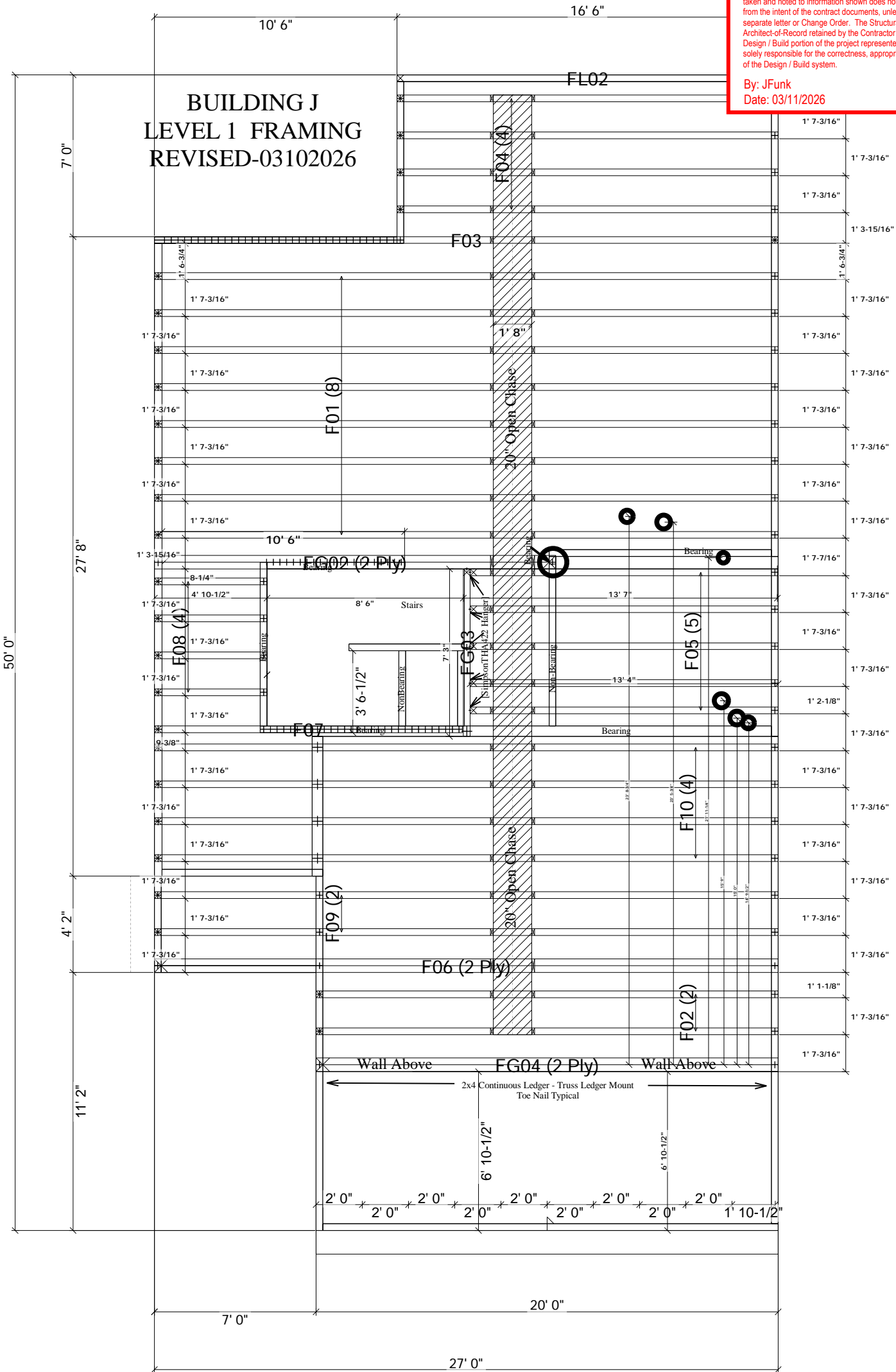


**RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 03/16/2026 2:13:34**

- Reviewed
- Reviewed as Noted
- Not required by the Contract Documents
- For Record Only
- Revise and Resubmit
- Rejected

Review is only for general conformance with the design concept and the intent of the Contract Documents. Contractor is solely responsible for verifying dimensions, for establishing fabrication processes, means, techniques, sequences and procedures of construction and for coordination of work of all trades. Review action taken and noted to information shown does not authorize deviations from the intent of the contract documents, unless so stated in a separate letter or Change Order. The Structural Engineer and/or Architect-of-Record retained by the Contractor or his Supplier, for the Design / Build portion of the project represented by this submittal, is solely responsible for the correctness, appropriateness and adequacy of the Design / Build system.

By: JFunk
 Date: 03/11/2026



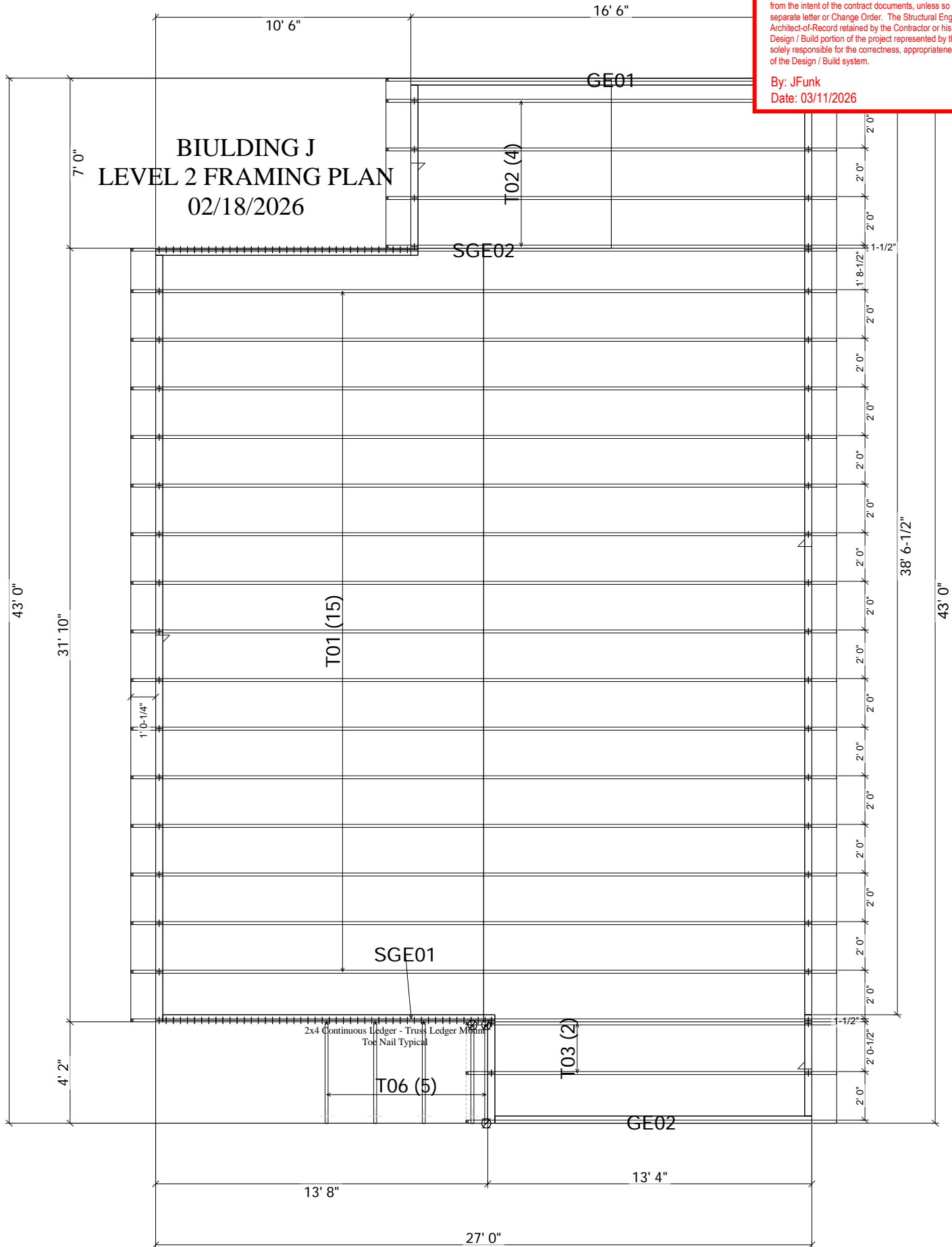
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/16/2026 2:13:39

STAND STRUCTURAL ENGINEERING
8234 Robinson St
Overland Park, KS 66204
(913) 214-2169

- Reviewed
- Reviewed as Noted
- Not required by the Contract Documents
- For Record Only
- Revise and Resubmit
- Rejected

Review is only for general conformance with the design concept and the intent of the Contract Documents. Contractor is solely responsible for verifying dimensions, for establishing fabrication processes, means, techniques, sequences and procedures of construction and for coordination of work of all trades. Review action taken and noted to information shown does not authorize deviations from the intent of the contract documents, unless so stated in a separate letter or Change Order. The Structural Engineer and/or Architect-of-Record retained by the Contractor or his Supplier, for the Design / Build portion of the project represented by this submittal, is solely responsible for the correctness, appropriateness and adequacy of the Design / Build system.

By: JFunk
Date: 03/11/2026



**RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/16/2026 2:13:43**

The truss designs referenced below have been prepared by me or under my direct supervision based on the truss design criteria and requirements ("design criteria") provided by **Quality Line Truss**.

These truss designs are intended for the fabrication of individual building components that will perform to the design criteria provided. Any variance from the design criteria will render the affected truss designs inapplicable.

Listed below are the truss designs included in this package and covered by this seal.

Job: QU03648_RESERVE BUILDING J_REVISD_02042026 - 1260641
F05

Any location identification is for file reference only. No determination of the appropriateness of design criteria for any specific project has been made in preparing the truss designs.

Please refer to individual truss designs for specific design criteria.



STAND STRUCTURAL ENGINEERING
8234 Robinson St
Overland Park, KS 66204
(913) 214-2169

Reviewed Revise and Resubmit
 Reviewed as Noted Rejected
 Not required by the Contract Documents
 For Record Only

Review is only for general conformance with the design concept and the intent of the Contract Documents. Contractor is solely responsible for verifying dimensions, for establishing fabrication processes, means, techniques, sequences and procedures of construction and for coordination of work of all trades. Review action taken and noted to information shown does not authorize deviations from the intent of the contract documents, unless so stated in a separate letter or Change Order. The Structural Engineer and/or Architect-of-Record retained by the Contractor or his Supplier, for the Design / Build portion of the project represented by this submittal, is solely responsible for the correctness, appropriateness and adequacy of the Design / Build system.

By: JFunk
Date: 03/11/2026

Arturo A. Hernandez (MO, 2006000095)
My license expiration date for the state of MO is 12/31/2026.

IMPORTANT NOTE: The responsibility of the engineer sealing this package, as a Truss Engineer, is solely for design of individual trusses as individual building components based upon design criteria provided by others and set forth in the referenced truss drawings. The truss design criteria for the components have not been verified as appropriate for any particular building, project or use. Adequacy and suitability of design criteria and requirements for the truss designs for any specific project are the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

DESIGN NOTES

1. The Truss Design Drawing(s) provided with these Design Notes have been prepared under and are subject to ANSI / TPI 1 published by the Truss Plate Institute, www.tpinst.org. Capitalized terms have the meanings provided in ANSI / TPI 1.
2. Copies of each Truss Design Drawing shall be furnished to the installation contractor, Building Designer, Owner and all persons fabricating, handling, installing, bracing, or erecting the trusses.
- DESIGN LIMITATIONS**
3. The Truss Design Drawing is based upon specifications provided by the Building Designer in accordance with ANSI / TPI 1. Neither the Truss Designer, Eagle, nor an engineer who seals this design (if any) assumes any responsibility for the adequacy or accuracy of specifications provided by the Building Designer.
4. The Building Designer is solely responsible for the suitability based upon the Truss Design Drawing and shall be responsible for reviewing and verifying that the information shown is in general conformance with the design of the Building.
5. Each Truss Design Drawing is for the individual building component (a truss). A seal on the Truss Design Drawing indicates acceptance of professional engineering responsibility solely for the individual truss.
6. Each Truss Design Drawing assumes trusses will be suitably protected from the environment.

HANDLING, INSTALLING, & BRACING

7. Refer to Building Component Safety Information (BCSI) for handling, installing, restraining and bracing trusses. Copies can be obtained from the Structural Building Components Association, www.sbcindustry.com.
8. Bracing shown on each Truss Design Drawing is for lateral support of individual truss components only to reduce buckling lengths. All temporary and permanent bracing, including lateral load and diagonal or cross bracing, are the responsibility, respectively, of the erector and Building Designer.
9. Eagle is not responsible for improper truss fabrication, handling, erection or bracing.
10. Compression chords shall be laterally braced by the roof or floor sheathing, directly attached, or have purlins provided at spacing shown, unless noted otherwise.

11. Bottom chord required bracing shall be at 10ft spacing or less, if no structural rated ceiling is installed, unless noted otherwise.
12. Strongbacking shall be installed on all parallel chord trusses, including flooring systems, to limit deflection and reduce vibration. Refer to BCSI-B7.
13. Never exceed the design loading shown. Never stack building or other materials on inadequately braced truss; refer to BCSI.
14. Concentration of construction loads greater than the design loads shall not be applied to the trusses at any time; refer to BCSI.
15. Trusses shall be handled with care prior to erection to avoid damage. Refer to BCSI for recommended truss handling and erection.

MATERIALS & FABRICATION

16. Lumber moisture content shall be 19% or less at the time of fabrication unless noted otherwise.
17. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
18. Unless expressly noted, the truss designs are not applicable for use with fire retardant or preservative treated lumber.
19. Plates shall be applied on both faces of truss at each joint and embedded fully. Knots and wane at joint locations shall be regulated in accordance with ANSI / TPI 1.

20. For a specified plate gauge and grade, the specified size is a minimum.
21. Connections not shown are the responsibility of others.
22. Adequate support shall be provided to resist gravity, lateral and uplift loads.
23. For 4X2 truss orientation, locate plates 0 - 1/16" from outside the edge of the truss.

OTHER NOTES

25. Camber is a non-structural consideration and is the responsibility of truss fabricator.
26. Do not cut or alter any truss member or plate without prior approval from a professional engineer.
27. Lumber design values are in accordance with ANSI / TPI 1; lumber design values are by others.
28. Install specified hangers per manufacturer recommendations.

SYMBOLS

PLATE SIZE

- 3X4** - The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.
- , /, |** Indicates required direction of slots; Reference "Joint Details" for more information.

- 20 Ga Gr40 connectors required
3X10-20HS - 20 Ga Gr60 connectors required
8X10-18HS - 18 Ga Gr60 connectors required

LATERAL BRACING

When this symbol shown, continuous lateral bracing is required on the member of the truss.



BEARING

Indicates location where bearings (supports) occur.



PLATE LOCATION & ORIENTATION

The plate shall be centered on joint and/or placed in accordance with the design drawing/QC full scale details.



