AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/09/2021

RELEASE FOR CONSTRUCTION

MiTek USA, Inc. 16023 Swinglev Ridge Rd Chesterfield, MO 63017 314-434-1200

RE: 210285 Lot 86 W0

Site Information:

Customer: Project Name: 210285 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 93 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1							2/12/2021
	144063917	A1	2/12/2021	21	144063937	E7	_,, _ ; _ ; _ ;
2	144063918	A2	2/12/2021	22	144063938	E8	2/12/2021
3	I44063919	A3	2/12/2021	23	144063939	E9	2/12/2021
4	144063920	B1	2/12/2021	24	144063940	G1	2/12/2021
5	144063921	B2	2/12/2021	25	l44063941	G2	2/12/2021
6	144063922	B3	2/12/2021	26	l44063942	G3	2/12/2021
7	144063923	C1	2/12/2021	27	144063943	G5	2/12/2021
8	144063924	C2	2/12/2021	28	144063944	G6	2/12/2021
9	144063925	C3	2/12/2021	29	144063945	G7	2/12/2021
10	144063926	C4	2/12/2021	30	l44063946	G8	2/12/2021
11	144063927	C5	2/12/2021	31	l44063947	G9	2/12/2021
12	144063928	C6	2/12/2021	32	144063948	G10	2/12/2021
13	144063929	D1	2/12/2021	33	144063949	H1	2/12/2021
14	144063930	D2	2/12/2021	34	144063950	J1	2/12/2021
15	144063931	E1	2/12/2021	35	l44063951	J2	2/12/2021
16	144063932	E2	2/12/2021	36	144063952	J3	2/12/2021
17	144063933	E3	2/12/2021	37	144063953	J4	2/12/2021
18	144063934	E4	2/12/2021	38	144063954	J5	2/12/2021
19	144063935	E5	2/12/2021	39	144063955	J6	2/12/2021
20	144063936	E6	2/12/2021	40	144063956	J7	2/12/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

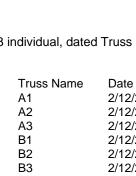
Truss Design Engineer's Name: Liu, Xuegang

My license renewal date for the state of Kansas is April 30, 2022. Kansas COA: E-943

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



Liu, Xuegang





RE: 210285 - Lot 86 W0

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03/09/2021

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Project Customer: Project Name: 210285 Lot/Block: Address: City, County:

Subdivision:

Seal#

State:

No.

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No. Seal# Truss Name Date 41 144063957 J8 2/12/2021 42 144063958 J9 2/12/2021 43 144063960 J11 2/12/2021 44 144063960 J11 2/12/2021 45 144063962 J13 2/12/2021 46 144063963 J14 2/12/2021 47 144063964 J15 2/12/2021 48 144063965 J16 2/12/2021 50 144063966 J17 2/12/2021 51 144063967 J18 2/12/2021 52 144063967 J20 2/12/2021 53 144063970 J21 2/12/2021 54 144063973 J24 2/12/2021 55 144063976 J25A 2/12/2021 56 144063977 J26 2/12/2021 57 144063978 J27 2/12/2021 61 144063978 J27 2/12/2021				
42 144063958 J9 2/12/2021 43 144063959 J10 2/12/2021 44 144063960 J11 2/12/2021 45 144063962 J13 2/12/2021 46 144063962 J13 2/12/2021 47 144063963 J14 2/12/2021 48 144063965 J16 2/12/2021 49 144063966 J17 2/12/2021 50 144063966 J17 2/12/2021 51 144063966 J19 2/12/2021 52 144063968 J19 2/12/2021 53 144063970 J21 2/12/2021 54 144063971 J22 2/12/2021 55 144063973 J24 2/12/2021 56 144063975 J25 2/12/2021 57 144063976 J25A 2/12/2021 58 144063977 J26 2/12/2021 61 144063980 J29 2/12/2021 62 144063981 J30 2/12/2021 6	No.	Seal#		
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49144063965J162/12/202150144063966J172/12/202151144063967J182/12/202152144063968J192/12/202153144063970J212/12/202154144063970J212/12/202155144063971J222/12/202156144063973J242/12/202157144063973J242/12/202158144063974J24A2/12/202159144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063984J332/12/202167144063985J342/12/202168144063986J352/12/202170144063986J352/12/202171144063987J362/12/202172144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063995K12/12/202179144063996K22/12/202180144063997K32/12/2021 <td>47</td> <td></td> <td>J14</td> <td>2/12/2021</td>	47		J14	2/12/2021
50144063966J172/12/202151144063967J182/12/202152144063968J192/12/202153144063970J212/12/202154144063970J212/12/202155144063971J222/12/202156144063973J242/12/202157144063974J24A2/12/202158144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063983J322/12/202167144063984J332/12/202168144063984J332/12/202170144063984J332/12/202171144063987J362/12/202172144063987J382/12/202173144063989J382/12/202174144063991J402/12/202175144063993J422/12/202176144063994J432/12/202177144063995K12/12/202178144063996K22/12/202179144063997K32/12/202180144063996K22/12/202181144063997K32/12/2021<	48	144063964	J15	2/12/2021
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52 144063968 J19 2/12/2021 53 144063969 J20 2/12/2021 54 144063970 J21 2/12/2021 55 144063971 J22 2/12/2021 56 144063972 J23 2/12/2021 57 144063973 J24 2/12/2021 58 144063974 J24A 2/12/2021 59 144063976 J25A 2/12/2021 60 144063976 J25A 2/12/2021 61 144063977 J26 2/12/2021 62 144063978 J27 2/12/2021 63 144063979 J28 2/12/2021 64 144063980 J29 2/12/2021 65 144063981 J30 2/12/2021 66 144063983 J32 2/12/2021 67 144063984 J33 2/12/2021 68 144063987 J36 2/12/2021 70 144063987 J36 2/12/2021 71 144063989 J38 2/12/2021 <t< td=""><td>50</td><td>144063966</td><td>J17</td><td>2/12/2021</td></t<>	50	144063966	J17	2/12/2021
53144063969J202/12/202154144063970J212/12/202155144063971J222/12/202156144063972J232/12/202157144063973J242/12/202158144063974J24A2/12/202159144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063983J322/12/202167144063984J332/12/202168144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063990J392/12/202174144063991J402/12/202175144063993J422/12/202176144063994J432/12/202177144063995K12/12/202178144063996K22/12/202180144063997K32/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	51	144063967	J18	2/12/2021
54144063970J212/12/202155144063971J222/12/202156144063972J232/12/202157144063973J242/12/202158144063974J24A2/12/202159144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063983J322/12/202167144063984J332/12/202168144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063991J402/12/202175144063992J412/12/202176144063993J422/12/202177144063995K12/12/202178144063995K12/12/202179144063997K32/12/202180144063997K32/12/202181144063997K32/12/202182144063997K32/12/202183144063998K42/12/202183144063999LAY12/12/2021 </td <td>52</td> <td>144063968</td> <td>J19</td> <td>2/12/2021</td>	52	144063968	J19	2/12/2021
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56I44063972J232/12/202157I44063973J242/12/202158I44063974J24A2/12/202159I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063990J392/12/202174I44063991J402/12/202175I44063993J422/12/202176I44063994J432/12/202178I44063995K12/12/202179I44063996K22/12/202180I44063997K32/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	54	144063970	J21	2/12/2021
57I44063973J242/12/202158I44063974J24A2/12/202159I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063991J402/12/202175I44063993J422/12/202176I44063994J432/12/202177I44063995K12/12/202178I44063996K22/12/202180I44063997K32/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	55	l44063971	J22	2/12/2021
58I44063974J24A2/12/202159I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202178I44063995K12/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	56	144063972	J23	2/12/2021
59I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202168I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202177I44063995K12/12/202178I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	57	144063973	J24	2/12/2021
59I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202168I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202177I44063995K12/12/202178I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	58	144063974	J24A	2/12/2021
61144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063993J422/12/202177144063994J432/12/202178144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	59	144063975		2/12/2021
62144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063993J422/12/202177144063994J432/12/202178144063995K12/12/202180144063997K32/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	60	144063976	J25A	2/12/2021
63144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063995K12/12/202179144063996K22/12/202180144063997K32/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	61	144063977	J26	2/12/2021
64144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	62	144063978	J27	2/12/2021
65I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063994J432/12/202178I44063995K12/12/202180I44063997K32/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	63	144063979	J28	2/12/2021
66I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202177I44063994J432/12/202178I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	64	144063980	J29	2/12/2021
67I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063995K12/12/202179I44063996K22/12/202180I44063997K32/12/202181I44063998K42/12/202183I44063999LAY12/12/2021	65	I44063981	J30	2/12/2021
68I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063997K32/12/202181I44063998K42/12/202183I44063999LAY12/12/2021	66	144063982	J31	2/12/2021
69I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	67	144063983	J32	2/12/2021
70I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	68	144063984	J33	2/12/2021
71I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	69	144063985	J34	2/12/2021
72I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	70	144063986	J35	2/12/2021
73I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	71	144063987	J36	2/12/2021
74144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063994J432/12/202179144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	72	l44063988	J37	2/12/2021
75I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	73	l44063989	J38	2/12/2021
76144063992J412/12/202177144063993J422/12/202178144063994J432/12/202179144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	74	144063990	J39	2/12/2021
77I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	75	l44063991	J40	2/12/2021
78 I44063994 J43 2/12/2021 79 I44063995 K1 2/12/2021 80 I44063996 K2 2/12/2021 81 I44063997 K3 2/12/2021 82 I44063998 K4 2/12/2021 83 I44063999 LAY1 2/12/2021	76	144063992	J41	2/12/2021
79I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	77	I44063993	J42	2/12/2021
80I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	78	144063994	J43	2/12/2021
81I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	79	144063995		2/12/2021
82I44063998K42/12/202183I44063999LAY12/12/2021	80	144063996	K2	2/12/2021
83 I44063999 LAY1 2/12/2021	81	144063997		2/12/2021
	82	144063998	K4	2/12/2021
84 I44064000 LAY2 2/12/2021	83	144063999	LAY1	2/12/2021
	84	144064000	LAY2	2/12/2021

Seal#	Truss Name	Date
144064001	LAY3	2/12/2021
144064002	LAY4	2/12/2021
144064003	LAY6	2/12/2021
144064004	LAY7	2/12/2021
144064005	LAY8	2/12/2021
144064006	V1	2/12/2021
144064007	V2	2/12/2021
144064008	V3	2/12/2021
144064009	V4	2/12/2021

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

03/09/2021

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

RE: 210285 Lot 86 W0

liTek

Site Information:

Customer: Project Name: 210285 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 93 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	144063917	A1	2/12/2021	21	144063937	E7	2/12/2021
2	144063918	A2	2/12/2021	22	144063938	E8	2/12/2021
3	144063919	A3	2/12/2021	23	144063939	E9	2/12/2021
4	144063920	B1	2/12/2021	24	144063940	G1	2/12/2021
5	144063921	B2	2/12/2021	25	I44063941	G2	2/12/2021
6	144063922	B3	2/12/2021	26	144063942	G3	2/12/2021
7	144063923	C1	2/12/2021	27	144063943	G5	2/12/2021
8	144063924	C2	2/12/2021	28	144063944	G6	2/12/2021
9	144063925	C3	2/12/2021	29	144063945	G7	2/12/2021
10	144063926	C4	2/12/2021	30	144063946	G8	2/12/2021
11	144063927	C5	2/12/2021	31	144063947	G9	2/12/2021
12	144063928	C6	2/12/2021	32	144063948	G10	2/12/2021
13	144063929	D1	2/12/2021	33	144063949	H1	2/12/2021
14	144063930	D2	2/12/2021	34	144063950	J1	2/12/2021
15	144063931	E1	2/12/2021	35	144063951	J2	2/12/2021
16	144063932	E2	2/12/2021	36	144063952	J3	2/12/2021
17	144063933	E3	2/12/2021	37	144063953	J4	2/12/2021
18	144063934	E4	2/12/2021	38	144063954	J5	2/12/2021
19	144063935	E5	2/12/2021	39	144063955	J6	2/12/2021
20	144063936	E6	2/12/2021	40	144063956	J7	2/12/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Liu, Xuegang

My license renewal date for the state of Missouri is December 31, 2022. Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.





RE: 210285 - Lot 86 W0

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

03/09/2021

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Project Customer: Project Name: 210285 Lot/Block: Address: City, County:

Subdivision:

Seal#

State:

No.

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88 89

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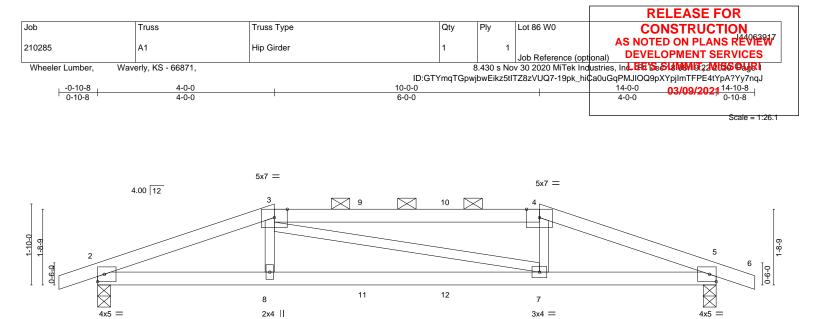
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No. Seal# Truss Name Date 41 144063957 J8 2/12/2021 42 144063958 J9 2/12/2021 43 144063960 J11 2/12/2021 44 144063960 J11 2/12/2021 45 144063962 J13 2/12/2021 46 144063963 J14 2/12/2021 47 144063963 J14 2/12/2021 48 144063965 J16 2/12/2021 50 144063966 J17 2/12/2021 51 144063967 J18 2/12/2021 52 144063967 J20 2/12/2021 53 144063970 J21 2/12/2021 54 144063973 J24 2/12/2021 55 144063976 J25A 2/12/2021 56 144063977 J26 2/12/2021 57 144063978 J27 2/12/2021 61 144063978 J27 2/12/2021				
42 144063958 J9 2/12/2021 43 144063959 J10 2/12/2021 44 144063960 J11 2/12/2021 45 144063962 J13 2/12/2021 46 144063962 J13 2/12/2021 47 144063963 J14 2/12/2021 48 144063965 J16 2/12/2021 49 144063966 J17 2/12/2021 50 144063966 J17 2/12/2021 51 144063966 J19 2/12/2021 52 144063968 J19 2/12/2021 53 144063970 J21 2/12/2021 54 144063971 J22 2/12/2021 55 144063973 J24 2/12/2021 56 144063975 J25 2/12/2021 57 144063976 J25A 2/12/2021 58 144063977 J26 2/12/2021 61 144063980 J29 2/12/2021 62 144063981 J30 2/12/2021 6	No.	Seal#		
43144063959J102/12/202144144063960J112/12/202145144063961J122/12/202146144063962J132/12/202147144063963J142/12/202148144063964J152/12/202149144063965J162/12/202150144063966J172/12/202151144063967J182/12/202152144063968J192/12/202153144063970J212/12/202154144063971J222/12/202156144063973J242/12/202157144063973J242/12/202158144063976J25A2/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063981J302/12/202165144063984J332/12/202166144063985J342/12/202167144063986J352/12/202170144063986J352/12/202171144063987J362/12/202172144063987J362/12/202173144063989J382/12/202174144063991J402/12/202175144063993J422/12/202176144063995K12/12/2021 </td <td></td> <td>144063957</td> <td></td> <td></td>		144063957		
44144063960J11 $2/12/2021$ 45144063961J12 $2/12/2021$ 46144063962J13 $2/12/2021$ 47144063963J14 $2/12/2021$ 48144063965J16 $2/12/2021$ 50144063966J17 $2/12/2021$ 51144063967J18 $2/12/2021$ 52144063968J19 $2/12/2021$ 53144063970J21 $2/12/2021$ 54144063971J22 $2/12/2021$ 55144063973J24 $2/12/2021$ 56144063974J24A $2/12/2021$ 57144063975J25 $2/12/2021$ 58144063976J25A $2/12/2021$ 60144063976J25A $2/12/2021$ 61144063978J27 $2/12/2021$ 62144063978J29 $2/12/2021$ 63144063981J30 $2/12/2021$ 64144063981J30 $2/12/2021$ 65144063984J33 $2/12/2021$ 6614063985J34 $2/12/2021$ 67144063986J35 $2/12/2021$ 70144063986J35 $2/12/2021$ 71144063987J36 $2/12/2021$ 72144063984J33 $2/12/2021$ 73144063985J34 $2/12/2021$ 74144063980J39 $2/12/2021$ 75144063981J36 $2/12/2021$ 76144063985J38 $2/12/2021$ <				_,, _ ;
45144063961J12 $2/12/2021$ 46144063962J13 $2/12/2021$ 47144063963J14 $2/12/2021$ 48144063964J15 $2/12/2021$ 49144063965J16 $2/12/2021$ 50144063966J17 $2/12/2021$ 51144063967J18 $2/12/2021$ 52144063968J19 $2/12/2021$ 53144063969J20 $2/12/2021$ 54144063970J21 $2/12/2021$ 55144063971J22 $2/12/2021$ 56144063973J24 $2/12/2021$ 57144063974J24A $2/12/2021$ 58144063975J25 $2/12/2021$ 60144063976J25A $2/12/2021$ 61144063978J27 $2/12/2021$ 62144063978J27 $2/12/2021$ 63144063980J29 $2/12/2021$ 64144063981J30 $2/12/2021$ 65144063983J32 $2/12/2021$ 66144063984J33 $2/12/2021$ 67144063985J34 $2/12/2021$ 70144063987J36 $2/12/2021$ 71144063987J36 $2/12/2021$ 73144063987J36 $2/12/2021$ 74144063989J37 $2/12/2021$ 75144063984J33 $2/12/2021$ 74144063987J36 $2/12/2021$ 75144063989J38 $2/12/2021$ <		144063959	J10	2/12/2021
46 144063962 J13 2/12/2021 47 144063963 J14 2/12/2021 48 144063965 J16 2/12/2021 49 144063965 J16 2/12/2021 50 144063966 J17 2/12/2021 51 144063967 J18 2/12/2021 52 144063969 J20 2/12/2021 53 144063970 J21 2/12/2021 54 144063970 J22 2/12/2021 55 144063971 J22 2/12/2021 56 144063973 J24 2/12/2021 57 144063974 J24A 2/12/2021 58 144063975 J25 2/12/2021 61 144063976 J25A 2/12/2021 62 144063979 J28 2/12/2021 64 144063980 J29 2/12/2021 65 144063981 J30 2/12/2021 66 144063983 J32 2/12/2021 66 144063986 J35 2/12/2021 <td< td=""><td>44</td><td>144063960</td><td>J11</td><td></td></td<>	44	144063960	J11	
47144063963J14 $2/12/2021$ 48144063964J15 $2/12/2021$ 49144063965J16 $2/12/2021$ 50144063966J17 $2/12/2021$ 51144063967J18 $2/12/2021$ 52144063968J19 $2/12/2021$ 53144063970J21 $2/12/2021$ 54144063971J22 $2/12/2021$ 55144063973J24 $2/12/2021$ 56144063974J24A $2/12/2021$ 57144063975J25 $2/12/2021$ 58144063976J25A $2/12/2021$ 60144063977J26 $2/12/2021$ 61144063978J27 $2/12/2021$ 62144063978J27 $2/12/2021$ 63144063980J29 $2/12/2021$ 64144063981J30 $2/12/2021$ 65144063984J33 $2/12/2021$ 66144063984J33 $2/12/2021$ 67144063985J34 $2/12/2021$ 68144063986J35 $2/12/2021$ 70144063987J36 $2/12/2021$ 71144063987J38 $2/12/2021$ 72144063987J38 $2/12/2021$ 73144063987J38 $2/12/2021$ 74144063991J40 $2/12/2021$ 75144063993J42 $2/12/2021$ 76144063994J43 $2/12/2021$ 77144063995K1 $2/12/2021$ <t< td=""><td>45</td><td>l44063961</td><td>J12</td><td>2/12/2021</td></t<>	45	l44063961	J12	2/12/2021
48144063964J15 $2/12/2021$ 49144063965J16 $2/12/2021$ 50144063966J17 $2/12/2021$ 51144063967J18 $2/12/2021$ 52144063968J19 $2/12/2021$ 53144063970J21 $2/12/2021$ 54144063970J21 $2/12/2021$ 55144063971J22 $2/12/2021$ 56144063973J24 $2/12/2021$ 57144063973J24 $2/12/2021$ 58144063974J24A $2/12/2021$ 59144063975J25 $2/12/2021$ 60144063976J25A $2/12/2021$ 61144063977J26 $2/12/2021$ 62144063978J27 $2/12/2021$ 63144063979J28 $2/12/2021$ 64144063980J29 $2/12/2021$ 65144063981J30 $2/12/2021$ 66144063984J33 $2/12/2021$ 67144063985J34 $2/12/2021$ 68144063986J35 $2/12/2021$ 70144063987J36 $2/12/2021$ 71144063989J38 $2/12/2021$ 73144063991J40 $2/12/2021$ 74144063992J41 $2/12/2021$ 75144063993J42 $2/12/2021$ 76144063994J43 $2/12/2021$ 77144063995K1 $2/12/2021$ 78144063996K2 $2/12/2021$ <	46	144063962	J13	2/12/2021
49144063965J162/12/202150144063966J172/12/202151144063967J182/12/202152144063968J192/12/202153144063970J212/12/202154144063970J212/12/202155144063971J222/12/202156144063973J242/12/202157144063973J242/12/202158144063974J24A2/12/202159144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063984J332/12/202167144063985J342/12/202168144063986J352/12/202170144063986J352/12/202171144063987J362/12/202172144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063995K12/12/202179144063996K22/12/202180144063997K32/12/2021 <td>47</td> <td></td> <td>J14</td> <td>2/12/2021</td>	47		J14	2/12/2021
50144063966J172/12/202151144063967J182/12/202152144063968J192/12/202153144063970J212/12/202154144063970J212/12/202155144063971J222/12/202156144063973J242/12/202157144063974J24A2/12/202158144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063983J322/12/202167144063984J332/12/202168144063984J332/12/202170144063984J332/12/202171144063987J362/12/202172144063987J382/12/202173144063989J382/12/202174144063991J402/12/202175144063993J422/12/202176144063994J432/12/202177144063995K12/12/202178144063996K22/12/202179144063997K32/12/202180144063996K22/12/202181144063997K32/12/2021<	48	144063964	J15	2/12/2021
51144063967J182/12/202152144063968J192/12/202153144063969J202/12/202154144063970J212/12/202155144063971J222/12/202156144063972J232/12/202157144063973J242/12/202158144063976J25A2/12/202160144063976J25A2/12/202161144063978J272/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063983J322/12/202167144063984J332/12/202168144063984J332/12/202170144063985J342/12/202171144063986J352/12/202172144063987J362/12/202173144063989J382/12/202174144063991J402/12/202175144063993J422/12/202176144063993J422/12/202177144063994J432/12/202178144063995K12/12/202179144063996K22/12/202180144063997K32/12/202181144063997K32/12/202182144063998K42/12/2021<	49	144063965	J16	2/12/2021
52 144063968 J19 2/12/2021 53 144063969 J20 2/12/2021 54 144063970 J21 2/12/2021 55 144063971 J22 2/12/2021 56 144063972 J23 2/12/2021 57 144063973 J24 2/12/2021 58 144063974 J24A 2/12/2021 59 144063976 J25A 2/12/2021 60 144063976 J25A 2/12/2021 61 144063977 J26 2/12/2021 62 144063978 J27 2/12/2021 63 144063979 J28 2/12/2021 64 144063980 J29 2/12/2021 65 144063981 J30 2/12/2021 66 144063983 J32 2/12/2021 67 144063984 J33 2/12/2021 68 144063987 J36 2/12/2021 70 144063987 J36 2/12/2021 71 144063989 J38 2/12/2021 <t< td=""><td>50</td><td>144063966</td><td>J17</td><td>2/12/2021</td></t<>	50	144063966	J17	2/12/2021
53144063969J202/12/202154144063970J212/12/202155144063971J222/12/202156144063972J232/12/202157144063973J242/12/202158144063974J24A2/12/202159144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063983J322/12/202167144063984J332/12/202168144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063990J392/12/202174144063991J402/12/202175144063993J422/12/202176144063994J432/12/202177144063995K12/12/202178144063996K22/12/202180144063997K32/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	51	144063967	J18	2/12/2021
54144063970J212/12/202155144063971J222/12/202156144063972J232/12/202157144063973J242/12/202158144063974J24A2/12/202159144063975J252/12/202160144063976J25A2/12/202161144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063983J322/12/202167144063984J332/12/202168144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063991J402/12/202175144063992J412/12/202176144063993J422/12/202177144063995K12/12/202178144063995K12/12/202179144063996K22/12/202180144063997K32/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	52	144063968	J19	2/12/2021
55I44063971J222/12/202156I44063972J232/12/202157I44063973J242/12/202158I44063974J24A2/12/202159I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063983J322/12/202167I44063984J332/12/202168I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063991J402/12/202175I44063993J422/12/202176I44063994J432/12/202177I44063995K12/12/202178I44063996K22/12/202180I44063997K32/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	53	144063969	J20	2/12/2021
56I44063972J232/12/202157I44063973J242/12/202158I44063974J24A2/12/202159I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063990J392/12/202174I44063991J402/12/202175I44063993J422/12/202176I44063994J432/12/202178I44063995K12/12/202179I44063996K22/12/202180I44063997K32/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	54	144063970	J21	2/12/2021
57I44063973J242/12/202158I44063974J24A2/12/202159I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063991J402/12/202175I44063993J422/12/202176I44063994J432/12/202177I44063995K12/12/202178I44063996K22/12/202180I44063997K32/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	55	l44063971	J22	2/12/2021
58I44063974J24A2/12/202159I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202178I44063995K12/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	56	144063972	J23	2/12/2021
59I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202168I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202177I44063995K12/12/202178I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	57	144063973	J24	2/12/2021
59I44063975J252/12/202160I44063976J25A2/12/202161I44063977J262/12/202162I44063978J272/12/202163I44063979J282/12/202164I44063980J292/12/202165I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202168I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202177I44063995K12/12/202178I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	58	144063974	J24A	2/12/2021
61144063977J262/12/202162144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063993J422/12/202177144063995K12/12/202178144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	59	144063975		2/12/2021
62144063978J272/12/202163144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063993J422/12/202177144063994J432/12/202178144063995K12/12/202180144063997K32/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	60	144063976	J25A	2/12/2021
63144063979J282/12/202164144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	61	144063977	J26	2/12/2021
64144063980J292/12/202165144063981J302/12/202166144063982J312/12/202167144063983J322/12/202168144063984J332/12/202169144063985J342/12/202170144063986J352/12/202171144063987J362/12/202172144063988J372/12/202173144063989J382/12/202174144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	62	144063978	J27	2/12/2021
65I44063981J302/12/202166I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063994J432/12/202178I44063995K12/12/202180I44063997K32/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	63	144063979	J28	2/12/2021
66I44063982J312/12/202167I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063993J422/12/202177I44063994J432/12/202178I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	64	144063980	J29	2/12/2021
67I44063983J322/12/202168I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063995K12/12/202179I44063996K22/12/202180I44063997K32/12/202181I44063998K42/12/202183I44063999LAY12/12/2021	65	I44063981	J30	2/12/2021
68I44063984J332/12/202169I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063997K32/12/202181I44063998K42/12/202183I44063999LAY12/12/2021	66	144063982	J31	2/12/2021
69I44063985J342/12/202170I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	67	144063983	J32	2/12/2021
70I44063986J352/12/202171I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	68	144063984	J33	2/12/2021
71I44063987J362/12/202172I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	69	144063985	J34	2/12/2021
72I44063988J372/12/202173I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	70	144063986	J35	2/12/2021
73I44063989J382/12/202174I44063990J392/12/202175I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	71	144063987	J36	2/12/2021
74144063990J392/12/202175144063991J402/12/202176144063992J412/12/202177144063993J422/12/202178144063994J432/12/202179144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	72	l44063988	J37	2/12/2021
75I44063991J402/12/202176I44063992J412/12/202177I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	73	l44063989	J38	2/12/2021
76144063992J412/12/202177144063993J422/12/202178144063994J432/12/202179144063995K12/12/202180144063996K22/12/202181144063997K32/12/202182144063998K42/12/202183144063999LAY12/12/2021	74	144063990	J39	2/12/2021
77I44063993J422/12/202178I44063994J432/12/202179I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	75	l44063991	J40	2/12/2021
78 I44063994 J43 2/12/2021 79 I44063995 K1 2/12/2021 80 I44063996 K2 2/12/2021 81 I44063997 K3 2/12/2021 82 I44063998 K4 2/12/2021 83 I44063999 LAY1 2/12/2021	76	144063992	J41	2/12/2021
79I44063995K12/12/202180I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	77	I44063993	J42	2/12/2021
80I44063996K22/12/202181I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	78	144063994	J43	2/12/2021
81I44063997K32/12/202182I44063998K42/12/202183I44063999LAY12/12/2021	79	144063995		2/12/2021
82I44063998K42/12/202183I44063999LAY12/12/2021	80	144063996	K2	2/12/2021
83 I44063999 LAY1 2/12/2021	81	144063997		2/12/2021
	82	144063998	K4	2/12/2021
84 I44064000 LAY2 2/12/2021	83	144063999	LAY1	2/12/2021
	84	144064000	LAY2	2/12/2021

Seal#	Truss Name	Date
144064001	LAY3	2/12/2021
144064002	LAY4	2/12/2021
144064003	LAY6	2/12/2021
144064004	LAY7	2/12/2021
144064005	LAY8	2/12/2021
144064006	V1	2/12/2021
144064007	V2	2/12/2021
144064008	V3	2/12/2021
144064009	V4	2/12/2021



10-0-0

6-0-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

7-8

7-8

7-8

5

-0.09

-0.21

0.05

0.08

REACTIONS. (size) 2=0-3-8, 5=0-3-8 Max Horz 2=-28(LC 9) Max Uplift 2=-263(LC 4), 5=-263(LC 5) Max Grav 2=1024(LC 1), 5=1024(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2374/529, 3-4=-2098/508, 4-5=-2314/516 TOP CHORD

4-0-0

4-0-0

2-0-0

1.15

1.15

NO

CSI.

TC

BC

WB

Matrix-S

0.69

0.78

0.16

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

BOT CHORD

2-8=-480/2189, 7-8=-483/2164, 5-7=-442/2121 WFBS 3-8=0/399, 4-7=0/415

2x4 SPF No.2 *Except*

2x4 SPF No.2

2x3 SPF No.2

3-4: 2x4 SPF 2100F 1.8E

4x5 =

NOTES-

LOADING (psf)

25.0

10.0

0.0

10.0

TCLL

TCDL

BCLL

BCDI

WEBS

LUMBER-

TOP CHORD

BOT CHORD

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 2 and 263 lb uplift at ioint 5.

