE SERVICE

**R**igidply provides timely truss placement service with our delivery and uses industry-best equipment and operators to minimize the potential for job-site damage and other mistakes. We make sure your trusses are lifted from the truck to your structure to save time and money, and to protect the trusses from being damaged.





# AVAILABILITY, FEATURES & OPTIONS



- » **Standard Shapes and Designs**
- » **Custom Shapes**
- » **Strict Deflection Criteria - Minimizes Sag and "Bounce" Under Load**
- » **Special Load Cases for Unique Situations - Point Loads, Commercial Floor Loads, Storage Loads, etc.**
- » **Valley Sets**
- » **Valley Gables - Promote Safety During Construction**
- » **Sheeted Gables - Structural or Non-Structural - OSB, Plywood, Zip Sheathing, etc.**

## WHY RIGIDPLY?



At Rigidply, we recognize that people are the most important asset we offer the marketplace. Many of our personnel have been with Rigidply over 20 years, with some being with us over 40 years. This level of experience, expertise and commitment has allowed Rigidply to forge some of the strongest customer relationships in the industry, spanning 30 years or more. These customer relationships are critical to our continued success. It is our customers that have allowed Rigidply to become The Standard in the Wood Truss Industry. Rigidply's commitment is to offer unequalled people, products, quality and service.



# RIGIDPLY RAFTERS INC.

## Plant Locations



### RIGIDPLY RAFTERS INC.

701 E. Linden Street  
Richland, PA 17087  
Phone: 717.866.6581  
Fax: 717.866.7237

[WWW.RIGIDPLY.COM](http://WWW.RIGIDPLY.COM)



### RIGIDPLY RAFTERS INC. OF MD

1283 Joni Miller Road  
Oakland, MD 21550  
Phone: 301.334.3977  
Fax: 301.334.9289

## ADDITIONAL RIGIDPLY PRODUCTS

- » GluLam Posts & Beams
- » GluLam Arches & Trusses
- » 2x Southern Yellow Pine T&G with optional V-Groove - milled at Rigidply
- » SYP & SPF Dimensional Lumber - all widths and lengths
- » SYP Treated Lumber - in-ground and structural products
- » White Pine Barn Siding - large inventory
- » OSB & Plywood Panel Products
- » Metal Roofing and Siding - All Three Leading National Brands - Fabral, McElroy, Everlast - with all matching accessories and trims
- » Everything Post Frame - Plyco Windows, Doors, Ridge Vents, Long-Life Screws, Dutch Doors, Equine Stalls, and more
- » Hardware for Structural and Architectural Connections