REFERENCES

- **ANSI / TPI 1:** National Design Standard for Metal Plate Connected Wood Trusses
- **BCSI:** Building Component & Safety Information - Guide to Good Practice for Handling, Installing, Restraining, & Bracing of Metal Plate Connected Wood Trusses.
- **NDS:** National Design Specification for Wood Construction
- **ESR:** 1082 published by the International Code Council. www.icc-es.org

Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:F05

Job: QU03648_RESERVE BUILDING J. RE

Date: 03/11/26 07:25:37

Page: 1 of 1

SPAN
13-4-0

PITCH
0/12

QTY
5

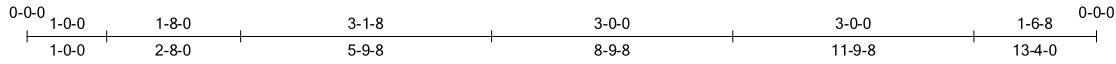
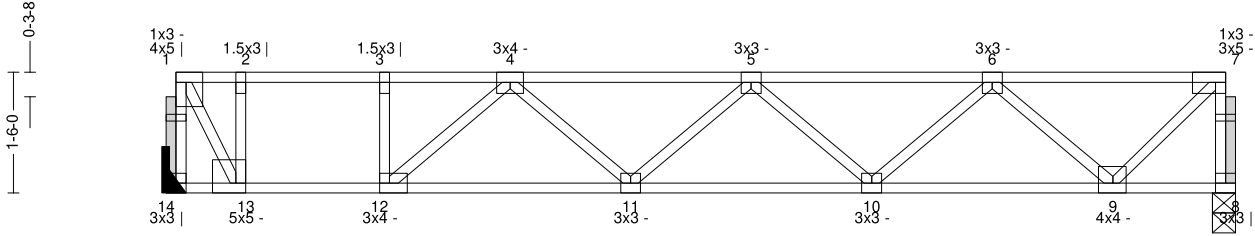
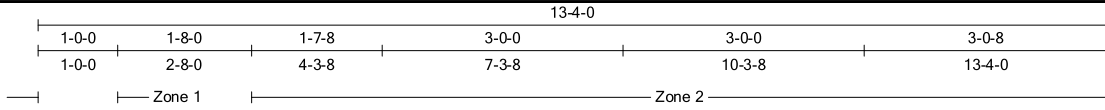
OHL
0-0-0

OHR
0-0-0

PLY(S)
1

SPACING
19.19 in

WGT/PLY
70 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.64 (2-3)	Vert TL: 0.39 in	L/395	(11-12)	L/240
TCDL: 10	TPI 1-2014	BC: 0.77 (12-13)	Vert LL: 0.21 in	L/718	(11-12)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.28 (1-13)	Horz TL: 0.02 in		8	
BCDL: 10	Lumber D.O.L.: 100 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
14	1	3.5 in	---	746 lbs					
8	1	3.5 in	1.50 in	746 lbs					

Material

TC: SYP2400/1.8 4 x 2
BC: SYP2400/1.8 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.630	(800 lbs)	3-4	0.511	(800 lbs)	5-6	0.186	(-1,528 lbs)
	2-3	0.636	(800 lbs)	4-5	0.211	(-1,731 lbs)	6-7	0.179	(-627 lbs)
BC	9-10	0.153	1,225 lbs	11-12	0.555	1,501 lbs			
	10-11	0.317	1,752 lbs	12-13	0.774	800 lbs			
Web	1-14	0.116	(-1,090 lbs)	3-12	0.062	376 lbs	5-10	0.039	(-304 lbs)
	1-13	0.277	1,672 lbs	4-12	0.113	(-933 lbs)	6-10	0.068	411 lbs
	2-13	0.088	(-823 lbs)	4-11	0.052	313 lbs	6-9	0.099	(-812 lbs)
							7-9	0.148	893 lbs
							7-8	0.078	(-733 lbs)

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) Hanger is for graphical interpretation only. Install hanger per manufacturer's recommendation.
- 5) A creep factor of 2.00 has been applied for this truss analysis.
- 6) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 7) Indicates non-structural members.



WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

TrueBuild® Truss Software v5.9.7
Eagle Metal Products

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/16/2026 2:13:45

The truss designs referenced below have been prepared by me or under my direct supervision based on the truss design criteria and requirements ("design criteria") provided by Quality Line Truss.

These truss designs are intended for the fabrication of individual building components that will perform to the design criteria provided. Any variance from the design criteria will render the affected truss designs inapplicable.

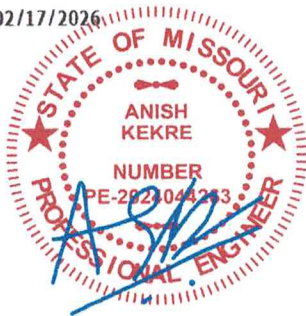
Listed below are the truss designs included in this package and covered by this seal.

Job: QU03648_RESERVE BUILDING J_REVISIED_02042026 - 1258287
F01, F02, F03, F04, F05, F06, F07, F08, F09, F10, FG02, FG03, FG04, FL02, GE01, GE02, GE03, SGE01, SGE02, T01, T02, T03, T04, T06

Any location identification is for file reference only. No determination of the appropriateness of design criteria for any specific project has been made in preparing the truss designs.

Please refer to individual truss designs for specific design criteria.

02/17/2026



Anish Kekre (MO, 2024044263)

My license expiration date for the state of MO is 12/31/2026.

IMPORTANT NOTE: The responsibility of the engineer sealing this package, as a Truss Engineer, is solely for design of individual trusses as individual building components based upon design criteria provided by others and set forth in the referenced truss drawings. The truss design criteria for the components have not been verified as appropriate for any particular building, project or use. Adequacy and suitability of design criteria and requirements for the truss designs for any specific project are the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

DESIGN NOTES

1. The Truss Design Drawing(s) provided with these Design Notes have been prepared under and are subject to ANSI / TPI 1 published by the Truss Plate Institute, www.tpinst.org. Capitalized terms have the meanings provided in ANSI / TPI 1.
2. Copies of each Truss Design Drawing shall be furnished to the installation contractor, Building Designer, Owner and all persons fabricating, handling, installing, bracing, or erecting the trusses.
- DESIGN LIMITATIONS**
3. The Truss Design Drawing is based upon specifications provided by the Building Designer in accordance with ANSI / TPI 1. Neither the Truss Designer, Eagle, nor an engineer who seals this design (if any) assumes any responsibility for the adequacy or accuracy of specifications provided by the Building Designer.
4. The Building Designer is solely responsible for the suitability based upon the Truss Design Drawing and shall be responsible for reviewing and verifying that the information shown is in general conformance with the design of the Building.
5. Each Truss Design Drawing is for the individual building component (a truss). A seal on the Truss Design Drawing indicates acceptance of professional engineering responsibility solely for the individual truss.
6. Each Truss Design Drawing assumes trusses will be suitably protected from the environment.

HANDLING, INSTALLING, & BRACING

7. Refer to Building Component Safety Information (BCSI) for handling, installing, restraining and bracing trusses. Copies can be obtained from the Structural Building Components Association, www.sbcindustry.com.
8. Bracing shown on each Truss Design Drawing is for lateral support of individual truss components only to reduce buckling lengths. All temporary and permanent bracing, including lateral load and diagonal or cross bracing, are the responsibility, respectively, of the erector and Building Designer.
9. Eagle is not responsible for improper truss fabrication, handling, erection or bracing.
10. Compression chords shall be laterally braced by the roof or floor sheathing, directly attached, or have purlins provided at spacing shown, unless noted otherwise.

11. Bottom chord required bracing shall be at 10ft spacing or less, if no structural rated ceiling is installed, unless noted otherwise.
12. Strongbacking shall be installed on all parallel chord trusses, including flooring systems, to limit deflection and reduce vibration. Refer to BCSI-B7.
13. Never exceed the design loading shown. Never stack building or other materials on inadequately braced truss; refer to BCSI.
14. Concentration of construction loads greater than the design loads shall not be applied to the trusses at any time; refer to BCSI.
15. Trusses shall be handled with care prior to erection to avoid damage. Refer to BCSI for recommended truss handling and erection.

MATERIALS & FABRICATION

16. Lumber moisture content shall be 19% or less at the time of fabrication unless noted otherwise.
17. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
18. Unless expressly noted, the truss designs are not applicable for use with fire retardant or preservative treated lumber.
19. Plates shall be applied on both faces of truss at each joint and embedded fully. Knots and wane at joint locations shall be regulated in accordance with ANSI / TPI 1.

20. For a specified plate gauge and grade, the specified size is a minimum.
21. Connections not shown are the responsibility of others.
22. Adequate support shall be provided to resist gravity, lateral and uplift loads.
23. For 4X2 truss orientation, locate plates 0 - 1/16" from outside the edge of the truss.

Fabrication of truss shall be in accordance with ANSI / TPI 1.

OTHER NOTES

25. Camber is a non-structural consideration and is the responsibility of truss fabricator.
26. Do not cut or alter any truss member or plate without prior approval from a professional engineer.
27. Lumber design values are in accordance with ANSI / TPI 1; lumber design values are by others.
28. Install specified hangers per manufacturer recommendations.

SYMBOLS

PLATE SIZE

3X4 - The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

7, 1, Indicates required direction of slots; Reference "Joint Details" for more information.

20 Ga Gr40 connectors required

3X10-20HS - 20 Ga Gr60 connectors required

8X10-18HS - 18 Ga Gr60 connectors required

LATERAL BRACING

When this symbol shown, continuous lateral bracing is required on the member of the truss.



BEARING

Indicates location where bearings (supports) occur.



PLATE LOCATION & ORIENTATION

The plate shall be centered on joint and/or placed in accordance with the design drawing/QC full scale details.



REFERENCES

- ANSI / TPI 1: National Design Standard for Metal Plate Connected Wood Trusses
- BCSI: Building Component & Safety Information - Guide to Good Practice for Handling, Installing, Restraining, & Bracing of Metal Plate Connected Wood Trusses.
- NDS: National Design Specification for Wood Construction
- ESR: 1082 published by the International Code Council. www.iccs.org

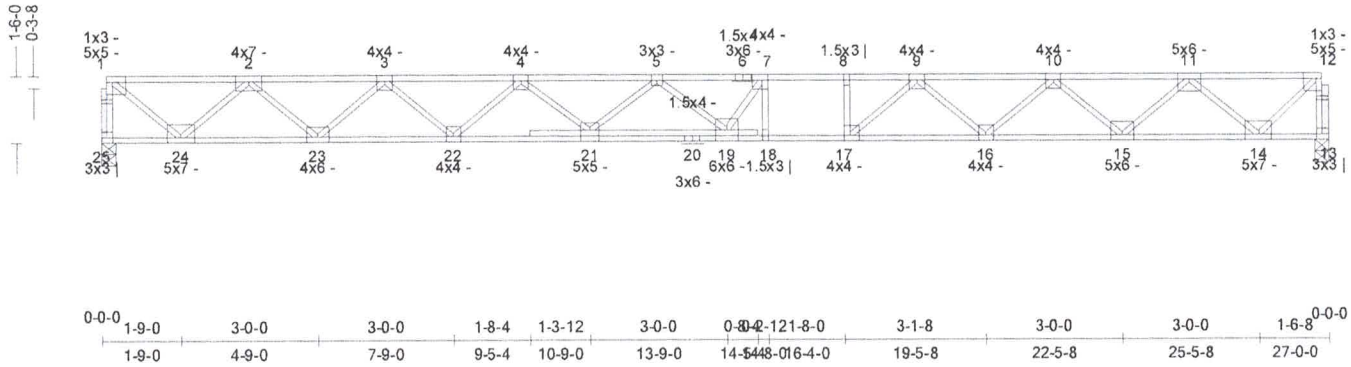
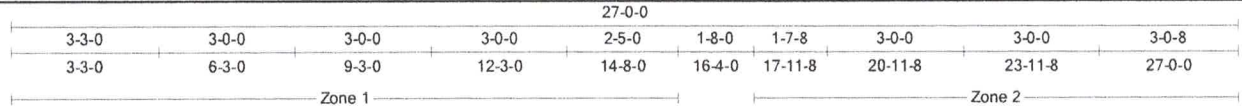
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:F01

Job: QU03648 RESERVE BUILDING J_REV
Date: 02/17/26 15:40:19
Page: 1 of 1

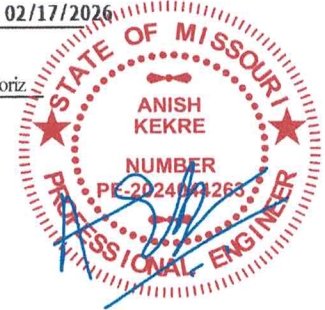
SPAN 27-0-0	PITCH 0/12	QTY 8	OHL 0-0-0	OHR 0-0-0	PLY(S) 1	SPACING 19.19 in	WGT/PLY 146 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.70 (5-7)	Vert TL: 1.1 in	L/288	(18-19)	L/240
TCDL: 10	TPI 1-2014	BC: 0.98 (18-19)	Vert LL: 0.63 in	L/501	(18-19)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.35 (1-24)	Horz TL: 0.15 in		13	
BCDL: 10	Lumber D.O.L.: 100 %					

02/17/2026



Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
25	1	4 in	1.50 in	1,511 lbs					
13	1	3.5 in	1.50 in	1,511 lbs					

Material

TC: SYP2400/1.8 4 x 2
BC: SYP2400/1.8 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.224	(-1,572 lbs)	4-5	0.644	(-7,252 lbs)	8-9	0.555	(-7,057 lbs)	11-12	0.187	(-1,372 lbs)
	2-3	0.365	(-4,113 lbs)	5-7	0.705	(-7,536 lbs)	9-10	0.511	(-5,760 lbs)			
	3-4	0.522	(-5,884 lbs)	7-8	0.562	(-7,057 lbs)	10-11	0.352	(-3,967 lbs)			
BC	14-15	0.280	2,812 lbs	17-18	0.979	7,057 lbs	21-22	0.601	6,685 lbs			
	15-16	0.470	5,002 lbs	18-19	0.981	7,088 lbs	22-23	0.454	5,127 lbs			
	16-17	0.738	6,459 lbs	19-21	0.334	7,555 lbs	23-24	0.289	2,993 lbs			
Web	1-25	0.159	(-1,488 lbs)	4-22	0.131	(-1,084 lbs)	8-17	0.043	(-352 lbs)	11-14	0.237	(-1,952 lbs)
	1-24	0.347	2,094 lbs	4-21	0.125	756 lbs	9-17	0.177	927 lbs	12-14	0.324	1,956 lbs
	2-24	0.234	(-1,928 lbs)	5-21	0.050	(-404 lbs)	9-16	0.115	(-947 lbs)	12-13	0.159	(-1,492 lbs)
	2-23	0.252	1,519 lbs	5-19	0.060	313 lbs	10-16	0.170	1,029 lbs			
	3-23	0.167	(-1,375 lbs)	7-19	0.179	940 lbs	10-15	0.170	(-1,404 lbs)			
	3-22	0.170	1,027 lbs	7-18	0.088	(-741 lbs)	11-15	0.260	1,567 lbs			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, two strongbacks recommended at one third points of the truss span. Strongback spacing or strongback to support should not exceed 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent budding of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

TrueBuild® Truss Software v5.8.14
Eagle Metal Products

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

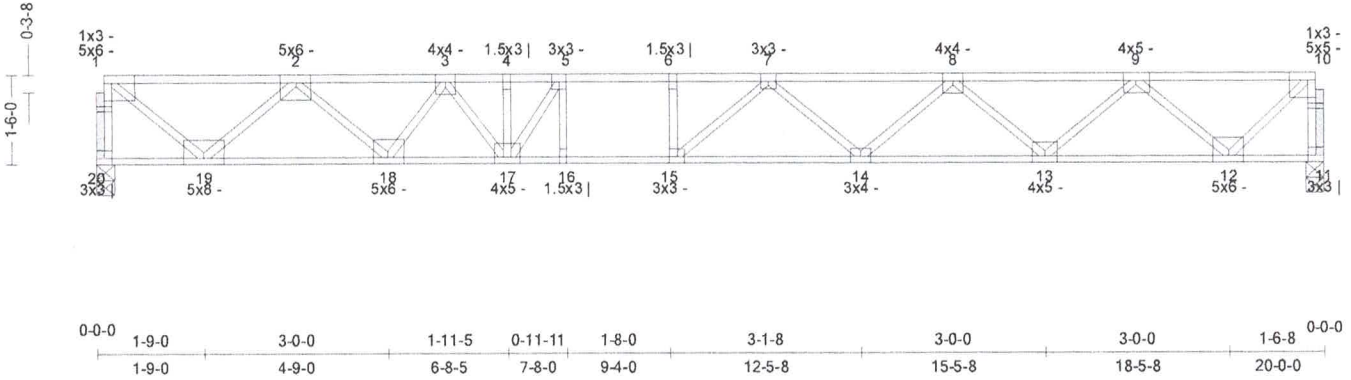
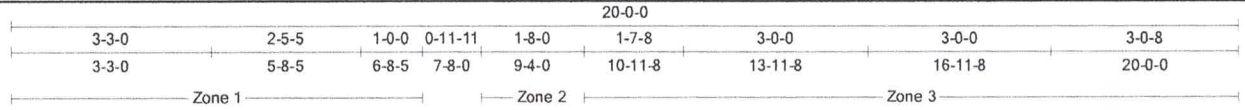
Truss:F02