7) 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.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 72 lb up at 4-0-0, 83 lb down and 72 lb up at 6-0-12, and 83 lb down and 72 lb up at 7-11-4, and 83 lb down and 72 lb up at 10-0-0 on top chord, and 212 lb down and 69 lb up at 4-0-0, 36 lb down at 6-0-12, and 36 lb down at 7-11-4, and 212 lb down and 69 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

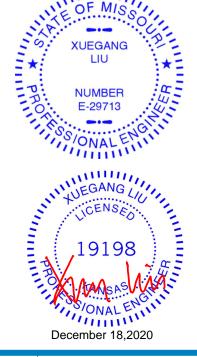
LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITeK connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ALLIN

14-0-0

4-0-0

Structural wood sheathing directly applied or 3-8-3 oc purlins, except

PLATES

Weight: 42 lb

MT20

GRIP

197/144

FT = 10%

L/d

360

240

n/a

240

Rigid ceiling directly applied or 8-5-5 oc bracing.

2-0-0 oc purlins (4-2-15 max.): 3-4.

l/defl

>999

>784

>999

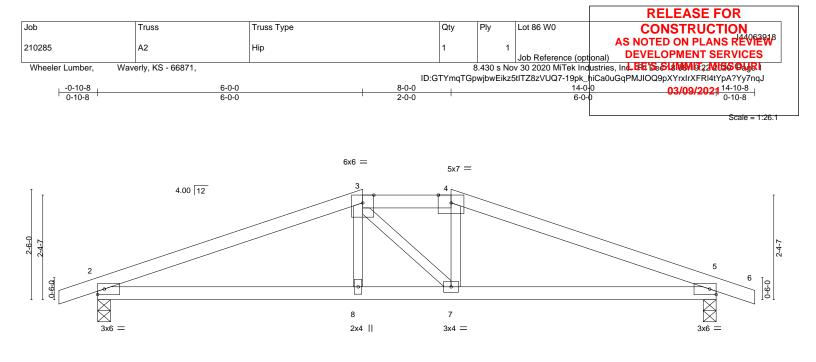
n/a



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	A1	Hip Girder	1	1		AS NOTED ON PLANS REVIEW
210200					Job Reference (opt	
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s No	v 30 2020 MiTek Ind	ustries, Inc. EE SeSI MMOT22 MISS OUB
		ID:GT`	YmqTGpw	jbwEikz5tľ	TZ8zVUQ7-19pk_hi0	a0uGqPMJIOQ9pXYpjImTFPE4tYpA?Yy7nqJ
						03/09/2021
()						
LOAD CASE(S) Standard		ID:GT	r mq i Gpw	JDWEIKZ5tI	IZ8ZVUQ7-19pk_niu	

Vert: 3=-53(F) 4=-53(F) 8=-212(F) 7=-212(F) 9=-53(F) 10=-53(F) 11=-18(F) 12=-18(F)





	6-0-0 6-0-0		8-0-0 2-0-0		<u>14-0-0</u> 6-0-0		—
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.55	DEFL. Vert(LL)	in (loc) -0.04 2-8	I/defl L/d >999 360		GRIP 97/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.45 WB 0.06 Matrix-S	Vert(CT) Horz(CT) Wind(LL)	-0.10 2-8 0.02 5 0.03 2-8	>999 240 n/a n/a >999 240	Weight: 40 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS

2x3 SPF No.2 REACTIONS. 2=0-3-8, 5=0-3-8 (size) Max Horz 2=39(LC 8)

Max Uplift 2=-141(LC 4), 5=-141(LC 5)

Max Grav 2=688(LC 1), 5=688(LC 1)

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

2-3=-1163/158, 3-4=-1022/182, 4-5=-1164/157 TOP CHORD

BOT CHORD 2-8=-117/1026, 7-8=-119/1021, 5-7=-88/1027

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

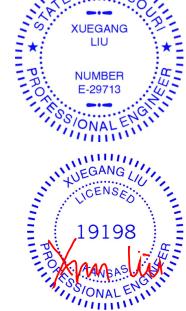
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 2 and 141 lb uplift at ioint 5.

7) 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.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



11111

XUEGANG

0

MI

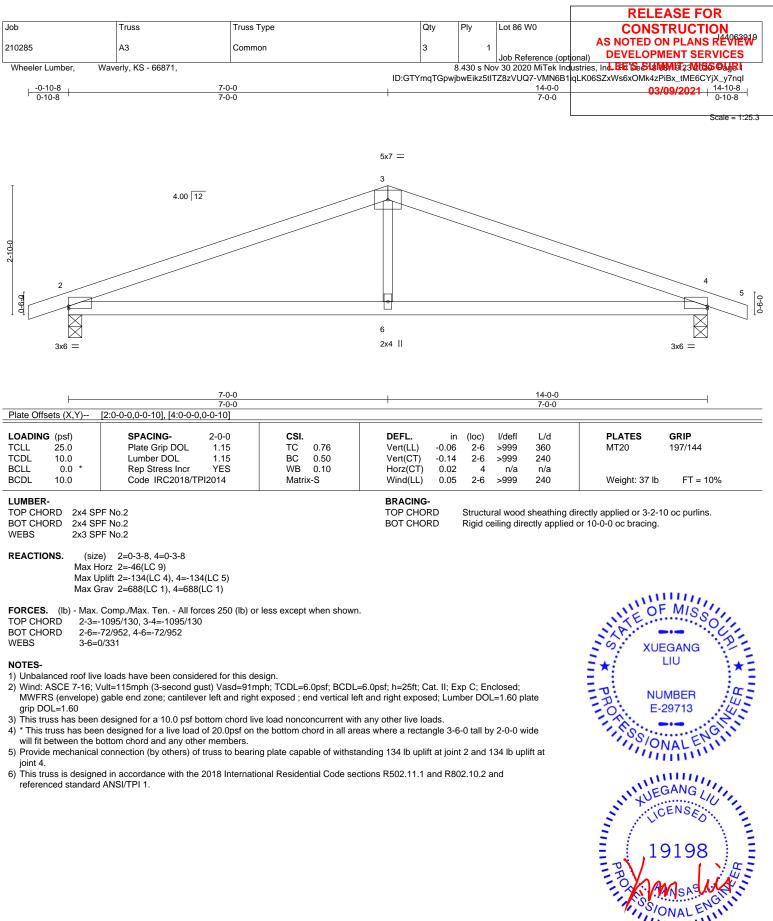
Structural wood sheathing directly applied or 4-3-1 oc purlins, except

2-0-0 oc purlins (5-7-1 max.): 3-4.

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

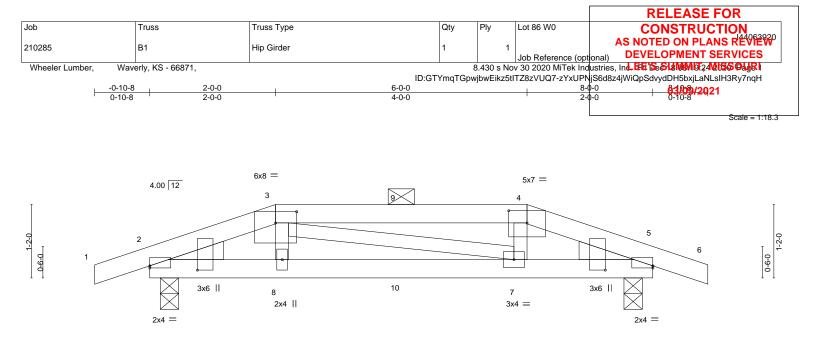
December 18,2020







MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	0 <mark>-2-</mark> ρ	2-0-0		6-0-0				7-10-0	<u>8-0-</u> 0 0-2-0	
	0-2-0	1-10-0		4-0-0			1	1-10-0	0-2-0	
Plate Offsets (X,Y)	[2:0-0-13,0-9-1], [2	:0-0-0,0-0-6], [3:0-4-	0,0-2-3], [4:0-3-8,0-2-5], [5	5:Edge,0-0-6], [5:0	-0-13,0	-9-1]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip D Lumber DOI Rep Stress Code IRC2	_ 1.15	CSI. TC 0.36 BC 0.20 WB 0.04 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.03 0.01 0.01	(loc) 7-8 7-8 5 7-8	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 27 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SF	PF No.2 PF No.2 PF No.2 PF No.2 Light: 2x4 SPF No.2			BRACING- TOP CHOR BOT CHOR		2-0-0 o	c purlins	(6-0-0 max.):	rectly applied or 6-0-0 3-4. or 10-0-0 oc bracing.	oc purlins, except

REACTIONS. (size) 2=0-3-8, 5=0-3-8 Max Horz 2=17(LC 29)

Max Uplift 2=-114(LC 4), 5=-114(LC 5) Max Grav 2=418(LC 1), 5=418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-613/108. 3-4=-531/99. 4-5=-615/107 BOT CHORD 2-8=-71/521, 7-8=-66/529, 5-7=-78/524

NOTES-

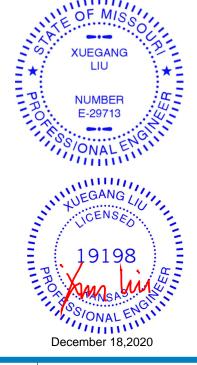
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 114 lb uplift at joint 5.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 107 lb down and 89 lb up at 2-0-0, and 54 lb down and 33 lb up at 4-0-0, and 107 lb down and 89 lb up at 6-0-0 on top chord, and 8 lb down at 2-0-0, and 8 lb down at 4-0-0, and 8 lb down at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

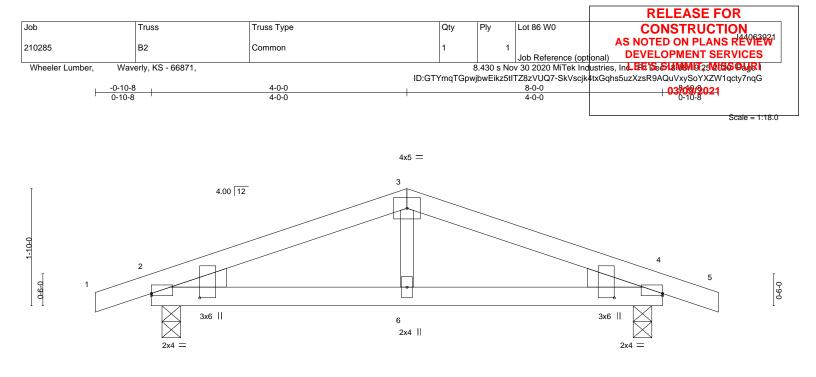
Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



11111





	0 <u>-2-ρ</u> 0-2-0	4-0-0 3-10-0		<u>7-10-0</u> 3-10-0	<u>8-0-</u> ρ 0-2-0	
Plate Offsets (X,Y)	[2:0-0-0,0-0-6], [2:0-0-13,0-9-1], [4:Ec	lge,0-0-6], [4:0-0-13,0-9-1]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.24 BC 0.21 WB 0.06 Matrix-P	DEFL. in Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) 0.01 Wind(LL) 0.01	2-6 >999 36 2-6 >999 24	40 /a	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SI	PF No.2 PF No.2 PF No.2 tight: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD		athing directly applied or 6-0-0 applied or 10-0-0 oc bracing.	oc purlins.
Max U	te) 2=0-3-8, 4=0-3-8 Horz 2=29(LC 8) Jplift 2=-96(LC 4), 4=-96(LC 5) Grav 2=418(LC 1), 4=418(LC 1)				IN E OF	MISS
TOP CHORD 2-3=	. Comp./Max. Ten All forces 250 (lb) -513/41, 3-4=-513/41 -8/427, 4-6=-8/427	or less except when shown.				GANG

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

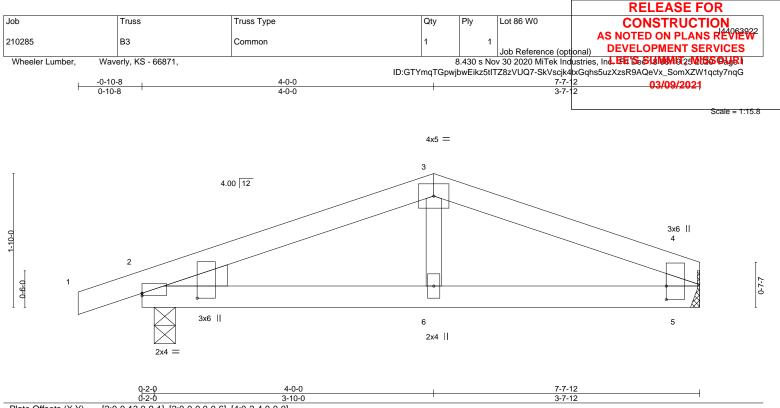
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 2 and 96 lb uplift at joint 4.

6) 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.







OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl	L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.01	2-6 >999	360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.03	2-6 >999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	5 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01	2-6 >999	240	Weight: 21 lb FT = 10%

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 4-5: 2x6 SPF No.2 WEDGE

Left: 2x4 SPF No.2

REACTIONS.	(size)	2=0-3-8, 5=Mechanical
	Max Horz	2=32(LC 8)
	Max Uplift	2=-95(LC 4), 5=-46(LC 5)
	Max Grav	2=404(LC 1), 5=322(LC 1)

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

TOP CHORD 2-3=-479/60, 3-4=-462/59, 4-5=-269/64

BOT CHORD 2-6=-29/398, 5-6=-29/398

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

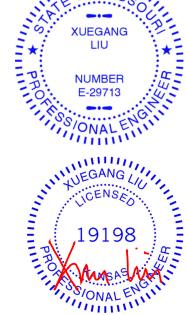
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 46 lb uplift at joint 5.

7) 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.



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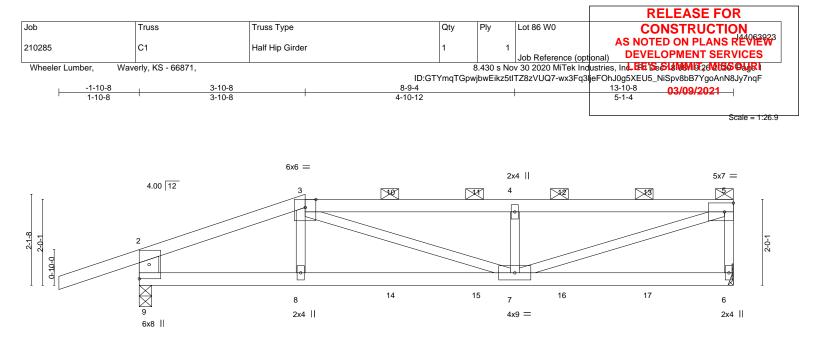
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

December 18,2020





		10-8 10-8			8-9-4 4-10-12					<u>13-10-8</u> 5-1-4	
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.10	7-8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.21	7-8	>785	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TI	PI2014	Matrix	<-S	Wind(LL)	0.10	7-8	>999	240	Weight: 47 lb	FT = 10%

LUMBER-

2x4 SPF 2100F 1.8E *Except* TOP CHORD 3-5: 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-9: 2x6 SP DSS

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-4 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 9=0-3-8 Max Horz 9=87(LC 5) Max Uplift 6=-160(LC 5), 9=-253(LC 4) Max Grav 6=720(LC 1), 9=878(LC 1)

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

- 2-3=-1160/247, 3-4=-1498/345, 4-5=-1495/344, 5-6=-663/188, 2-9=-753/246 TOP CHORD
- BOT CHORD 8-9=-264/1024, 7-8=-270/1024
- WEBS 3-7=-114/502, 4-7=-505/235, 5-7=-350/1523

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 6 and 253 lb uplift at joint 9.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 167 lb down and 129 lb up at 3-10-8, 76 lb down and 57 lb up at 5-11-4, 76 lb down and 57 lb up at 7-11-4, and 76 lb down and 57 lb up at 9-11-4, and 76 lb down and 57 lb up at 11-11-4 on top chord, and 69 lb down at 3-10-8, 28 lb down at 5-11-4, 28 lb down at 7-11-4, and 28 lb down at 9-11-4, and 28 lb down at 11-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITeK connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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December 18,2020



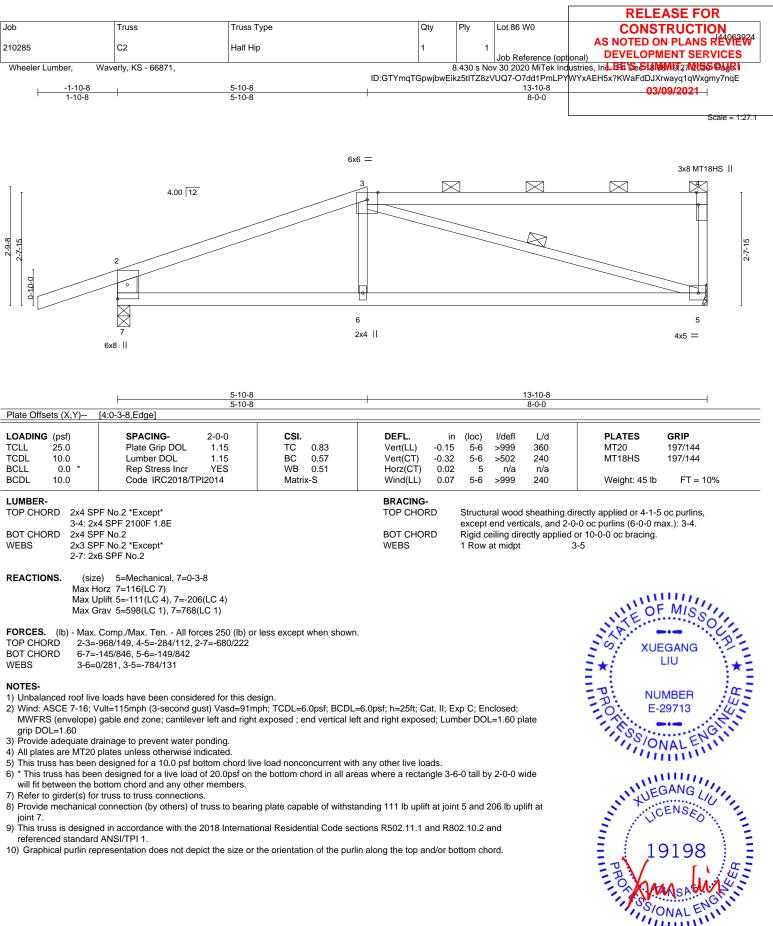
						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210285	C1	Half Hip Girder	1		1	AS NOTED ON PLANS REVIEW
210200					Job Reference (opt	
Wheeler Lumber, V	/averly, KS - 66871,			8.430 s N	lov 30 2020 MiTek Inc	ustries, Ind. EE SeSI 18 19 19 26 19 26 19 26 19 26 19 26 19 26 19 26 19 26 19 26 19 26 19 26 19 26 19 26 19 26
			ID:GTYmqTGp	vjbwEikz5	5tITZ8zVUQ7-wx3Fq3	jeFOhJ0g5XEU5_NiSpv8bB7YgoAnN8Jy7nqF
						03/09/2021
LOAD CASE(S) Stand						
 Dead + Roof Live (bag) 	lanced): Lumber Increa	se=1.15, Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 6-9=-20

Concentrated Loads (lb)

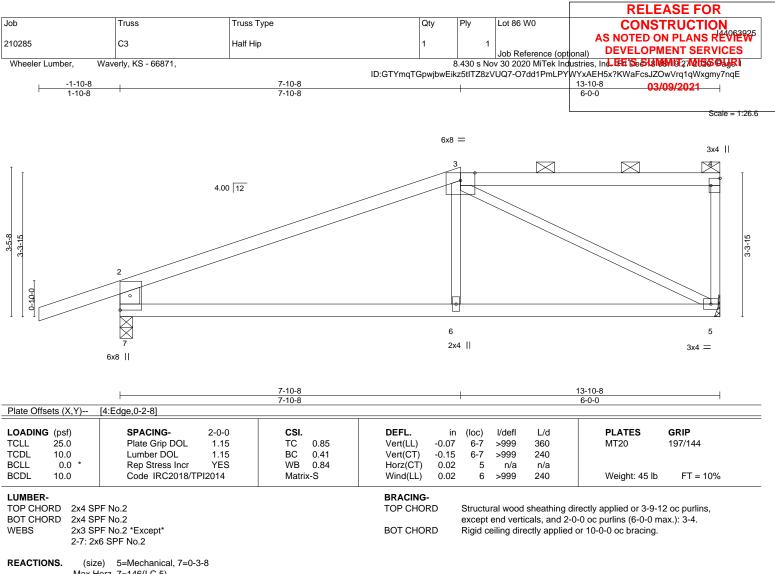
Vert: 3=-50(F) 8=-22(F) 10=-27(F) 11=-27(F) 12=-27(F) 13=-27(F) 14=-13(F) 15=-13(F) 16=-13(F) 17=-13(F)





40000 December 18,2020





Max Horz 7=146(LC 5) Max Uplift 5=-113(LC 4), 7=-203(LC 4) Max Grav 5=598(LC 1), 7=768(LC 1)

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

TOP CHORD 2-3=-837/135, 2-7=-689/248

BOT CHORD 6-7=-122/704, 5-6=-125/699

WEBS 3-6=0/298, 3-5=-757/141

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

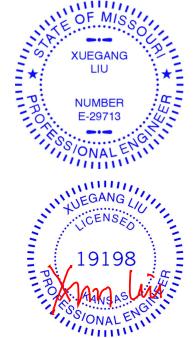
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 5 and 203 lb uplift at joint 7.

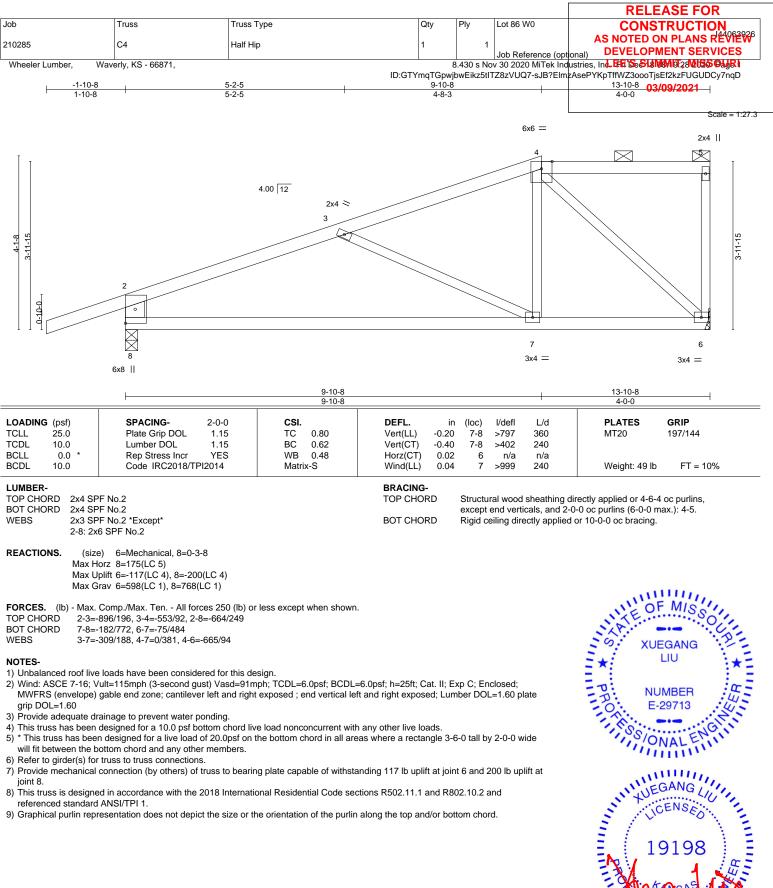
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



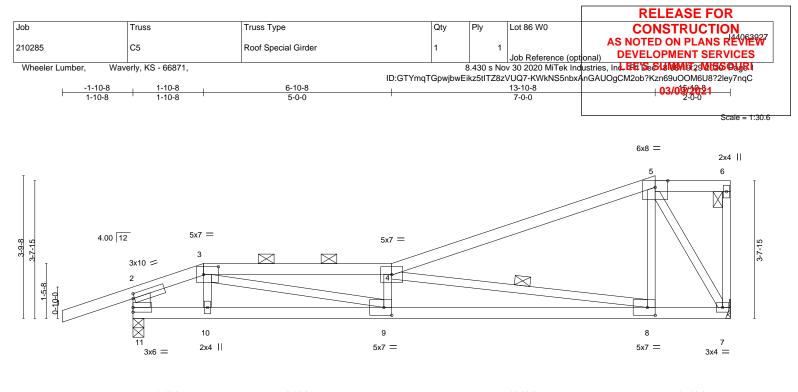
December 18,2020







MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	1-10-8	1	6-10-8		1			13-10-8	3	1	15-10-8
	1-10-8		5-0-0					7-0-0		I	2-0-0
Plate Offsets (X	<u>/) [2:0-0-8,0-1-8], [3:0-4-</u>	2,0-2-8], [8:0-2	-8,0-2-8], [9:0-2	2-8,0-2-8]							
LOADING (psf	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.18	9	>999	360	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.33	8-9	>569	240		
CLL 0.0	 Rep Stress Incr 	NO	WB	0.90	Horz(CT)	0.03	7	n/a	n/a		
3CDL 10.0	Code IRC2018/	TPI2014	Matrix-	S	Wind(LL)	0.14	9	>999	240	Weight: 59 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-7 oc purlins,
BOT CHORD	2x4 SPF No.2		except end verticals, and 2-0-0 oc purlins (3-3-5 max.): 3-4, 5-6.
WEBS	2x3 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	2-11: 2x6 SPF No.2		8-10-12 oc bracing: 8-9.
		WEBS	1 Row at midpt 4-8
PEACTIONS	(size) 7-Mechanical 11-0-3-8		

ACTIONS Max Horz 11=161(LC 5) Max Uplift 7=-136(LC 4), 11=-255(LC 4) Max Grav 7=685(LC 1), 11=816(LC 1)

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

TOP CHORD 2-3=-851/195, 3-4=-2231/399, 4-5=-519/88, 2-11=-668/220

BOT CHORD 10-11=-203/722, 9-10=-198/715, 8-9=-435/2254, 7-8=-58/410

WEBS 3-9=-311/1610, 4-9=-280/159, 4-8=-1855/401, 5-8=-5/485, 5-7=-850/164

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 7 and 255 lb uplift at joint 11
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 185 lb up at 1-10-8 on top chord, and 25 lb down and 47 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

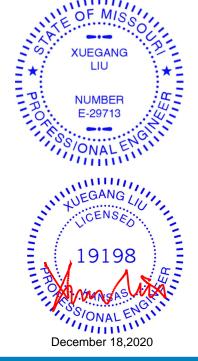
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-11=-20

Continued on page 2

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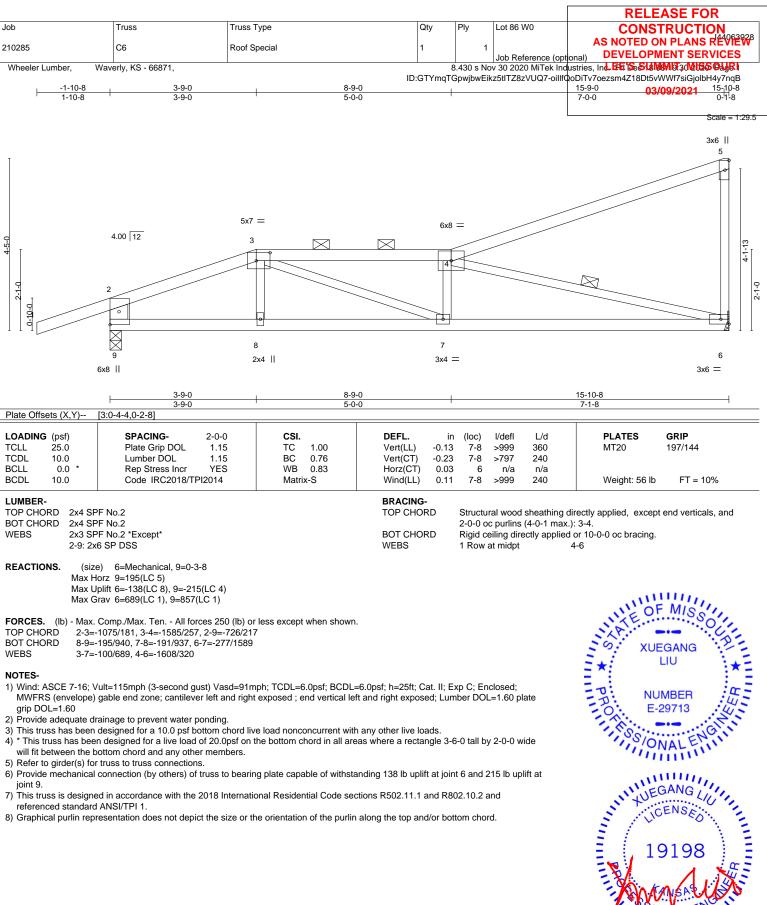
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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	C5	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
210200					Job Reference (opt	
Wheeler Lumber,	Waverly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Inc	ustries, Ind. EE SeStaWay 0729 0195 04982
			ID:GTYmqTGpwjbwI	Eikz5tITZ8	zVUQ7-KWkNS5nbx/	nGAUOgCM2ob?Kzn69uOOM6U8?2ley7nqC
						03/09/2021
LOAD CASE(S) Sta						
Concentrated Load	ds (lb)					

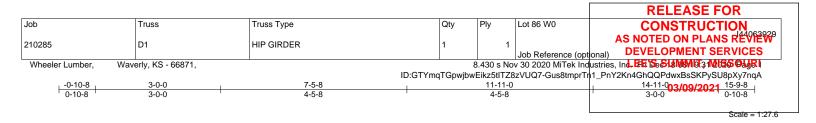
Concentrated Loads (lb) Vert: 3=38(F) 10=8(F)

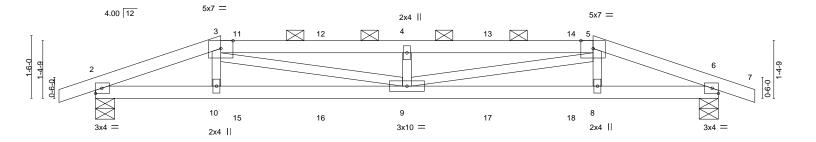






MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





	3-0-0 3-0-0		7-5-8 4-5-8			<u>1-11-0</u> 4-5-8)		<u>14-11-0</u> 3-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 NO Pl2014	CSI. TC 0.42 BC 0.42 WB 0.30 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (lo -0.10 -0.18 0.03 0.09	oc) 9 9 6 9	l/defl >999 >939 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-0-12 oc purlins, except 2-0-0 oc purlins (3-9-10 max.): 3-5. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 2=0-5-8, 6=0-5-8 (size) Max Horz 2=21(LC 40) Max Uplift 2=-210(LC 4), 6=-210(LC 5) Max Grav 2=666(LC 1), 6=666(LC 1)

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

- 2-3=-1374/361, 3-4=-1985/508, 4-5=-1985/508, 5-6=-1373/361 TOP CHORD
- BOT CHORD 2-10=-319/1269, 9-10=-321/1259, 8-9=-304/1258, 6-8=-302/1267
- WEBS 3-9=-180/864, 4-9=-334/144, 5-9=-181/864

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 2 and 210 lb uplift at joint 6.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 133 lb up at 3-0-0, 53 lb down and 12 lb up at 3-5-8, 53 lb down and 12 lb up at 5-5-8, 53 lb down and 12 lb up at 7-5-8, 53 lb down and 12 lb up at 9-5-8, and 53 lb down and 12 lb up at 11-5-8, and 117 lb down and 133 lb up at 11-11-0 on top chord, and 26 lb down and 49 Ib up at 3-0-0, 8 lb down and 7 lb up at 3-5-8, 8 lb down and 7 lb up at 5-5-8, 8 lb down and 7 lb up at 7-5-8, 8 lb down and 7 lb up at 9-5-8, and 8 lb down and 7 lb up at 11-5-8, and 26 lb down and 49 lb up at 11-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

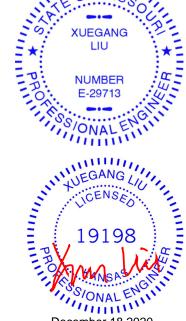
LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20

Continued on page 2

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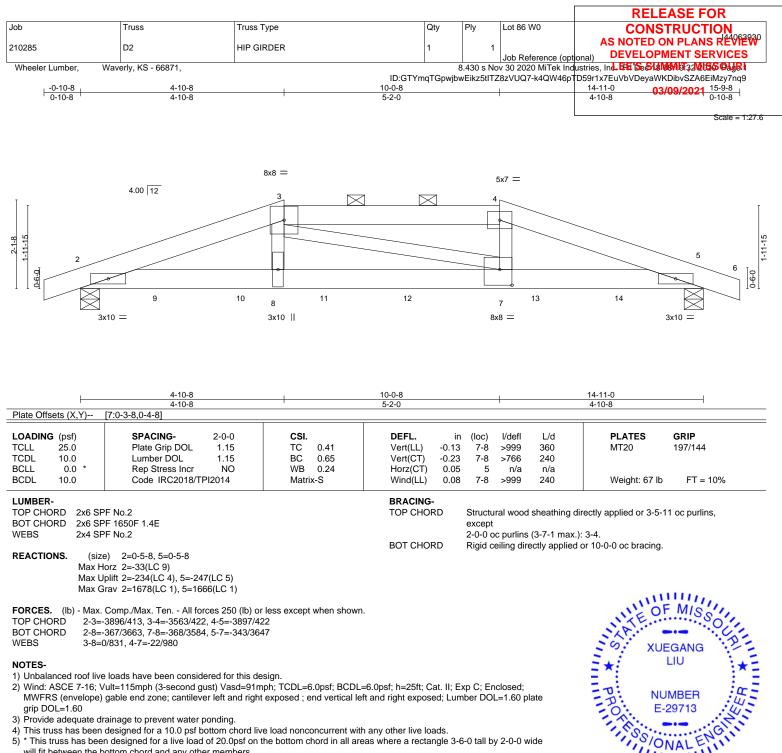
December 18.2020



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	D1	HIP GIRDER	1	1		AS NOTED ON PLANS REVIEW
210200			'		Job Reference (opt	
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s No	v 30 2020 MiTek Ind	ustries, Ind. EE SeSI MANDER 11055 Oug R1
		ID:GT	TYmqTGpwjbv	vEikz5tITZ8	3zVUQ7-Gus8tmprTr	1_PnY2Kn4GhQQPdwxBsSKPySU8pXy7nqA
LOAD CASE(S) Standard	4					03/09/2021
Concentrated Loads (Ib)						

Vert: 3=37(F) 5=37(F) 10=7(F) 9=7(F) 8=7(F) 15=7(F) 16=7(F) 17=7(F) 18=7(F)





grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 2 and 247 lb uplift at ioint 5.

