MiTek®

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Re: 251334
REUNION AT BLACKWELL/ Bldg D

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/20/2026 9:42:45

Joe Frogge

Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2026.01.20 09:43:25-06'00'

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Heartland Truss, LLC..

Pages or sheets covered by this seal: I78869129 thru I78869132

My license renewal date for the state of Missouri is December 31, 2026.

Missouri COA: Engineering 001193

January 7,2026

Lu, Jie ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D	
251334	A5A	Hip	1	1	Job Reference (optional)	I78869129

Heartland Truss, LLC, Plattsburg, MO

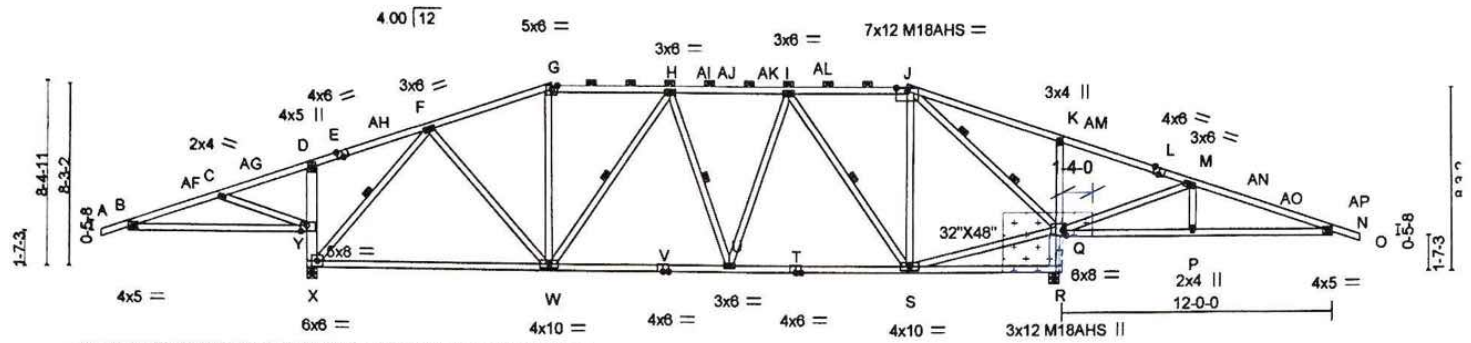
25 4 0 s Nov 25 2025 MiTek Industries, Inc. Wed Jan 7 09:07:32 2026 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-ABBGEGbI8rdiOpgOVlpzrG6M1p4_2q7PpUlvI4zxo79

-1-2-8	13-6-0	19-0-0	24-4-0	29-8-0	35-0-0	42-0-0	47-9-7	54-0-0	55-2-8
1-2-8	13-6-0	5-6-0	5-4-0	5-4-0	5-4-0	7-0-0	5-9-7	6-2-9	1-2-8

REPAIR
REMOVE 0-1-8 FROM Q-R

LUMBER AND CONNECTOR PLATES (SHOWN DASHED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.
6x8 PLATE AT JT. Q MUST REMAIN INTACT WITHOUT DISTURBANCE.

Scale = 1:102.7



ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE:
2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE
FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

INSTALL 2 X 4 SPF/DF/SP NO.2; CUT TO FIT TIGHT.
TRIM CORNER OF NEW MEMBER TO AVOID
DAMAGE TO EXISTING CONNECTOR PLATES.

8-0-0	19-0-0	27-0-0	35-0-0	42-0-0	47-9-7	54-0-0
8-0-0	11-0-0	8-0-0	8-0-0	7-0-0	5-9-7	6-2-9

Plate Offsets (X,Y)— [E:0-3-0,Edge], [J:0-6-0,0-1-11], [L:0-3-0,Edge], [Q:0-2-0,0-2-12], [Y:0-3-4,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.32	W-X	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.67	W-X	>603	240	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	R	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	W-X	>999	240	Weight: 325 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
J-L,L-O: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
D-X: 2x6 SP No.1, K-R: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-10 max.): G-J, D-X, K-R.
Except:
2-2-0 oc bracing: X-Y
3-3-0 oc bracing: Q-R
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt F-X, H-W, H-U, I-S
2 Rows at 1/3 pts J-Q