Job: QU03648 RESERVE BUILDING J_REV

Date: 02/17/26 15:40:21

Page: 1 of 2

SPAN 20-0-0	PITCH 0/12	QTY 2	OHL 0-0-0	OHR 0-0-0	PLY(S) 1	SPACING 19.19 in	WGT/PLY 107 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.49 (5-6)	Vert TL: 0.43 in	L/540	(14-15)	L/240
TCDL: 10	TPI 1-2014	BC: 0.61 (15-16)	Vert LL: 0.24 in	L/972	15	L/360
BCLL: 0	Rep Mbr: No	Web: 0.36 (1-19)	Horz TL: 0.09 in		11	
BCDL: 10	Lumber D.O.L.: 100 %					

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
20	1	3.5 in	1.50 in	1,520 lbs					
11	1	3.5 in	1.50 in	1,318 lbs					

Material

TC: SYP 2400/1.8 4 x 2
 BC: SYP 2400/1.8 4 x 2
 Web: SYP #1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case L1: Std Live Load

Point Loads

Member	Location	Direction	Load	Trib Width
Top	6-8-5	Down	300 lbs	

Load Case D1: Std Dead Load

Point Loads

Member	Location	Direction	Load	Trib Width
Top	6-8-5	Down	300 lbs	

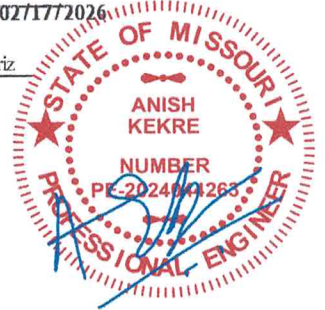
Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table

Member	ID	CSI	Tension (lbs)	Compression (lbs)
TC	1-2	0.266	(-1,581 lbs)	4-5 0.476 (-5,386 lbs)
	2-3	0.389	(-4,144 lbs)	5-6 0.492 (-5,468 lbs)
	3-4	0.477	(-5,386 lbs)	6-7 0.488 (-5,468 lbs)
BC	12-13	0.266	2,411 lbs	15-16 0.606 5,468 lbs
	13-14	0.419	4,182 lbs	16-17 0.606 5,468 lbs
	14-15	0.522	5,205 lbs	17-18 0.466 4,795 lbs
Web	1-20	0.164	(-1,499 lbs)	3-17 0.177 1,002 lbs
	1-19	0.358	2,106 lbs	4-17 0.080 (-659 lbs)
	2-19	0.240	(-1,937 lbs)	5-17 0.066 (-527 lbs)
	2-18	0.263	1,540 lbs	7-15 0.093 487 lbs
	3-18	0.136	(-1,154 lbs)	7-14 0.082 (-624 lbs)
				8-13 0.139 (-1,128 lbs)
				9-13 0.211 1,274 lbs
				9-12 0.202 (-1,664 lbs)
				10-12 0.281 1,688 lbs
				10-11 0.140 (-1,300 lbs)

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10% (Cq=0.90).



WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F02

Job: QU03648_RESERVE BUILDING J_REV

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SPAN
20-0-0

PITCH
0/12

QTY
2

OHL
0-0-0

OHR
0-0-0

PLY(S)
1

SPACING
19.19 in

WGT/PLY
107 lbs

- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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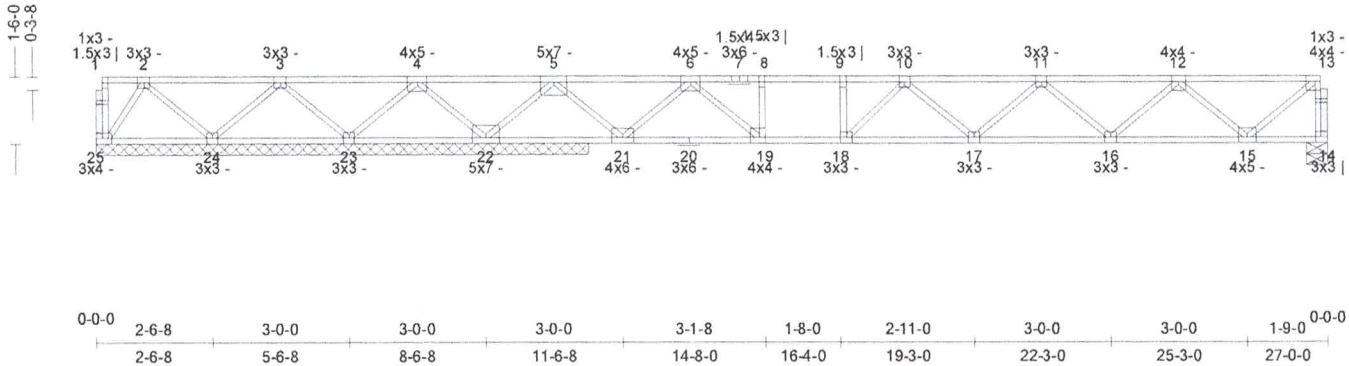
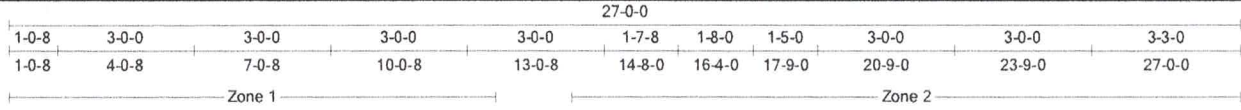
Truss:F03

Job: QU03648_RESERVE BUILDING J_REV

Date: 02/17/26 15:40:22

Page: 1 of 2

SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLY(S) 1	SPACING 19.19 in	WGT/PLY 136 lbs
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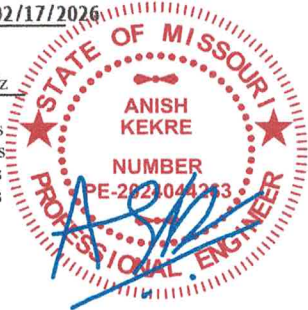
All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.68 (4-5)	Vert TL: 0.38 in	L/497	(17-18)	L/240
TCDL: 10	TPI 1-2014	BC: 0.61 (17-18)	Vert LL: 0.21 in	L/889	(17-18)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.27 (5-22)	Horz TL: 0.04 in		14	
BCDL: 10	Lumber D.O.L.: 100 %					

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
14	1	5.5 in	1.50 in	939 lbs	.	.	.	.	.
22	1	129.5 in	N/A	2,535 lbs	.	.	.	.	1,170 lbs
23	1	129.5 in	N/A	178 lbs	.	.	.	.	-1,009 lbs
24	1	129.5 in	N/A	370 lbs	.	.	.	.	-256 lbs
25	1	129.5 in	N/A	164 lbs	.	.	.	.	110 lbs



Material

TC: SYP 2400/1.8 4 x 2
 BC: SYP 2400/1.8 4 x 2
 Web: SYP #1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	13-9-12	Down	Proj	80 plf	80 plf	

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

Member	Member ID	Max CSI	Max Tension Force	Max Compression Force
TC	3-4	0.507	686 lbs	(-2,368 lbs)
	4-5	0.680	2,169 lbs	(-2,368 lbs)
	5-6	0.387	(-533 lbs)	(-2,368 lbs)
BC	15-16	0.211	1,722 lbs	2,368 lbs
	16-17	0.377	2,617 lbs	1,562 lbs
	17-18	0.614	2,750 lbs	(-533 lbs)
	18-19	0.609	2,368 lbs	
Web	6-8	0.534	(-2,368 lbs)	10-11 0.271 (-2,773 lbs)
	8-9	0.510	(-2,368 lbs)	11-12 0.253 (-2,214 lbs)
	9-10	0.487	(-2,368 lbs)	12-13 0.242 (-926 lbs)
	6-21	0.170	(-1,396 lbs)	12-15 0.131 (-1,079 lbs)
	6-19	0.178	1,074 lbs	13-15 0.204 1,234 lbs
	8-19	0.048	(-444 lbs)	13-14 0.098 (-919 lbs)
	4-23	0.109	656 lbs	
	4-22	0.169	(-1,355 lbs)	
5-22	0.272	(-2,219 lbs)		
5-21	0.239	1,446 lbs	12-16 0.110 667 lbs	

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Address 2

Adair, OK 74330

Truss:F03

Job: QU03648_RESERVE BUILDING J_REV

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SPAN	PITCH	QTY	OHL	OHR	PLY(S)	SPACING	WGT/PLY
27-0-0	0/12	1	0-0-0	0-0-0	1	19.19 in	136 lbs

- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent budding of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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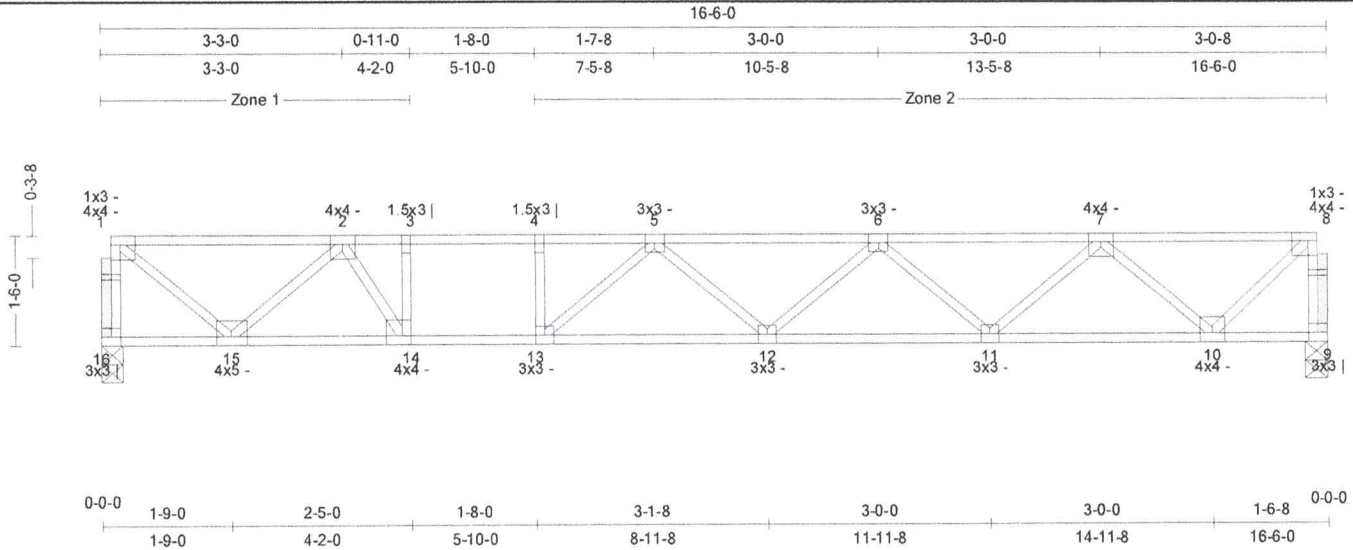
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34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:F04

Job: QU03648_RESERVE BUILDING J_REV
Date: 02/17/26 15:40:24
Page: 1 of 1

SPAN 16-6-0	PITCH 0/12	QTY 4	OHL 0-0-0	OHR 0-0-0	PLY(S) 1	SPACING 19.19 in	WGT/PLY 85 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.86 (3-4)	Vert TL: 0.4 in	L/473	(12-13)	L/240
TCDL: 10	TP1 1-2014	BC: 0.95 (13-14)	Vert LL: 0.23 in	L/848	(12-13)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.19 (1-15)	Horz TL: 0.04 in		9	
BCDL: 10	Lumber D.O.L.: 100 %					

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
16	1	3.5 in	1.50 in	923 lbs					
9	1	3.5 in	1.50 in	923 lbs					

Material

TC: SYP#1 4 x 2
BC: SYP#1 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

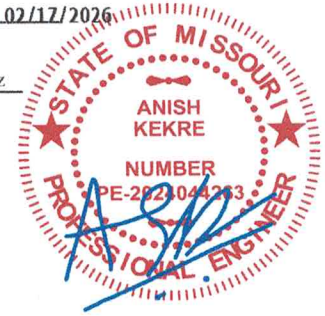
Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force) Only forces greater than 300lbs are shown in this table

Member	ID	CSI	Tension	Compression
TC	1-2	0.383	(-864 lbs)	3-4 0.855 (-2,236 lbs)
	2-3	0.831	(-2,236 lbs)	4-5 0.687 (-2,236 lbs)
BC	10-11	0.328	1,593 lbs	12-13 0.887 2,654 lbs
	11-12	0.599	2,506 lbs	13-14 0.951 2,236 lbs
Web	1-6	0.093	(-873 lbs)	3-14 0.067 (-548 lbs)
	1-15	0.191	1,151 lbs	5-13 0.076 (-559 lbs)
	2-15	0.142	(-1,172 lbs)	6-11 0.068 (-560 lbs)
	2-14	0.176	964 lbs	7-11 0.112 678 lbs

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10% (C_q = 0.90).
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.



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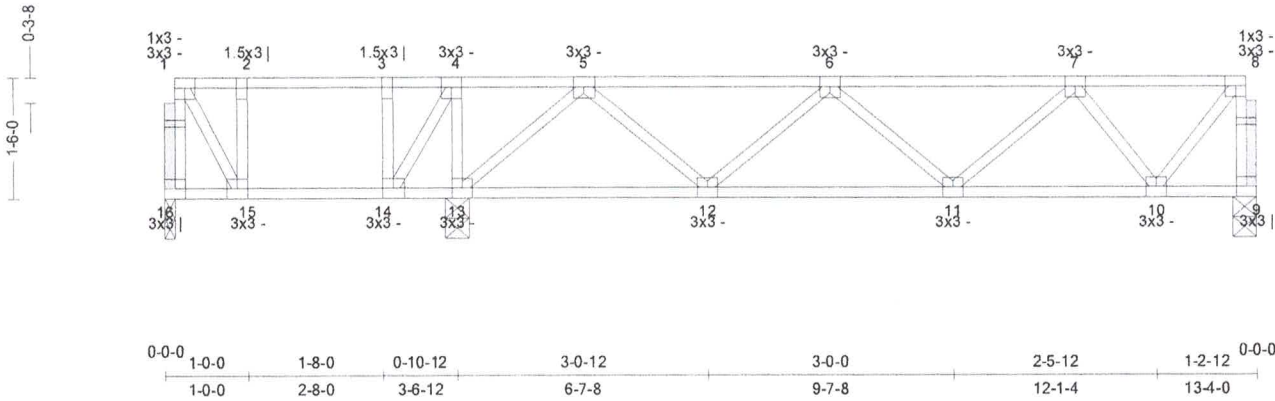
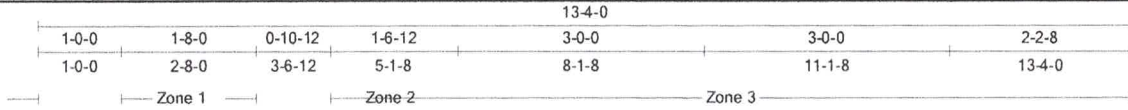
Truss:F05

Job: QU03648_RESERVE BUILDING J_REV

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Page: 1 of 1

SPAN 13-4-0	PITCH 0/12	QTY 5	OHL 0-0-0	OHR 0-0-0	PLY(S) 1	SPACING 19.19 in	WGT/PLY 72 lbs
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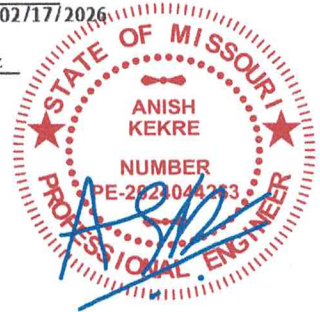
All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.26 (6-7)	Vert TL: 0.03 in	L/999	(11-12)	L/240
TCDL: 10	TPI 1-2014	BC: 0.24 (11-12)	Vert LL: 0.01 in	L/999	(11-12)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.10 (8-10)	Horz TL: 0.01 in		9	
BCDL: 10	Lumber D.O.L.: 100%					

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
13	1	3.5 in	1.50 in	784 lbs	.	.	.	.	.
16	1	1.5 in	1.50 in	166 lbs	.	.	.	.	.
9	1	3.5 in	1.50 in	542 lbs	.	.	.	.	.