7) 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.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 283 lb down and 30 lb up at 1-10-12, 283 lb down and 30 lb up at 3-10-12, 283 lb down and 30 lb up at 5-10-12, 283 lb down and 30 lb up at 7-10-12, 283 lb down and 30 lb up at 9-10-12, and 283 lb down and 30 lb up at 10-11-8, and 191 lb down and 42 lb up at 12-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

Continued on page 2

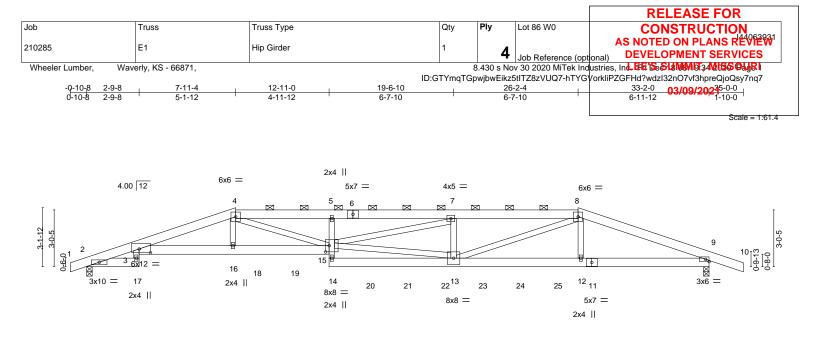




						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210285	D2	HIP GIRDER	1	1		AS NOTED ON PLANS REVIEW
210200	52				Job Reference (opt	
Wheeler Lumber, Wave	erly, KS - 66871,		8	3.430 s No	v 30 2020 MiTek Ind	ustries, Inc. EE SeSUMMOT3211055 OugRb
		ID:GTYn	nqTGpwjbv	vEikz5tITZ	8zVUQ7-k4QW46p1	D59r1x7EuVbVDeyaWKDibvSZA6EiMzy7nq9
						03/09/2021
LOAD CASE(S) Standard Concentrated Loads (Ib)						

Concentrated Loads (lb) Vert: 7=-283(B) 9=-283(B) 10=-283(B) 11=-283(B) 12=-283(B) 13=-283(B) 14=-191(B)





2-9-			19-6-10	26-2		33-2-0	
Plate Offsets (X,Y)	<u>8</u> <u>5-1-12</u> <u>4-</u> [3:0-7-4,0-2-6], [15:0-2-4,0-4-0]	11-12	6-7-10	6-7-	10 '	6-11-12	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.96 BC 0.62 WB 0.76 Matrix-S	Vert(CT) -(Horz(CT) ().43 15 >).74 15 >).26 9	/defl L/d •928 360 •534 240 n/a n/a •999 240	PLATES MT20 Weight: 768 lb	GRIP 197/144 FT = 10%
4-6,6-8 BOT CHORD 2x6 SF	P DSS *Except* 3: 2x6 SPF No.2 2 2400F 2.0E PF No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc p	ourlins (6-0-0 max.):	ectly applied or 6-0-0 4-8. or 10-0-0 oc bracing.	oc purlins, except
Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 2-3=- 8-9=-	e) 2=0-3-8, 9=0-3-8 forz 2=30(LC 29) iplift 2=-426(LC 4), 9=-447(LC 5) Grav 2=3534(LC 1), 9=3678(LC 1) Comp./Max. Ten All forces 250 (lb) of -1399/187, 3-4=-13451/1611, 4-5=-1606 -9224/1033	31/1831, 5-7=-15456/1768	3, 7-8=-12453/1374,			ALLE OF	MISSO
9-12= WEBS 3-17=	=-1523/13040, 15-16=-1510/12946, 13- =-900/8527 =-61/673, 14-15=-44/727, 5-15=-260/16 5=-1124/10647, 7-15=-410/3157, 7-13=-	2, 4-16=-192/1514, 4-15=	-325/3542,				
Top chords connect Bottom chords conn Webs connected as Attach BC w/ 1/2" di 2) All loads are consid ply connections hav	nnected together with 10d (0.131"x3") na ted as follows: 2x6 - 2 rows staggered at nected as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. iam. bolts (ASTM A-307) in the center of ered equally applied to all plies, except i re been provided to distribute only loads loads have been considered for this de	0-9-0 oc. d at 0-7-0 oc. f the member w/washers a f noted as front (F) or bac noted as (F) or (B), unles	k (B) face in the LOA		ction. Ply to	E-2	VALENGIN
 4) Wind: ASCE 7-16; MWFRS (envelope) 5) Provide adequate di 6) This truss has been 7) * This truss has bee will fit between the b 8) Provide mechanical joint 9. 9) This truss is designer referenced standard 	/ult=115mph (3-second gust) Vasd=91m rainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on bottom chord and any other members. connection (by others) of truss to bearin ed in accordance with the 2018 Internati	nph; TCDL=6.0psf; BCDL= vertical left and right expo re load nonconcurrent with the bottom chord in all are ng plate capable of withsta onal Residential Code sec	sed; Lumber DOL=1 h any other live loads eas where a rectangle anding 426 lb uplift at ctions R502.11.1 and	60 plate grip D = 3-6-0 tall by 2 = joint 2 and 44 I R802.10.2 and	POL=1.60 2-0-0 wide 7 Ib uplift at d		D198
Continued on page 2						Decemb	per 18,2020

mponent 16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210285	E1	Hip Girder	1	4	Job Reference (opt	
Wheeler Lumber, Wave	erly, KS - 66871,					ustries, Ind. EE Sestana 1342155 Page / /orkliPZGFHd?wdzl32nO7vf3hpreQjoQsy7ng7

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 841 lb down and 220 lb up at 7-11-4 262 lb down and 40 lb up at 0.12, 252 lb down and 40 lb up at 7-11-4 262 lb down and 9-0-12, 262 lb down and 40 lb up at 11-0-12, 262 lb down and 39 lb up at 13-0-12, 283 lb down and 42 lb up at 15-0-12, 283 lb down and 42 lb up at 13-0-12, 283 lb down and 42 lb up at 13-0-12, 283 lb down and 42 lb up at 13-0-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 42 lb up at 25-0-12, and 722 lb down and 17-10-12, 283 lb down and 42 lb up at 25-0-12, and 722 lb down and 42 lb up

LOAD CASE(S) Standard

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

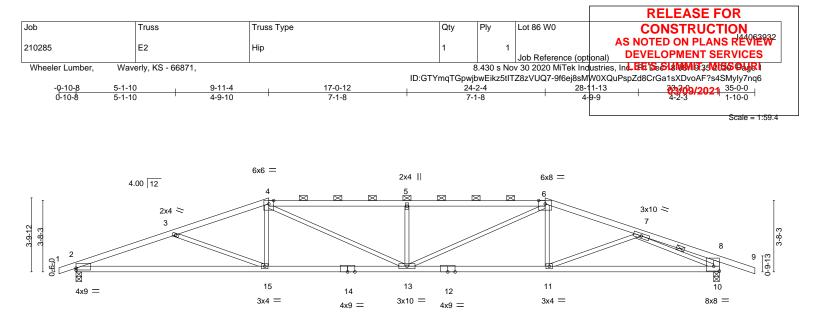
Uniform Loads (plf)

Vert: 1-4=-70, 4-8=-70, 8-10=-70, 2-17=-20, 3-15=-20, 9-14=-20

Concentrated Loads (lb)

Vert: 15=-262(F) 16=-841(F) 12=-722(F) 18=-262(F) 19=-262(F) 20=-283(F) 21=-283(F) 22=-283(F) 23=-283(F) 24=-283(F) 25=-283(F) 25=-2

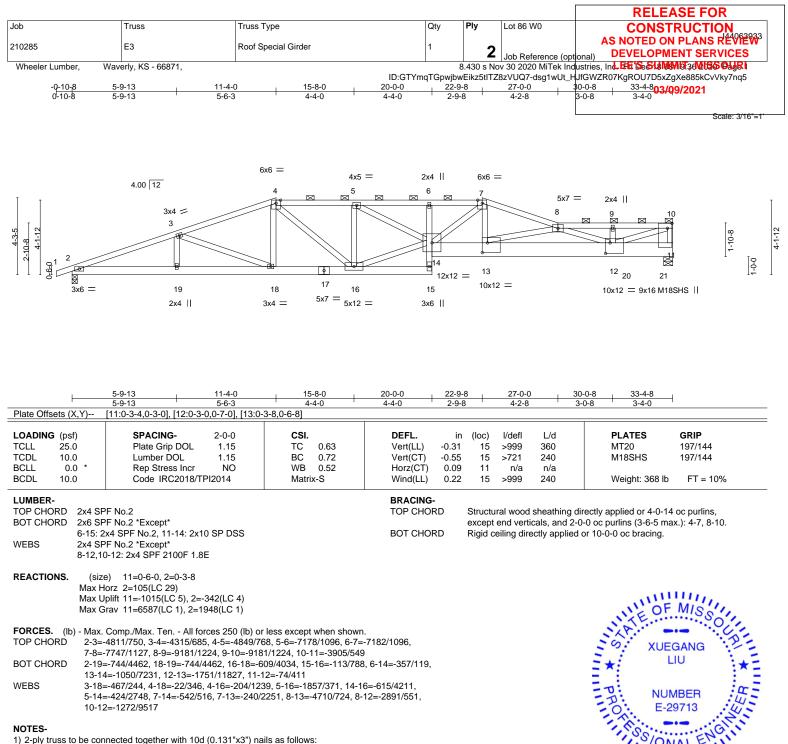




L	9-11-4	17-0-12		-2-4		33-2-0	
Plate Offsets (X,Y)	9-11-4 [2:0-0-0,0-1-2], [10:Edge,0-3-0]	7-1-8	. 7	-1-8		8-11-12	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.66 BC 0.75 WB 0.62 Matrix-S	Vert(LL) -0.2	8 13 2 2-15 3 10	I/defl L/d >999 360 >756 240 n/a n/a >999 240	PLATES MT20 Weight: 113 lb	GRIP 197/144 FT = 10%
4-6: 2 BOT CHORD 2x4 S 12-14 WEBS 2x3 S	PF No.2 *Except* x4 SPF 2100F 1.8E PF 2100F 1.8E *Except* : 2x4 SPF No.2 PF No.2 *Except* 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except e	nd verticals, and 2-0 ling directly applied	rectly applied or 2-6-4 c I-0 oc purlins (3-4-7 ma or 8-10-3 oc bracing. 7-10	
Max I Max I Max (Max 0 FORCES. (Ib) - Max TOP CHORD 2-3= 7-8= BOT CHORD 2-15 WEBS 3-15	ze) 2=0-3-8, 10=0-3-8 Horz 2=54(LC 8) Uplift 2=-302(LC 4), 10=-341(LC 5) Grav 2=1548(LC 1), 10=1621(LC 1) c. Comp./Max. Ten All forces 250 (lb) o 3511/679, 3-4=-3215/555, 4-5=-3675/6 =-424/24, 8-10=-431/138 5=-619/3240, 13-15=-446/3001, 11-13=- 5=-263/234, 4-15=0/386, 4-13=-226/916, 1=0/261, 7-11=0/398, 7-10=-2539/574	79, 5-6=-3675/679, 6-7=-2 363/2801, 10-11=-436/262	2994/505, 26			PP NUM	MISSOU BANG
 2) Wind: ASCE 7-16; MWFRS (envelope grip DOL=1.60 3) Provide adequate of 4) This truss has been 5) * This truss has been will fit between the 	ve loads have been considered for this d Vult=115mph (3-second gust) Vasd=91 gable end zone; cantilever left and righ drainage to prevent water ponding. In designed for a 10.0 psf bottom chord li en designed for a live load of 20.0psf on bottom chord and any other members. Il connection (by others) of truss to beari	nph; TCDL=6.0psf; BCDL t exposed ; end vertical le ve load nonconcurrent wit the bottom chord in all are	oft and right exposed; Lu h any other live loads. eas where a rectangle 3	mber DOL₌ -6-0 tall by	=1.60 plate 2-0-0 wide	E-20 MSS/ON UEG	
 This truss is design referenced standar 	ned in accordance with the 2018 Internat d ANSI/TPI 1.						198

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





13-14=-1050/7231, 12-13=-1751/11827, 11-12=-74/411 WEBS 3-18=-467/244, 4-18=-22/346, 4-16=-204/1239, 5-16=-1857/371, 14-16=-615/4211, 5-14=-424/2748, 7-14=-542/516, 7-13=-240/2251, 8-13=-4710/724, 8-12=-2891/551, 10-12=-1272/9517

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 0-7-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1015 lb uplift at joint 11 and 342 lb uplift at ioint 2.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere one state 2 dard ANSI/TPI 1.





Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	E3	Roof Special Girder	1			AS NOTED ON PLANS REVIEW
210200	23		1		Job Reference (opt	
Wheeler Lumber, Way	erly, KS - 66871,			8.430 s No	v 30 2020 MiTek Inc	ustries, Ind. EE SeSIMMOT364155 OMB2
		ID:GTYm	qTGpwjbv	wEikz5tITZ	8zVUQ7-dsg1wUt_H	JfGWZR07KgROU7D5xZgXe885kCvVky7nq5
NOTES-						03/09/2021
Graphical purlin representation	sentation does not depict the	size or the orientation of the purlin along the top	o and/or b	ottom cho	ord.	
12) Hanger(s) or other cor	nection device(s) shall be pr	ovided sufficient to support concentrated load(s) 5086 lb	down and	617 lb up at 30-8-	15, and 401 lb down and 201 lb

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5086 lb down and 617 lb up at 30-8-15, and 401 lb down and 20 up at 32-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

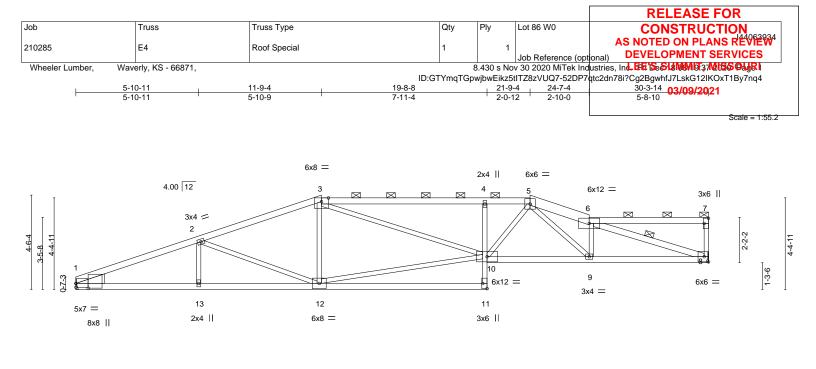
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-70, 4-7=-70, 7-8=-70, 8-10=-70, 2-15=-20, 11-14=-20

Concentrated Loads (lb)

Vert: 20=-5086(F) 21=-401(F)



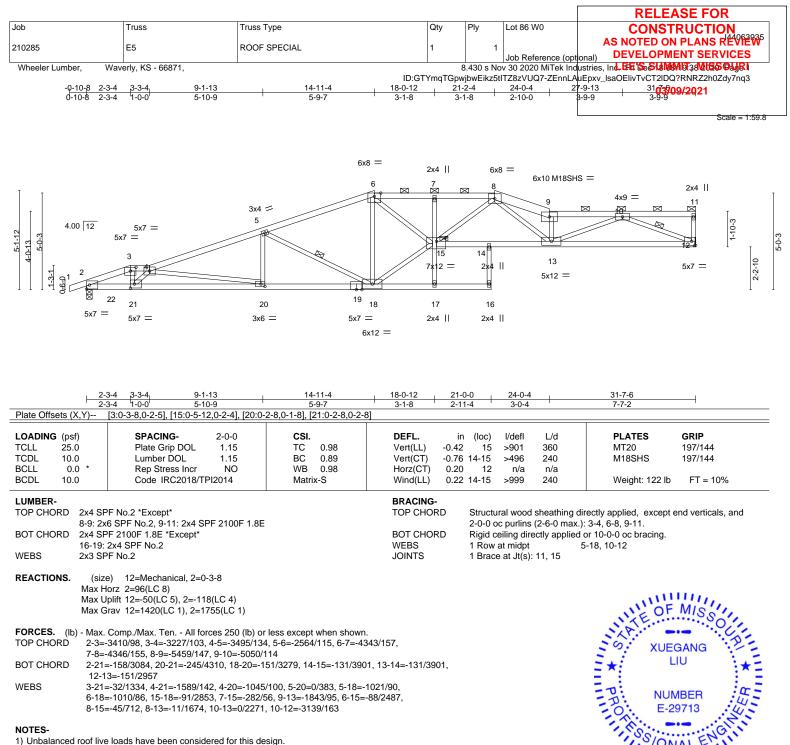


 	5-10-11 11-9-4 5-10-11 5-10-9		<u>19-8-8</u> 7-11-4	21-9-4	24-7-4 2-10-0	<u>30-3-14</u> 5-8-10	
Plate Offsets (X,Y)	[1:0-2-12,0-7-1], [1:0-0-0,0-2-4], [7:Edg	e,0-2-8], [11:Edge,0-2-8]	7-11-4	2-0-12	2-10-0	5-0-10	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.93 BC 0.92 WB 0.79 Matrix-S	Vert(LL) -0.27		L/d 360 240 n/a 240	PLATES MT20 Weight: 115 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SF 4-11: 2 WEBS 2x3 SF	4 SPF 2100F 1.8E, 5-6: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except end verti	icals, and 2-0-0 ectly applied of	ectly applied or 2-5-1 c 0 oc purlins (2-2-0 ma: r 10-0-0 oc bracing. 8	
REACTIONS. (size Max H Max U Max G FORCES. (lb) - Max. TOP CHORD 1-2=- BOT CHORD 1-13=	lorz 1=83(LC 5) plift 8=-54(LC 5), 1=-53(LC 4) irav 8=1357(LC 1), 1=1357(LC 1) Comp./Max. Ten All forces 250 (lb) o -3183/139, 2-3=-2592/120, 3-4=-3402/1 =-151/2923, 12-13=-151/2923, 4-10=-58	62, 4-5=-3412/155, 5-6=-3 8/131, 9-10=-120/2874, 8	3551/137 3-9=-127/3313				MISSOU BANG
6-9=- NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) 3) Provide adequate dr 4) This truss has been will fit between the b 6) Refer to girder(s) for	=-574/101, 10-12=-94/2309, 3-10=-102/ 340/90, 6-8=-3420/116 e loads have been considered for this def /ult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end rainage to prevent water ponding. designed for a 10.0 psf bottom chord lin n designed for a live load of 20.0psf on pottom chord and any other members. r truss to truss connections. connection (by others) of truss to bearing	esign. hph; TCDL=6.0psf; BCDL vertical left and right expo re load nonconcurrent with the bottom chord in all are	=6.0psf; h=25ft; Cat. II; E osed; Lumber DOL=1.60 h any other live loads. eas where a rectangle 3-	plate grip DOL=1. 6-0 tall by 2-0-0 w	ride	E-20 E-20	ANG LIU
 This truss is designer referenced standard 	ed in accordance with the 2018 Internati ANSI/TPI 1. resentation does not depict the size or t					19	

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

December 18,2020





- 2-21=-158/3084, 20-21=-245/4310, 18-20=-151/3279, 14-15=-131/3901, 13-14=-131/3901, BOT CHORD 12-13=-151/2957 WFBS 3-21=-32/1334, 4-21=-1589/142, 4-20=-1045/100, 5-20=0/383, 5-18=-1021/90,
- 6-18=-1010/86, 15-18=-91/2853, 7-15=-282/56, 9-13=-1843/95, 6-15=-88/2487,
 - 8-15=-45/712, 8-13=-11/1674, 10-13=0/2271, 10-12=-3139/163

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 12 and 118 lb uplift at joint 2.
- 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. 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 281 lb down and 48 lb up at
- 1-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Continued on page 2



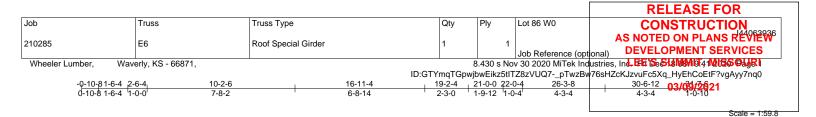


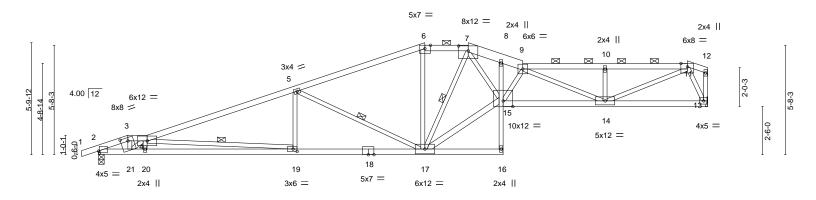
						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	E5	ROOF SPECIAL	1	1		AS NOTED ON PLANS REVIEW
210200	20		•		Job Reference (opt	
Wheeler Lumber, Wav	erly, KS - 66871,		8	3.430 s Nov	v 30 2020 MiTek Ind	ustries, Inc. EE SeSUMMOT38VUSS OUB
		ID:GT	YmqTGpw	jbwEikz5tľ	TZ8zVUQ7-ZEnnLA	uEpxv_lsaOElivTvCT2lDQ?RNRZ2h0Zdy7nq3
						03/09/2021
 LOAD CASE(S) Standard 1) Dead + Roof Live (balar 						

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-8=-70, 8-9=-70, 9-11=-70, 2-16=-20, 12-14=-20 Concentrated Loads (lb)

Vert: 22=-281(F)





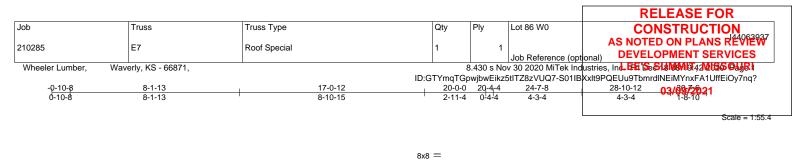


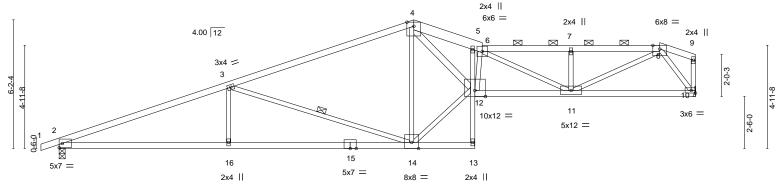
1-6-	4 2-6-4 10-2-6 4 1-0-0 7-8-2		<u>16-11-4</u> 6-8-14	21-0-0 4-0-12		26-3-8 5-3-8	<u>31-7-6</u> 5-3-14	—
	[2:0-0-8,0-1-2], [3:0-4-8,0-2-0							
LOADING(psf)TCLL25.0TCDL10.0BCLL0.0	Plate Grip DOL	-0-0 CSI. 1.15 TC 1.15 BC NO WB	0.92 Ve 0.85 Ve	EFL. in ert(LL) -0.34 ert(CT) -0.61 orz(CT) 0.17	(loc) l/defl 16 >999 16 >614 13 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI20	14 Matrix	-S W	ind(LL) 0.18	16 >999	240	Weight: 126 lb	FT = 10%
4-6: 2x BOT CHORD 2x4 SF 8-16: 2 WEBS 2x3 SF	PF No.2 *Except* 44 SPF 2100F 1.8E, 7-9: 2x6 PF 2100F 1.8E *Except* 2x3 SPF No.2, 16-18: 2x4 SPI PF No.2 *Except* 2x4 SPF No.2		тс	RACING- DP CHORD DT CHORD EBS	2-0-0 oc purlins	d sheathing directly s (2-10-5 max.): 3 rectly applied or 10 4-19,	4, 6-7, 9-11.	end verticals, and
Max H Max U	e) 2=0-3-8, 13=Mechanical lorz 2=108(LC 8) Jplift 2=-72(LC 4), 13=-43(LC Grav 2=1484(LC 1), 13=1410(INTE OF	MISSO
TOP CHORD 2-3=- 7-8=- BOT CHORD 2-21: 14-1! WEBS 3-21:	Comp./Max. Ten All forces -2766/61, 3-4=-2613/65, 4-5= -4253/108, 8-9=-4416/96, 9-1 =-133/2426, 20-21=-142/4207 5=-132/4722, 13-14=-43/670 =-72/1293, 4-21=-2035/7, 4-2	-3327/97, 5-6=-2239/75 0=-3208/77, 10-11=-321 7, 19-20=-162/4207, 17- 0=-3/267, 4-19=-1106/4	, 6-7=-2046/86, 0/78 19=-122/3106, 8-15=(8, 5-19=0/405,	0/358,		WILLIN.	* L Pp. NUM	BANG IU MBER
9-15: NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) 3) Provide adequate d 4) This truss has been will fit between the b 6) Refer to girder(s) fo 7) Provide mechanical joint 13. 8) This truss is designer referenced standard 9) Graphical purlin rep 10) Hanger(s) or other 1-6-4 on top chord others.	resentation does not depict the connection device(s) shall be , and at 1-6-4 on bottom cho E(S) section, loads applied to	 b-14=-387/81, 11-14=-55 l for this design. Vasd=91mph; TCDL=6. used ; end vertical left ar fing. m chord live load nonco 0.0psf on the bottom chembers. as to bearing plate capal 8 International Resident the size or the orientation or provided sufficient to s rid. The design/selection 	5/2804, 11-13=-1502/8 Opsf; BCDL=6.0psf; h Id right exposed; Lum ncurrent with any othe ord in all areas where ole of withstanding 72 tial Code sections R56 of the purlin along the upport concentrated le n of such connection	n=25ft; Cat. II; E; ber DOL=1.60 p er live loads. e a rectangle 3-6 ! lb uplift at joint 02.11.1 and R80 e top and/or bott oad(s) 46 lb dow device(s) is the	iate grip DOL=1 -0 tall by 2-0-0 v 2 and 43 lb uplif 02.10.2 and tom chord. rn and 19 lb up a		THE SO ION	MAS MAN
Design valid for use o a truss system. Before building design. Brac is always required for fabrication, storage, d	design parameters and READ NOTES inly with MITek® connectors. This dese e use, the building designer must veri ing indicated is to prevent buckling of stability and to prevent collapse with lelivery, erection and bracing of trusse available from Truss Plate Institute, 2	ign is based only upon parametry the applicability of design parindividual truss web and/or ch possible personal injury and prise and truss systems, see	eters shown, and is for an ir rameters and properly inco ord members only. Addition operty damage. For gener ANSI/TPI1 Quality Cr	ndividual building con prporate this design in nal temporary and pr al guidance regardin	mponent, not nto the overall ermanent bracing g the	ponent	16023 Swingley Chesterfield, M	y Ridge Rd O 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210285	E6	Roof Special Girder	1	1		
					Job Reference (opt	
Wheeler Lumber, Wave	erly, KS - 66871,					
		ID:GT	'mq I Gpwj	bwEikz5tl I	Z8zVUQ7pTwzBw	76sHZcKJzvuFc5Xq_HyEhCoEtF?vgAyy7nq0
LOAD CASE(S) Standard		03/09/2021				
1) Dead + Roof Live (balan						

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 7-9=-70, 9-11=-70, 11-12=-70, 2-16=-20, 13-15=-20







ŀ	8-1-13 8-1-13	17-0-12 8-10-15	20-0-0 2-11-4	24-7-8 4-7-8	30-7-6 5-11-14
LOADING (psf)	SPACING- 2-0-0		(oc) l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.29	13 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(CT) -0.57 14-	-16 >642 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.17	10 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.15	13 >999 240	Weight: 114 lb FT = 10%

 TOP CHORD
 2x4 SPF No.2 *Except*

 1-4: 2x4 SPF 2100F 1.8E, 4-6: 2x6 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 5-13: 2x3 SPF No.2, 10-12: 2x4 SPF 2100F 1.8E

 WEBS
 2x3 SPF No.2 *Except*

BRACING-TOP CHORD

BOT CHORD WEBS Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-6 max.): 6-8. Rigid ceiling directly applied or 2-2-0 oc bracing. 1 Row at midpt 3-14

REACTIONS. (size) 10=Mechanical, 2=0-3-8 Max Horz 2=113(LC 8) Max Uplift 10=-39(LC 5), 2=-64(LC 4) Max Grav 10=1365(LC 1), 2=1439(LC 1)

4-12: 2x4 SPF No.2

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

TOP CHORD 2-3=-3235/77, 3-4=-2019/50, 4-5=-4161/99, 5-6=-4328/88, 6-7=-3049/69, 7-8=-3051/71

 BOT CHORD
 2-16=-119/2966, 14-16=-119/2966, 5-12=-34/365, 11-12=-97/4230, 10-11=-53/941

 WEBS
 3-16=0/370, 3-14=-1240/124, 4-14=-1006/105, 12-14=-25/2369, 4-12=-93/3249,

6-12=-1301/72, 6-11=-1325/56, 7-11=-384/81, 8-11=-29/2378, 8-10=-1556/82

NOTES-

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

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 Provide adequate drainage to prevent water ponding.