REACTIONS. (lb/size) X=1972/0-5-8, R=2493/0-5-8
Max Horz X=227(LC 12)
Max Uplift X=-590(LC 8), R=-759(LC 9)
Max Grav X=2311(LC 39), R=2920(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-AF=-460/661, C-AF=-448/713, C-AG=-685/1247, D-AG=-674/1361, D-E=-367/742, E-AH=-362/812, F-AH=-349/886, F-G=-1155/208, G-H=-1078/221, H-AI=-1293/241, AI-AJ=-1293/241, AJ-AK=-1293/241, AK-AL=-1293/241, I-AL=-1293/241, I-J=-607/174, J-K=-809/2032, K-AM=-893/2075, L-AM=-894/2052, L-M=-913/1915, M-AN=-496/942, AN-AO=-496/923, AO-AP=-506/844, N-AP=-514/844, X-Y=-929/384, D-Y=-602/207, Q-R=-2825/936, K-Q=-697/223
BOT CHORD B-Y=-617/469, W-X=-136/613, V-W=-140/1346, U-V=-140/1346, T-U=-122/1190, S-T=-122/1190, P-Q=-800/542, N-P=-800/542
WEBS F-W=-71/784, F-X=-1718/469, H-W=-478/115, I-U=-81/470, I-S=-1034/253, J-S=-195/975, Q-S=-30/721, M-P=-128/291, M-Q=-1154/488, J-Q=-2572/862, C-Y=-686/301

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-2-8 to 3-11-12, Interior(1) 3-11-12 to 11-4-6, Exterior(2R) 11-4-6 to 26-7-10, Interior(1) 26-7-10 to 35-0-0, Exterior(2E) 35-0-0 to 42-7-10, Interior(1) 42-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 590 lb uplift at joint X and 759 lb uplift at joint R.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

January 7,2026

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

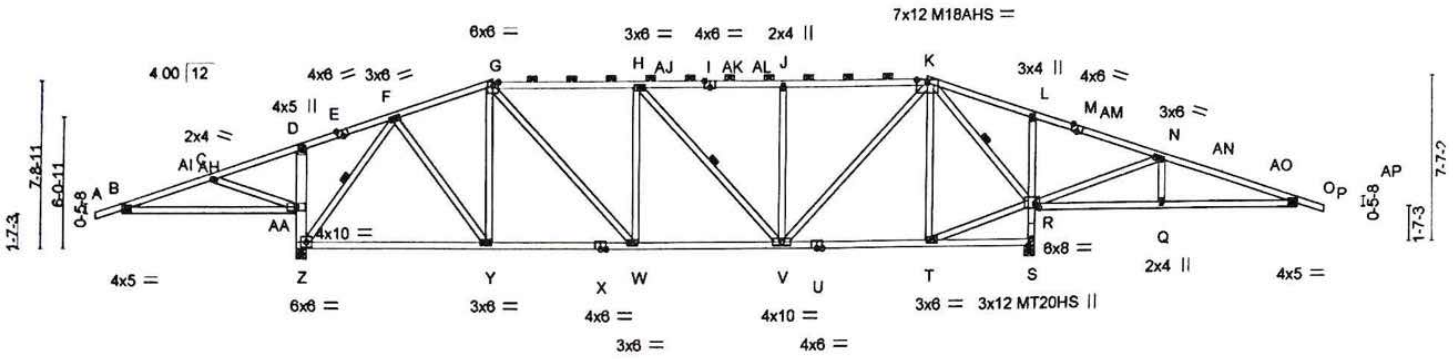
Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D	I78869130
251334	A6A	Hip	1	1	Job Reference (optional)	

Heartland Truss, LLC., Plattsburg, MO - 64477, 25.4.0 s Dec 15 2025 MiTek Industries, Inc. Tue Jan 6 12:46:18 2026 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-xSZFtHbbFyJHjta3JY?g7VJNjdqaqHW7UV?az8zy403

-1-2-8	4-2-9	8-0-0	12-6-0	17-0-0	23-7-7	30-4-9	37-0-0	42-0-0	47-9-7	54-0-0	55-2-8
1-2-8	4-2-9	3-9-7	4-6-0	4-6-0	6-7-7	6-9-3	6-7-7	5-0-0	5-9-7	6-2-9	1-2-8