Material

TC: SYP#1 4 x 2
BC: SYP#1 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	5-6	0.256	(-753 lbs)	7-8	0.188	(-352 lbs)
	6-7	0.259	(-836 lbs)			
BC	10-11	0.177	640 lbs	12-13	0.171	463 lbs
	11-12	0.242	935 lbs			
Web	5-13	0.087	(-714 lbs)	8-9	0.056	(-527 lbs)
	5-12	0.065	394 lbs			
	7-10	0.057	(-496 lbs)			
	8-10	0.096	583 lbs			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10% (Cq = 0.90).
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.

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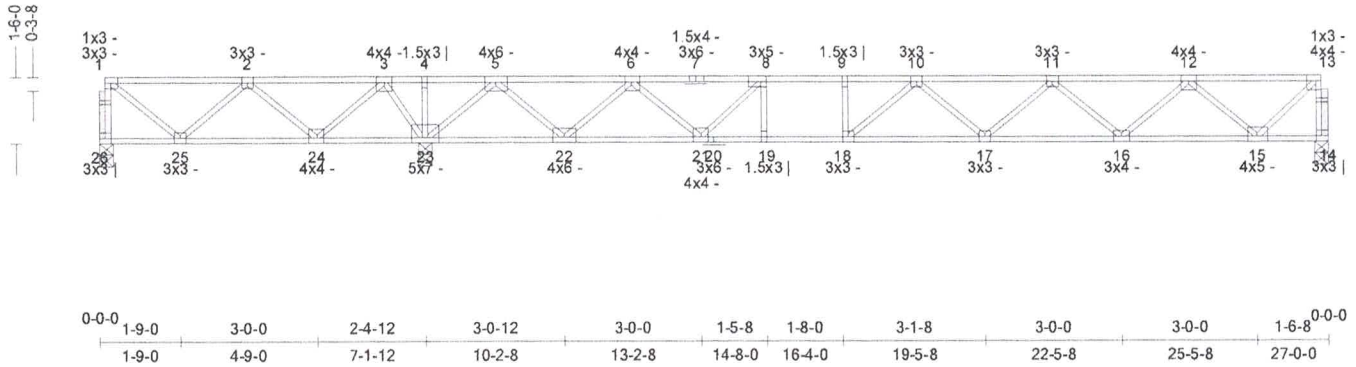
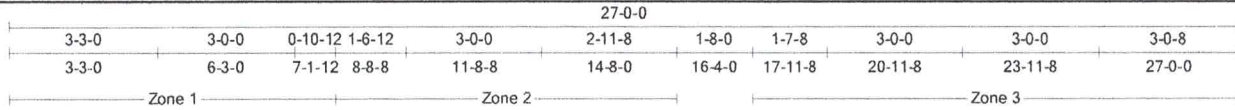
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:F06

Job: QU03648_RESERVE BUILDING J_REV
Date: 02/17/26 15:40:26
Page: 1 of 2

SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLY(S) 2	SPACING 19.19 in	WGT/PLY 137 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.48 (8-9)	Vert TL: 0.39 in	L/604	(17-18)	L/240
TCDL: 10	TPI 1-2014	BC: 0.75 (18-19)	Vert LL: 0.11 in	L/999	(17-18)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.24 (5-22)	Horz TL: 0.03 in		14	
BCDL: 10	Lumber D.O.L.: 100 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz.
23	1	3.5 in	1.50 in	4,135 lbs					
26	1	3.5 in	1.50 in	179 lbs	-274 lbs			-274 lbs	
14	1	3.5 in	1.50 in	1,915 lbs					

Material

TC: SYP 2400/1.8 4 x 2
BC: SYP 2400/1.8 4 x 2
Web: SYP #1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case D1: Sld Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	27-0-0	Down	Proj	110 plf	110 plf	

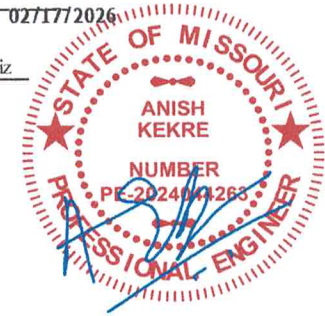
Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table

Member	Location 1	Location 2	Force	Member	Location 1	Location 2	Force		
TC	2-3	0.431	1,027 lbs	6-8	0.469	(-1,848 lbs)	10-11	0.292	(-2,871 lbs)
	3-4	0.369	2,144 lbs	8-9	0.480	(-2,587 lbs)	11-12	0.278	(-2,206 lbs)
	4-5	0.418	2,144 lbs	9-10	0.460	(-2,587 lbs)	12-13	0.247	(-823 lbs)
	15-16	0.191	1,687 lbs	18-19	0.745	2,587 lbs	22-23	0.082	(-796 lbs)
BC	16-17	0.348	2,689 lbs	19-21	0.745	2,587 lbs	23-24	0.162	(-1,625 lbs)
	17-18	0.662	2,934 lbs	21-22	0.181	1,160 lbs	24-25	0.057	(-517 lbs)
	1-25	0.045	(-335 lbs)	5-22	0.240	1,371 lbs	12-16	0.122	704 lbs
Web	2-25	0.069	360 lbs	6-22	0.163	(-1,282 lbs)	12-15	0.149	(-1,172 lbs)
	2-24	0.103	(-800 lbs)	6-21	0.162	934 lbs	13-15	0.206	1,173 lbs
	3-24	0.151	860 lbs	8-21	0.128	(-1,037 lbs)	13-14	0.108	(-950 lbs)
	3-23	0.112	(-949 lbs)	10-18	0.066	(-489 lbs)			
	5-23	0.227	(-1,796 lbs)	11-16	0.084	(-656 lbs)			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.



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34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F06

Job: QU03648 RESERVE BUILDING J_REV

Date: 02/17/26 15:40:27

Page: 2 of 2

SPAN	PITCH	QTY	OHL	OHR	PLY(S)	SPACING	WGT/PLY
27-0-0	0/12	1	0-0-0	0-0-0	2	19.19 in	137 lbs

- 7) Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 26 may need to be considered.
- 8) The forces shown for this multi-ply truss are per ply and the reactions are for all plies. Two identical trusses shall be built and attached as follows: SDS Simpson 0.250"x6" Screws TC - 1 row @ 2-0-0 oc, BC - 1 row @ 2-0-0 oc, Webs - 1 @ 2-0-0 oc, minimum one fastener per web.
- 9) Screws shall be installed in the same truss ply that the hangers are attached to. If both plies are loaded, the screws shall be divided between the two plies, with the spacing on each side twice the minimum indicated.
- 10) Strongbacks shall be attached to each ply.
- 11) Center screw vertically on the 1-1/2" dimension of chords and webs. If splitting occurs, it may be necessary to pre-drill the holes in accordance with the NDS.
- 12) Install screws per manufacturer recommendations.

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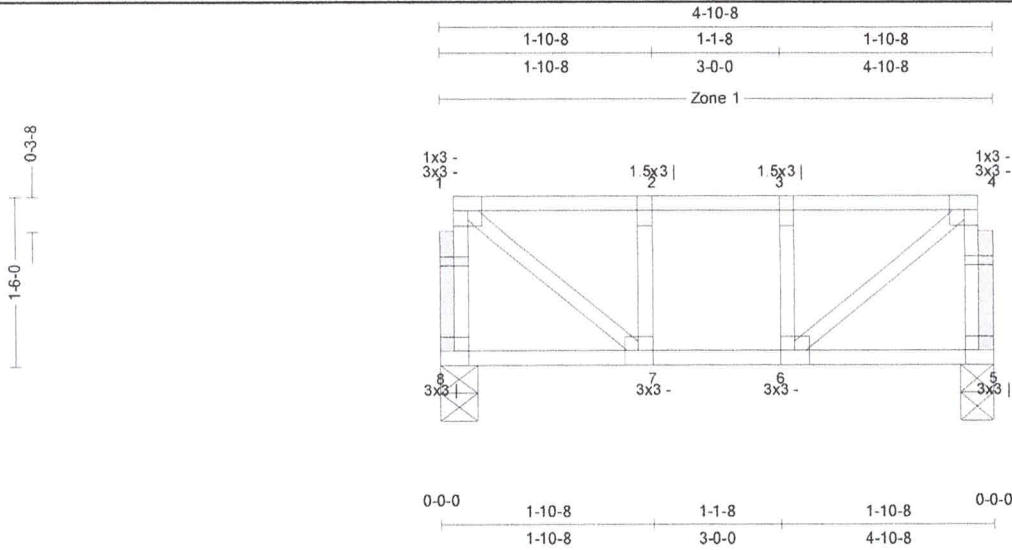
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:F08

Job: QU03648_RESERVE BUILDING J_REV
Date: 02/17/26 15:40:29
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SPAN 4-10-8	PITCH 0/12	QTY 4	OHL 0-0-0	OHR 0-0-0	PLY(S) 1	SPACING 19.19 in	WGT/PLY 30 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.10 (1-2)	Vert TL: 0.01 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.09 (6-7)	Vert LL: 0.01 in	L/999	(5-6)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.05 (1-7)	Horz TL: 0 in		5	
BCDL: 10	Lumber D.O.L.: 100 %					

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
8	1	4 in	1.50 in	273 lbs					
5	1	3.5 in	1.50 in	273 lbs					

Material

TC: SYP#1 4 x 2
BC: SYP#1 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

Member	Max CSI	Max Tension Force	Max Compression Force
TC			
BC			
Web			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 3) A creep factor of 2.00 has been applied for this truss analysis.
- 4) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 5) Indicates non-structural members.



WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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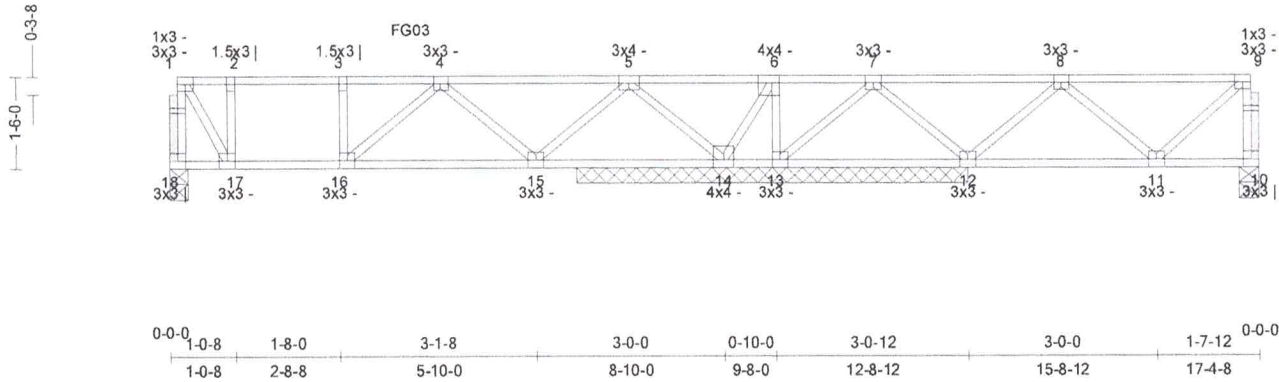
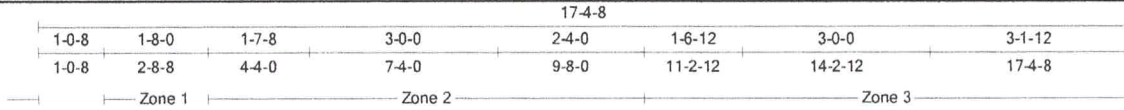
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:FG02

Job: QU03648 RESERVE BUILDING J_REV
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SPAN 17-4-8	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLY(S) 2	SPACING 50.47 in	WGT/PLY 90 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
Carried Loads (psf)	Bldg Code: IBC 2018/	TC: 0.60 (5-6)	Vert TL: 0.06 in	L/999	(15-16)	L/240
TCLL: 40	TPI 1-2014	BC: 0.27 (16-17)	Vert LL: 0.04 in	L/999	(15-16)	L/360
TCDL: 10	Rep Mbr: No	Web: 0.12 (5-14)	Horz TL: 0 in		10	
BCLL: 0	Lumber D.O.L.: 100 %					
BCDL: 10						



Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
18	1	3.5 in	1.50 in	300 lbs	.	.	.	.	.
10	1	4 in	1.50 in	67 lbs	.	.	.	.	.
12	1	75 in	N/A	19 lbs	-69 lbs	.	.	-69 lbs	.
13	1	75 in	N/A	0 lbs	-160 lbs	.	.	-160 lbs	.
14	1	75 in	N/A	2,548 lbs	.	.	.	.	.

Material

TC: SYP#1 4 x 2
BC: SYP#1 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case L1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	17-4-8	Down	Proj	23.65 plf	23.65 plf	
Top	0-0-0	3-10-4	Down	Proj	12.5 plf	12.5 plf	
Top	3-10-4	12-6-0	Down	Proj	144.58 plf	144.58 plf	
Top	12-6-0	17-4-8	Down	Proj	16.67 plf	16.67 plf	

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	17-4-8	Down	Proj	5.91 plf	5.91 plf	
Top	0-0-0	3-10-4	Down	Proj	3.13 plf	3.13 plf	
Top	3-10-4	12-6-0	Down	Proj	36.15 plf	36.15 plf	
Top	12-6-0	17-4-8	Down	Proj	4.17 plf	4.17 plf	
Bot	0-0-0	17-4-8	Down	Proj	5.91 plf	5.91 plf	
Bot	0-0-0	3-10-4	Down	Proj	3.13 plf	3.13 plf	

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	5-6	0.601	1,120 lbs			
	6-7	0.355	734 lbs			
BC	12-13	0.042	(-316 lbs)	14-15	0.058	(-440 lbs)
	13-14	0.082	(-734 lbs)			

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Adair, OK 74330

Truss:FG02

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SPAN 17-4-8	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLY(S) 2	SPACING 50.47 in	WGT/PLY 90 lbs
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Web	1-17	0.054	303 lbs	6-14	0.089	(-744 lbs)
	4-15	0.057	(-435 lbs)	6-13	0.082	454 lbs
	5-15	0.087	483 lbs	7-13	0.073	(-557 lbs)
	5-14	0.121	(-922 lbs)			

Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
FG03	TC	3-10-4

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10% (Cq=0.90).
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.
- 7) Due to negative reactions in gravity load cases, special connections to the bearing surface at joints 12, 13 may need to be considered.
- 8) The forces shown for this multi-ply truss are per ply and the reactions are for all plies. Two identical trusses shall be built and attached as follows: SDS Simpson 0.250"x6" Screws TC - 1 row @ 1-10-12 oc, BC - 1 row @ 2-0-0 oc, Webs - 1 @ 2-0-0 oc, minimum one fastener per web.