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

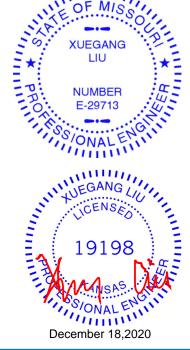
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 10 and 64 lb uplift at joint 2.

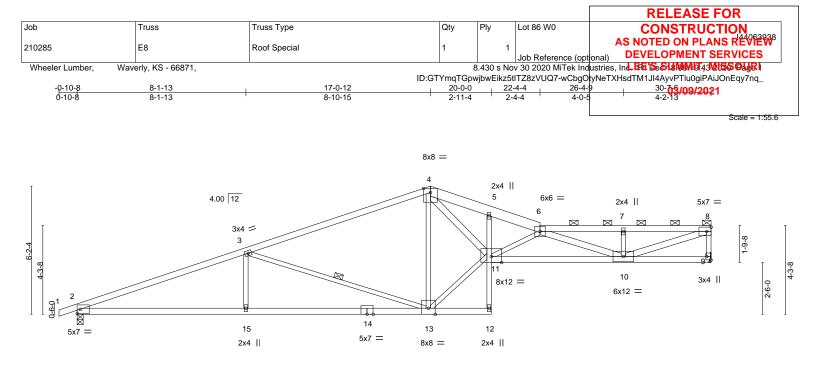
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



11111

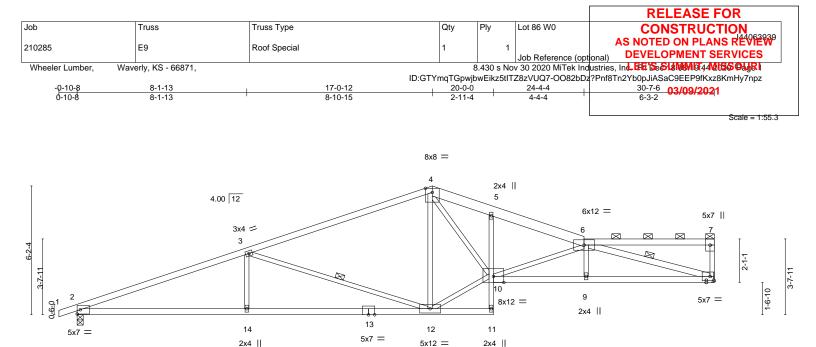




—	8-1-13 8-1-13	<u>17-0-12</u> 8-10-15	20-0-0	<u>26-4-9</u> 6-4-9	30-7-6
Plate Offsets (X,Y)-		8-10-15	2-11-4	6-4-9	4-2-13
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.62 BC 0.99 WB 0.99 Matrix-S	Vert(LL) -0.35	13-15 >568 240 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 115 lb FT = 10%
4-6: BOT CHORD 2x4 5-12 WEBS 2x3	SPF 2100F 1.8E *Except* : 2x6 SPF No.2, 6-8: 2x4 SPF No.2 SPF No.2 *Except* 2: 2x3 SPF No.2, 9-11: 2x4 SPF 2100F 1.8 SPF No.2 *Except* 1,6-10,8-10: 2x4 SPF No.2	E	BRACING- TOP CHORD BOT CHORD WEBS	except end verticals, and 2- Rigid ceiling directly applied	directly applied or 3-4-9 oc purlins, 0-0 oc purlins (2-9-13 max.): 6-8. 1 or 2-2-0 oc bracing. 3-13
Ma Ma	size) 9=Mechanical, 2=0-3-8 x Horz 2=112(LC 8) x Uplift 9=-38(LC 5), 2=-66(LC 4) x Grav 9=1365(LC 1), 2=1439(LC 1)				OF MISSO
TOP CHORD 2-	ax. Comp./Max. Ten All forces 250 (lb) o 3=-3235/82, 3-4=-2019/55, 4-5=-4109/97, -9=-1311/52				XUEGANG
BOT CHORD 2- WEBS 3-	15=-124/2966, 13-15=-124/2966, 10-11=-1 15=0/370, 3-13=-1239/124, 4-13=-1012/98 11=-1594/89, 6-10=-2131/79, 7-10=-329/7	s, 11-13=-13/2379, 4-11=-	-84/3189,		PR NUMBER
NOTES-					-29/13
1) Unbalanced roof 2) Wind: ASCE 7-10 MWFRS (envelo	live loads have been considered for this de 6; Vult=115mph (3-second gust) Vasd=91n pe); cantilever left and right exposed ; end e drainage to prevent water ponding.	nph; TCDL=6.0psf; BCDL			S/ONAL ENGIN
5) * This truss has t will fit between th	een designed for a 10.0 psf bottom chord liv been designed for a live load of 20.0psf on he bottom chord and any other members.) for truss to truss connections.			6-0 tall by 2-0-0 wide	19198
joint 2.	cal connection (by others) of truss to bearing		0 1 7		LICENSES
referenced stand					19198
			<u> </u>		E Anna Anna







 	8-1-13 8-1-13	<u>17-0-12</u> 8-10-15		0-0-0 11-4	<u>24-4-4</u> 4-4-4	<u>30-7-6</u> 6-3-2	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.62 BC 0.99 WB 0.99 Matrix-S	DEFL. Vert(LL) - Vert(CT) - Horz(CT)	in (loc 0.26 9-1 0.53 12-1	c) l/defl L/d 0 >999 360 4 >694 240 8 n/a n/a	PLATES MT20 Weight: 115 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SP 5-11: 2 WEBS 2x3 SP	6 SPF No.2, 6-7: 2x4 SPF No.2	E	BRACING- TOP CHORD BOT CHORD WEBS	exce Rigi	ept end verticals, and	g directly applied or 3-4-9 2-0-0 oc purlins (6-0-0 m ed or 2-2-0 oc bracing. 3-12, 6-8	
Max H Max U	e) 8=Mechanical, 2=0-3-8 orz 2=148(LC 8) plift 8=-197(LC 5), 2=-248(LC 4) rav 8=1365(LC 1), 2=1439(LC 1)					IN OF	MISS
TOP CHORD 2-3=- BOT CHORD 2-14= WEBS 3-14=	Comp./Max. Ten All forces 250 (lb) o 3234/463, 3-4=-2019/282, 4-5=-2986/4 497/2966, 12-14=-497/2966, 9-10=-51 =0/370, 3-12=-1239/320, 4-12=-418/153 967/166, 6-8=-3795/490	29, 5-6=-3054/388 1/3736, 8-9=-506/3741					GANG
 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 	e loads have been considered for this de 'ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv	nph; TCDL=6.0psf; BCDL= t exposed ; end vertical le	ft and right exposed;	Lumber [O E	MBER 29713
 5) * This truss has been will fit between the b 6) Refer to girder(s) for 	n designed for a live load of 20.0psf on ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearing	the bottom chord in all are	eas where a rectangl	e 3-6-0 tal	·		ANG LIU
 This truss is designer referenced standard 	ed in accordance with the 2018 Internati ANSI/TPI 1. resentation does not depict the size or the					19	9198

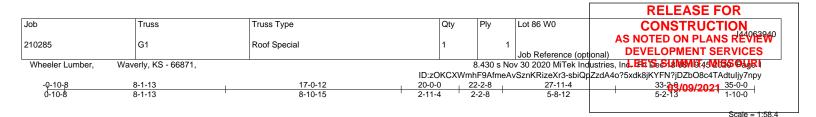
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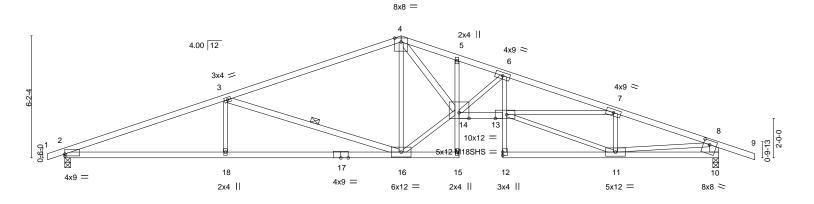
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

1111111 December 18,2020

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	0.1.10	17.0.10	00.0.0	00.0.0	07.44.4	00.0.0	
	8-1-13	<u>17-0-12</u> 8-10-15	20-0-0	22-2-8	<u>27-11-4</u> 5-8-12	33-2-0	
Plate Offsets (X,)			2-11-4	2-2-0	5-0-12	5-2-15	
		2 0j, [10:0 7 0,Edge]					
LOADING (psf)	SPACING- 2	-0-0 CSI .	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15 TC 0.73	Vert(LL)	-0.41 13-14	>958 360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15 BC 0.93	Vert(CT)	-0.74 13-14	>532 240	M18SHS	197/144
BCLL 0.0	* Rep Stress Incr	YES WB 0.98	Horz(CT)	0.33 10	n/a n/a		
BCDL 10.0	Code IRC2018/TPI20	014 Matrix-S	Wind(LL)	0.27 13-14	>999 240	Weight: 130 lb	FT = 10%
LUMBER-			BRACING-				
	x4 SPF 2100F 1.8E		TOP CHOR	D Struc	tural wood sheathing d	irectly applied or 2-2-0 o	oc purlins,
BOT CHORD 2	x4 SPF 2100F 1.8E *Except*			excep	ot end verticals.		-
1	5-17,10-12: 2x4 SPF No.2, 5-15,6-	12: 2x3 SPF No.2	BOT CHOR	D Rigid	ceiling directly applied	or 10-0-0 oc bracing, I	Except:
WEBS 2	x3 SPF No.2 *Except*			2-2-0	oc bracing: 16-18	-	-
3	-16,4-14: 2x4 SPF No.2, 8-10: 2x6	SPF No.2		6-0-0	oc bracing: 14-15.		
			WEBS	1 Rov	v at midpt	3-16	
REACTIONS.	(size) 10=0-3-8, 2=0-3-8						
Ν	Max Horz 2=97(LC 12)						
Ν	Max Uplift 10=-302(LC 5), 2=-262(L	_C 4)					
Ν	Max Grav 10=1623(LC 1), 2=1544	(LC 1)				Nº OF	MISSI
						NYE	
FORCES. (lb) -	Max. Comp./Max. Ten All forces	250 (lb) or less except when show	n.				-
TOP CHORD	2-3=-3544/505, 3-4=-2312/321, 4-	5=-4069/505, 5-6=-4133/482, 6-7=-	-5581/647,			SO: VIE	GANG
	7-8=-2975/396, 8-10=-1555/322						STATISTICS STATISTICS
BOT CHORD	2-18=-471/3256, 16-18=-471/3256	6, 13-14=-464/5243, 6-13=-94/1331	, 10-11=-37/384			2 * : L	IU 🚼
WEBS	3-18=0/375, 3-16=-1261/325, 4-16	6=-922/111, 14-16=-197/2518, 4-14	=-299/3007,				
	6-14=-1806/273, 11-13=-322/2861	I, 7-13=-219/2474, 7-11=-1224/234	, 8-11=-322/2393			En:	in E
						- D. NUM	ABER :
NOTES-						-0: E-2	9713
1) Unbalanced ro	of live loads have been considered	for this design.					
2) Wind: ASCE 7	-16; Vult=115mph (3-second gust)	Vasd=91mph; TCDL=6.0psf; BCDL	L=6.0psf; h=25ft; Ca	t. II; Exp C; E	Enclosed;	1.50	GN
MWFRS (enve	elope) gable end zone; cantilever le	eft and right exposed ; end vertical le	eft and right expose	d; Lumber D	OL=1.60 plate	IN ON	ALENIN

grip DOL=1.60

3) All plates are MT20 plates unless otherwise indicated.

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

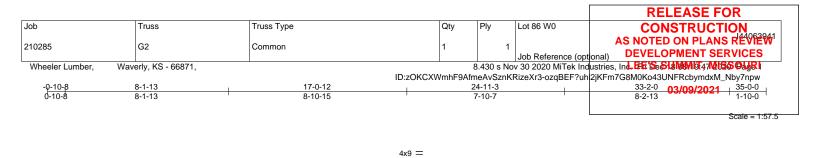
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

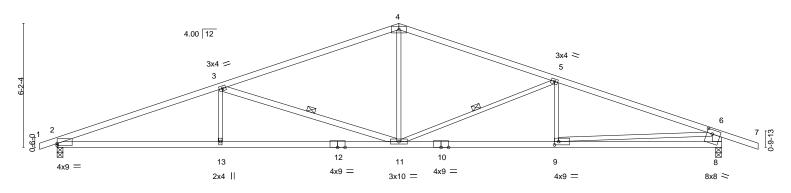
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 10 and 262 lb uplift at joint 2.

7) 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.









L	8-1-13	17-0-12	2	4-11-3		33-2-0	
	8-1-13	8-10-15	1	7-10-7	1	8-2-13	I
Plate Offsets (X,Y)	[2:0-0-0,0-1-2], [8:0-3-4,0-2-8], [9:0-2	-8,0-2-0]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.75 BC 0.96 WB 0.70 Matrix-S	Vert(LL) -0.21	11-13 >889 8 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 114 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	PF 2100F 1.8E PF 2100F 1.8E *Except*		BRACING- TOP CHORD	Structural wood except end vertion	sheathing dir	rectly applied or 2-2-0 o	oc purlins,
WEBS 2x3 SF	2x4 SPF No.2 PF No.2 *Except* 2x4 SPF No.2, 6-8: 2x6 SPF No.2		BOT CHORD WEBS	Rigid ceiling dire 2-2-0 oc bracing 1 Row at midpt	: 11-13.	or 10-0-0 oc bracing, 1 3-11, 5-11	=xcept:
REACTIONS. (siz	e) 2=0-3-8, 8=0-3-8						

Max Horz 2=97(LC 8) Max Uplift 2=-262(LC 4), 8=-302(LC 5) Max Grav 2=1544(LC 1), 8=1623(LC 1)

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

2-3=-3539/506, 3-4=-2319/320, 4-5=-2302/337, 5-6=-3064/417, 6-8=-1533/344

BOT CHORD 2-13=-472/3251, 11-13=-472/3251, 9-11=-300/2817, 8-9=-137/777

WEBS 3-13=0/371, 3-11=-1265/330, 4-11=-24/853, 5-11=-872/251, 6-9=-213/2046

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 2 and 302 lb uplift at joint 8.

6) 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.

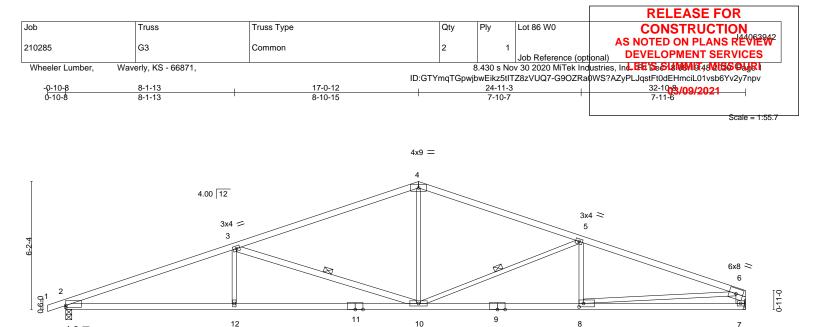


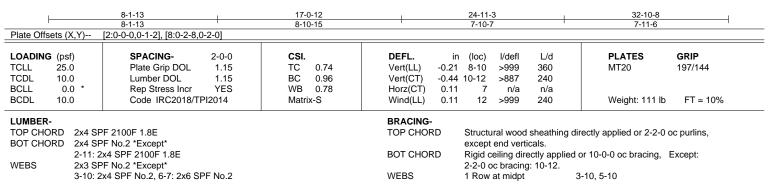
MI

XUEGANG

0







3x10 =

4x9 =

4x9 =

4x9 =

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=65(LC 8) Max Uplift 2=-72(LC 4), 7=-36(LC 5) Max Grav 2=1535(LC 1), 7=1461(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3515/100, 3-4=-2292/73, 4-5=-2277/80, 5-6=-2995/85, 6-7=-1377/78

2x4 ||

BOT CHORD 2-12=-86/3228, 10-12=-86/3228, 8-10=-41/2766, 7-8=-26/512

WEBS 3-12=0/369, 3-10=-1265/131, 4-10=0/843, 5-10=-851/113, 6-8=-15/2263

NOTES-

4x9 =

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4)

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 36 lb uplift at joint 7

7) 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.



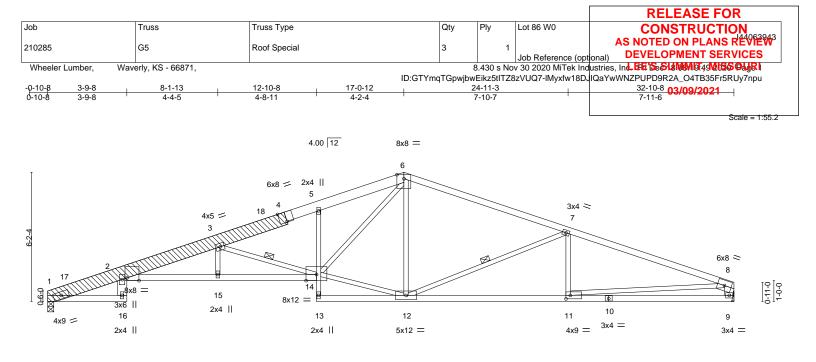
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7

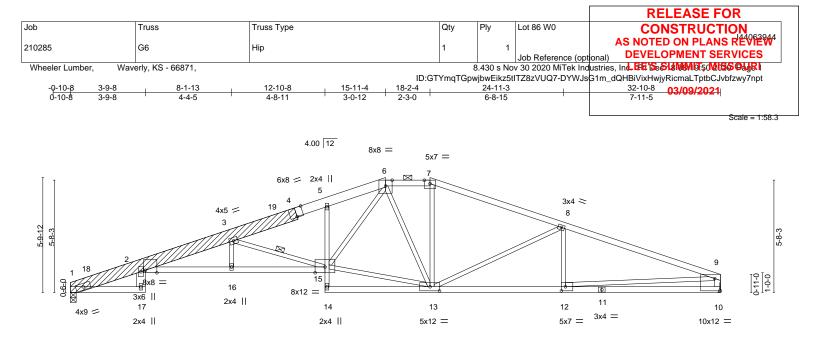
3x4





3-9-8		10-8 17-0-12 -11 4-2-4		24-11-3 7-10-7	32-10-8 7-11-6
Plate Offsets (X,Y)	[2:0-6-15,Edge], [4:0-4-0,Edge], [11			1-10-1	7-11-0
LOADING (psf)	SPACING- 2-0-0	CSI.		in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.62		4 14-15 >895 360	MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.80 WB 0.78	Vert(CT) -0.7 Horz(CT) 0.3	9 14-15 >495 240 4 9 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		3 14-15 >999 240	Weight: 180 lb FT = 10%
BCDL 10.0	Code 1RC2018/1F12014	Matrix-5		3 14-15 >999 240	Weight. 180 lb FT = 1078
LUMBER-			BRACING-		
TOP CHORD 2x6 S	PF No.2 *Except*		TOP CHORD	Structural wood sheathing	directly applied or 3-8-8 oc purlins,
	x4 SPF 2100F 1.8E, 1-4: 2x8 SP DS			except end verticals.	
BOT CHORD 2x4 S			BOT CHORD	Rigid ceiling directly applie	
	2x4 SPF 2100F 1.8E, 5-13: 2x3 SPF	No.2	WEBS	1 Row at midpt	3-14, 7-12
	PF No.2 *Except* -9: 2x6 SPF No.2				
	P DSS				
	8 SP DSS one side				
					AND DO DE
(e) 1=0-3-8, 9=Mechanical				OF MISSIN
	Horz 1=63(LC 8)				NYE. O
	Jplift 1=-41(LC 4), 9=-36(LC 5)				SXY
Max G	Grav 1=1463(LC 1), 9=1463(LC 1)				XUEGANG
FORCES (lb) - Max	. Comp./Max. Ten All forces 250 (lb	or less excent when shown	1		
	-478/37, 2-3=-4872/134, 3-5=-3522/1				2.01 10 2
	-3004/83, 8-9=-1380/77		,		Eni int
	=-120/4843, 14-15=-118/4836, 5-14=				NUMBER
WEBS 3-14	=-1628/97, 12-14=0/2048, 6-14=-90/	862, 7-12=-831/105, 8-11=-	12/2279		O. E-29713
NOTES-					
	ab 1 to 4, front face(s) 2x8 SP DSS w	th 2 row(s) of 10d (0 131"v3	") naile enaced 9" o c ev	cent : starting at	SSIENSI
	t joint 4, nail 2 row(s) at 2" o.c. for 2-0				ONAL
	m end at joint 4, nail 2 row(s) at $7"$ o.				· mante.
	e loads have been considered for this				- AMILLAN
	Vult=115mph (3-second gust) Vasd=			Exp C; Enclosed;	GANC
); cantilever left and right exposed ; e			plate grip DOL=1.60	NUEULU
	designed for a 10.0 psf bottom chore				CENSE
	en designed for a live load of 20.0psf bottom chord and any other members		eas where a rectangle 3	-o-u tail by 2-0-0 wide	IST 19198
	or truss to truss connections.				= = /
	considers parallel to grain value usir	g ANSI/TPI 1 angle to grain	formula. Building desig	ner should verify	E 19198 E
capacity of bearing		- •		-	
	I connection (by others) of truss to be	aring plate capable of withsta	anding 41 lb uplift at join	nt 1 and 36 lb uplift at	
joint 9.		- den el Deside (d. 1.0. d		000.40.0 and	- X AN ASING
	ed in accordance with the 2018 Inter	ational Residential Code se	ctions R502.11.1 and R	802.10.2 and	A. AWANS G
referenced standar					SONALEN
					December 18,2020

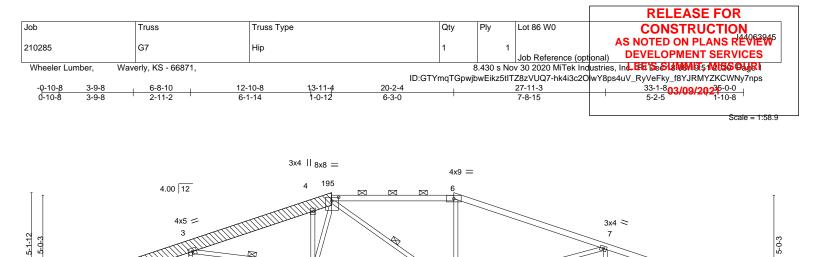
Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



L	3-9-8	8-1-13	12-1		18-2-4	1	24-11		I	32-10-8	
I	3-9-8	4-4-5	4-8		5-3-12		6-8-1	5		7-11-5	
Plate Offsets (X,	Y) [2:0-6	-15,Edge], [4:0-4-0),Edge], [10:Edg	ge,0-7-8], [12:0-2-8,0	-2-8], [13:0	0-5-12,0-2-8					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	*	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES	CSI. TC 0.62 BC 0.75 WB 0.96 Matrix-S		DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc -0.44 15-16 -0.79 15-16 0.34 10 0.23 15-16	>896 >494) n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 182 lb	GRIP 197/144 FT = 10%
BCDL 10.0			F12014	Iviatitx-5		WING(LL)	0.23 13-10	>999	240		FT = 1076
BOT CHORD 2 WEBS 2 OTHERS 2	6-7: 2x4 SPF 2x4 SPF No. 2-15: 2x4 SP 2x3 SPF No. 2-17: 2x6 SP 2x8 SP DSS	No.2, 7-9: 2x4 SP 2 *Except* F 2100F 1.8E, 5-1	4: 2x3 SPF No.:			BRACING- TOP CHOF BOT CHOF WEBS	D Struct exce D Rigid	ot end vert	icals, and 2- ectly applied	directly applied or 3-7-1 -0-0 oc purlins (3-9-10 r d or 10-0-0 oc bracing. 3-15	
REACTIONS.	(size) 1: Max Horz 1: Max Uplift 1:	=0-3-8, 10=Mecha	1(LC 5)							S. XUE	MISSOUTH
FORCES. (lb) - TOP CHORD BOT CHORD WEBS	1-2=-480/3 7-8=-2401/2 2-16=-134/2 3-15=-1618	2, 2-3=-4883/151, 87, 8-9=-3018/95, 4853, 15-16=-132/	3-5=-3539/116, 9-10=-1380/83 4847, 5-15=-28 02, 6-15=-72/16	less except when sł 5-6=-3509/151, 6-7: 7/77, 12-13=-50/278 335, 6-13=-588/55, 7	=-2195/98, 5, 10-12=-					PP. NU	MBER 44
from end at joi 7-7-2 from end 2) Unbalanced rd 3) Wind: ASCE 7 MWFRS (enve 4) Provide adequ 5) This truss has 6) * This truss has 6) * This truss has will fit between 7) Refer to girder 8) Bearing at join capacity of be 9) Provide mecha joint 10. 10) This truss is of referenced st	int 1, nail 2 r d at joint 1, n oof live loads 7-16; Vult=11 lelope); cantil uate drainagg been design as been design as been design t(s) for truss nt(s) 1 consic aring surface anical conne designed in tandard ANS	ow(s) at 2" o.c. for ail 2 row(s) at 7" o s have been consid 15mph (3-second g ever left and right e to prevent water hed for a 10.0 psf to gned for a live load chord and any oth to truss connection ders parallel to grai a. cction (by others) o accordance with th SI/TPI 1.	2-0-0; starting a .c. for 2-0-0. dered for this de gust) Vasd=91m exposed ; end v ponding. pottom chord liv d of 20.0psf on t rer members. ns. in value using A f truss to bearin he 2018 Internat	2 row(s) of 10d (0.13 at 2-9-1 from end at sign. ph; TCDL=6.0psf; B rertical left and right e load nonconcurren he bottom chord in a NSI/TPI 1 angle to g g plate capable of w ional Residential Co the orientation of the	ioint 1, nail CDL=6.0ps exposed; L t with any Ill areas wh rain formul ithstanding de section:	2 row(s) at af; h=25ft; Ca umber DOL other live loa ere a rectar a. Building 45 lb uplift s R502.11.1	4" o.c. for 2-0 at. II; Exp C; I =1.60 plate g ids. gle 3-6-0 tall designer sho at joint 1 and and R802.10	-0; starting Enclosed; rip DOL=1 by 2-0-0 v uld verify 41 lb uplift .2 and	o at 60 <i>v</i> ide		ANG LIU ENSEO 198 NALENO
Design valid fo	or use only with	MiTek® connectors. Th	nis design is based o	D INCLUDED MITEK REFE	vn, and is for	an individual bu	ilding componer	t, not		MI	

Mitek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017

Design valid for use only with MI 1ek® connectors. This design is based only upon parameters snown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



13

6x18 =

15

2

14

3x6 ||

8x12 M18SHS =

18

4x9 ⋍

x8 =

3x6 ||

17

2x4 ||

16

2x4 ||

0-9-0

	8-9-8 8-9-8	6-8-10	<u>12-10-8</u> 6-1-14		0-2-4 -3-12			<u>27-11-3</u> 7-8-15		33-1-8		
Plate Offsets (X		[2:0-6-15,Edge], [5:0-4-4										
LOADING (psf TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0))) *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.78 BC 0.85 WB 0.99 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.47 -0.87 0.37	(loc) 15-16 15-16 10 15-16	l/defl >843 >453 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 195 lk	GRIP 197/144 197/144 0 FT = 10	%
BOT CHORD WEBS DTHERS	5-6: 2x 2x4 SP 2-15: 2 2x3 SP 2-17,8- 2x8 SP	2 DSS *Except* 4 SPF No.2, 6-9: 2x4 SPl F No.2 *Except* x4 SPF 2100F 1.8E, 4-14 F No.2 *Except* 10: 2x6 SPF No.2 DSS 3 SP DSS one side		2	BRACING- TOP CHOR BOT CHOR WEBS		except Rigid c	end verti	cals, and 2	directly applied or 2-2-0 -0-0 oc purlins (2-9-7 m d or 8-10-6 oc bracing. 3-15, 5-13		
TOP CHORD	Max H Max U Max G - Max. 1-2=- 6-7=- 2-16=	e) 1=0-3-8, 10=0-3-8 orz 1=-75(LC 9) plift 1=-238(LC 4), 10=-3 rav 1=1469(LC 1), 10=11 Comp./Max. Ten All foi 480/128, 2-3=-4979/792, 2652/409, 7-8=-3007/465 -784/4990, 15-16=-780/4	626(LC 1) rces 250 (lb) or 3-4=-3615/574 3, 8-10=-1561/3 4977, 4-15=-542	, 4-5=-3609/629, 5-6=-2 42 2/183, 11-13=-374/2802,	439/424, 10-11=-6/272					THE NU	EGANG LIU MBER	UP * Ha
NEBS		=-1576/328, 13-15=-386/2 =-454/210, 8-11=-434/254		3/1428, 5-13=-873/194, 6	5-13=0/408,					-ORESS O	29713	A.I.
 Attached 14- from end at j 6-1-0 from ei Unbalanced Wind: ASCE MWFRS (en grip DOL=1.6 	oint 1, r nd at joi roof live 7-16; V velope) 50	ab 1 to 5, front face(s) 2x nail 2 row(s) at 2" o.c. for nt 1, nail 2 row(s) at 7" o. loads have been consid fult=115mph (3-second g gable end zone; cantilev ainage to prevent water p	2-0-0; starting a c. for 2-0-0. ered for this de: ust) Vasd=91m er left and right	at 2-9-1 from end at joint sign. ph; TCDL=6.0psf; BCDL	1, nail 2 row(s) at 4 =6.0psf; h=25ft; Ca	1" o.c. f it. II; E>	for 2-0-0 kp C; En	; starting	0-1-8 at ate	PROFESSION IN THE PROFESSION OF THE PROFESSION O	GANG LIC	in the second se
 5) All plates are 6) This truss ha 7) * This truss h will fit betwee 8) Bearing at jo capacity of b 	MT20 Is been has been en the b int(s) 1 earing s	plates unless otherwise in designed for a 10.0 psf b n designed for a live load ottom chord and any othe considers parallel to grain surface.	ndicated. ottom chord live of 20.0psf on tl er members. n value using A	he bottom chord in all ard NSI/TPI 1 angle to grain	eas where a rectan formula. Building	gle 3-6 designe	er should	d verify		1 PROF	9198 Martin	NEER
joint 10. 10) This truss is referenced	s desigr standar	connection (by others) of ned in accordance with th d ANSI/TPI 1.	e 2018 Internat	ional Residential Code s	ections R502.11.1	and R8	302.10.2	and	lift at		DNAL EN	20
WARNING Design valid	G - Verify of for use of	design parameters and READ NC nly with MiTek® connectors. This use, the building designer mus	DTES ON THIS AND is design is based o	INCLUDED MITEK REFERENCE	CE PAGE MII-7473 rev. 5 nd is for an individual bu	i/19/2020	BEFORE	USE. not		MI	a	