Scale = 1:105.6

REFER TO MITEK REFERENCE NUMBER I78869129 FOR REPAIR DETAIL



8-0-0	17-0-0	23-7-7	30-4-9	37-0-0	42-0-0	47-9-7	54-0-0
8-0-0	9-0-0	6-7-7	6-9-3	6-7-7	5-0-0	5-9-7	6-2-9

Plate Offsets (X,Y)-- [E:0-3-0,Edge], [I:0-3-0,Edge], [K:0-6-0,0-1-11], [M:0-3-0,Edge], [R:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.14	Y-Z	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.31	Y-Z	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.04	S	n/a	n/a	M18AHS	186/179
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	V-W	>999	240	Weight: 326 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP 1650F 1.5E *Except* G-I,I-K: 2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* D-Z: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): G-K, D-Z, L-S. Except: 2-9-0 oc bracing: R-S 6-0-0 oc bracing: Z-AA
BOT CHORD	Rigid ceiling directly applied or 4-10-5 oc bracing.
WEBS	1 Row at midpt F-Z, H-V, K-R

REACTIONS. (size) Z=0-5-8, S=0-5-8
Max Horz Z=216(LC 12)
Max Uplift Z=-596(LC 8), S=-768(LC 9)
Max Grav Z=2274(LC 39), S=2873(LC 39)

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

TOP CHORD	B-C=-459/789, C-D=-687/1527, D-F=-367/986, F-G=-1160/195, G-H=-1630/267, H-J=-1406/257, J-K=-1409/259, K-L=-840/2233, L-N=-921/2274, N-O=-510/1063, Z-AA=-934/379, D-AA=-577/201, R-S=-2811/885, L-R=-572/184
BOT CHORD	B-AA=-669/468, Y-Z=-103/547, W-Y=-122/1108, V-W=-156/1627, T-V=-492/586, Q-R=-907/538, O-Q=-907/538
WEBS	C-AA=-773/305, F-Z=-1680/405, F-Y=-131/968, G-Y=-588/202, G-W=-145/776, H-W=-455/197, H-V=-400/128, J-V=-693/194, K-V=-269/1443, K-T=-86/326, R-T=-470/607, K-R=-2545/848, N-R=-1251/503, N-Q=-127/290

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-2-8 to 3-11-12, Interior(1) 3-11-12 to 17-0-0, Exterior(2E) 17-0-0 to 24-7-10, Interior(1) 24-7-10 to 37-0-0, Exterior(2E) 37-0-0 to 44-7-10, Interior(1) 44-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) Z=596, S=768.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

January 7,2026

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

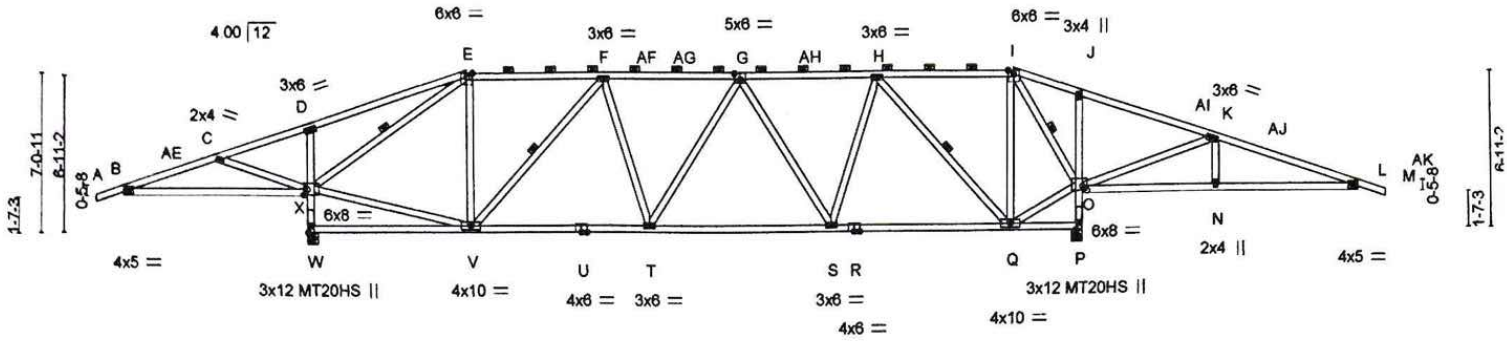
Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D	
251334	A7A	Hip	1	1	Job Reference (optional)	I78869131