Provided the hanger connections do not adequately transfer the applied load to all plies: in addition to connectors shown above, attach girder plies with supplemental SDS Simpson 0.250"x6" Screws as follows within 24" of the location shown:
TC: 3-10-4,(1)Connectors

- Connectors shall not encroach on other girder ply connectors or truss-to-truss connectors in accordance with the NDS or the connector manufacturer recommendations.
- 9) Screws shall be installed in the same truss ply that the hangers are attached to. If both plies are loaded, the screws shall be divided between the two plies, with the spacing on each side twice the minimum indicated.
 - 10) Strongbacks shall be attached to each ply.
 - 11) Center screw vertically on the 1-1/2" dimension of chords and webs. If splitting occurs, it may be necessary to pre-drill the holes in accordance with the NDS.
 - 12) Install screws per manufacturer recommendations.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent budding of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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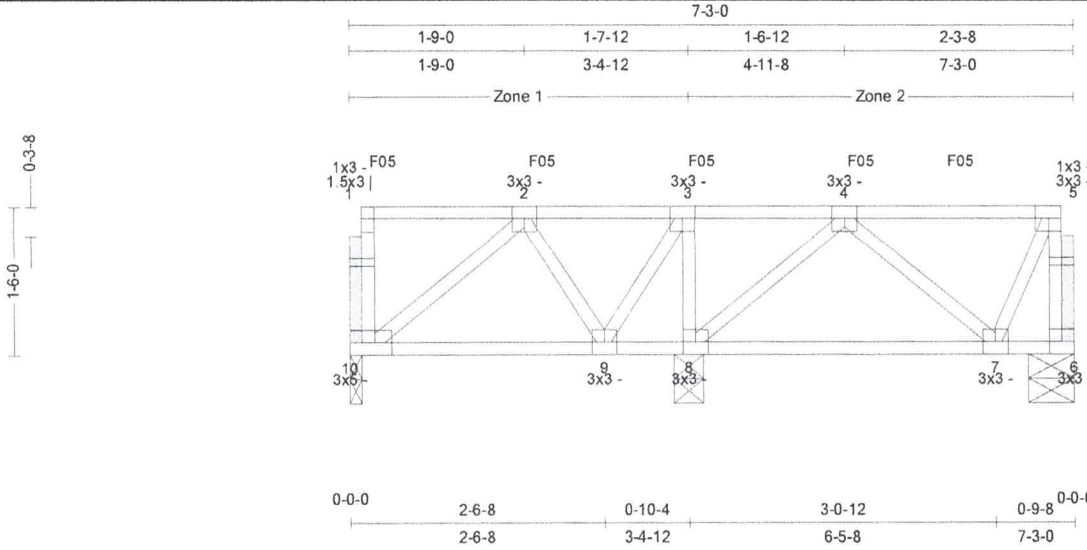
Quality Line Truss Co., LLC

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Truss:FG03

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SPAN 7-3-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLY(S) 1	SPACING 52.75 in	WGT/PLY 44 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
Carried Loads (psf)	Bldg Code: IBC 2018/	TC: 0.34 (4-5)	Vert TL: 0.02 in	L/999	(9-10)	L/240
TCLL: 40	TPI 1-2014	BC: 0.22 (9-10)	Vert LL: 0.01 in	L/999	(9-10)	L/360
TCDL: 10	Rep Mbr: No	Web: 0.05 (3-9)	Horz TL: 0 in		6	
BCLL: 0	Lumber D.O.L.: 100%					
BCDL: 10						



Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz.
8	1	3.5 in	1.50 in	600 lbs	.	.	.	.	.
10	1	1.5 in	1.50 in	319 lbs	.	.	.	.	.
6	1	5.5 in	1.50 in	200 lbs	.	.	.	.	.

Material

TC: SYP#1 4 x 2
BC: SYP#1 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Bot	0-0-0	3-6-8	Down	Proj	43.96 plf	43.96 plf	
Bot	3-6-8	7-3-0	Down	Proj	13.96 plf	13.96 plf	

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	BC	Web
		3-8 0.038 (-352 lbs)

Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
F05	TC	0-4-0
F05	TC	1-11-3
F05	TC	3-6-6
F05	TC	5-1-9
F05	TC	6-1-7

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this floor truss is 10% (Cq = 0.90).
- 3) A creep factor of 2.00 has been applied for this truss analysis.
- 4) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Quality Line Truss Co., LLC

34593 S 4350 RD

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Adair, OK 74330

Truss:FG03

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SPAN	PITCH	QTY	OHL	OHR	PLY(S)	SPACING	WGT/PLY
7-3-0	0/12	1	0-0-0	0-0-0	1	52.75 in	44 lbs

5) Indicates non-structural members.

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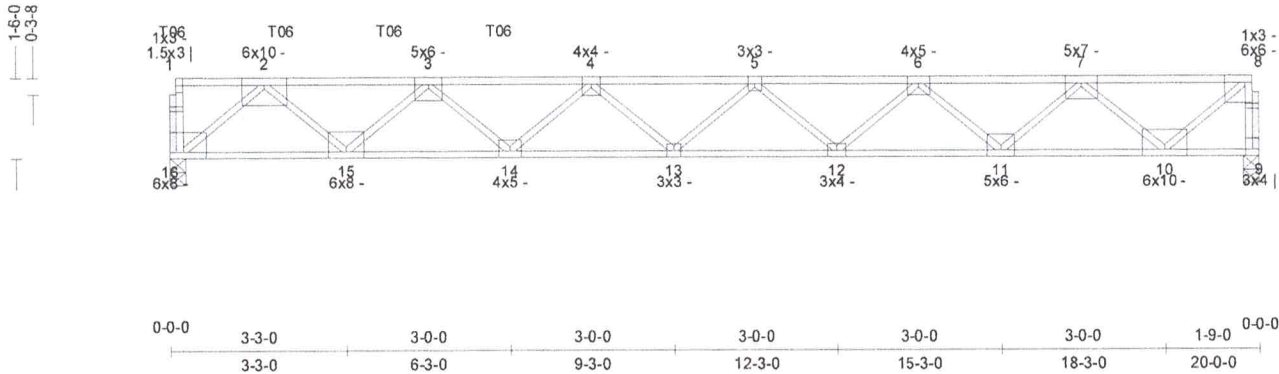
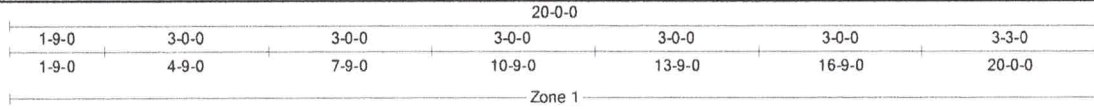
Truss:FG04

Job: QU03648_RESERVE BUILDINGJ_REV

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SPAN 20-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLY(S) 2	SPACING 50.84 in	WGT/PLY 106 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
Carried Loads (psf)	Bldg Code: IBC2018/	TC: 0.83 (4-5)	Vert TL: 0.58 in	L/400	(12-13)	L/240
TCLL: 40	TP1 1-2014	BC: 0.73 (12-13)	Vert LL: 0.23 in	L/999	(12-13)	L/360
TCDL: 10	Rep Mbr: No	Web: 0.47 (8-10)	Horz TL: 0.12 in		9	
BCLL: 0	Lumber D.O.L.: 100 %					
BCDL: 10						

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
16	1	3.5 in	1.50 in	4,046 lbs					
9	1	3.5 in	1.50 in	4,051 lbs					

Material

TC: SYP 2400/1.8 4 x 2
 BC: SYP 2400/1.8 4 x 2
 Web: SYP#1 4 x 2

Loads

- This truss has been designed for the effects of (psf) sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce=1.0), Thermal (Ct=1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- This truss has not been designed for the effects of unbalanced snow loads.
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case L1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	20-0-0	Down	Proj	140.52 plf	140.52 plf	
Top	7-0-12	20-0-0	Down	Proj	28.96 plf	28.96 plf	

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	20-0-0	Down	Proj	110 plf	110 plf	
Top	0-0-0	20-0-0	Down	Proj	35.13 plf	35.13 plf	
Top	7-0-12	20-0-0	Down	Proj	7.24 plf	7.24 plf	
Bot	0-0-0	20-0-0	Down	Proj	35.13 plf	35.13 plf	
Bot	7-0-12	20-0-0	Down	Proj	7.24 plf	7.24 plf	

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table

TC	2-3	0.570	(-3,695 lbs)	4-5	0.827	(-7,052 lbs)	6-7	0.703	(-5,081 lbs)
	3-4	0.818	(-6,031 lbs)	5-6	0.775	(-6,727 lbs)	7-8	0.544	(-2,028 lbs)
BC	10-11	0.414	3,860 lbs	12-13	0.727	7,159 lbs	14-15	0.537	5,142 lbs
	11-12	0.626	6,160 lbs	13-14	0.703	6,805 lbs	15-16	0.270	2,118 lbs



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Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:FG04

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SPAN	PITCH	QTY	OHL	OHR	PLY(S)	SPACING	WGT/PLY
20-0-0	0/12	1	0-0-0	0-0-0	2	50.84 in	106 lbs
Web	2-16 0.368 2-15 0.376 2,138 lbs 3-15 0.255 3-14 0.200 1,206 lbs	(-2,822 lbs) 4-14 0.131 4-13 0.055 335 lbs 5-12 0.081 6-12 0.132 770 lbs	(-1,050 lbs) 6-11 0.188 7-11 0.283 1,657 lbs 7-10 0.312 8-10 0.466 2,701 lbs	(-1,463 lbs) 8-9 0.222 (-1,995 lbs)			

Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
T06	TC	0-0-12
T06	TC	2-0-12
T06	TC	4-0-12
T06	TC	6-0-12

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SP1B design values effective June 1, 2013 were used.
- 6) Indicates non-structural members.
- 7) The forces shown for this multi-ply truss are per ply and the reactions are for all plies. Two identical trusses shall be built and attached as follows: SDS Simpson 0.250"x6" Screws TC - 1 row @ 1-2-12 oc, BC - 1 row @ 2-0-0 oc, Webs - 1 @ 2-0-0 oc, minimum one fastener per web.

Provided the hanger connections do not adequately transfer the applied load to all plies: in addition to connectors shown above, attach girder plies with supplemental SDS Simpson 0.250"x6" Screws as follows within 24" of the location shown:

- TC: 0-0-12,(1)Connectors
- TC: 2-0-12,(1)Connectors
- TC: 4-0-12,(1)Connectors
- TC: 6-0-12,(1)Connectors

Connectors shall not encroach on other girder ply connectors or truss-to-truss connectors in accordance with the NDS or the connector manufacturer recommendations.

- 8) Screws shall be installed in the same truss ply that the hangers are attached to. If both plies are loaded, the screws shall be divided between the two plies, with the spacing on each side twice the minimum indicated.
- 9) Strongbacks shall be attached to each ply.
- 10) Center screw vertically on the 1-1/2" dimension of chords and webs. If splitting occurs, it may be necessary to pre-drill the holes in accordance with the NDS.
- 11) Install screws per manufacturer recommendations.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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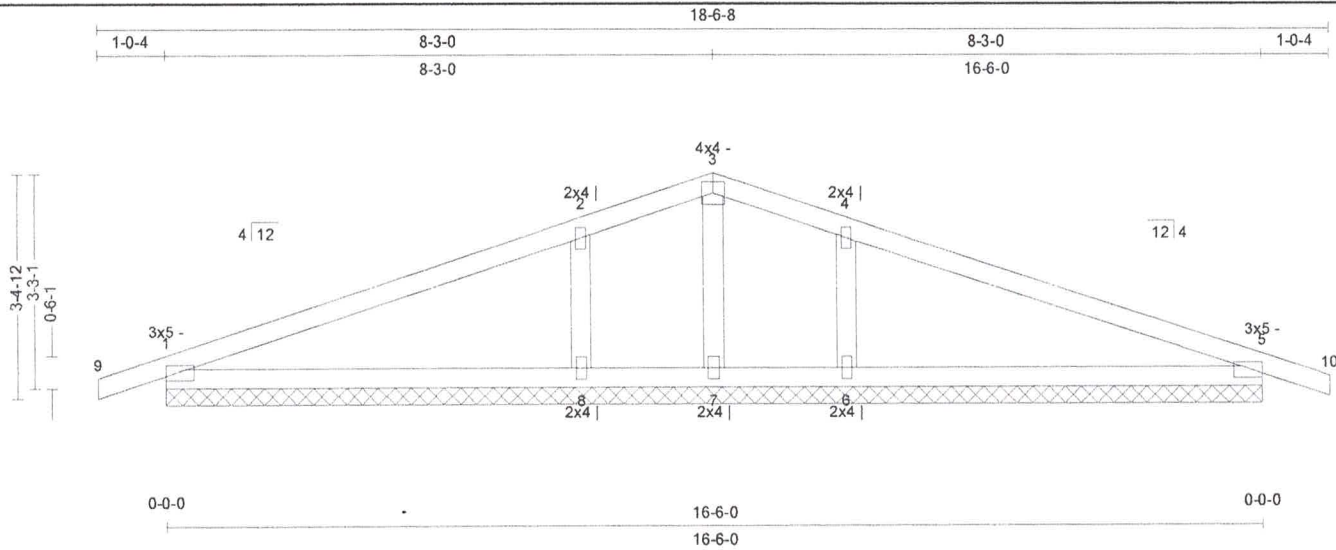
Truss:GE01

Job: QU03648 RESERVE BUILDING J_REV

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SPAN 16-6-0	PITCH 4/12	QTY 1	OHL 1-0-4	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 61 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.37 (4-5)	Vert TL: 0.02 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.14 (5-6)	Vert LL: 0 in	L/999	5	L/360
BCLL: 0	Rep Mbr: No	Web: 0.05 (4-6)	Horz TL: 0 in			
BCDL: 10	Lumber D.O.L.: 115 %					

Reaction

Brg Combo	Brg Width	Max React	Ave React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		1,295 lbs	266 plf	-977 lbs	-168 lbs	-575 lbs	-977 lbs	711 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#2 2 x 4

Bracing

TC: Sheathed or Purlins at 6-3-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

- 1) This truss has been designed for the effects of balanced (14 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 3) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60

Member Forces

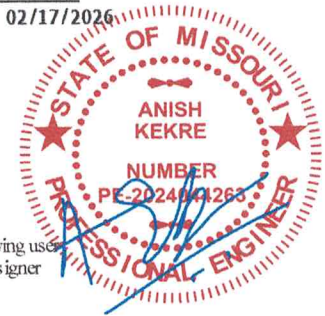
Table indicates: Member ID, max CSI, max tension force, (max compression force) Only forces greater than 300lbs are shown in this table.

TC	1-2	0.374	1,114 lbs	(-526 lbs)
	4-5	0.374	1,114 lbs	(-526 lbs)
BC	Web	2-8	0.050	(-355 lbs)
		4-6 <td>0.050 <th>(-355 lbs)</th> </td>	0.050 <th>(-355 lbs)</th>	(-355 lbs)

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable webs placed at 24" OC, U.N.O.
- 4) Attach gable webs with 2x4 20g plates, U.N.O.
- 5) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 6) The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- 7) A creep factor of 2.00 has been applied for this truss analysis.
- 8) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 9) Due to negative reactions in gravity load cases, special connections to the bearing surface at joints 7, 5, 1 may need to be considered.
- 10) Listed wind uplift reactions based on MWFRS & C&C loading.