16023 Swingley Ridge Rd Chesterfield, MO 63017

8

₩ 10

8x8 🗢

12

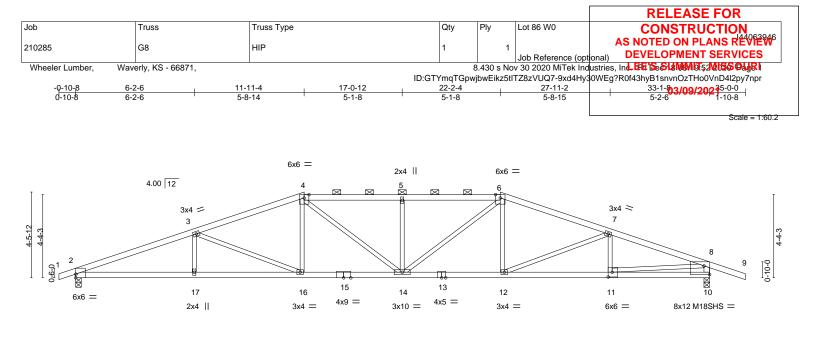
4x9 =

11

6x6 =

0-10-0

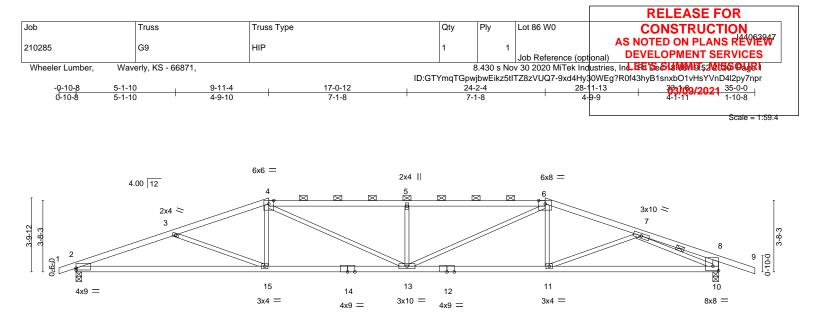
Design valid or use only with with exercences. Inits design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Store and the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



		6-2-6	<u>10-11-4</u> 4-8-14	<u>17-0-12</u> 6-1-8	22-2-4		27-11-		33-1-8	
Plate Offse	ets (X.Y)		Edge,0-5-8], [11:0-2	• • •	5-1-6		-0-C)	5-2-0	
LOADING	u /	SPACING-	2-0-0	CSI.		n (loc)	l/defl L	-	PLATES	GRIP
TCLL	25.0	Plate Grip D		TC 0.78		7 14-16	>999 36		MT20	197/144
TCDL	10.0	Lumber DOL		BC 0.97		9 14-16	>806 24	-	M18SHS	197/144
BCLL BCDL	0.0 *	Rep Stress I		WB 0.84	Horz(CT) 0.1		n/a n	-	Wajaht 117 lb	FT 400/
BCDL	10.0	Code IRC20	18/1912014	Matrix-S	Wind(LL) 0.2	0 14-16	>999 24	0	Weight: 117 lb	FT = 10%
LUMBER-					BRACING-					
TOP CHO	RD 2x4 S	PF No.2			TOP CHORD	Structu	ural wood shea	athing dire	ctly applied or 2-2-0 c	oc purlins,
BOT CHO	RD 2x4 S	PF No.2				except	end verticals,	and 2-0-0	oc purlins (3-0-2 ma	x.): 4-6.
WEBS		PF No.2 *Except*			BOT CHORD	Rigid c	eiling directly	applied or	2-2-0 oc bracing.	
	8-10: 3	2x4 SPF No.2								
REACTION	Max I Max I	e) 2=0-3-8, 10=0-3 Horz 2=66(LC 12) Jplift 2=-293(LC 4), 1 Grav 2=1546(LC 1),	10=-333(LC 5)						UNITE OF	MISSI
FORCES. TOP CHOI	RD 2-3=		2/515, 4-5=-3012/53	less except when shown 8, 5-6=-3012/538, 6-7=-2					IL ATE.	- 000
BOT CHO	RD 2-17	=-547/3300, 16-17=-		88/2726, 12-14=-308/261	2, 11-12=-387/2782,					GANG
14/550		11=-25/349			45/050				= *:	· · · · · · · · · · · · · · · · · · ·
WEBS				8, 5-14=-460/175, 6-14=-1	145/659,				2 1	; =
	6-12	=0/275, 8-11=-401/2	449						-D: NUM	ABER :
NOTES-									- 1.	9713
	nced roof liv	e loads have been c	onsidered for this de	sian						.2.
				ph; TCDL=6.0psf; BCDL=	=6.0psf; h=25ft; Cat. II;	Exp C; Er	nclosed;		1.50	G
MWFRS	S (envelope) gable end zone; ca	ntilever left and right	exposed ; end vertical lef	ft and right exposed; Lu	mber DO	L=1.60 plate		IN ON	ALENN
grip DO									100	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
		rainage to prevent w								
		plates unless otherw		-					111	11111
				e load nonconcurrent with he bottom chord in all are		6 0 toll b	v 2 0 0 wide		IN IFG	ANG
		bottom chord and an			as where a reciallyle s	-0-0 tail D	y 2-0-0 wide		1 10	
				g plate capable of withsta	anding 293 lb unlift at io	nt 2 and	333 lb unlift at		S jor	INSEN
joint 10.		Connection (by othe		g plate capable of withste	anding 200 ib upint at jo				- 3 / X	
		ed in accordance wit	h the 2018 Internation	onal Residential Code sec	ctions R502.11.1 and R	302.10.2	and		TICE TICE TICE	
		d ANSI/TPI 1.							= : 19	198 : E
9) Graphic	al purlin rep	resentation does not	t depict the size or th	e orientation of the purlin	along the top and/or bo	ottom cho	rd.		= -11/1-	
										ANTIS



December 18,2020

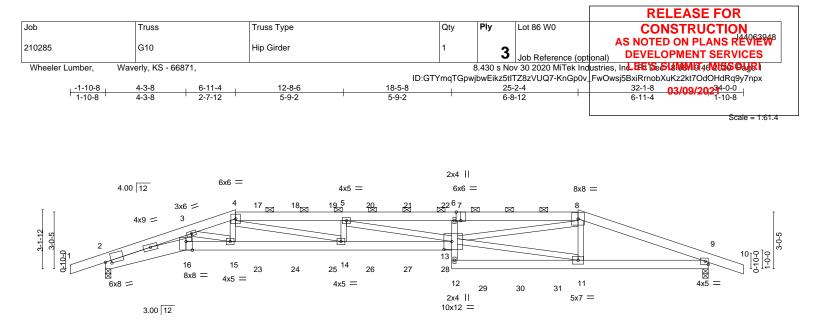


⊢	8-11-4	17-0-12	24-			33-1-8	
Plate Offsets (X,	8-11-4 Y) [2:0-0-0,0-1-2], [10:Edge,0-2-12]	8-1-8	7-1	-8		8-11-4	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.66 BC 0.75 WB 0.62 Matrix-S	Vert(LL) -0.28	2-15 >756 10 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 112 lb	GRIP 197/144 FT = 10%
BOT CHORD 2 1 WEBS 2	2x4 SPF No.2 *Except* 4-6: 2x4 SPF 2100F 1.8E 2x4 SPF 2100F 1.8E *Except* 12-14: 2x4 SPF No.2 2x3 SPF No.2 *Except* 3-10: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except end ve	rticals, and 2-0- rectly applied c	ectly applied or 2-6-5 c -0 oc purlins (3-4-8 ma or 8-10-5 oc bracing. -10	
	(size) 2=0-3-8, 10=0-3-8 Max Horz 2=54(LC 12) Max Uplift 2=-302(LC 4), 10=-343(LC 5) Max Grav 2=1546(LC 1), 10=1622(LC 1) - Max. Comp./Max. Ten All forces 250 (lb) 2-3=-3506/678, 3-4=-3209/554, 4-5=-3664/ 7-8=-405/22, 8-10=-424/138 2-15=-618/3235, 13-15=-445/2995, 11-13= 3-15=-263/234, 4-15=0/386, 4-13=-225/911 6-11=0/256, 7-11=0/411, 7-10=-2539/573	678, 5-6=-3664/678, 6-7=- -361/2787, 10-11=-429/259	2979/502, 95			PP NUM	MISSOURA
 Wind: ASCE 7 MWFRS (envir- grip DOL=1.6(Provide adeqt This truss has * This truss has * This truss has * Provide truss has 	oof live loads have been considered for this 7-16; Vult=115mph (3-second gust) Vasd=91 elope) gable end zone; cantilever left and rig 0 uate drainage to prevent water ponding. a been designed for a 10.0 psf bottom chord as been designed for a live load of 20.0psf o n the bottom chord and any other members. anical connection (by others) of truss to bea	mph; TCDL=6.0psf; BCDL ht exposed ; end vertical le ive load nonconcurrent wit n the bottom chord in all ar	oft and right exposed; Lun h any other live loads. eas where a rectangle 3-f	ber DOL=1.60 6-0 tall by 2-0-0	plate wide	E-2 HORESSION HUEG	ino.
referenced sta	lesigned in accordance with the 2018 Interna andard ANSI/TPI 1.					19	198

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







F	4-3-8	6-11-4	12-8-6 5-9-2	<u>18-5-8</u> 5-9-2	<u>25-2-4</u> 6-8-12		<u>32-1-8</u> 6-11-4	
Plate Offsets (X,Y)					0-0-12		0-11-4	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING Plate Grip Lumber D Rep Stress	- 2-0-0 DOL 1.15 OL 1.15	CSI. TC 0.71 BC 0.48 WB 0.72 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) l/de -0.51 13-14 >74 -0.92 13-14 >41 0.26 9 n 0.38 13-14 >99	4 360 4 240 /a n/a	PLATES MT20 Weight: 552 lb	GRIP 197/144 FT = 10%
BCDL 10.0	Code IKC	2010/1712014	Wattix-S	VVIIId(LL)	0.36 13-14 >98	9 240	weight. 552 lb	FT = 10%
WEBS 2x4 SF	P 2400F 2.0E *Exc 2x8 SP DSS PF No.2			BRACING- TOP CHOR BOT CHOR	D Structural w 2-0-0 oc pur	lins (6-0-0 max.)	rectly applied or 6-0-0 : 4-8. or 10-0-0 oc bracing.	oc purlins, except
Max H Max U Max G	ze) 2=0-3-8, 9=0 Horz 2=50(LC 33) Jplift 2=-554(LC 4 Grav 2=3163(LC 1), 9=-586(LC 5)), 9=3276(LC 1)					NUL OF	MISSI
TOP CHORD 2-3=		=-12465/1846, 4-5=-1	or less except when shown 5843/2259, 5-6=-16501/2-				S. VIIE	GANG
	5=-1815/12411, 15 2=-147/1076, 9-11		15=-1707/11960, 13-14=	2182/15843,				IU
WEBS 12-13 4-14	3=-32/552, 6-13=-	391/152, 3-16=-262/2	2093, 3-15=-168/595, 4-15 /781, 11-13=-947/6608, 8	,			- 2.	MBER 0
	ted as follows: 2x6 nected as follows:	6 - 2 rows staggered a 2x8 - 2 rows staggere		s staggered at 0-9-	0 ос.		THE SSION	AL ENGINIT
 All loads are considered ply connections have Unbalanced roof live Wind: ASCE 7-16; Notest Action of the second secon	dered equally appli ve been provided t re loads have been Vult=115mph (3-se	ed to all plies, except o distribute only loads n considered for this d econd gust) Vasd=91	if noted as front (F) or bac s noted as (F) or (B), unles esign. nph; TCDL=6.0psf; BCDL tt exposed ; end vertical le	s otherwise indicat =6.0psf; h=25ft; Ca	ed. at. II; Exp C; Enclose	ed;	Tic 19	ANG LIU
 5) Provide adequate d 6) This truss has been 7) * This truss has bee 	n designed for a 10 en designed for a l).0 psf bottom chord li ive load of 20.0psf on	ve load nonconcurrent wit the bottom chord in all ar			0 wide	19	198
 Bearing at joint(s) 2 capacity of bearing 	2 considers paralle surface.	с с	ANSI/TPI 1 angle to grain	Ū	0			ASAS MA
joint 9.	ned in accordance	,	ational Residential Code s	0 1		σμπι αι	Decemb	NAL EN,11
		s not depict the size o	r the orientation of the pur	lin along the top an	d/or bottom chord.		Decemb	
Design valid for use o a truss system. Before building design. Brac is always required for fabrication, storage, d	only with MiTek® conne re use, the building des cing indicated is to prev r stability and to preven delivery, erection and b	ectors. This design is based igner must verify the applic rent buckling of individual tri t collapse with possible per racing of trusses and truss	ID INCLUDED MITEK REFEREN only upon parameters shown, a ability of design parameters and uss web and/or chord members o sonal injury and property damag systems, see ANS/ITPI ghway, Suite 203 Waldorf, MD 2	nd is for an individual bu properly incorporate this only. Additional tempora e. For general guidance 1 Quality Criteria, DSB	ilding component, not design into the overall ry and permanent bracing		NiTek 16023 Swingle Chesterfield, N	y Ridge Rd IO 63017

					Γ	RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	G10	Hip Girder	1			AS NOTED ON PLANS REVIEW
210200			1	3	Job Reference (option	
Wheeler Lumber, Wav	erly, KS - 66871,			3.430 s No	v 30 2020 MiTek Indu	istries, Ind. EE SeSIAMMOT47MUSS OMBL

ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-ozqBEF?uhi2jKFm7G8M0Ko434NNzcaemdxM_Nby7npw

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 35 lb up at 6-11-4, 116 lb down and 35 lb up at 6-11-8-0-12, 116 lb down and 35 lb up at 10-0-12, 116 lb down and 35 lb up at 12-0-12, 116 lb down and 35 lb up at 14-0-12, and 116 lb down and 35 lb up at 16-0-12, and 116 lb down and 35 lb up at 18-0-12 on top chord, and 445 lb down and 133 lb up at 6-11-4, 99 lb down and 22 lb up at 7-0-0, 99 lb down and 22 lb up at 8-0-12, 99 lb down and 22 lb up at 10-0-12, 99 lb down and 22 lb up at 12-0-12, 99 lb down and 22 lb up at 14-0-12, 99 lb down and 22 lb up at 16-0-12, 99 lb down and 22 lb up at 18-0-12, 262 lb down and 39 lb up at 20-0-12, 262 lb down and 39 lb up at 22-0-12, and 262 lb down and 39 lb up at 24-0-12, and 701 lb down and 168 lb up at 25-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

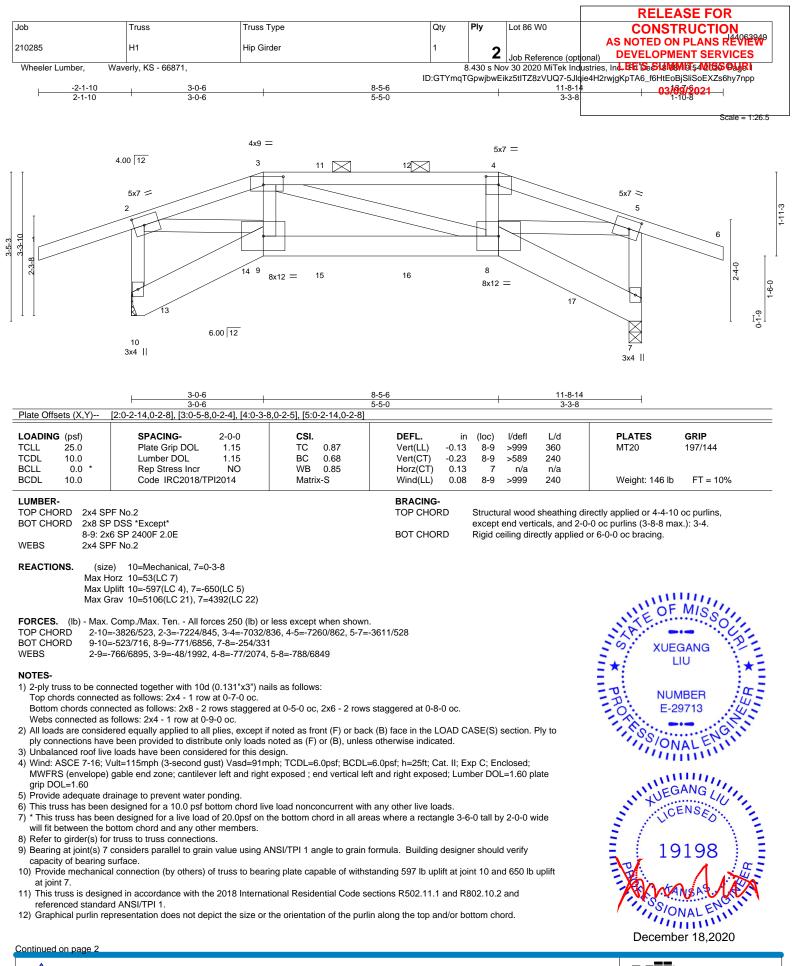
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-70, 4-8=-70, 8-10=-70, 2-16=-20, 13-16=-20, 9-12=-20

Concentrated Loads (lb)

Vert: 15=-544(B=-445) 4=-95(B) 11=-701(B) 17=-95(B) 18=-95(B) 19=-95(B) 20=-95(B) 21=-95(B) 22=-95(B) 23=-99 24=-99 25=-99 26=-99 27=-99 28=-99 29=-262(B) 30=-262(B) 31=-262(B)





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

16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210285	H1	Hip Girder	1	_		
210200					Job Reference (option	
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s No	v 30 2020 MiTek Indus	tries, Ind. EFE SeSI 108010540055 Oug R1

NOTES-

ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-5JIqie4H2rwjgKpTA6_f6HtEoBjSliSoEXZs6hy7npp

NOTES-13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 lb down and 189 lb up at 3-0-6, 73 lb down and 55 lb up at 4-4-14, and 73 lb down and 55 lb up at 6-4-14, and 174 lb down and 189 lb up at 8-5-6 on top chord, and 1343 lb down and 68 lb up at 0-6-6, 1400 lb down and 70 lb up at 2-4-14, 89 lb down and 76 lb up at 3-0-6, 1390 lb down and 63 lb up at 4-4-14, 31 lb down and 24 lb up at 4-4-14, 1345 lb down and 59 lb up at 6-4-14, 31 lb down and 24 lb up at 4-4-14, 89 lb down and 76 lb up at 8-3-10, and 1345 lb down and 58 lb up at 8-3-10, and 1345 lb down and 217 lb up at 10-4-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

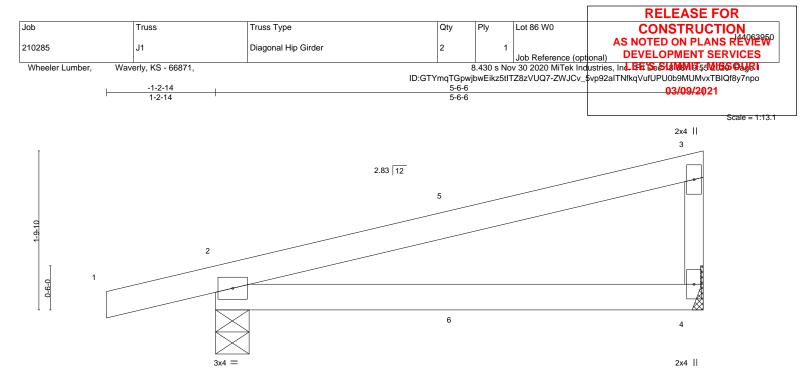
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 9-10=-20, 8-9=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 3=28(F) 4=28(F) 9=-14(F) 8=-1359(F=-14, B=-1345) 11=-0(F) 12=-0(F) 13=-1343(B) 14=-1400(B) 15=-1398(F=-8, B=-1390) 16=-1353(F=-8, B=-1345) 17=-1345(B)





					5-6-6 5-6-6					———————————————————————————————————————
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC 0.52 BC 0.32 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.05 -0.09 -0.00	(loc) 2-4 2-4 4	l/defl >999 >696 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TP	12014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

REACTIONS. 4=Mechanical, 2=0-4-9 (size) Max Horz 2=65(LC 5) Max Uplift 4=-44(LC 8), 2=-109(LC 4) Max Grav 4=222(LC 1), 2=349(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 4 and 109 lb uplift at ioint 2.
- 6) 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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 34 lb up at 2-9-8, and 67 lb down and 34 lb up at 2-9-8 on top chord, and 2 lb down at 2-9-8, and 2 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-3=-70, 2-4=-20

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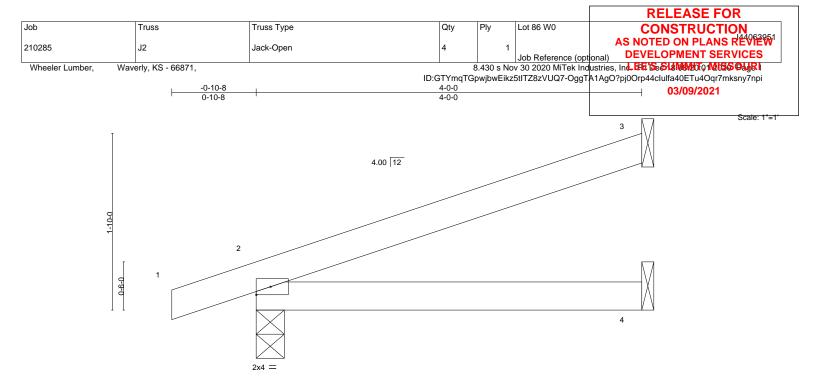
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.01 2-4 >999 3	360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.02 2-4 >999 2	240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 2	240 Weight: 11 lb FT = 10%

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size)

Max Horz 2=67(LC 4)

Max Uplift 3=-64(LC 8), 2=-69(LC 4) Max Grav 3=123(LC 1), 2=252(LC 1), 4=76(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3 and 69 lb uplift at ioint 2.

6) 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.

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December 18,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

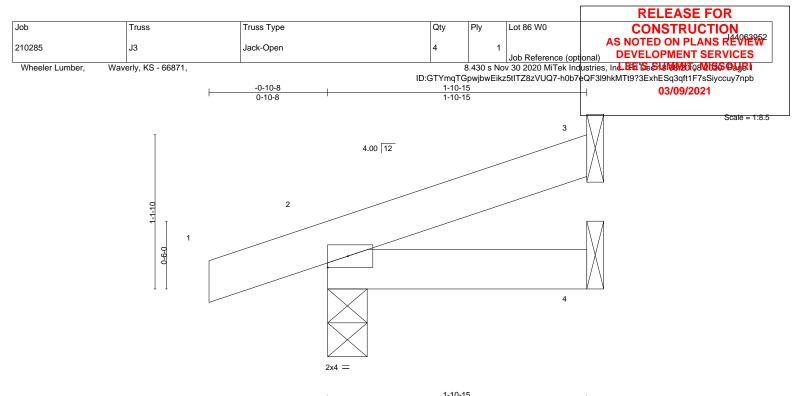
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

BRACING-

TOP CHORD BOT CHORD

100

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



			1-10-15
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 2 >999 360 MT20 197/144 Vert(CT) -0.00 2-4 >999 240 MT20 197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	
TCDL 10.0	Lumber DOL 1.15	BC 0.03	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240 Weight: 6 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size)

Max Horz 2=39(LC 4)

Max Uplift 3=-29(LC 8), 2=-56(LC 4)

Max Grav 3=50(LC 1), 2=163(LC 1), 4=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 3 and 56 lb uplift at ioint 2.

6) 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.

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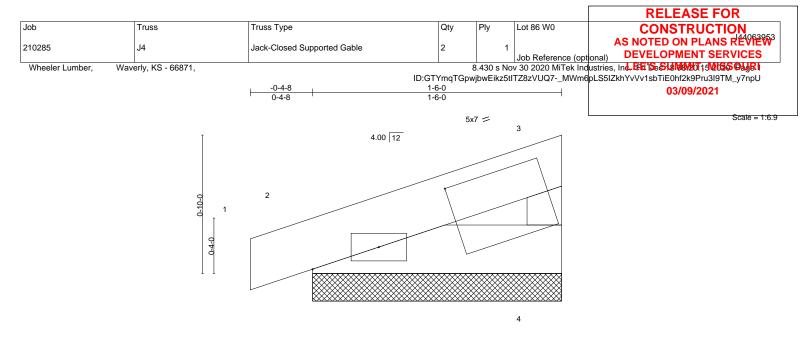
Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ONAL min December 18,2020



2x4 =



OADING (psf) CLL 25.0 CDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.03 BC 0.02	Vert(LL) -0.00 Vert(CT) 0.00	(loc) 1 1	l/defl L/d n/r 120 n/r 120	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00	4	n/a n/a	Weight: 4 lb FT = 10%

BOT CHORD

except end verticals.

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

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. (size) 4=1-6-0, 2=1-6-0

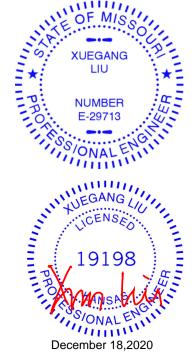
Max Horz 2=24(LC 5) Max Uplift 4=-12(LC 8), 2=-28(LC 4)

Max Grav 4=59(LC 1), 2=93(LC 1)

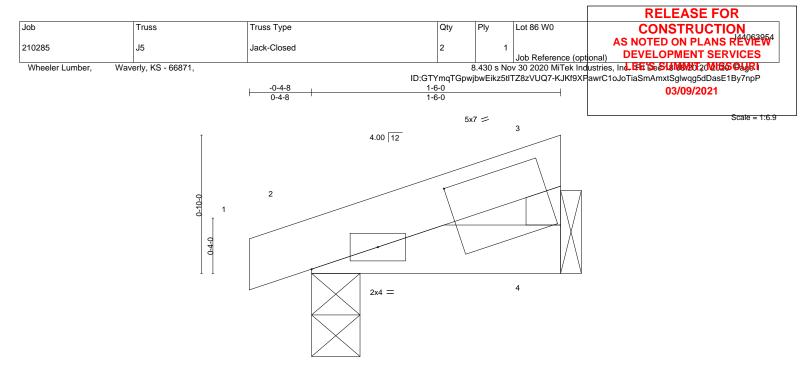
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 28 lb uplift at joint 2.
- 8) 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.







	1	1-6-0	I.	
	Γ	1-6-0	1	
Plate Offsets (X,Y) [3:0-10-14,0-2-8]				

BUDL 10.0 CODE IRUZU18/1PIZU14 Matrix-P VVInd(LL) $0.00 Z^{-1000}$ 240 VVIId(L VVIId) FL = 10%	LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.02 BC 0.02 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.00 -0.00 -0.00 0.00	(loc) 2 2 4 2	l/defl >999 >999 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 4 lb	GRIP 197/144 FT = 10%
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TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

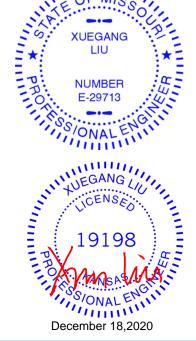
REACTIONS. (size) 4=Mechanical, 2=0-3-8

Max Horz 2=24(LC 5) Max Uplift 4=-12(LC 8), 2=-30(LC 4) Max Grav 4=57(LC 1), 2=94(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 30 lb uplift at joint 2.
- 6) 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.



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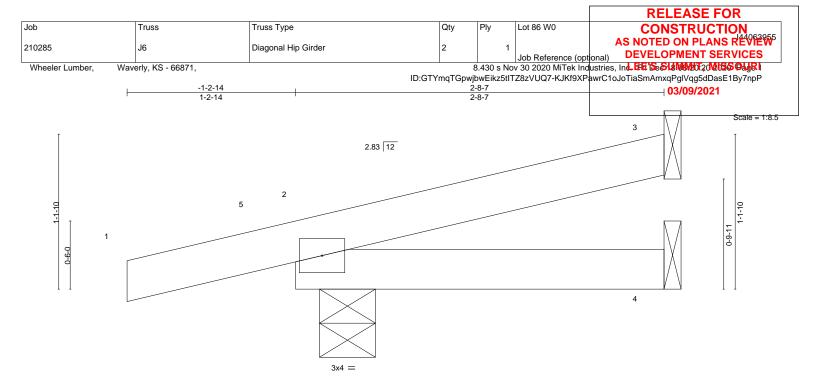
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Structural wood sheathing directly applied or 1-6-0 oc purlins,

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

except end verticals.





				0-2-1			2-8-7 2-6-6				
	u /	SPACING-	2-0-0	CSI. TC 0.22	DEFL.	in	(loc)	l/defl >999	L/d	PLATES MT20	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	BC 0.04	Vert(LL) Vert(CT)	-0.00 -0.00	2-4 2-4	>999 >999	360 240	MT20	197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/T	NO PI2014	WB 0.00 Matrix-P	Horz(CT) Wind(LL)	-0.00 0.00	3 2	n/a ****	n/a 240	Weight: 8 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-4-15, 4=Mechanical

Max Horz 2=45(LC 6)

Max Uplift 3=-38(LC 6), 2=-112(LC 6)

Max Grav 3=23(LC 1), 2=92(LC 1), 4=37(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 3 and 112 lb uplift at joint 2.

- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 6 lb up at -1-2-14, and 18 lb down and 6 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Concentrated Loads (lb) Vert: 1=-29(F=-14, B=-14)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-5=-19(F=25, B=25), 5=0(F=35, B=35)-to-3=-49(F=10, B=10), 2=-2(F=9, B=9)-to-4=-14(F=3, B=3)

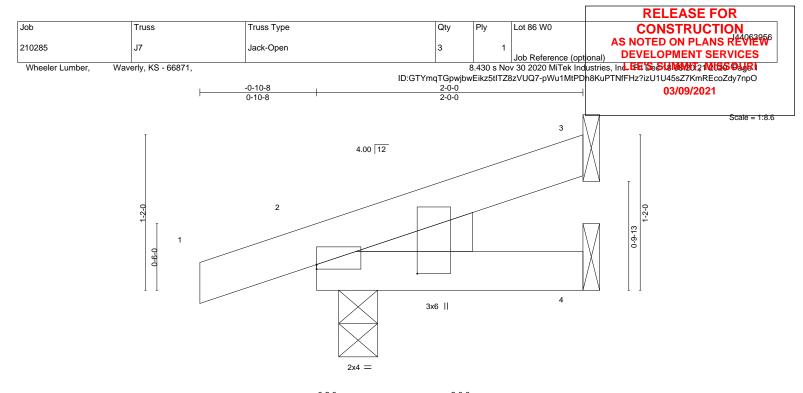
NUMBER E-29713

Structural wood sheathing directly applied or 2-8-7 oc purlins.