Heartland Truss, LLC., Plattsburg, MO - 64477, 25.4.0 s Dec 15 2025 MiTek Industries, Inc. Tue Jan 6 12:46:19 2026 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-Pf7e4dcD0GR8L19GsFWvgjsZA19YZkRGj9l7Vbzy402

-1-2-8	4-2-9	8-0-0	15-0-0	21-0-0	27-0-0	33-0-0	39-0-0	42-0-0	47-9-7	54-0-0	55-2-8
1-2-8	4-2-9	3-9-7	7-0-0	6-0-0	6-0-0	6-0-0	6-0-0	3-0-0	5-9-7	6-2-9	1-2-8

Scale = 1:101.6

REFER TO MITEK REFERENCE NUMBER I78869129 FOR REPAIR DETAIL



8-0-0	15-0-0	23-0-0	31-0-0	39-0-0	42-0-0	47-9-7	54-0-0
8-0-0	7-0-0	8-0-0	8-0-0	8-0-0	3-0-0	5-9-7	6-2-9

Plate Offsets (X,Y)— [G:0-3-0,0-3-0], [O:0-2-8,0-2-4], [X:0-2-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.16	S-T	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.27	S-T	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	P	n/a	n/a		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	T	>999	240	Weight: 321 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP 1650F 1.5E *Except*
	E-G,G-I: 2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-4 max.): E-I, D-W, J-P. Except:
	2-8-0 oc bracing: W-X, O-P
BOT CHORD	Rigid ceiling directly applied or 4-3-8 oc bracing.
WEBS	1 Row at midpt E-X, F-V, H-Q, I-O

REACTIONS. (size) W=0-5-8, P=0-5-8
Max Horz W=204(LC 12)
Max Uplift W=-598(LC 8), P=-776(LC 9)
Max Grav W=2246(LC 29), P=2837(LC 39)

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

TOP CHORD	B-C=-475/1055, C-D=-670/1702, D-E=-583/1652, E-F=-1079/183, F-G=-1838/251, G-H=-1524/245, H-I=-342/1000, I-J=-856/2443, J-K=-928/2518, K-L=-509/1286, W-X=-2141/634, D-X=-634/210, O-P=-2834/867, J-O=-504/162
BOT CHORD	B-X=-921/484, T-V=-183/1786, S-T=-200/1846, Q-S=-339/1313, N-O=-1117/536, L-N=-1117/536
WEBS	C-X=-664/264, V-X=0/1113, E-X=-2192/569, E-V=-61/772, F-V=-1073/199, F-T=-49/272, G-T=-29/273, G-S=-625/207, H-S=-83/818, H-Q=-1766/338, I-Q=-451/1506, O-Q=-1098/660, I-O=-2672/917, K-O=-1278/515, K-N=-125/288

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-2-8 to 3-11-12, Interior(1) 3-11-12 to 15-0-0, Exterior(2E) 15-0-0 to 22-7-10, Interior(1) 22-7-10 to 39-0-0, Exterior(2E) 39-0-0 to 46-7-10, Interior(1) 46-7-10 to 49-9-11, Exterior(2E) 49-9-11 to 55-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) W=598, P=776.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

January 7,2026

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	REUNION AT BLACKWELL/ Bldg D	I78869132
251334	FL1	Flat Girder	2	2	Job Reference (optional)	