02/17/2026



WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Address 2

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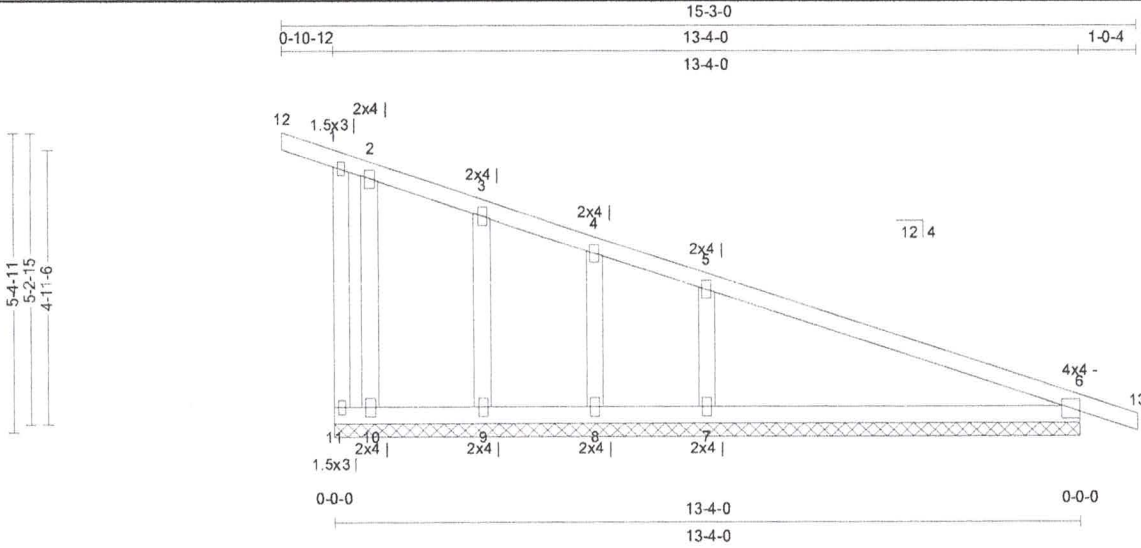
Truss:GE02

Job: QU03648_RESERVE BUILDINGJ_REV

Date: 02/17/26 15:40:41

Page: 1 of 1

SPAN 13-4-0	PITCH -4/12	QTY 1	OHL 0-10-12	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 65 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL : 20	Bldg Code : IBC 2018/	TC : 0.52 (5-6)	Vert TL : 0.03 in	L / 999	(6-7)	L / 240
TCDL : 10	Rep Mbr : No	BC : 0.16 (6-7)	Vert LL : 0 in UP	L / 999	(6-7)	L / 360
BCLL : 0	Lumber D.O.L. : 115 %	Web : 0.21 (1-11)	Horz TL : 0 in			

Reaction

Brg Combo	Brg Width	Max React	Ave React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		1,735 lbs	257 plf	-1,378 lbs	-281 lbs	-931 lbs	-1,378 lbs	915 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#2 2 x 4

Bracing

TC: Sheathed or Purlins at 6-3-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

- This truss has been designed for the effects of balanced (14 psf) and unbalanced sloped roof snow loads in accordance with ASCE 7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- This truss has been designed for the effects of wind loads in accordance with ASCE 7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60

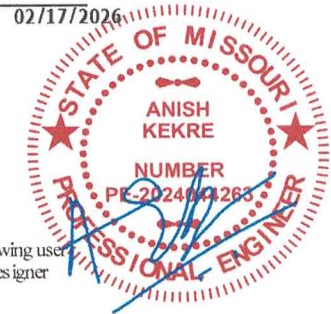
Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

Member	CSI	Tension (lbs)	Compression (lbs)
TC	5-6	0.517	1,536 lbs (-911 lbs)
BC			
Web	5-7	0.053	300 lbs (-345 lbs)

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- Gable requires continuous bottom chord bearing.
- Gable webs placed at 24" OC, U.N.O.
- Attach gable webs with 2x4 20g plates, U.N.O.
- Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- A creep factor of 2.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Due to negative reactions in gravity load cases, special connections to the bearing surface at joints 8, 6 may need to be considered.
- Listed wind uplift reactions based on MWFRS & C&C loading.



WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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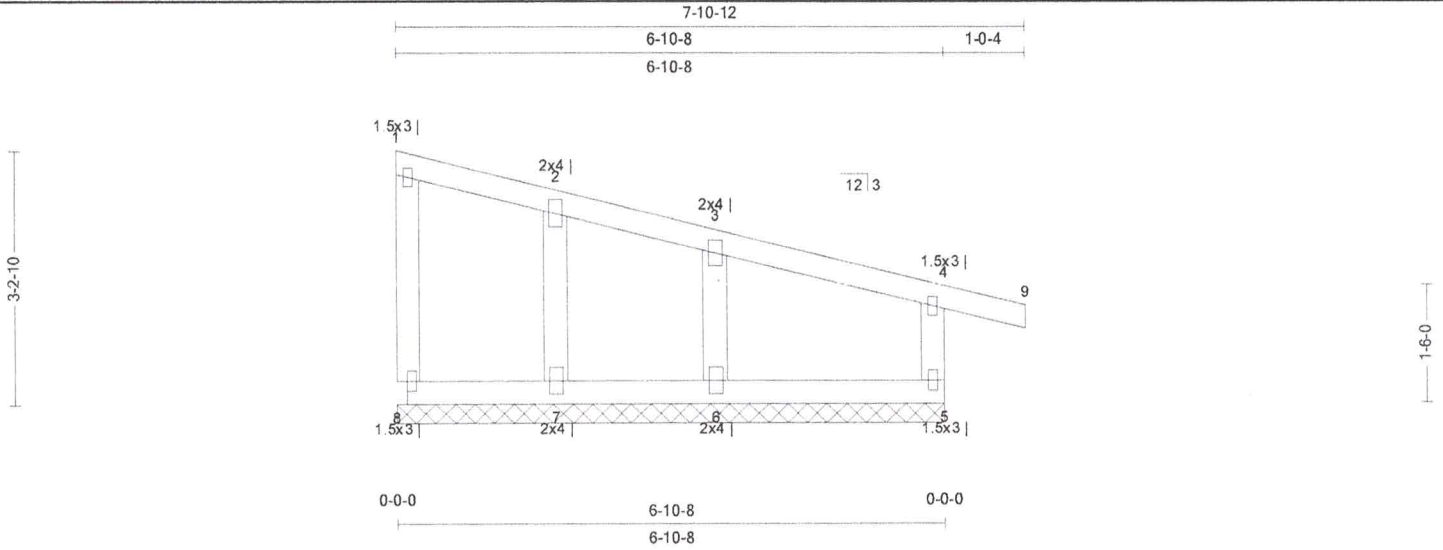
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:GE03

Job: QU03648 RESERVE BUILDING J_REV
Date: 02/17/26 15:40:42
Page: 1 of 1

SPAN 6-10-8	PITCH -3/12	QTY 2	OHL 0-0-0	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 32 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC2018/	TC: 0.16 (1-2)	Vert TL: 0 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.04 (5-6)	Vert LL: 0 in	L/999	5	L/360
BCLL: 0	Rep Mbr: No	Web: 0.38 (4-5)	Horz TL: 0 in			
BCDL: 10	Lumber D.O.L.: 115 %					

02/17/2026

Reaction

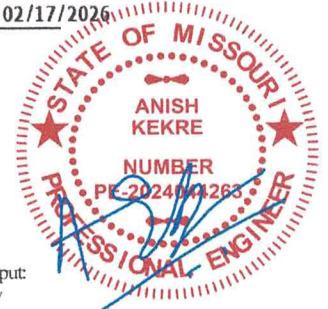
Brg Combo	Brg Width	Max React	Ave React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		198 lbs	91 plf		-56 lbs	-255 lbs	-255 lbs	-160 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#2 2 x 4

Bracing

TC: Sheathed or Purlins at 6-3-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.



Loads

- 1) This truss has been designed for the effects of balanced (20 psf) sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has not been designed for the effects of unbalanced snow loads.
- 3) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 4) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	BC	Web

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable webs placed at 24" OC, U.N.O.
- 4) Attach gable webs with 1.5x3 20 ga plates, U.N.O.
- 5) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 6) The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
- 7) A creep factor of 2.00 has been applied for this truss analysis.
- 8) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 9) Please refer to Eagle Metals Engineering Details sheet titled, Girder Ledger Detail.
- 10) Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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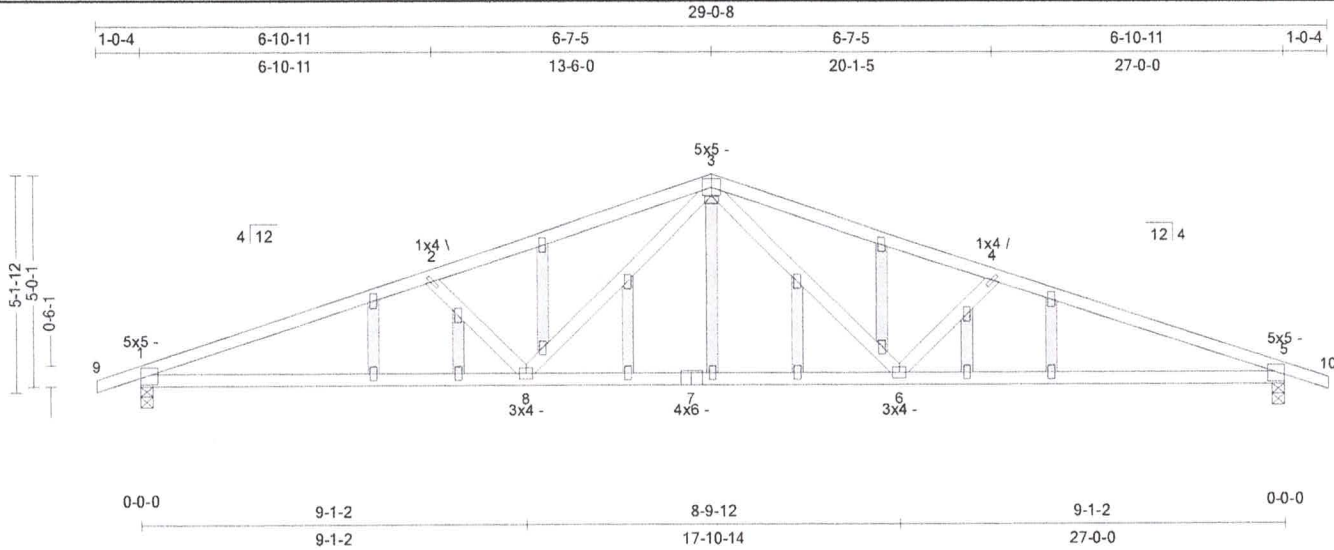
Truss:SGE01

Job: QU03648_RESERVE BUILDING J_REV

Date: 02/17/26 15:40:44

Page: 1 of 1

SPAN 27-0-0	PITCH 4/12	QTY 1	OHL 1-0-4	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 139 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.62 (2-3)	Vert TL: 0.48 in	L/661	(6-7)	L/240
TCDL: 10	TPI 1-2014	BC: 1.00 (8-1)	Vert LL: 0.16 in	L/999	7	L/360
BCLL: 0	Rep Mbr: No	Web: 0.14 (3-8)	Horz TL: 0.1 in		5	
BCDL: 10	Lumber D.O.L.: 115 %					

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	1.67 in	1,411 lbs		-106 lbs	-319 lbs	-319 lbs	-4 lbs
5	1	3.5 in	1.67 in	1,411 lbs		-106 lbs	-319 lbs	-319 lbs	

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 3-1-0, Purlin design by Others.
BC: Sheathed



Loads

- 1) This truss has been designed for the effects of balanced (14 psf) and unbalanced sloped roof snow loads in accordance with ASCE 7 - 16 with the following user defined input: 20 psf G_SL, Terrain C, Exposure (C_e = 1.0), Thermal (C_t = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 3) This truss has been designed for the effects of wind loads in accordance with ASCE 7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- 4) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSL, max tension force, (max compression force) Only forces greater than 300lbs are shown in this table.

Member	Force 1	Force 2	Force 3	Force 4	Force 5	Force 6	Force 7	Force 8	Force 9	Force 10					
TC	1-2	0.544	583 lbs	(-3,032 lbs)	3-4	0.618	531 lbs	(-2,743 lbs)							
	2-3	0.618	531 lbs	(-2,743 lbs)	4-5	0.544	583 lbs	(-3,032 lbs)							
BC	5-6	1.002	2,814 lbs	(-448 lbs)	6-8	0.859	1,951 lbs		8-1	1.002	2,814 lbs	(-448 lbs)			
Web	2-8	0.081		(-421 lbs)	3-8	0.144	870 lbs		3-6	0.144	870 lbs		4-6	0.081	(-421 lbs)

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable webs placed at 24" OC, U.N.O.
- 3) Attach structural gable blocks with 2x4 20g plates, U.N.O.
- 4) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 5) The fabrication tolerance for this roof truss is 20% (C_q = 0.80).
- 6) A creep factor of 2.00 has been applied for this truss analysis.
- 7) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 8) Indicates non-structural members.
- 9) Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes.