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







			0-2-0		2-0-0 1-10-0					
offsets (X,Y)	[2:0-0-0,0-0-6], [2:0-0-13	3,0-9-1]								
NG (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 7 lb	FT = 10%

LUMBER-

Plate Off

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8 Max Horz 2=40(LC 4) Max Uplift 3=-31(LC 8), 2=-56(LC 4)

Max Grav 3=54(LC 3), 2=-56(LC 4)Max Grav 3=54(LC 1), 4=39(LC 3), 2=166(LC 1)

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

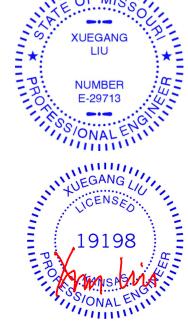
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 56 lb uplift at joint 2.

6) 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.



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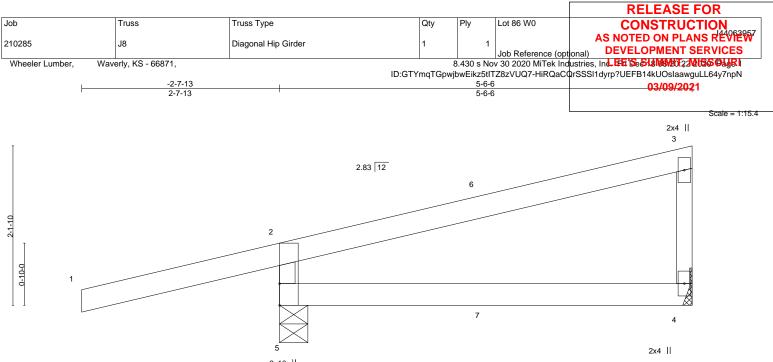
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Structural wood sheathing directly applied or 2-0-0 oc purlins.

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

December 18,2020





3x10 ||

		5-6-6 5-6-6						
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. DEFL TC 0.61 Vert(I	()	PLATES GRIP MT20 197/144				
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.24 Vert(WB 0.00 Horz(Matrix-R Wind	CT) 0.00 4 n/a n/a	Weight: 17 lb FT = 10%				

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No.2 BOT CHORD WEBS 2x3 SPF No.2

REACTIONS. 5=0-4-9, 4=Mechanical (size) Max Horz 5=88(LC 7)

Max Uplift 5=-186(LC 4), 4=-34(LC 8)

Max Grav 5=475(LC 1), 4=182(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-427/216

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 5 and 34 lb uplift at joint 4.
- 6) 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.

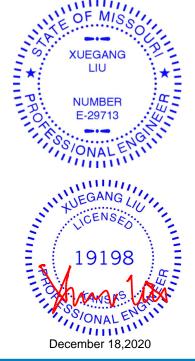
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 15 lb up at 2-9-8, and 74 lb down and 15 lb up at 2-9-8 on top chord, and 6 lb down and 7 lb up at 2-9-8, and 6 lb down and 7 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=15(F=7, B=7)

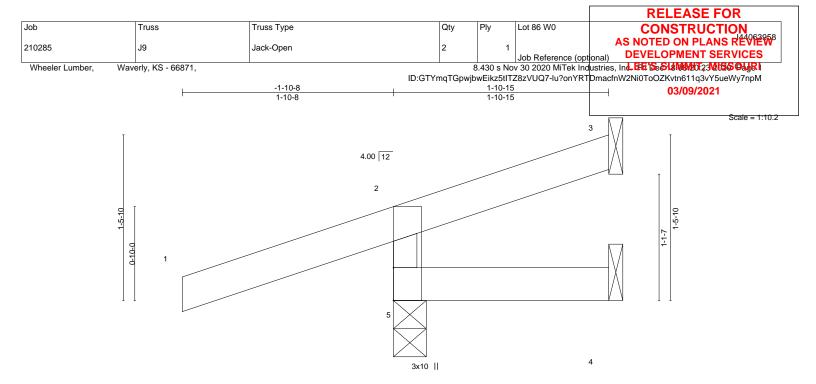


Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.





							1-10-1 1-10-1	-			
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2	2014	Matri	ĸ-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-

Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=51(LC 4) Max Uplift 5=-130(LC 4), 3=-12(LC 8) Max Grav 5=296(LC 1), 3=4(LC 4), 4=30(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-263/140

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 5 and 12 lb uplift at joint 3.
- 6) 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.

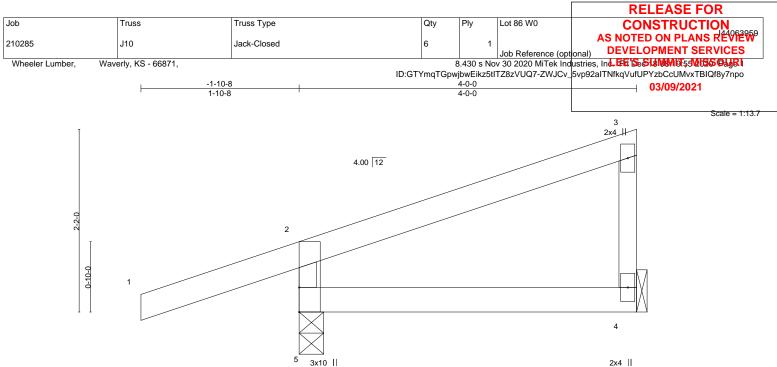


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16023 Swingley Ridge Rd Chesterfield, MO 63017



4-0-0	

			•	4-0-0
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.01 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.02 4-5 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240 Weight: 13 lb FT = 10%

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEBS

2x3 SPF No.2 REACTIONS. 5=0-3-8, 4=Mechanical (size)

Max Horz 5=92(LC 5) Max Uplift 5=-129(LC 4), 4=-28(LC 8)

Max Grav 5=345(LC 1), 4=134(LC 1)

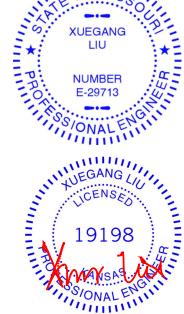
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-306/153

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 5 and 28 lb uplift at joint 4.
- 6) 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.



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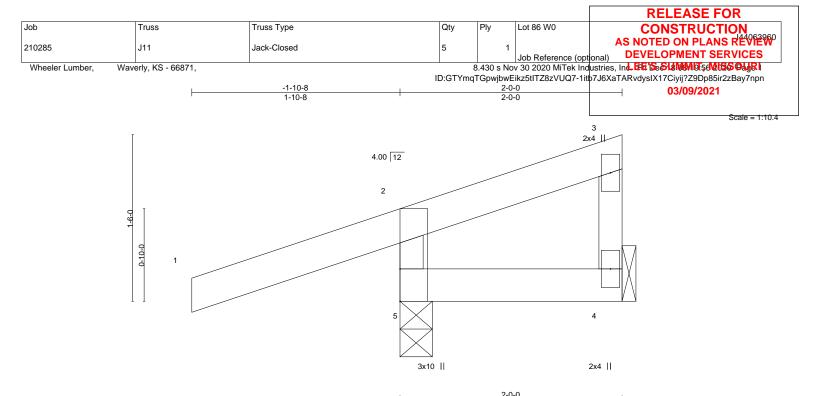
December 18,2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



	T				2-0)-0			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -	-0.00	5	>999	360	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -	-0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 8 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

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LUMBER-
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2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS

2x3 SPF No.2

REACTIONS. 5=0-3-8, 4=Mechanical (size) Max Horz 5=73(LC 7) Max Uplift 5=-139(LC 4), 4=-10(LC 5) Max Grav 5=296(LC 1), 4=32(LC 3)

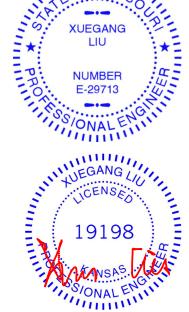
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-266/147

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 5 and 10 lb uplift at joint 4.
- 6) 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.



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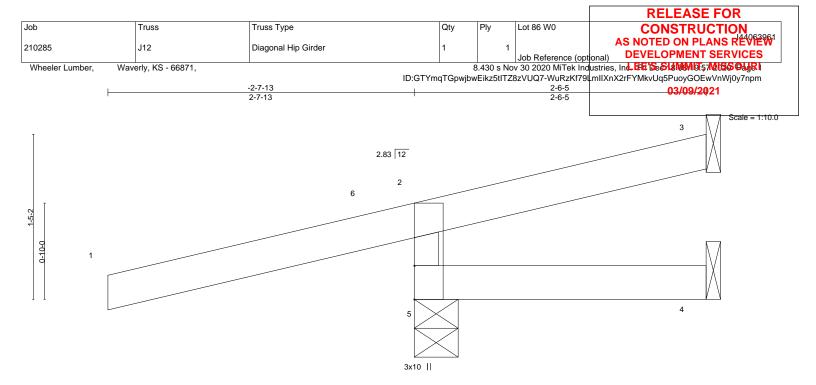
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

December 18,2020





										2-6-5		
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS

2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-6-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

2-6-5

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=51(LC 7) Max Uplift 5=-146(LC 4), 3=-42(LC 16), 4=-13(LC 1) Max Grav 5=249(LC 1), 3=30(LC 4), 4=27(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 5, 42 lb uplift at joint 3 and 13 lb uplift at joint 4.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 42 lb down and 15 lb up at -2-7-13, and 42 lb down and 15 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
 - Vert: 1=-65(F=-33, B=-33)
- Trapezoidal Loads (plf)
 - Vert: 1=-0(F=35, B=35)-to-6=-41(F=14, B=14), 6=0(F=35, B=35)-to-2=-7(F=31, B=31), 2=-7(F=31, B=31)-to-3=-50(F=10, B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)



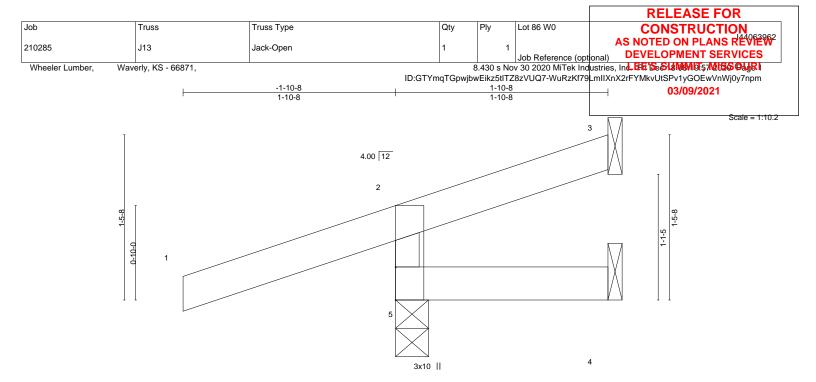
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minin December 18,2020



								1-10-	-			
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(Ll) 0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(C) -0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(C	T) -0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(L	L) -0.00	5	>999	240	Weight: 7 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-

BOT CHORD

1-10-8

Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=50(LC 4) Max Uplift 5=-131(LC 4), 3=-11(LC 8) Max Grav 5=296(LC 1), 3=6(LC 4), 4=29(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-263/140

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 5 and 11 lb uplift at joint 3.
- 6) 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.

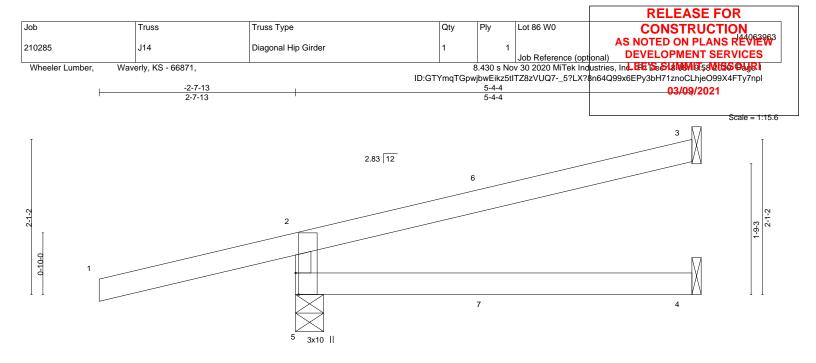


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					5-4-4					
					5-4-4					
Plate Offsets (X,Y)	[5:0-3-8,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
								1.000		

LUMBER	-					BRACING							
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	-0.03	4-5	>999	240	Weight: 16 lb	FT = 10%	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	3	n/a	n/a			
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	4-5	>999	240			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals. BOT CHORD

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

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=76(LC 4) Max Uplift 5=-198(LC 4), 3=-78(LC 8)

Max Grav 5=439(LC 1), 3=111(LC 1), 4=90(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-386/234 TOP CHORD

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 5 and 78 lb uplift at joint 3.

6) 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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 107 lb up at 2-7-6, and 62 lb down and 107 lb up at 2-7-6 on top chord, and 7 lb down and 8 lb up at 2-7-6, and 7 lb down and 8 lb up at 2-7-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

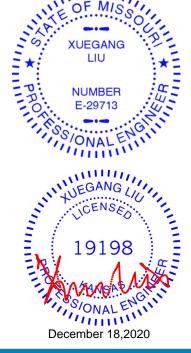
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

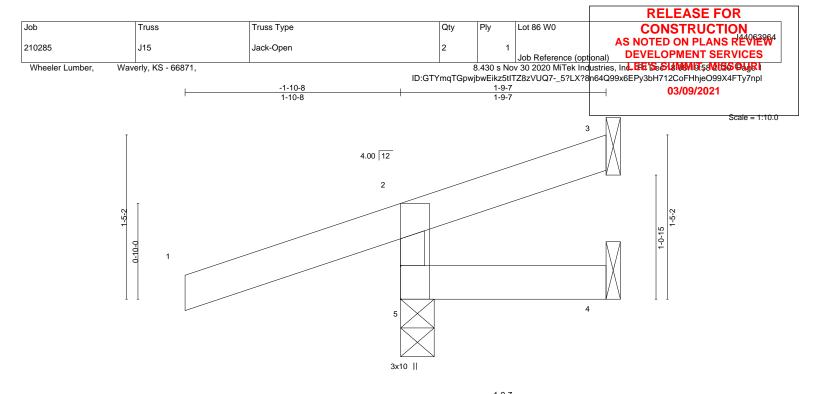
Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)

Vert: 6=59(F=29, B=29) 7=16(F=8, B=8)



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T		I		1-9	-7		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) 0.0	0 5	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) 0.0	0 5	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.0	0 5	>999	240	Weight: 7 lb FT = 10%

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-9-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=49(LC 4) Max Uplift 5=-132(LC 4), 3=-9(LC 5) Max Grav 5=296(LC 1), 3=9(LC 4), 4=27(LC 3)

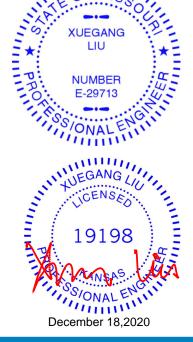
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-263/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 5 and 9 lb uplift at joint 3.
- 6) 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.

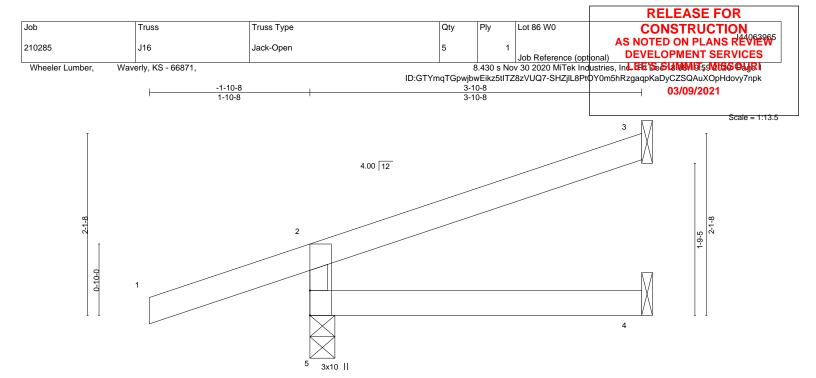


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						3-10- 3-10-	-				
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	912014	Matri	ĸ-R	Wind(LL)	0.00	4-5	>999	240	Weight: 12 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=77(LC 4) Max Uplift 5=-120(LC 4), 3=-51(LC 8) Max Grav 5=342(LC 1), 3=97(LC 1), 4=68(LC 3)

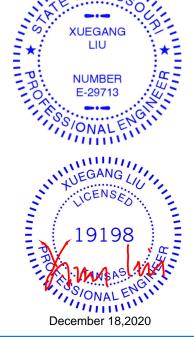
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-301/147

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 5 and 51 lb uplift at joint 3.
- 6) 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.



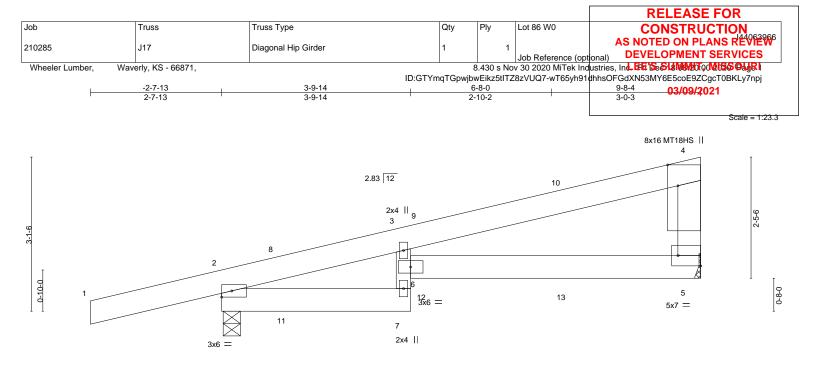
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	0- <u>9-6</u> 0-0-6	<u>3-9-14</u> 3-9-8		3-8-0 -10-2	1	<u>9-8-4</u> 3-0-3	
Plate Offsets (X,Y)	[4:0-5-1,Edge], [5:Edge,0-2-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.95 BC 0.53 WB 0.32 Matrix-S	DEFL. ir Vert(LL) -0.19 Vert(CT) -0.36 Horz(CT) 0.07 Wind(LL) 0.19	9 7 >595 6 7 >311 7 5 n/a	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 44 lb	GRIP 197/144 197/144 FT = 10%
		· ·	BRACING- TOP CHORD BOT CHORD	except end verti	cals.	ectly applied or 3-11- or 10-0-0 oc bracing.	15 oc purlins,
Max U	e) 5=Mechanical, 2=0-4-3 lorz 2=120(LC 21) plift 5=-152(LC 8), 2=-226(LC 4) rav 5=607(LC 1), 2=748(LC 1)						Miste
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) o 374/27, 3-4=-457/82, 4-5=-345/123 113/445)/265	less except when shown.					
MWFRS (envelope) DOL=1.60 2) All plates are MT20 3) This truss has been	/ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on	exposed ; end vertical left re load nonconcurrent with	exposed; Lumber DOL any other live loads.	=1.60 plate grip	ide	PROFILE	MBER 29713
will fit between the b 5) Refer to girder(s) for	ottom chord and any other members. r truss to truss connections. connection (by others) of truss to bearing			·			VALENI

rs) of truss to bearing plate capable of withstanding 152 lb up 6) joint 2.

7) 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.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 32 lb up at 1-3-7, 105 lb down and 65 lb up at 4-1-7, and 72 lb down and 36 lb up at 4-1-7, and 103 lb down and 56 lb up at 6-11-6 on top chord, and 3 lb down at 1-3-7, 20 lb down at 4-1-7, 35 lb down at 4-1-7, and 217 lb down and 82 lb up at 6-11-6, and 32 lb down and 28 lb up at 6-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 2-7=-20, 5-6=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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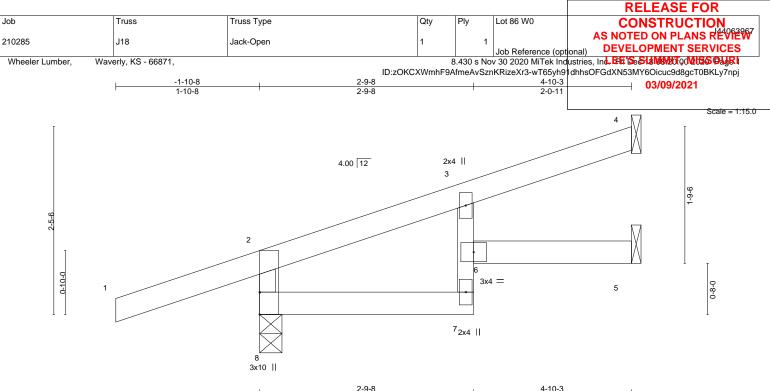
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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210285	J17	Diagonal Hip Girder	1	1		AS NOTED ON PLANS REVIEW
					Job Reference (opt	
Wheeler Lumber, Way	/erly, KS - 66871,			8.430 s No	v 30 2020 MiTek Ind	ustries, Ind. EE SeStanson Odds Oug R
			ID:GTYmqTGpwjb	wEikz5tITZ	28zVUQ7-wT65yh91	hhsOFGdXN53MY6E5coE9ZCgcT0BKLy7npj
LOAD CASE(S) Standard	Ч					03/09/2021
Concentrated Loads (Ib						

Vert: 9=-31(B) 10=-22(F) 12=-19(F=-10, B=-9) 13=-249(F=-32, B=-217)





		2	2-9-8			2-0-11	1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.0	2 6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.0	4 7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0)1 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	2 6	>999	240	Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=90(LC 4) Max Uplift 8=-121(LC 4), 4=-45(LC 8), 5=-4(LC 8) Max Grav 8=379(LC 1), 4=121(LC 1), 5=71(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-341/140

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

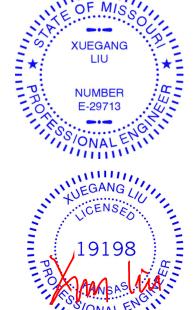
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 8, 45 lb uplift at joint 4 and 4 lb uplift at joint 5.

6) 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.



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Structural wood sheathing directly applied or 4-10-3 oc purlins,

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

except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



December 18,2020

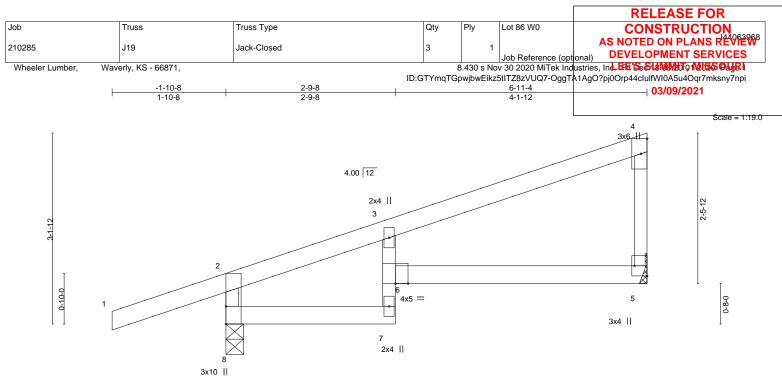


Plate Offse	ts (X.Y)	[5:Edge,0-2-8]		<u>2</u> -9- 2-9-	-				6-11- 4-1-1			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	-	0.47 0.42	Vert(LL) Vert(CT)	-0.10 -0.18	6 5-6	>812 >439	360 240	MT20	197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matrix-	0.00 R	Horz(CT) Wind(LL)	0.05 0.07	5 6	n/a >999	n/a 240	Weight: 21 lb	FT = 10%

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2 WEBS 2x3 SPF No.2

BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD

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

REACTIONS. (size) 8=0-3-8, 5=Mechanical Max Horz 8=94(LC 5) Max Uplift 8=-76(LC 4), 5=-20(LC 8)

Max Grav 8=462(LC 1), 5=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-418/91, 2-3=-263/10

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

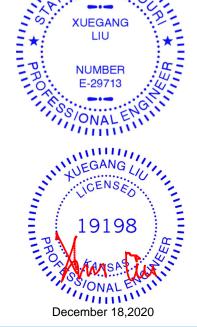
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3Ì will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 8 and 20 lb uplift at joint 5.

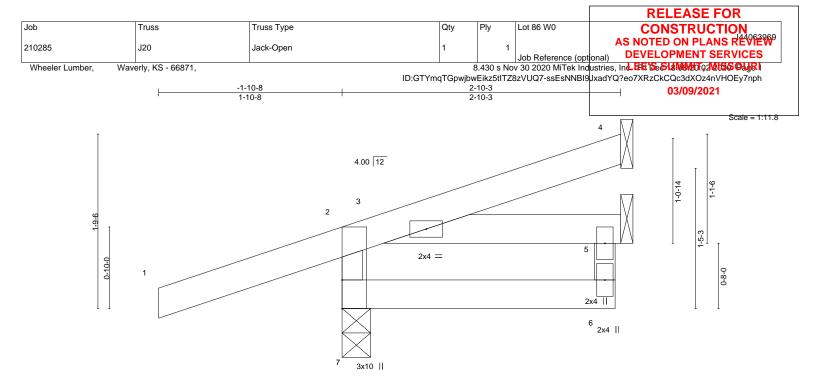
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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				-9-8 -9-8			<u> </u>	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.0) 6-7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.0) 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.0) 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) -0.0) 3	>999	240	Weight: 12 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS.

7=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 7=63(LC 4)

Max Uplift 7=-110(LC 4), 4=-30(LC 8)

Max Grav 7=330(LC 1), 4=57(LC 1), 5=91(LC 3)

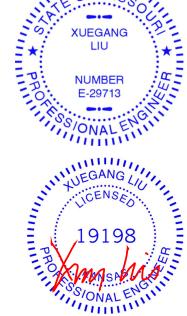
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-298/128

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 7 and 30 lb uplift at joint 4.
- 6) 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.



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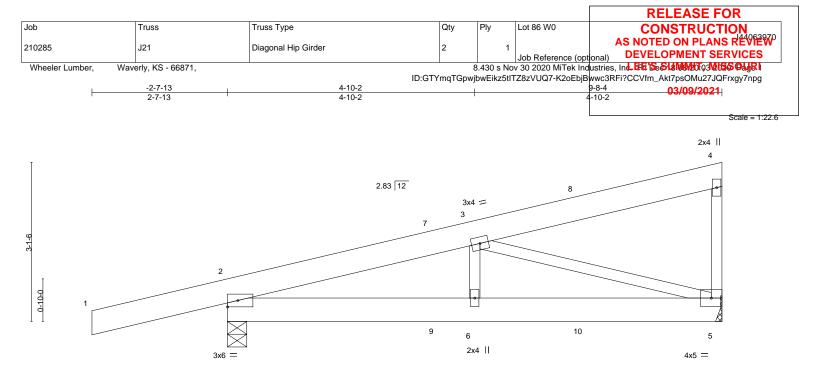
Structural wood sheathing directly applied or 2-10-3 oc purlins,

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

except end verticals.

December 18,2020





		<u>4-10-2</u> 4-10-2	<u>9-8-4</u> 4-10-2
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL. ir	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.38 Vert(LL) -0.02	
TCDL 10.0	Lumber DOL 1.15	BC 0.43 Vert(CT) -0.03	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.44 Horz(CT) 0.01	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S Wind(LL) 0.01	6 >999 240 Weight: 47 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x6 SPF No.2BOT CHORD2x6 SPF No.2WEBS2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-4-9 Max Horz 2=117(LC 22)

Max Uplift 5=-101(LC 8), 2=-220(LC 4) Max Grav 5=467(LC 1), 2=677(LC 1)

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

TOP CHORD 2-3=-792/124

BOT CHORD 2-6=-138/699, 5-6=-138/699

WEBS 3-5=-717/164

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 5 and 220 lb uplift at joint 2.

6) 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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 36 lb up at 4-1-7, 71 lb down and 36 lb up at 4-1-7, and 103 lb down and 75 lb up at 6-11-6, and 103 lb down and 75 lb up at 6-11-6 on top chord, and 10 lb down and 4 lb up at 4-1-7, 10 lb down and 4 lb up at 4-1-7, and 31 lb down at 6-11-6, and 31 lb down at 6-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

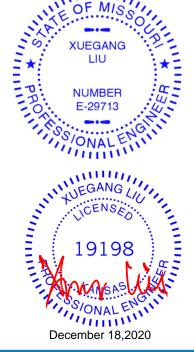
LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 2-5=-20

Concentrated Loads (Ib)

Vert: 8=-71(F=-35, B=-35) 9=8(F=4, B=4) 10=-37(F=-19, B=-19)



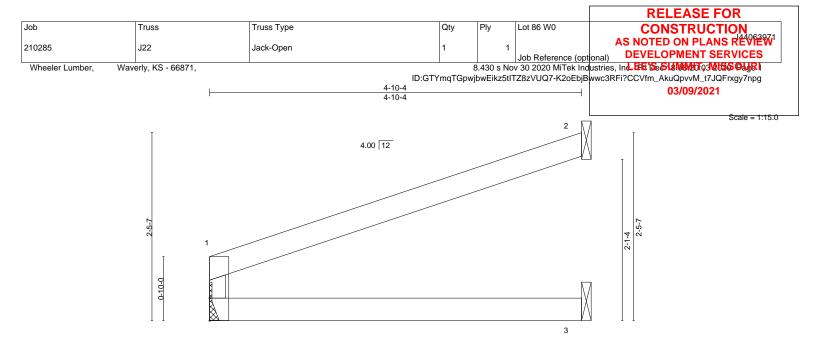
ALLIN

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

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

except end verticals.





3x10 ||

			4-10-4 4-10-4				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.37 BC 0.21 WB 0.00 Matrix-R	Vert(CT) -0 Horz(CT) 0	in (loc) 0.02 3-4 0.05 3-4 0.03 2 0.02 3-4	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-10-4 oc purlins, except end verticals.

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

REACTIONS. 4=Mechanical, 2=Mechanical, 3=Mechanical (size) Max Horz 4=56(LC 8)

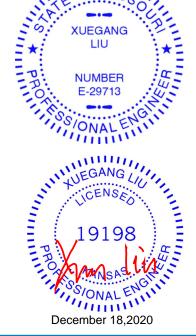
Max Uplift 4=-22(LC 4), 2=-73(LC 8)

Max Grav 4=211(LC 1), 2=154(LC 1), 3=90(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 4 and 73 lb uplift at joint 2.
- 7) 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.