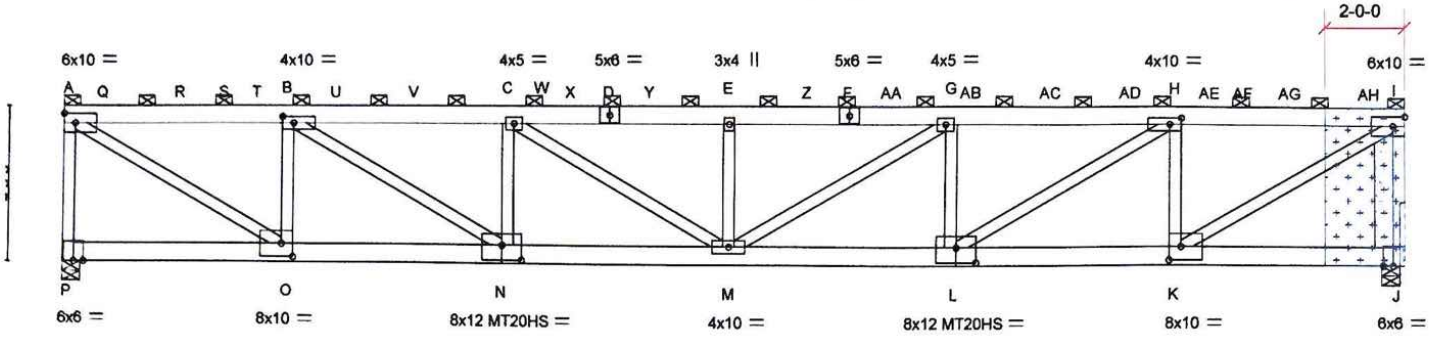
Heartland Truss, LLC., Plattsburg, MO - 64477, 25.4.0 s Dec 15 2025 MiTek Industries, Inc. Tue Jan 6 12:46:20 2026 Page 1
ID:qUFu7WFUwLTPCLe5ksDb08y7L5N-trh0HzdmaZ?yAjSQz28DwPjPRV0IF?PxpUh11zy401

5-9-3	11-4-9	17-0-0	22-7-7	28-2-13	34-0-0
5-9-3	5-7-7	5-7-7	5-7-7	5-7-7	5-9-3

REPAIR:
REMOVE 0-1-8 BY 1-7-3 SECTION OF RIGHT END VERTICAL STARTING AT JOINT J (ONE-PLY)

LUMBER AND CONNECTOR PLATES (SHOWN DASHED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.
6x10 PLATE AT JT. " I " MUST REMAIN INTACT WITHOUT DISTURBANCE.

Scale = 1:57.6



ATTACH < 2 LAYERS > 3/4" PLYWOOD OR OSB GUSSET (23/32" RATED SHEATHING 48/24 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 3.0") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE. GLUE PLYWOOD LAYERS TOGETHER PRIOR TO ATTACHING TO TRUSS.

INSTALL (2 PLY) 2 X 6 SPF/DF/SP NO.2 CUT TO FIT TIGHT. ATTACH PLIES WITH TWO ROWS OF (0.131 X 3") NAILS SPACED 9" O.C. TRIM CORNER OF NEW MEMBER TO AVOID DAMAGE TO EXISTING CONNECTOR PLATES.

5-9-3	11-4-9	17-0-0	22-7-7	28-2-13	34-0-0
5-9-3	5-7-7	5-7-7	5-7-7	5-7-7	5-9-3

Plate Offsets (X,Y)— [B:0-3-8,0-2-0], [H:0-3-8,0-2-0], [K:0-3-8,0-4-0], [L:0-6-0,0-4-8], [N:0-6-0,0-4-8], [O:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.38	M	>999	360	MT20	244/190
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.65	M	>625	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.10	J	n/a	n/a		
BCLL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.26	M	>999	240	Weight: 492 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
L-N: 2x6 SP 2400F 2.0E
WEBS 2x4 SP 2400F 2.0E *Except*
A-P,I-J: 2x4 SP No.2, B-O,C-N,E-M,G-L,H-K: 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (2-11-1 max.): A-I, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) J=0-5-8, P=0-5-8
Max Horz P=-129(LC 30)
Max Uplift J=-1035(LC 9), P=-1062(LC 8)
Max Grav J=6689(LC 2), P=6787(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-P=-6651/1151, A-B=-9083/1486, B-C=-14048/2334, C-E=-15852/2655, E-G=-15852/2655, G-H=-14004/2369, H-I=-8978/1552, I-J=-6555/1130
BOT CHORD N-O=-1481/9083, M-N=-2236/14172, L-M=-2252/14129, K-L=-1410/8978
WEBS A-O=-1789/10614, B-O=-5504/1042, B-N=-1011/5915, C-N=-2996/607, C-M=-350/1986, E-M=-2024/433, G-M=-321/2036, G-L=-3041/590, H-L=-973/5987, H-K=-5438/1001, I-K=-1731/10495

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-1-12, Exterior(2) 4-1-12 to 29-10-4, Corner(3) 29-10-4 to 33-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Bearing at joint(s) J, P considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=1035, P=1062.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

January 7,2026

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com