This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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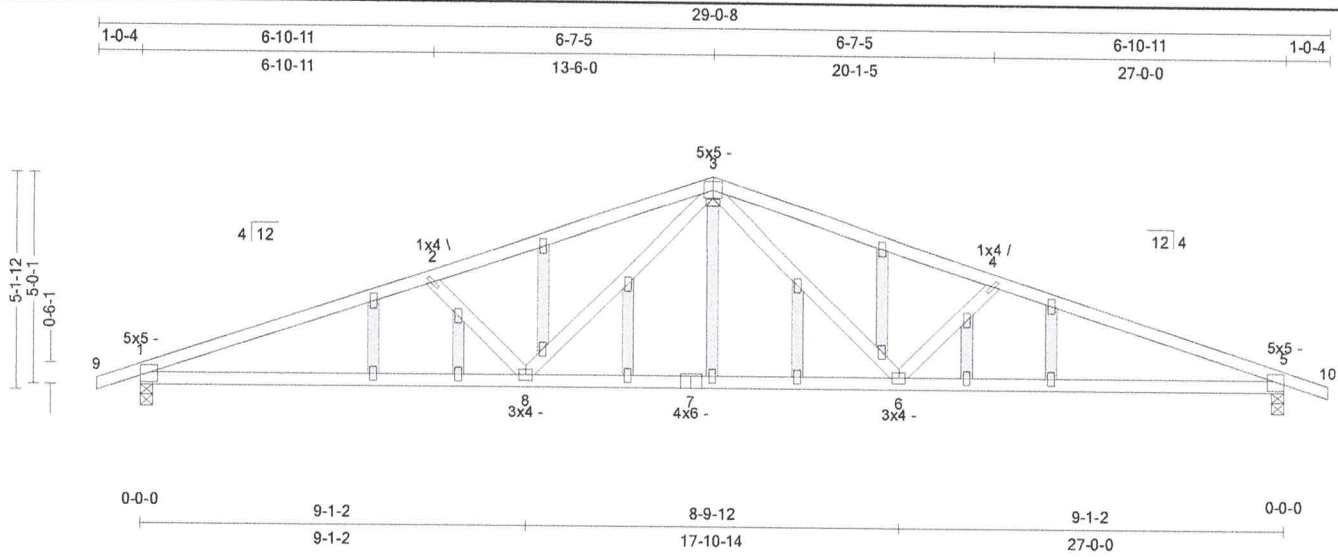
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:SGE02

Job: QU03648_RESERVE BUILDING J_REV
Date: 02/17/26 15:40:45
Page: 1 of 1

SPAN 27-0-0	PITCH 4/12	QTY 1	OHL 1-0-4	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 139 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL : 20	Bldg Code : IBC 2018/	TC : 0.36 (2-3)	Vert TL : 0.43 in	L / 740	(6-7)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.58 (8-1)	Vert LL : 0.14 in	L / 999	(6-7)	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.14 (3-8)	Horz TL : 0.09 in		5	
BCDL : 10	Lumber D.O.L. : 115 %					

02/17/2026

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	1.50 in	1,411 lbs		-106 lbs	-319 lbs	-319 lbs	-4 lbs
5	1	3.5 in	1.50 in	1,411 lbs		-106 lbs	-319 lbs	-319 lbs	

Material

TC: SYP 2400/1.8 2 x 4
BC: SYP 2400/1.8 2 x 4
Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 4-2-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

- This truss has been designed for the effects of balanced (14 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

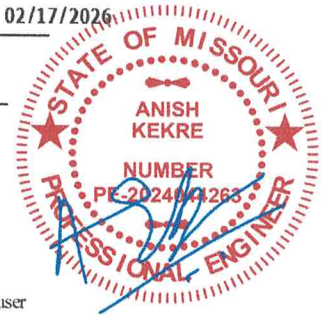
Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.347	583 lbs	(-3,032 lbs)	3-4	0.356	531 lbs	(-2,743 lbs)
	2-3	0.356	531 lbs <th>(-2,743 lbs)</th> <td>4-5</td> <td>0.347 <td>583 lbs <th>(-3,032 lbs)</th> </td></td>	(-2,743 lbs)	4-5	0.347 <td>583 lbs <th>(-3,032 lbs)</th> </td>	583 lbs <th>(-3,032 lbs)</th>	(-3,032 lbs)
BC	5-6	0.577	2,814 lbs <th>(-448 lbs)</th> <td>6-8</td> <td>0.503</td> <td>1,951 lbs <td></td> </td>	(-448 lbs)	6-8	0.503	1,951 lbs <td></td>	
Web	2-8	0.081		(-421 lbs)	3-8	0.144	870 lbs	
					3-6	0.144	870 lbs	
					4-6	0.081		(-421 lbs)

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- Gable webs placed at 24" OC, U.N.O.
- Attach structural gable blocks with 2x4 20g plates, U.N.O.
- Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCEA.
- The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- A creep factor of 2.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Indicates non-structural members.
- Listed wind uplift reactions based on MWFRS & C&C loading.



WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Address 2

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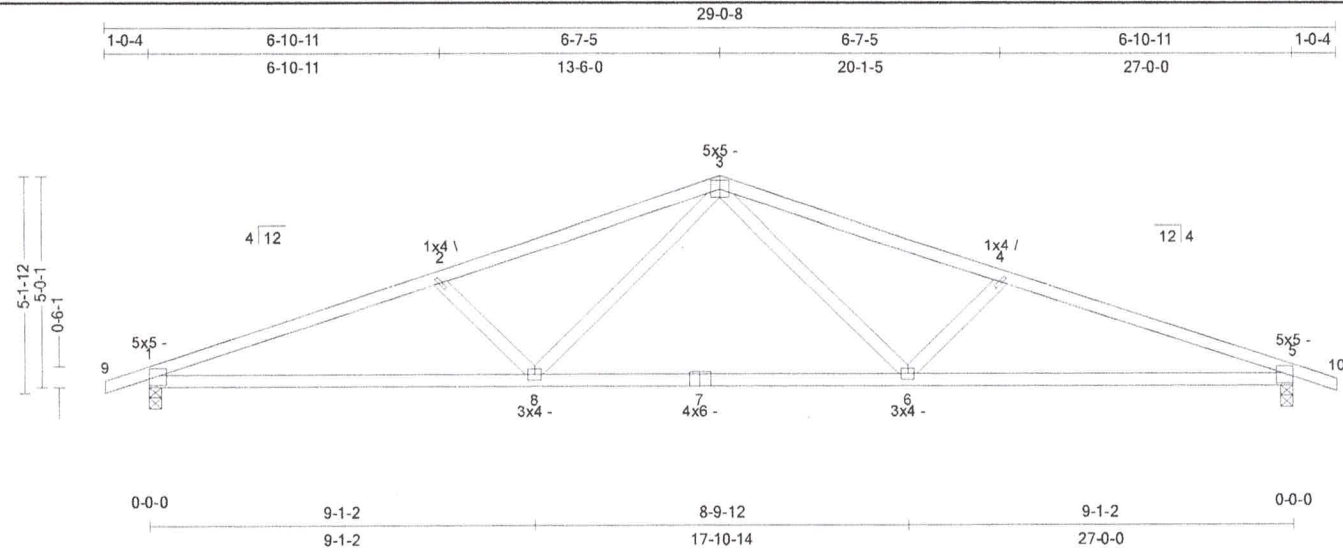
Truss: T01

Job: QU03648 RESERVE BUILDING J_REV

Date: 02/17/26 15:40:47

Page: 1 of 1

SPAN 27-0-0	PITCH 4/12	QTY 15	OHL 1-0-4	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 107 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.52 (2-3)	Vert TL: 0.48 in	L/661	(6-7)	L/240
TCDL: 10	TPI 1-2014	BC: 0.89 (8-1)	Vert LL: 0.16 in	L/999	7	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.14 (3-8)	Horz TL: 0.1 in		5	
BCDL: 10	Lumber D.O.L.: 115 %					

02/17/2026

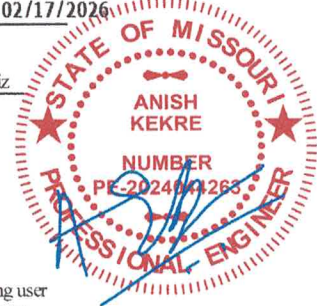
JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	1.67 in	1,411 lbs		-106 lbs	-319 lbs	-319 lbs	-4 lbs
5	1	3.5 in	1.67 in	1,411 lbs		-106 lbs	-319 lbs	-319 lbs	

Material

TC: SYP#1 2 x 4
 BC: SYP#1 2 x 4
 Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 3-4-0, Purlin design by Others.
 BC: Sheathed or Purlins at 9-6-0, Purlin design by Others.



Loads

- 1) This truss has been designed for the effects of balanced (14 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 3) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- 4) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force) Only forces greater than 300lbs are shown in this table.

TC	1-2	0.469	583 lbs (-3,032 lbs)	3-4	0.522	531 lbs (-2,743 lbs)			
	2-3	0.522	531 lbs (-2,743 lbs)	4-5	0.469	583 lbs (-3,032 lbs)			
BC	5-6	0.890	2,814 lbs (-448 lbs)	6-8	0.760	1,951 lbs	8-1	0.890	2,814 lbs (-448 lbs)
Web	2-8	0.081	(421 lbs)	3-8	0.144	870 lbs	3-6	0.144	870 lbs
							4-6	0.081	(421 lbs)

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- 3) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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 Eagle Metal Products

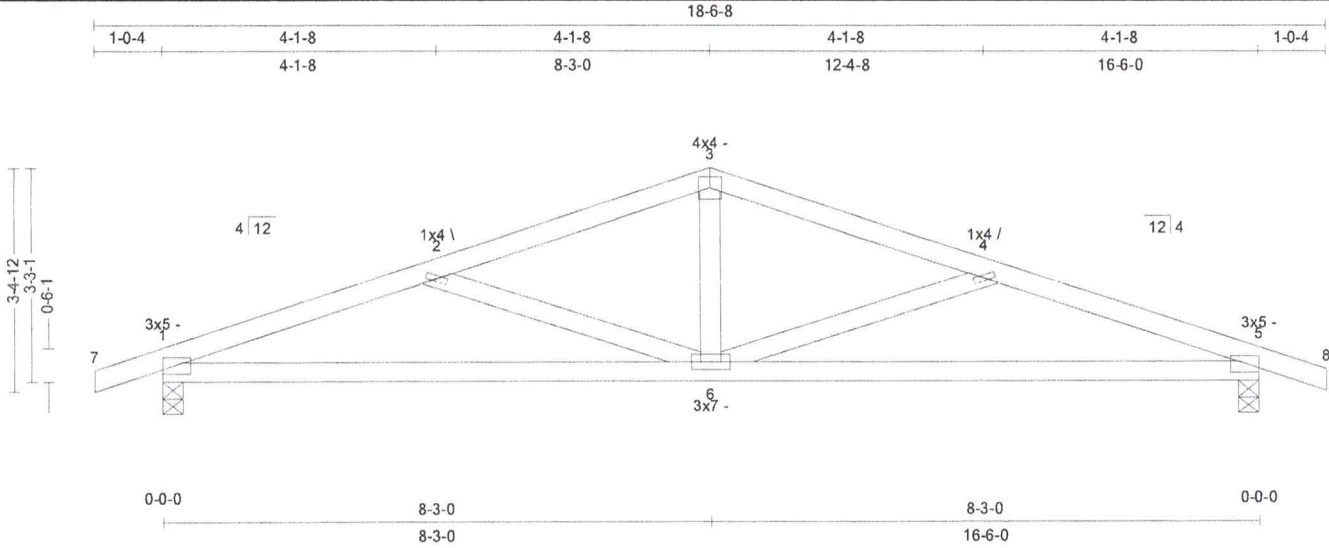
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:T02

Job: QU03648 RESERVE BUILDING J_REV
Date: 02/17/26 15:40:48
Page: 1 of 1

SPAN 16-6-0	PITCH 4/12	QTY 4	OHL 1-0-4	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 67 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.22 (4-5)	Vert TL: 0.17 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.63 (6-1)	Vert LL: 0.07 in	L/999	(5-6)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.13 (2-6)	Horz TL: 0.04 in		5	
BCDL: 10	Lumber D.O.L.: 115 %					

02/17/2026

Reaction

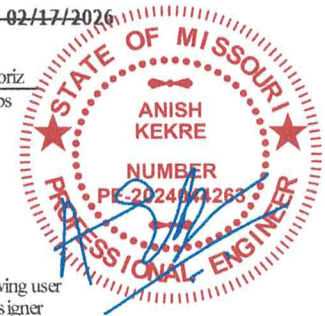
JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	1.50 in	886 lbs		-72 lbs	-338 lbs	-338 lbs	-5 lbs
5	1	3.5 in	1.50 in	886 lbs		-72 lbs	-338 lbs	-338 lbs	

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 4-11-0, Purlin design by Others.
BC: Sheathed or Purlins at 9-2-0, Purlin design by Others.



Loads

- This truss has been designed for the effects of balanced (14 psf) and unbalanced sloped roof snow loads in accordance with ASCE 7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (C_e = 1.0), Thermal (C_t = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- This truss has been designed for the effects of wind loads in accordance with ASCE 7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

Member	Force 1	Force 2	Force 3	Force 4	Force 5	Force 6	Force 7	Force 8	
TC	1-2	0.225	610 lbs	(-1,683 lbs)	3-4	0.207	446 lbs	(-1,352 lbs)	
	2-3	0.207	446 lbs	(-1,352 lbs)	4-5	0.225	610 lbs	(-1,683 lbs)	
BC	5-6	0.627	1,560 lbs	(-485 lbs)	6-1	0.627	1,560 lbs	(-485 lbs)	
Web	2-6	0.125	(-403 lbs)	3-6	0.088	534 lbs	4-6	0.125	(-403 lbs)

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- The fabrication tolerance for this roof truss is 20% (C_f = 0.80).
- Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- A creep factor of 2.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes.

This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent budding of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Eagle Metal Products

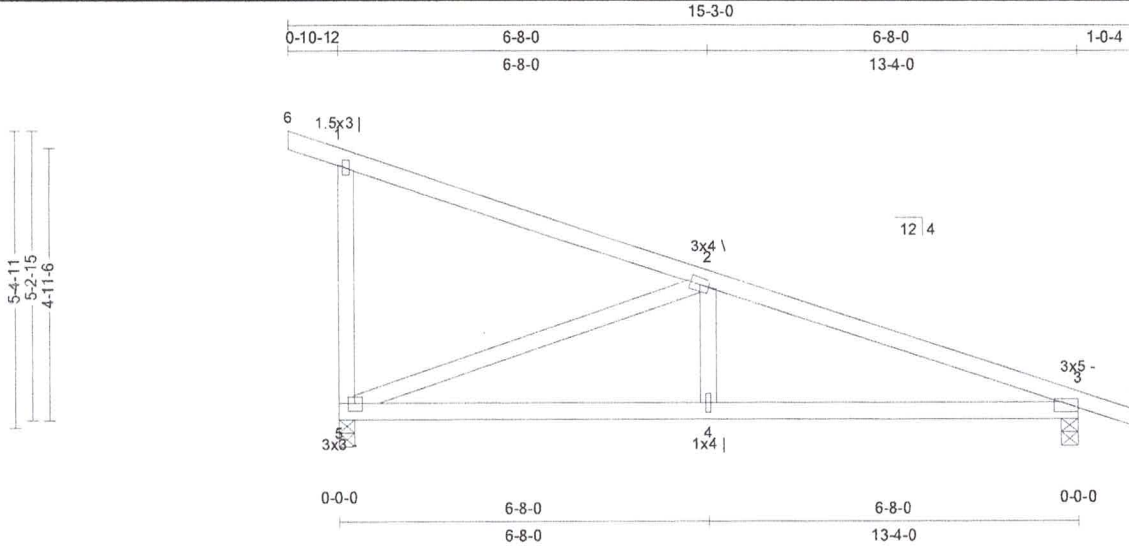
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss: T03

Job: QU03648_RESERVE BUILDING J_REV
Date: 02/17/26 15:40:49
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SPAN 13-4-0	PITCH -4/12	QTY 2	OHL 0-10-12	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 59 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL : 20	Bldg Code : IBC 2018/	TC : 0.50 (1-2)	Vert TL : 0.13 in	L/999	(4-5)	L/240
TCDL : 10	TPI 1-2014	BC : 0.61 (4-5)	Vert LL : 0.05 in	L/999	(4-5)	L/360
BCLL : 0	Rep Mbr : No	Web : 0.83 (2-5)	Horz TL : 0.02 in		3	
BCDL : 10	Lumber D.O.L. : 115 %					

02/17/2026

Reaction

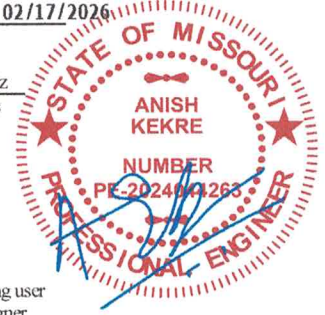
JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
5	1	3.5 in	1.50 in	728 lbs		-88 lbs	-363 lbs	-363 lbs	-178 lbs
3	1	3.5 in	1.50 in	720 lbs		-33 lbs	-310 lbs	-310 lbs	

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 5-3-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.



Loads

- 1) This truss has been designed for the effects of balanced (14 psf) and unbalanced sloped roof snow loads in accordance with ASCE 7 - 16 with the following user defined input: 20 psf G_{SL}, Terrain C, Exposure (C_e = 1.0), Thermal (C_t = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 3) This truss has been designed for the effects of wind loads in accordance with ASCE 7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- 4) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

Member	CSI	Tension (lbs)	Compression (lbs)
TC	2-3	0.466	356 lbs (-1,175 lbs)
BC	3-4	0.607	1,063 lbs
Web	2-5	0.828	502 lbs (-1,134 lbs)
	2-4	0.053	321 lbs

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this roof truss is 20 % (C_q = 0.80).
- 3) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes.