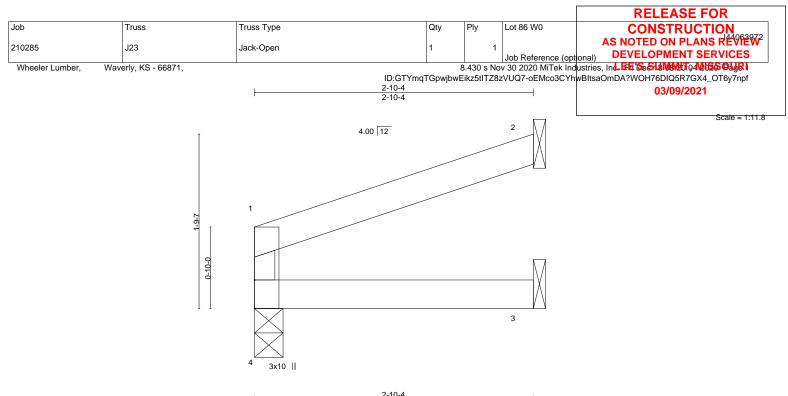


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			2-10-4					
LOADING (psf	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc) l/de	efl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -	-0.00 3	3-4 >99	9 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -	-0.01 3	3-4 >99	9 240		
BCLL 0.0	* Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	2 n,	/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00 3	3-4 >99	9 240	Weight: 7 lb	FT = 10%

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD

REACTIONS. 4=0-3-8, 2=Mechanical, 3=Mechanical (size) Max Horz 4=37(LC 5) Max Uplift 4=-10(LC 4), 2=-44(LC 8) Max Grav 4=121(LC 1), 2=89(LC 1), 3=52(LC 3)

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

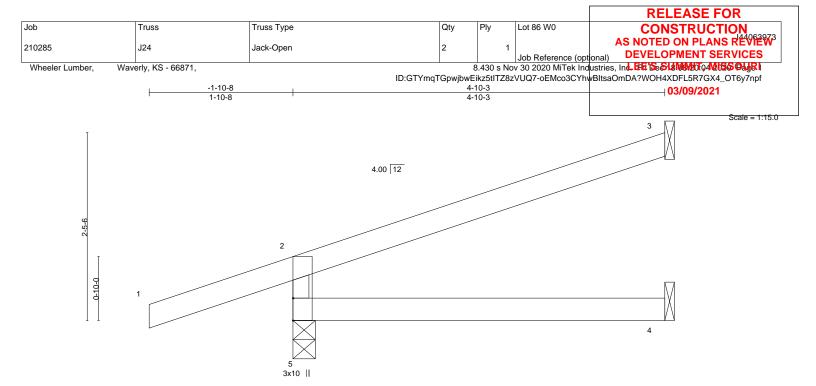
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 4 and 44 lb uplift at joint 2.
- 6) 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.



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		ŀ	4-10-3 4-10-3
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.28 BC 0.20	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.02 4-5 >999 360 MT20 197/144 Vert(CT) -0.05 4-5 >999 240 MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.01 3 n/a n/a Wind(LL) 0.01 4-5 >999 240 Weight: 14 lb FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=90(LC 4) Max Uplift 5=-121(LC 4), 3=-67(LC 8) Max Grav 5=379(LC 1), 3=134(LC 1), 4=87(LC 3)

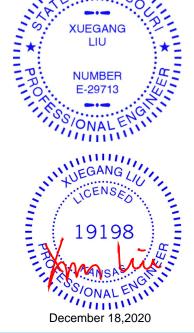
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-332/157

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 5 and 67 lb uplift at joint 3.
- 6) 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.



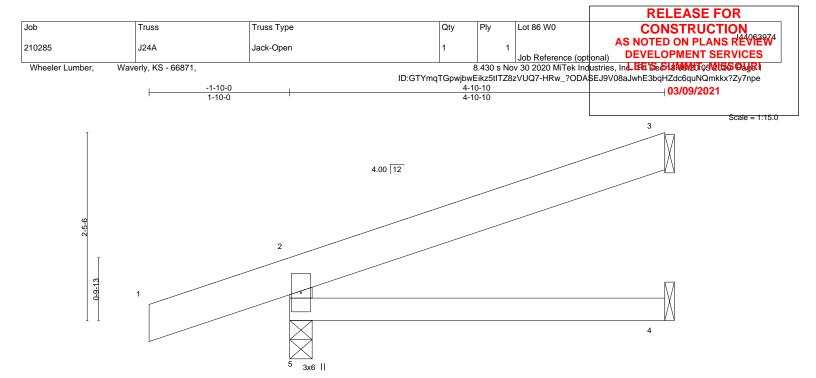
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		<u> </u>	4-10-10 4-10-10
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.13 BC 0.16 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.02 4-5 >999 360 MT20 197/144 Vert(CT) -0.04 4-5 >999 240 Horz(CT) 0.011 3 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 19 lb FT = 10%

2x6 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=91(LC 4) Max Uplift 5=-123(LC 4), 3=-67(LC 8) Max Grav 5=378(LC 1), 3=140(LC 1), 4=79(LC 3)

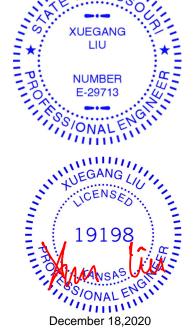
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-326/158

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 67 lb uplift at joint 3.
- 6) 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.



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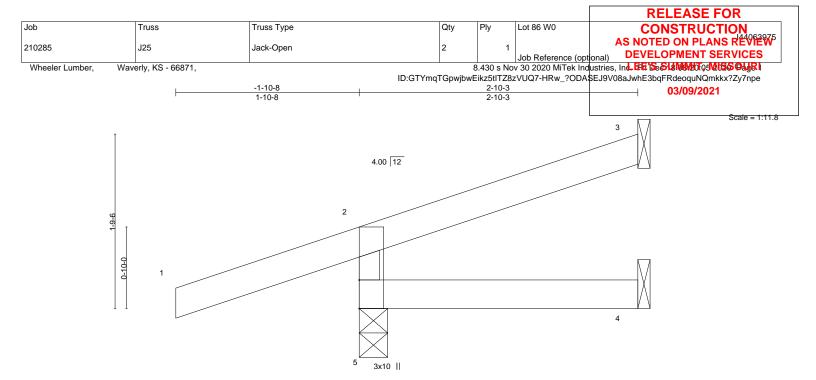
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



				2-10-3				
LOADING (psf)	SPACING- 2-0-0	CSI.		n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.27 BC 0.05	Vert(LL) -0.00 Vert(CT) -0.00		>999 >999	360 240	MT20	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 Wind(LL) 0.00		n/a >999	n/a 240	Weight: 9 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-

2 10 2

Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=63(LC 4) Max Uplift 5=-121(LC 4), 3=-32(LC 8) Max Grav 5=310(LC 1), 3=52(LC 1), 4=48(LC 3)

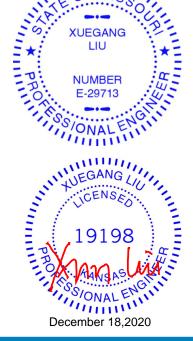
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-274/139

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 5 and 32 lb uplift at joint 3.
- 6) 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.

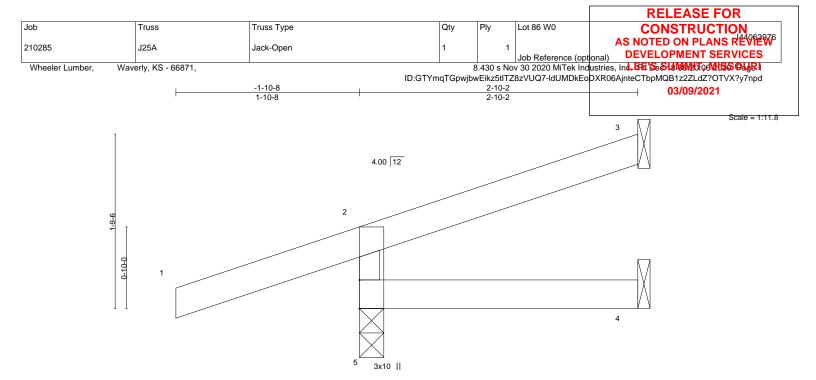


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					2-10-2	1					
LOADING (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1	1.15	тс	0.27	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1	1.15	BC	0.05	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr Y	/ES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI20	14	Matrix	-R	Wind(LL)	0.00	5	>999	240	Weight: 9 lb	FT = 10%

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LUMBER-
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2x4 SPF No 2 TOP CHORD BOT CHORD WEBS 2x3 SPF No.2

2x4 SPF No.2

BRACING-TOP CHORD 2 10 2

Structural wood sheathing directly applied or 2-10-2 oc purlins, except end verticals.

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

REACTIONS. 5=0-3-0, 3=Mechanical, 4=Mechanical (size) Max Horz 5=63(LC 4) Max Uplift 5=-121(LC 4), 3=-32(LC 8) Max Grav 5=310(LC 1), 3=52(LC 1), 4=48(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-274/139

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 5 and 32 lb uplift at joint 3.
- 6) 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.

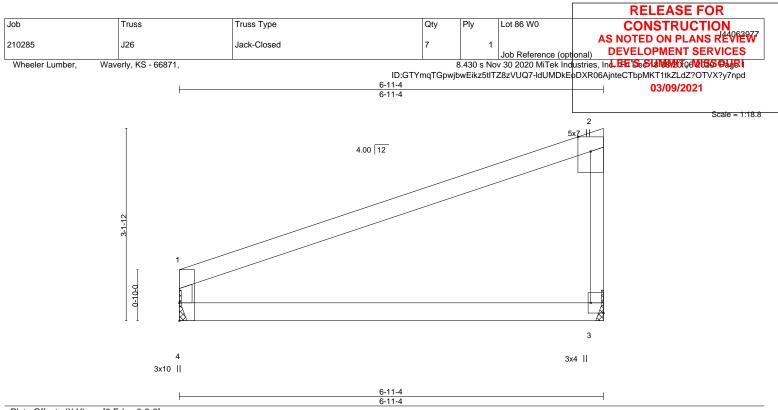


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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
FCLL 25.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -	0.09 3-4	>936	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -	0.18 3-4	>451	240		
3CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00 3	8 n/a	n/a		
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.02 3-4	>999	240	Weight: 19 lb	FT = 10%

TOP CHORD

BOT CHORD

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 3=Mechanical

Max Horz 4=93(LC 5) Max Uplift 4=-10(LC 4), 3=-22(LC 8)

Max Grav 4=303(LC 1), 3=303(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-4=-251/55

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 4 and 22 lb uplift at joint 3.

6) 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.



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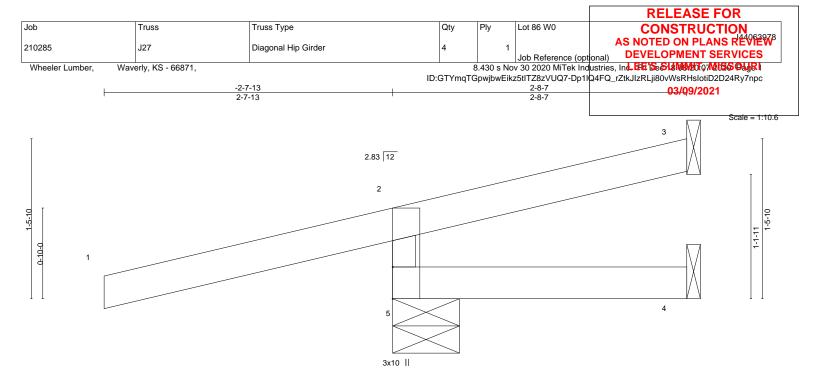
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017



									2-8- 2-8-			
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	тс	0.59	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
ICDL 10	0.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	0.01	4-5	>999	240		
BCLL 0).0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	ĸ-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-7-6, 3=Mechanical, 4=Mechanical Max Horz 5=52(LC 7) Max Uplift 5=-154(LC 4), 3=-48(LC 17), 4=-14(LC 1)

Max Grav 5=270(LC 1), 3=28(LC 4), 4=28(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 5, 48 lb uplift at joint 3 and 14 lb uplift at joint 4.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 16 lb up at -2-7-13, and 46 lb down and 16 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-71(F=-36, B=-36)
- Trapezoidal Loads (plf)
 - Vert: 1=-0(F=35, B=35)-to-2=-48(F=11, B=11), 2=-4(F=33, B=33)-to-3=-49(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=3)

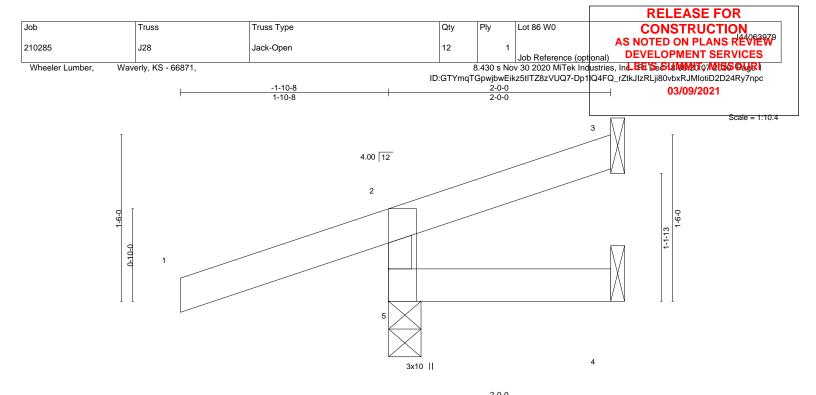


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December 18,2020



				2-0-0				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) 0.00	5	>999 3	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00	5	>999	240	Weight: 7 lb	FT = 10%

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LUMBER-
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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=52(LC 4) Max Uplift 5=-129(LC 4), 3=-14(LC 8) Max Grav 5=296(LC 1), 3=7(LC 1), 4=32(LC 3)

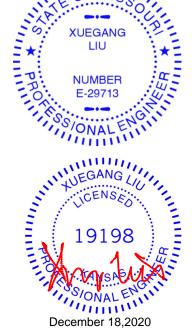
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-263/139

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 5 and 14 lb uplift at joint 3.
- 6) 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.

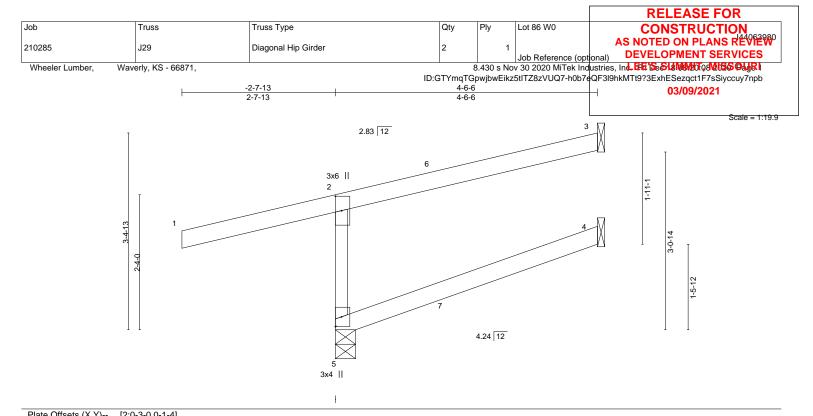


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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES G	RIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) 0.06	4-5	>921 240	MT20 1	97/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) 0.05	4-5	>999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.13	3	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R				Weight: 16 lb	FT = 10%

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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-6-6 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

(size) 5=0-4-3, 3=Mechanical, 4=Mechanical

REACTIONS.

Max Horz 5=86(LC 5) Max Uplift 5=-273(LC 4), 3=-92(LC 8), 4=-30(LC 5)

Max Grav 5=394(LC 1), 3=78(LC 38), 4=79(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-347/246

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 5, 92 lb uplift at joint 3 and 30 lb uplift at joint 4.
- 7) 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 179 lb up at 1-9-8, and 87 lb down and 179 lb up at 1-9-8, and 87 lb down and 179 lb up at 1-9-8 on top chord, and 33 lb down and 51 lb up at 1-9-8, and 33 lb down and 51 lb up at 1-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 6=84(F=42, B=42) 7=8(F=4, B=4)

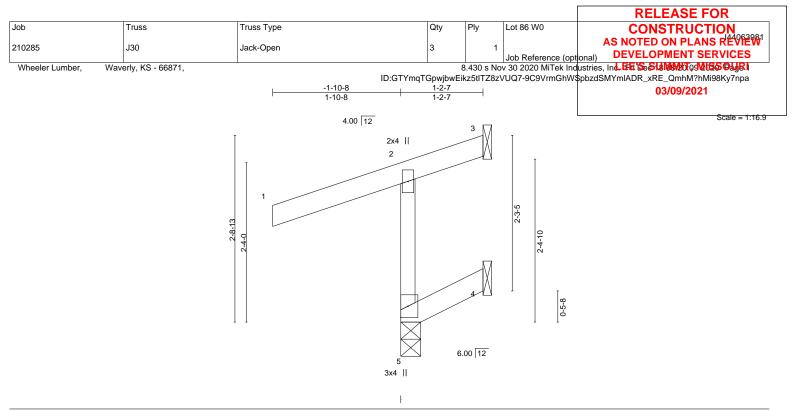


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	(psf) 25.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.27 0.07 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.03	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R						Weight: 7 lb	FT = 10%

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS

2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-2-7 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=71(LC 5) Max Uplift 5=-113(LC 4), 3=-80(LC 1), 4=-46(LC 5) Max Grav 5=314(LC 1), 3=26(LC 4), 4=28(LC 19)

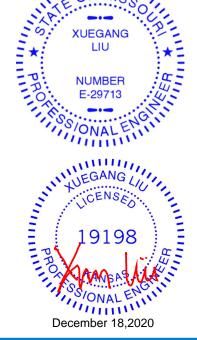
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-295/142

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 5, 80 lb uplift at joint 3 and 46 lb uplift at joint 4.
- 7) 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.



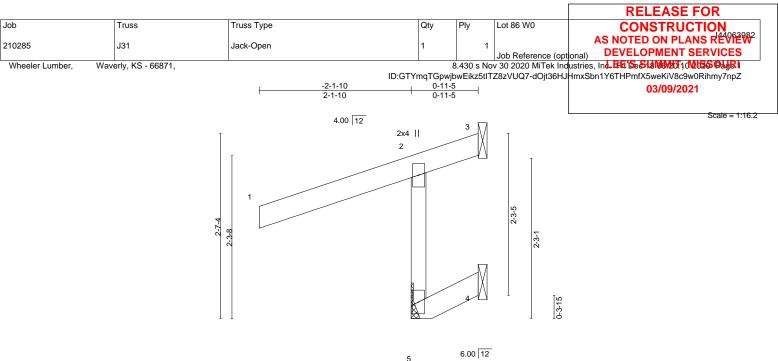
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	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL ·	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R						Weight: 7 lb	FT = 10%

LUMBER-

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 0-11-5 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 5=Mechanical, 3=Mechanical, 4=Mechanical (size) Max Horz 5=69(LC 5) Max Uplift 5=-160(LC 4), 3=-172(LC 1), 4=-61(LC 5) Max Grav 5=406(LC 1), 3=75(LC 4), 4=32(LC 19)

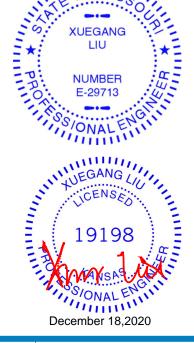
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-387/194

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.

5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 5, 172 lb uplift at joint 3 and 61 lb uplift at joint 4.
- 7) 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.

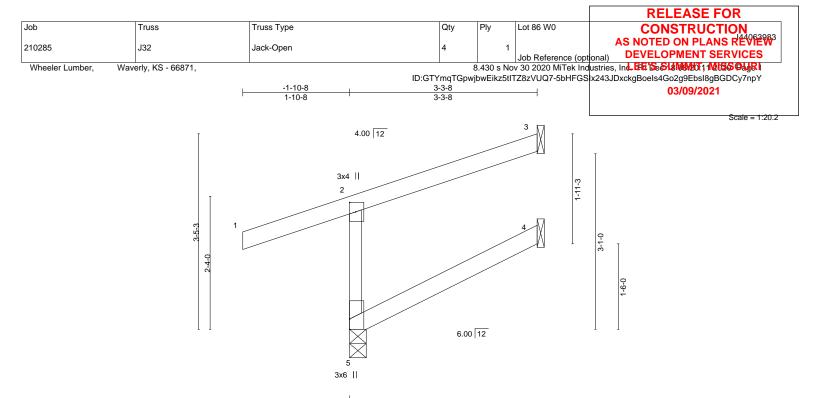


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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
FCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
FCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	-0.01	4-5	>999	240		
3CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.07	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=90(LC 5) Max Uplift 5=-92(LC 4), 3=-54(LC 8), 4=-6(LC 5)

Max Grav 5=323(LC 1), 3=69(LC 1), 4=60(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-288/128

NOTES-

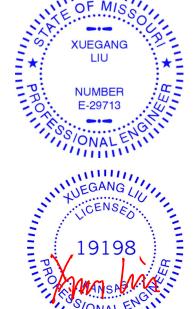
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 5, 54 lb uplift at joint 3 and 6 lb uplift at joint 4.

7) 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.



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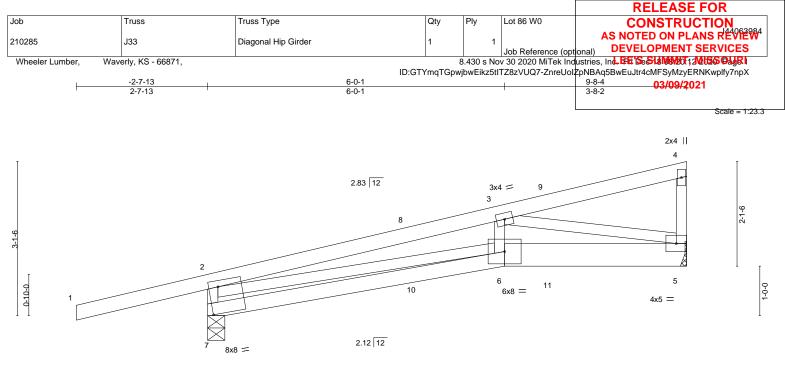
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Structural wood sheathing directly applied or 3-3-8 oc purlins,

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

except end verticals.



				<u> 6-0-</u> 6-0-						<u>9-8-4</u> 3-8-2	
Plate Offs	ets (X,Y)	[7:0-2-4,0-6-8]									
LOADING	u /	SPACING-	2-0-0	CSI.	DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.61 BC 0.32	Vert(LL) Vert(CT)	-0.06 -0.13	6-7 6-7	>999 >907	360 240	MT20	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-S	Wind(LL)	0.05	6	>999	240	Weight: 38 lb	FT = 10%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 5-6: 2x6 SPF No.2

 WEBS
 2x3 SPF No.2

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 4-8-12 oc purlins, except end verticals.

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

REACTIONS. (size) 7=0-4-3, 5=Mechanical Max Horz 7=113(LC 5) Max Uplift 7=-214(LC 4), 5=-105(LC 8) Max Grav 7=673(LC 1), 5=473(LC 1)

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

- TOP CHORD 2-7=-628/245, 2-3=-1247/264
- BOT CHORD 5-6=-270/1183

WEBS 2-6=-242/1019, 3-6=0/299, 3-5=-1177/284

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 7 and 105 lb uplift at joint 5.
- 7) 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 36 lb up at 4-1-7, 71 lb down and 36 lb up at 4-1-7, 71 lb down and 36 lb up at 4-1-7, and 103 lb down and 76 lb up at 6-11-6, and 103 lb down and 76 lb up at 6-11-6 on top chord, and 9 lb down and 4 lb up at 4-1-7, 9 lb down and 4 lb up at 4-1-7, and 31 lb down at 6-11-6, and 31 lb down at 6-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

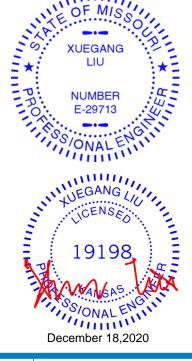
LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

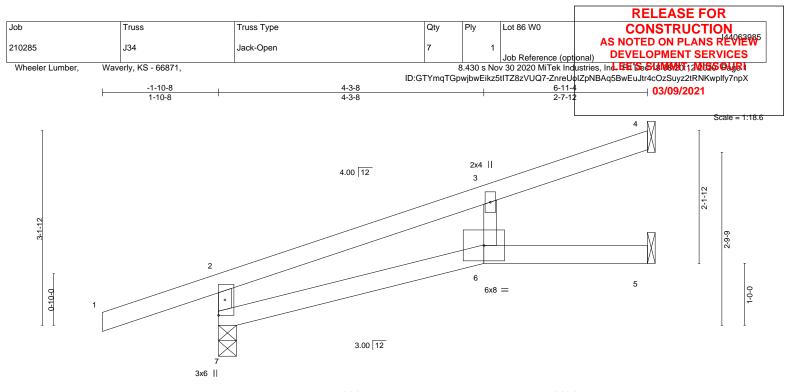


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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	J33	Diagonal Hip Girder	1	1		AS NOTED ON PLANS REVIEW
210203	000				Job Reference (opti	
Wheeler Lumber, W	averly, KS - 66871,			8.430 s No	ov 30 2020 MiTek Ind	ustries, Ind. EE SeSI MAYOT 12 MUSS Oug R1
			ID:GTYmqTGp	wjbwEikz5tl	ITZ8zVUQ7-ZnreUol	ZpNBAq5BwEuJtr4cMFSyMzyERNKwplfy7npX
LOAD CASE(S) Standa	ırd					03/09/2021
Concentrated Loads (lb)					
Vert: 9=-71(F	=-36, B=-36) 10=8(F=4	, B=4) 11=-37(F=-19, B=-19)				





		<u>4-3-8</u> 4-3-8	<u>6-11-4</u> 2-7-12	I
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. DEFL. TC 0.50 Vert(LL)	in (loc) l/defl L/d -0.13 6-7 >632 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.53 Vert(CT) WB 0.02 Horz(CT) Matrix-P Wind(LL)	-0.24 6-7 >334 240 0.06 4 n/a n/a 0.10 6-7 >811 240	Weight: 20 lb FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 7=84(LC 4) Max Uplift 7=-66(LC 4), 4=-27(LC 8), 5=-2(LC 8) Max Grav 7=463(LC 1), 4=165(LC 1), 5=119(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-360/86

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

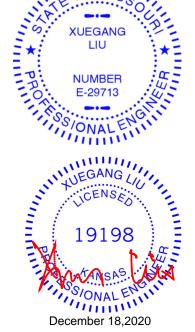
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 7, 27 lb uplift at joint 4 and 2 lb uplift at joint 5.

7) 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.



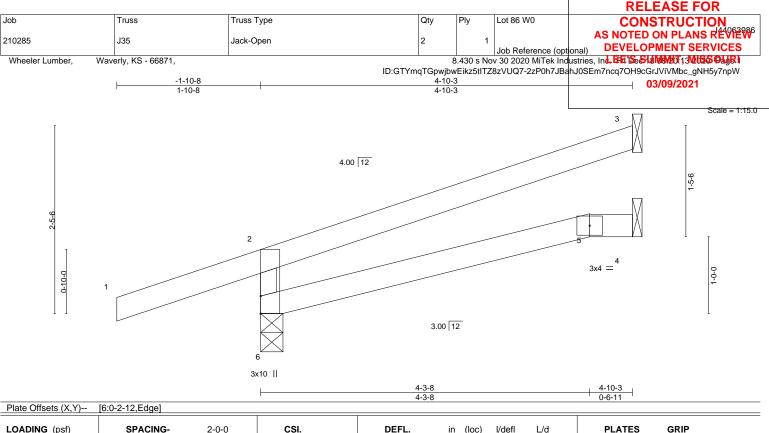
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LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loo	c) l/defl	L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL)	-0.02 5-	6 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	-0.05 5-	6 >999	240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01	3 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01 5-	6 >999	240	Weight: 14 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=89(LC 4) Max Uplift 6=-120(LC 4), 3=-67(LC 8)

Max Grav 6=379(LC 1), 3=135(LC 1), 4=87(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-6=-332/157

NOTES-

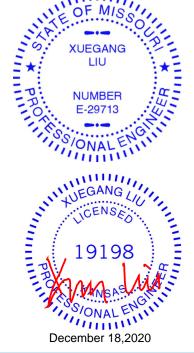
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 6 and 67 lb uplift at joint 3.

7) 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.

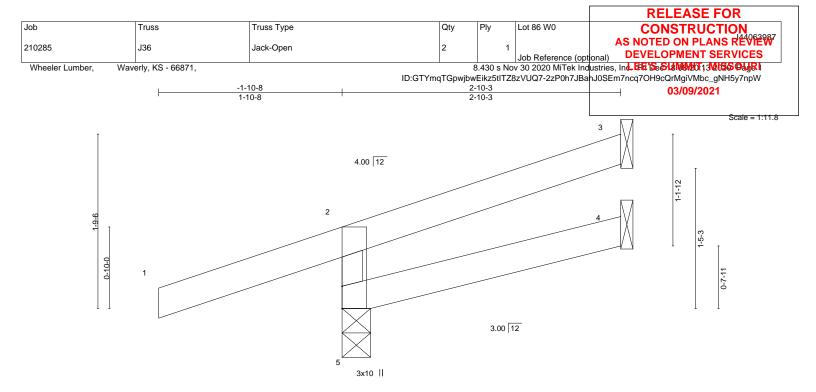


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LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 10 lb	FT = 10%

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LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=62(LC 4) Max Uplift 5=-120(LC 4), 3=-33(LC 8)

Max Grav 5=310(LC 1), 3=52(LC 1), 4=48(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-274/139

NOTES-

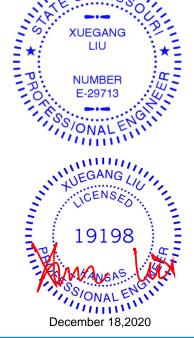
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 5 and 33 lb uplift at joint 3.

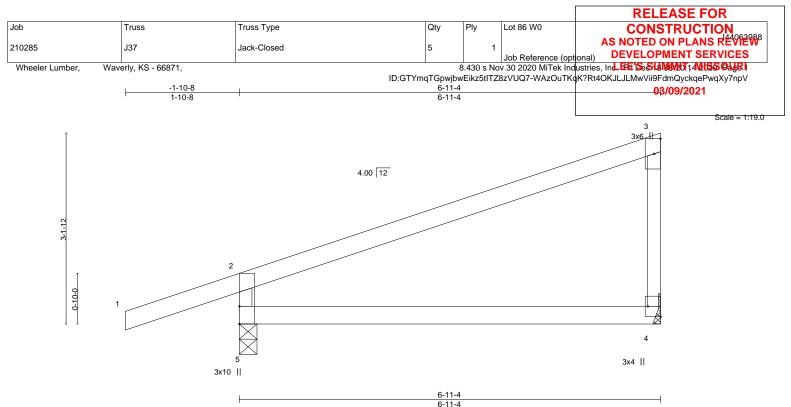
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.59		08 4-5	>957	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.	17 4-5	>465	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.	00 4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.	02 4-5	>999	240	Weight: 21 lb FT = 10%

TOP CHORD

BOT CHORD

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS.

(size) 5=0-3-8, 4=Mechanical Max Horz 5=103(LC 5)

Max Uplift 5=-77(LC 4), 4=-19(LC 8) Max Grav 5=462(LC 1), 4=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-406/121

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 5 and 19 lb uplift at joint 4.
- 6) 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.



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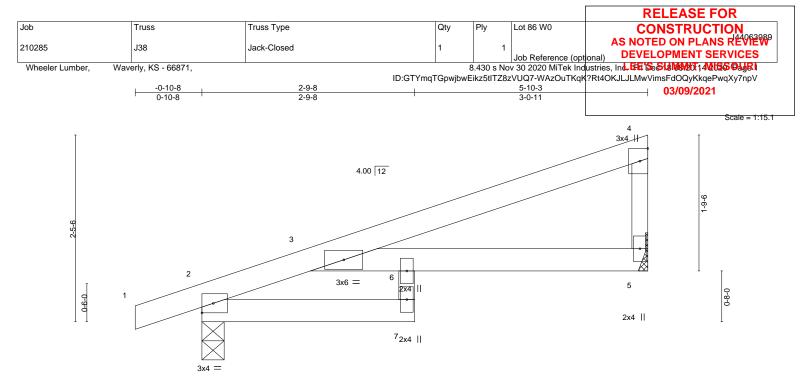
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

December 18,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



			2-9-8 2-9-8					5-10-3 3-0-11			
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.05	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.10	7	>649	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.04	5	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matri	k-S	Wind(LL)	0.05	6	>999	240	Weight: 18 lb	FT = 10%

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS

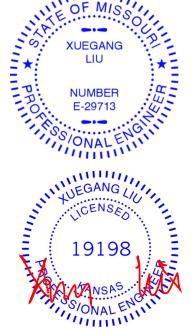
2x3 SPF No.2

REACTIONS. 5=Mechanical, 2=0-3-8 (size) Max Horz 2=85(LC 5) Max Uplift 5=-54(LC 8), 2=-86(LC 4) Max Grav 5=245(LC 1), 2=330(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 5 and 86 lb uplift at joint 2.
- 6) 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.