This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Eagle Metal Products

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

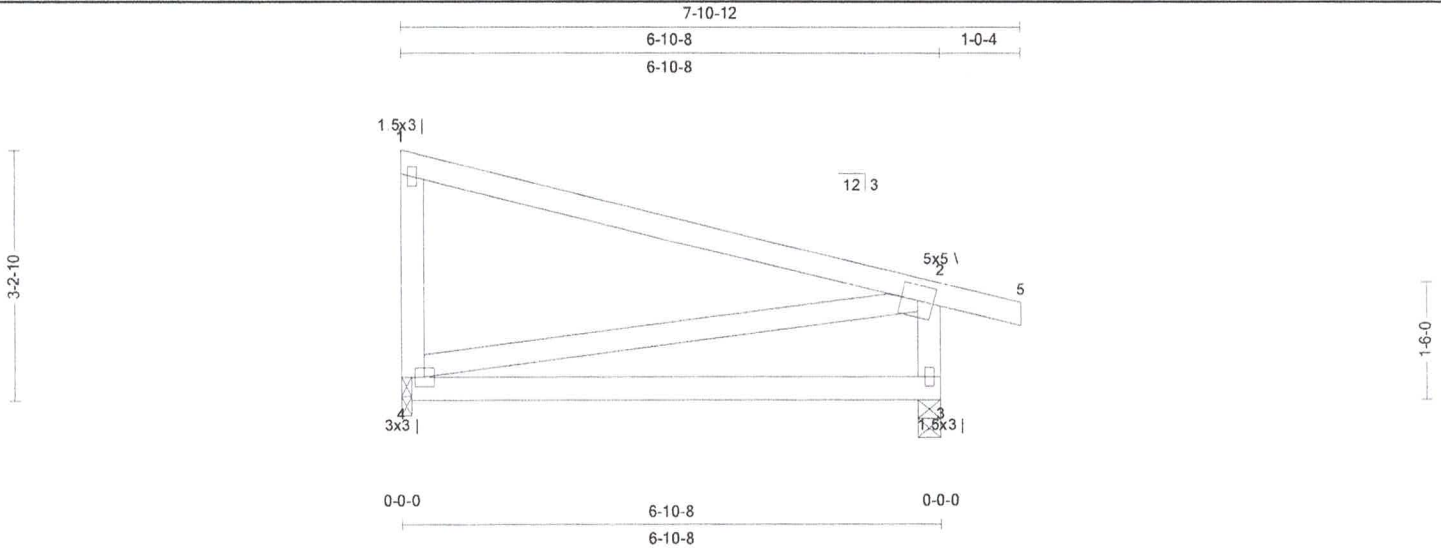
Truss: T04

Job: QU03648_RESERVE BUILDING J_REV

Date: 02/17/26 15:40:51

Page: 1 of 1

SPAN 6-10-8	PITCH -3/12	QTY 9	OHL 0-0-0	OHR 1-0-4	CANT L 0-0-0	CANT R 0-0-0	PLY(S) 1	SPACING 24 in	WGT/PLY 35 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.62 (1-2)	Vert TL: 0.21 in	L/377	(3-4)	L/240
TCDL: 10	TP1 1-2014	BC: 0.44 (3-4)	Vert LL: 0.1 in	L/755	(3-4)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.12 (1-4)	Horz TL: 0 in		4	
BCDL: 10	Lumber D.O.L.: 115 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
4	1	1.5 in	1.50 in	335 lbs		-39 lbs	-270 lbs	-270 lbs	
3	1	3.5 in	1.50 in	414 lbs		-38 lbs	-343 lbs	-343 lbs	-121 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 6-3-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

- 1) This truss has been designed for the effects of balanced (20 psf) sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has not been designed for the effects of unbalanced snow loads.
- 3) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 4) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- 5) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

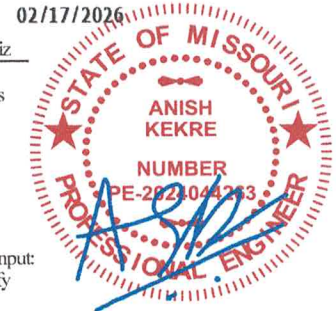
Member Forces

Table indicates: Member ID, max CSL, max tension force, (max compression force) Only forces greater than 300lbs are shown in this table.

TC	BC	Web
		2-3 0.063 385 lbs

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- 3) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 4) A creep factor of 2.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) Please refer to Eagle Metals Engineering Details sheet titled, Girder Ledger Detail.
- 7) Listed wind uplift reactions based on MWFRS & C&C loading.



WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Eagle Metal Products

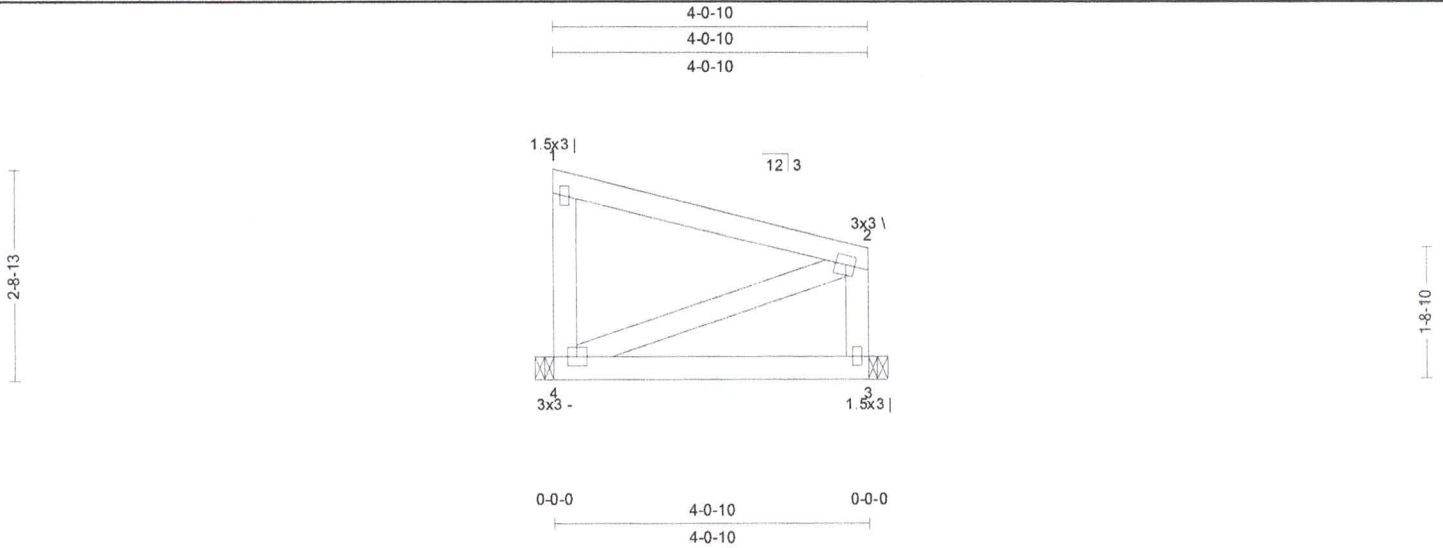
Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss: T06

Job: QU03648_RESERVE BUILDING J_REV
Date: 02/17/26 15:40:52
Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLY(S)	SPACING	WGT/PLY
4-0-10	-3/12	5	0-0-0	0-0-0	0-0-0	0-0-0	1	24 in	21 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.26 (1-2)	Vert TL: 0.02 in	L/999	(3-4)	L/240
TCDL: 10	TPI 1-2014	BC: 0.14 (3-4)	Vert LL: 0.01 in	L/999	(3-4)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.09 (1-4)	Horz TL: 0 in		4	
BCDL: 10	Lumber D.O.L.: 115%					

02/17/2026

Reaction

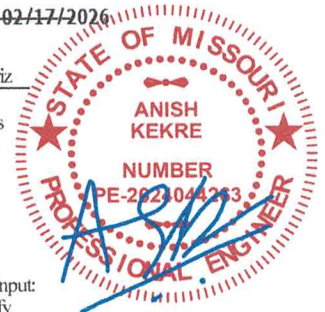
JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
4	1	3.5 in	1.50 in	203 lbs		-29 lbs	-208 lbs	-208 lbs	
3	1	3.5 in	1.50 in	203 lbs		-11 lbs	-143 lbs	-143 lbs	-92 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 6-3-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.



Loads

- This truss has been designed for the effects of balanced (20 psf) sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSI, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- This truss has not been designed for the effects of unbalanced snow loads.
- This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 115 mph (Factored), Exposure C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	BC	Web

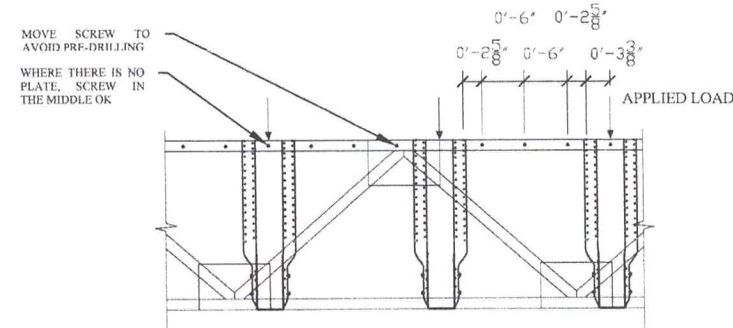
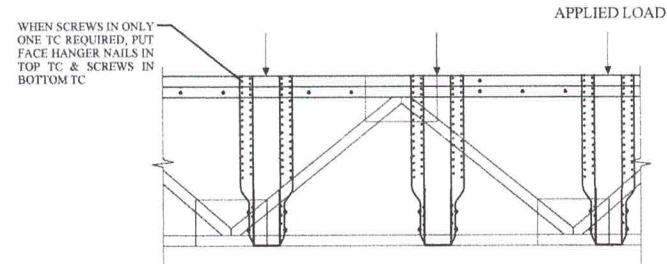
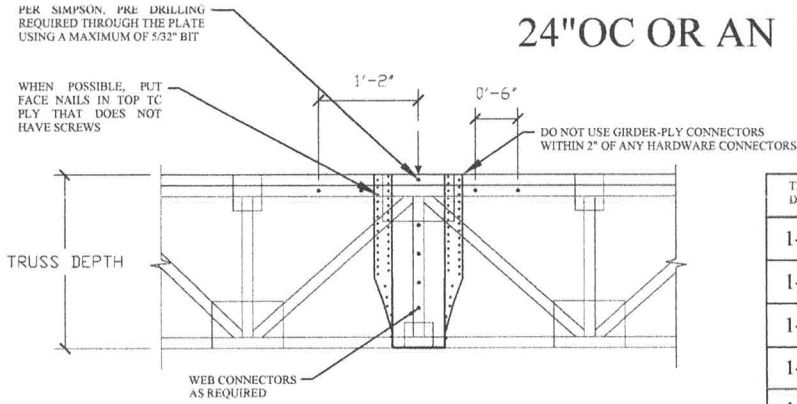
Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- Nailing schedule shall be specified by truss manufacturer per NDS.
- Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- A creep factor of 2.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes. This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent budding of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Eagle Metal Products

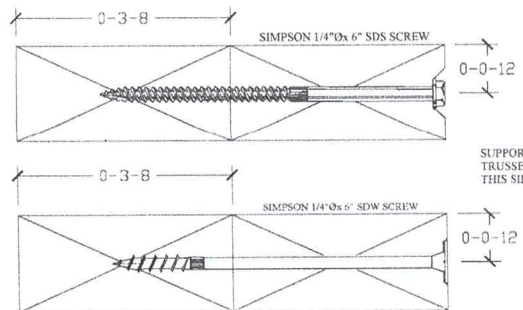
THA42X-2/THA4XX WITH TRUSSES @ 24"OC OR AN ISOLATED CONNECTION



1. TO TRANSFER UNIFORM LOADS APPLIED TO SIMPLY SUPPORTED SPANS ON ASSEMBLY TOP CHORD:
 - 1.1. SPACE SCREWS AS REQUIRED TO TRANSFER HALF THE LOAD INTO THE SUPPORTING TRUSS.
 - 1.2. MINIMUM SCREW SPACING SHALL BE 4" O.C.
2. TO TRANSFER CONCENTRATED LOADS APPLIED TO SIMPLY SUPPORTED SPANS ON AN ASSEMBLY TOP CHORD OR VERTICAL WEB:
 - 2.1. CONCENTRATED LOADS MUST BE APPLIED AT THE PANEL JOINTS.
 - 2.2. SCREWS TO BE INSTALLED WITHIN 12" OF THE CONCENTRATED LOAD ON TOP-CHORD ASSEMBLY
3. GAP BETWEEN THE TRUSSES SHALL NOT EXCEED 1/8" O.C.
4. FLOOR SHEATHING SHALL BE SCREWED OR NAILED TO EACH TOP-CHORD PLY. (FASTENER SPACING PER THE APPLICABLE CODE REQUIREMENTS, OR 12" O.C.)
5. SDW SCREWS SHALL NOT BE INSTALLED IN AREAS WHERE LUMBER WANE EXCEEDS 1/4".
6. HANGERS ON SKEWED GIRDERS:
 - 6.1. HANGER LOADS NOT EXCEEDING 34" O.C. ON A SKEWED GIRDER (RESULTING FROM UNIFORMLY SPACED JOISTS UP TO 24" O.C.) MAY BE CONVERTED TO A UNIFORM LOAD.
 - 6.2. OR GIRDER WITH HANGER LOAD SPACING IN EXCESS OF 34" O.C. THE LOADS SHALL BE CONSIDERED AS CONCENTRATED LOADS AT THE APPLICABLE LOCATIONS.
7. OTHER CONFIGURATIONS ACCEPTABLE AS LONG AS APPROVED BY TRUSS DESIGN ENGINEER.
8. CONNECTION HAS NO UP-LIFT CAPACITY

TRUSS DEPTH	TOTAL # SCREWS INTO TC (1)	AVAILABLE WEB SCREWS @ 4"OC	* WEB(S)	TOTAL SCREWS	SPFH CAPACITY	SP/DPL CAPACITY
1-0-0	3	1	0	3	1,200	1,680
1-0-0	3	1	1	4	1,600	2,240
1-0-0	3	1	2	5	2,000	2,800
1-0-0	3	1	3	6	2,400	3,360
1-0-0	6*	1	0	6*	2,400	3,360
1-2-0	3	1	0	3	1,200	1,680
1-2-0	3	1	1	4	1,600	2,240
1-2-0	3	1	2	5	2,000	2,800
1-2-0	3	1	3	6	2,400	3,360
1-2-0	6*	1	0	6*	2,400	3,360
1-4-0	3	2	0	3	1,200	1,680
1-4-0	3	2	1	5	2,000	2,800
1-4-0	3	2	2	7	2,800	3,920
1-4-0	6*	2	0	6*	2,400	3,360
1-6-0	3	3	0	3	1,200	1,680
1-6-0	3	3	1	6	2,400	3,360
1-6-0	6*	3	0	6*	2,800	3,360
1-8-0	3	3	0	3	1,200	1,680
1-8-0	3	3	1	6	2,400	3,360
1-8-0	6*	3	0	6*	2,400	3,360
1-10-0	3	3	0	3	1,200	1,680
1-10-0	3	3	1	6	2,400	3,360
1-10-0	6*	3	0	6*	2,400	3,360
2-0-0	3	4	0	3	1,200	1,680
2-0-0	3	4	1	7	2,800	3,920
2-0-0	6*	4	0	6*	2,400	3,360

* = DOUBLE TOP CHORD REQUIRED



MULTI-PLY GIRDER
CONNECTOR DETAIL

REV: 2.0
ENG: MDV
CAD: EEM
DATE: 07/12/16

DRAWING
NUMBER
DF-500