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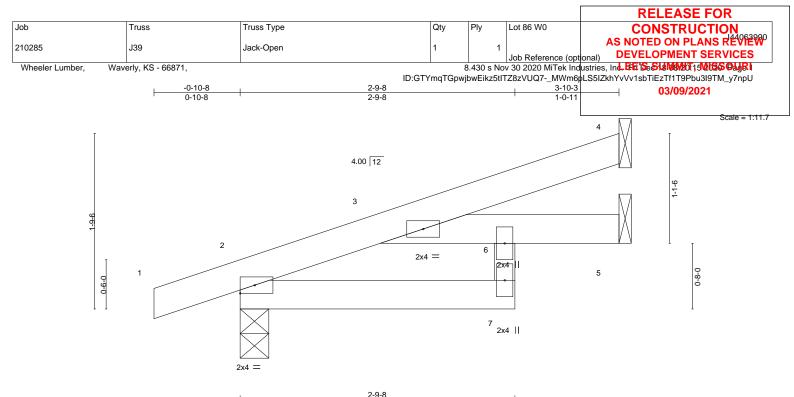
December 18,2020



BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-10-3 oc purlins, except end verticals.

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



				2-9-8						
LOADING	G (psf)	SPACING- 2-0-	csi.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC 0.23	B Vert(LL)	-0.02	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 BC 0.10	Vert(CT)	-0.04	3	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S WB 0.02	2 Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL)	0.02	3	>999	240	Weight: 12 lb	FT = 10%

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8, 5=Mechanical (size) Max Horz 2=65(LC 4) Max Uplift 4=-54(LC 8), 2=-61(LC 4) Max Grav 4=130(LC 1), 2=257(LC 1), 5=74(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 61 lb uplift at joint 2.

6) 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.

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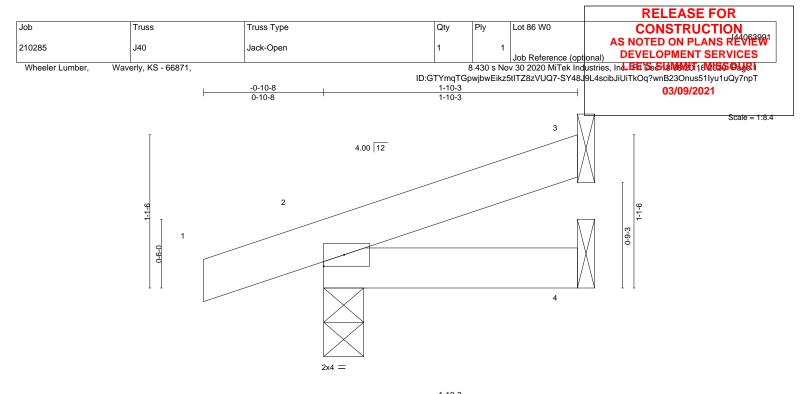


ONAL E 4444 December 18,2020

16023 Swingley Ridge Rd Chesterfield, MO 63017

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-3 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



			1-10-3 1-10-3		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00	2 >999 360	MT20 197/144
TCLL 25.0 TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	2 >999 360 2-4 >999 240	MT20 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3 n/a n/a	Weight: 5 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00	2 **** 240	

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size)

Max Horz 2=38(LC 4)

Max Uplift 3=-28(LC 8), 2=-56(LC 4)

Max Grav 3=47(LC 1), 2=160(LC 1), 4=36(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3 and 56 lb uplift at ioint 2.

6) 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.

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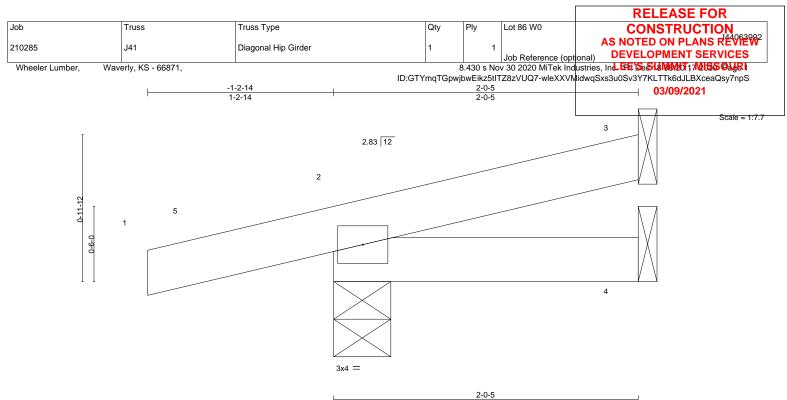
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4411111 December 18,2020

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-10-3 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



					2-0-5							
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	κ-P	Wind(LL)	0.00	2	****	240	Weight: 6 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=35(LC 6)

Max Uplift 3=-16(LC 8), 2=-127(LC 6) Max Grav 3=23(LC 1), 2=65(LC 1), 4=28(LC 3)

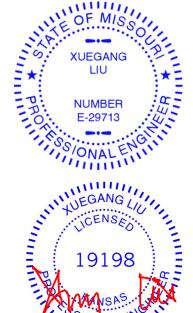
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 3 and 127 lb uplift at joint 2.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7 lb down and 2 lb up at -1-2-14, and 7 lb down and 2 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb) Vert: 1=-11(F=-5, B=-5)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-5=-8(F=31, B=31), 5=0(F=35, B=35)-to-3=-50(F=10, B=10), 2=-5(F=7, B=7)-to-4=-14(F=3, B=3)

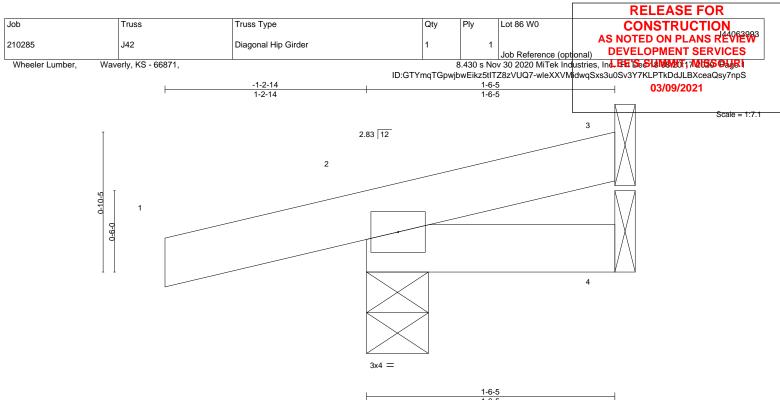


Structural wood sheathing directly applied or 2-0-5 oc purlins.

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



Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



								1-6	-5			
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

REACTIONS. 3=Mechanical, 2=0-4-9, 4=Mechanical (size)

Max Horz 2=30(LC 6)

Max Uplift 3=-17(LC 8), 2=-125(LC 6)

Max Grav 3=27(LC 1), 2=49(LC 9), 4=23(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 3 and 125 lb uplift at joint 2.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 0 lb down and 1 lb up at -1-2-14 , and 0 lb down and 1 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Concentrated Loads (lb)
- Vert: 1=2(F=1, B=1)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-3=-50(F=10, B=10), 2=-7(F=7, B=7)-to-4=-14(F=3, B=3)





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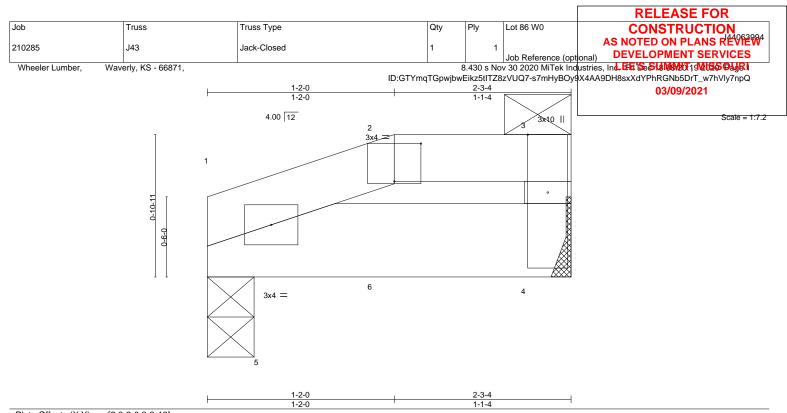
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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-6-5 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00	1-4	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.00	1-4	>999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00	4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	1-4	>999 240	Weight: 8 lb FT = 10%

TOP CHORD	2x4 SPF 2100F 1.8E *Except*
	•
	2-3: 2x4 SPF No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SPF No 2

TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=Mechanical

Max Horz 1=23(LC 22) Max Uplift 1=-67(LC 4), 4=-28(LC 4) Max Grav 1=1221(LC 1), 4=301(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1 and 28 lb uplift at ioint 4.

7) 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.

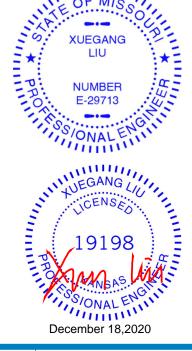
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 18 lb up at 1-2-0 on top chord, and 1344 lb down and 66 lb up at 0-5-8, and at 1-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

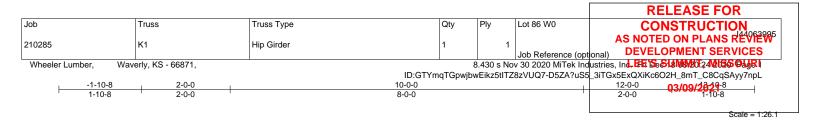
Vert: 1-2=-70, 2-3=-70, 1-4=-20 Concentrated Loads (lb) Vert: 5=-1344(F)



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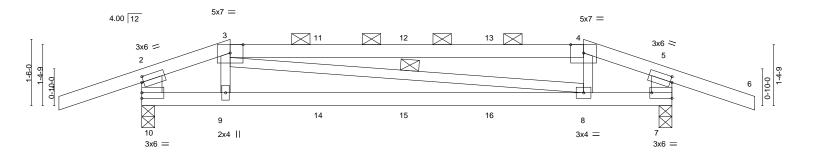


Plate Offsets (X,Y)	[2:0-0-8,0-1-8], [5:0-0-8,0-1-8], [7									
.OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
CLL 25.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -	0.13	8-9	>999	360	MT20	197/144	
CDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -	0.28	8-9	>490	240			
BCLL 0.0 *	Rep Stress Incr NC	WB 0.07	Horz(CT)	0.01	7	n/a	n/a			
3CDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	80.0	8-9	>999	240	Weight: 42 lb	FT = 10%	
UMBER-			BRACING-					·		
OP CHORD 2x4	SPF No.2 *Except*		TOP CHORD	TOP CHORD Structural wood sheathin			sheathing d	g directly applied or 5-3-8 oc purlins,		
3-4:	2x4 SPF 2100F 1.8E			except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4					ax.): 3-4.	
BOT CHORD 2x4	SPF No.2		BOT CHORD	1	Rigid ce	eiling dire	ectly applied	or 10-0-0 oc bracing.		
VEBS 2x3	SPF No.2 *Except*		WEBS		1 Řow a	at midpt		3-8		
2-10	5-7: 2x6 SPF No.2									

10 0 0

Max Horz 10=11(LC 20) Max Uplift 10=-234(LC 4), 7=-234(LC 5) Max Grav 10=615(LC 21), 7=615(LC 22)

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

TOP CHORD 2-3=-780/169, 3-4=-692/177, 4-5=-769/164, 2-10=-474/154, 5-7=-483/155

BOT CHORD 9-10=-123/727, 8-9=-135/727, 7-8=-123/710

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 10 and 234 lb uplift at joint 7.

7) 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.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 133 lb up at 2-0-0, 53 lb down and 12 lb up at 4-0-12, 53 lb down and 12 lb up at 6-0-0, and 53 lb down and 12 lb up at 7-11-4, and 117 lb down and 133 lb up at 10-0-0 on top chord, and 26 lb down and 49 lb up at 2-0-0, 8 lb down and 7 lb up at 4-0-12, 8 lb down and 7 lb up at 6-0-0, and 8 lb down and 7 lb up at 7-11-4, and 26 lb down and 49 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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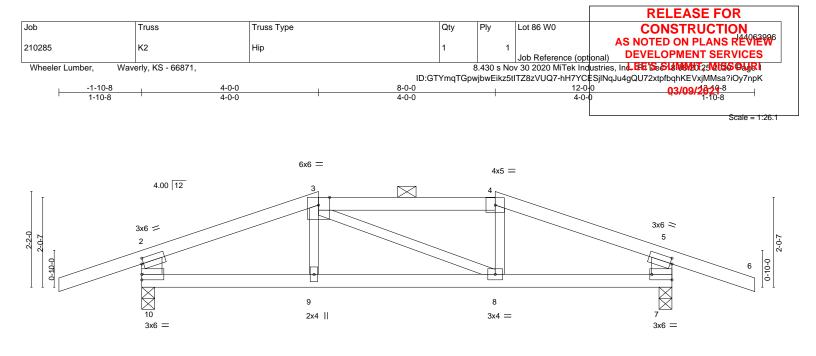


						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	К1	Hip Girder	1	1		AS NOTED ON PLANS REVIEW
					Job Reference (opt	
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Ind. EE Sci 100/0024/0156 Oug B						
		ID:GTYn	nqTGpwjbv	wEikz5tITZ	8zVUQ7-D5ZA?uS5	_3iTGx5ExQXiKc6O2H_8mT_C8CqSAyy7npL
LOAD CASE(S) Standard	4					03/09/2021
Uniform Loads (plf)						

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb) Vert: 3=37(F) 4=37(F) 9=7(F) 8=7(F) 14=7(F) 15=7(F) 16=7(F)





CLL 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) -0.09 8-9 >999 360 MT20 197/1 CDL 10.0 Lumber DOL 1.15 BC 0.52 Vert(CT) -0.16 8-9 >864 240 197/1	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	u /					· · /			MT20	197/144
CLL 0.0 * Rep Stress Incr YES WB 0.04 Horz(CT) 0.01 7 n/a n/a	10.0	Lumber DOL 1.15	BC 0.52	Vert(CT)	-0.16	8-9	>864	240		
	0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.01	7	n/a	n/a		
3CDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.06 8-9 >999 240 Weight: 40 lb FT	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.06	8-9	>999	240	Weight: 40 lb	FT = 10%

2x3 SPF No.2 *Except* BOT CHORD 2-10,5-7: 2x6 SPF No.2

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=15(LC 4) Max Uplift 10=-183(LC 4), 7=-183(LC 5) Max Grav 10=667(LC 1), 7=667(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-716/98, 3-4=-616/105, 4-5=-716/97, 2-10=-570/190, 5-7=-570/190

BOT CHORD 9-10=-40/617, 8-9=-43/616, 7-8=-39/617

NOTES-

WEBS

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 10 and 183 lb uplift at joint 7.

7) 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.

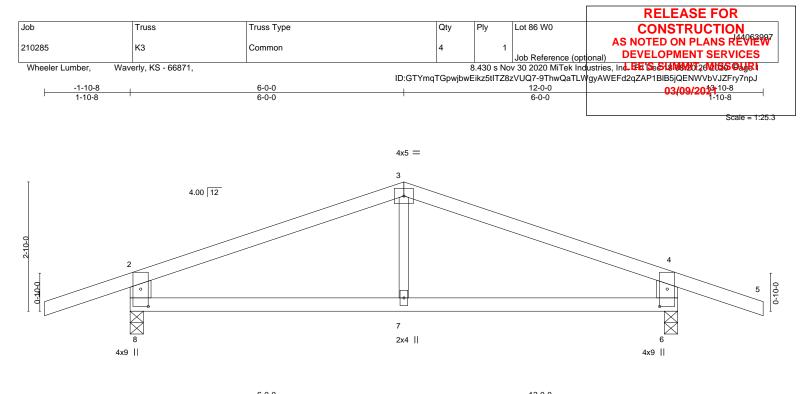
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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	6-0-0					12-0-0		
Plate Offsets (X,Y)	6-0-()	1			6-0-0	1	
Plate Olisets (X, Y)	[6:0-4-9,0-2-0], [8:0-4-9,0-2-0]						1	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.65 BC 0.33 WB 0.07	Vert(CT) - Horz(CT)	0.05 0.10 0.01	7 6	l/defl L/d >999 360 >999 240 n/a n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.03	7	>999 240	Weight: 36 lb	FT = 10%
BOT CHORD 2x4 SF WEBS 2x6 SF	PF No.2 PF No.2 PF No.2 *Except* 3 SPF No.2		BRACING- TOP CHORD BOT CHORD	e	except e	end verticals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
Max U	e) 8=0-3-8, 6=0-3-8 lorz 8=-26(LC 9) plift 8=-170(LC 4), 6=-170(LC 5) rav 8=667(LC 1), 6=667(LC 1)							Mielte
ORCES. (Ib) - Max.	Comp./Max. Ten All forces 250 (lb) or	less except when shown.					NYE	
TOP CHORD 2-3=-	.653/77, 3-4=-653/77, 2-8=-587/202, 4-6 .13/542, 6-7=-13/542						SAR.	
NOTES-	- In a da la sua la sua a sua si da ana diferente in da						二 ★:	i * :
2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60	a loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right designed for a 10 0 psf bottom chord liv	ph; TCDL=6.0psf; BCDL=6. exposed ; end vertical left a	and right exposed;	Lumbe			· · · ·	MBER 29713

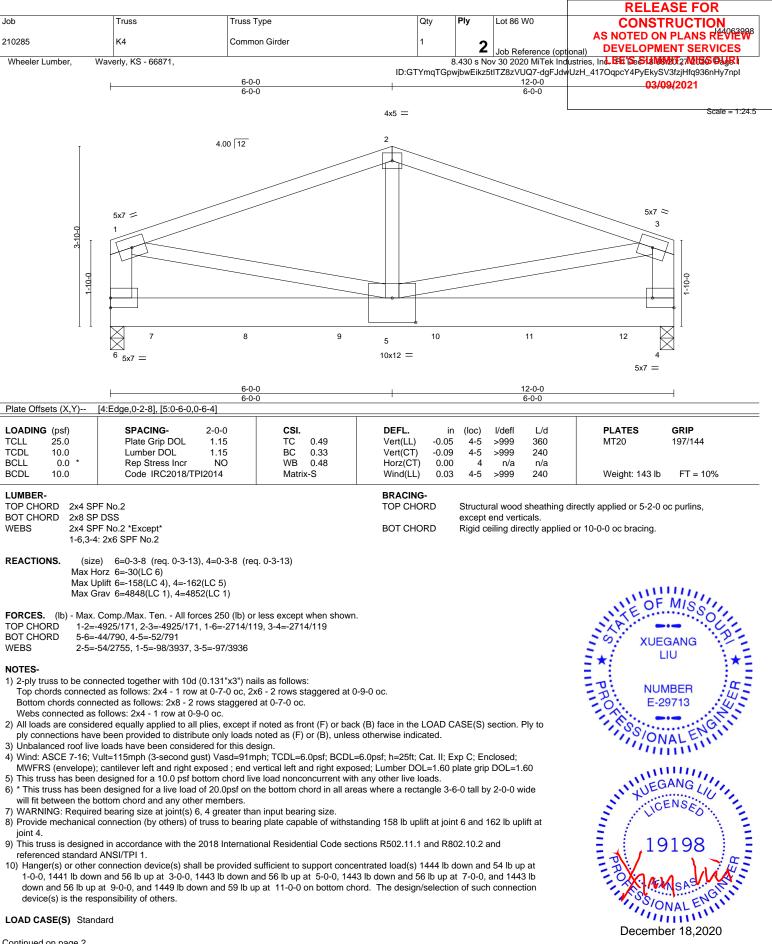
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 8 and 170 lb uplift at joint 6.

6) 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.









Continued on page 2

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 86 W0	CONSTRUCTION
210285	K4	Common Girder	1	0		AS NOTED ON PLANS REVIEW
210203			•	Z	Job Reference (opt	
Wheeler Lumber, Wa	verly, KS - 66871,			8.430 s No	ov 30 2020 MiTek Inc	ustries, Inc. EE SeSISMENDT27MUSS Oug R1
			ID:GTYmqTGp	wjbwEikz5	5tITZ8zVUQ7-dgFJdv	UzH_417OqpcY4PyEkySV3fzjHfq936nHy7npI
						03/09/2021
LOAD CASE(S) Standar						
 Dead + Roof Live (bala 	nced): Lumber Increase=1 1	5 Plate Increase=1 15				

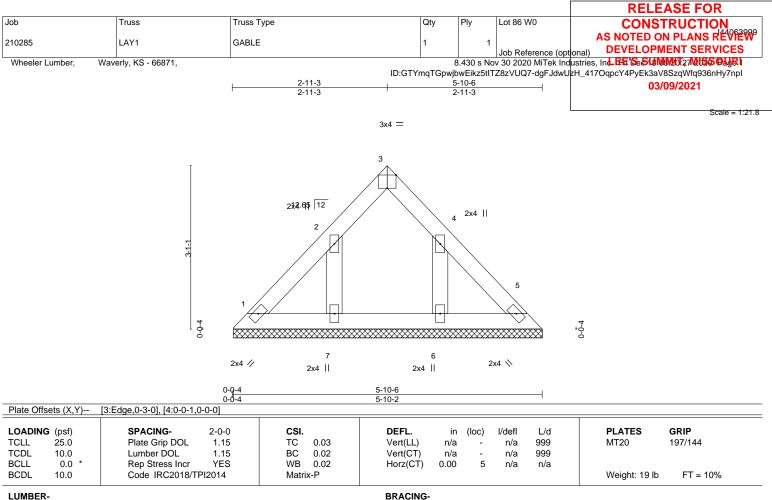
d): Lumber Increase=1.15, Plate Increase:

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-1444(B) 8=-1441(B) 9=-1443(B) 10=-1443(B) 11=-1443(B) 12=-1449(B)





TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD OTHERS 2x4 SPF No.2

REACTIONS. All bearings 5-10-2.

Max Horz 1=-72(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

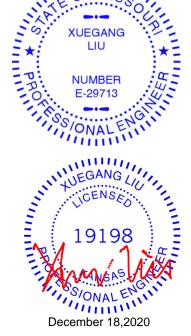
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6.
- 7) 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.



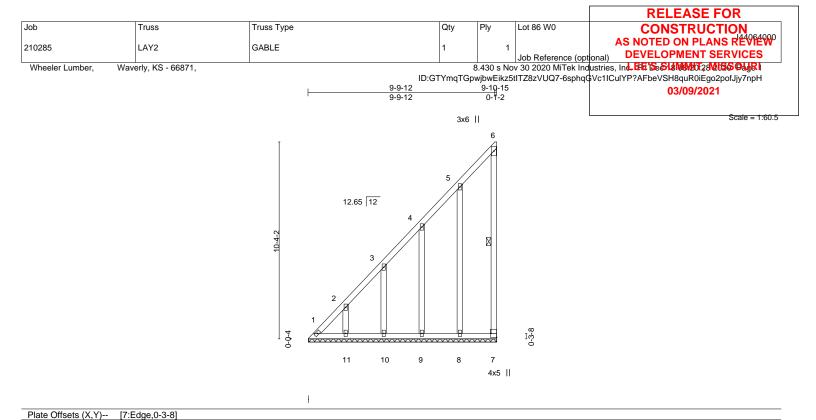
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Structural wood sheathing directly applied or 5-10-6 oc purlins.

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

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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.45 BC 0.19 WB 0.22 Matrix-S	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.0	a - n/a 999	PLATES GRIP MT20 197/144 Weight: 60 lb FT = 10%
LUMBER-			BRACING-		
TOP CHORD 2x4 SF	PF No.2		TOP CHORD	Structural wood sheathing	directly applied or 6-0-0 oc purlins,
BOT CHORD 2x4 SF	PF No.2			except end verticals.	
WEBS 2x4 SF	PF No.2		BOT CHORD	Rigid ceiling directly applied	d or 10-0-0 oc bracing.
OTHERS 2x4 SF	PF No.2		WEBS	1 Row at midpt	6-7

REACTIONS. All bearings 9-10-11.

(lb) - Max Horz 1=395(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-165(LC 6), 7=-147(LC 7), 11=-125(LC 8), 10=-126(LC 8), 9=-120(LC 8), 8=-136(LC 8) Max Grav All reactions 250 lb or less at joint(s) 7, 11, 10, 9, 8 except 1=313(LC 5)

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

TOP CHORD 1-2=-433/287, 2-3=-369/242, 3-4=-299/194, 4-5=-279/187

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) All plates are 2x4 MT20 unless otherwise indicated.

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 1, 147 lb uplift at joint 7, 125 lb uplift at joint 11, 126 lb uplift at joint 10, 120 lb uplift at joint 9 and 136 lb uplift at joint 8.

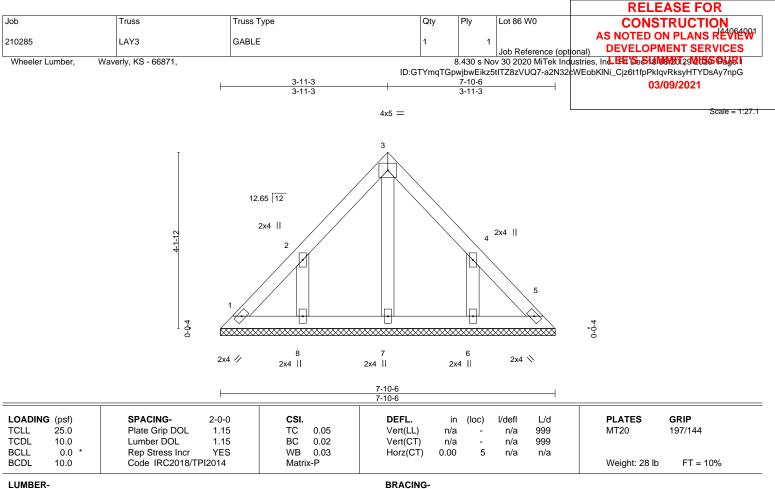
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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nt 16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

TOP CHORD BOT CHORD

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

REACTIONS. All bearings 7-10-6. Max Horz $\tilde{1}$ =-100(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-142(LC 8), 6=-142(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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

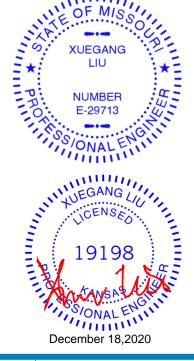
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=142.6=142.

7) 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.

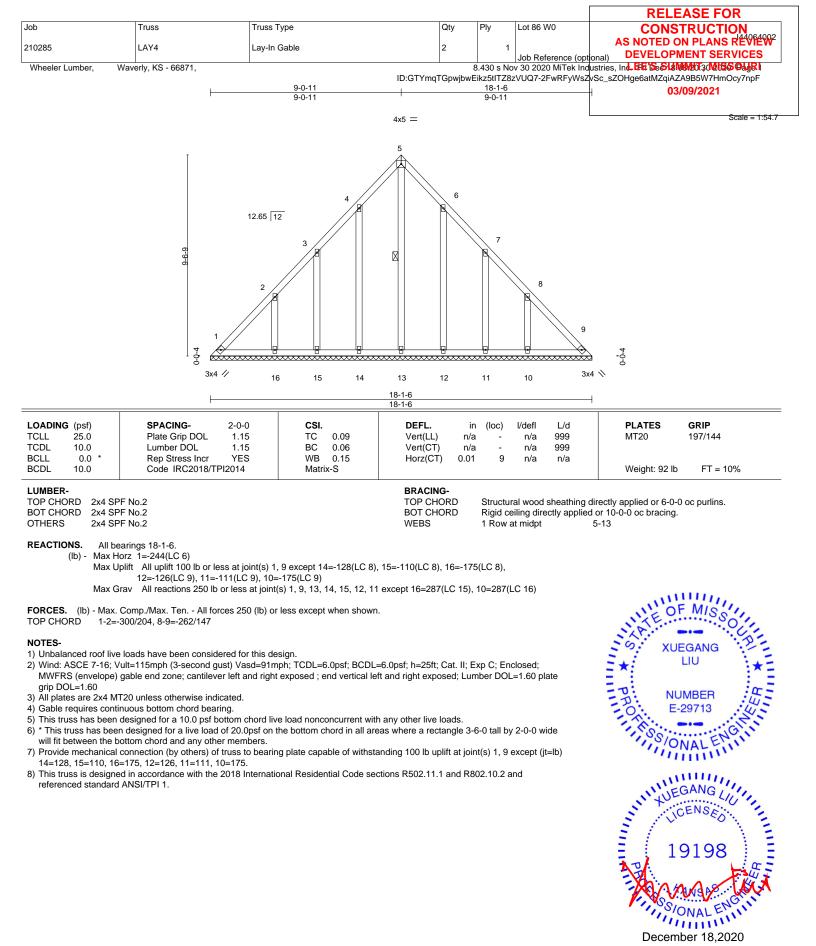


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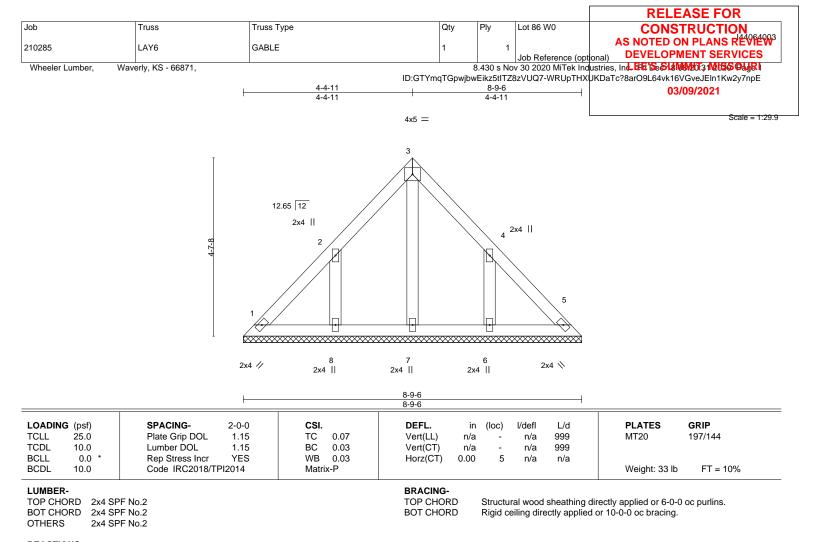
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REACTIONS. All bearings 8-9-6.

(lb) - Max Horz 1=-113(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-157(LC 8), 6=-157(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=251(LC 15), 6=251(LC 16)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=157, 6=157.

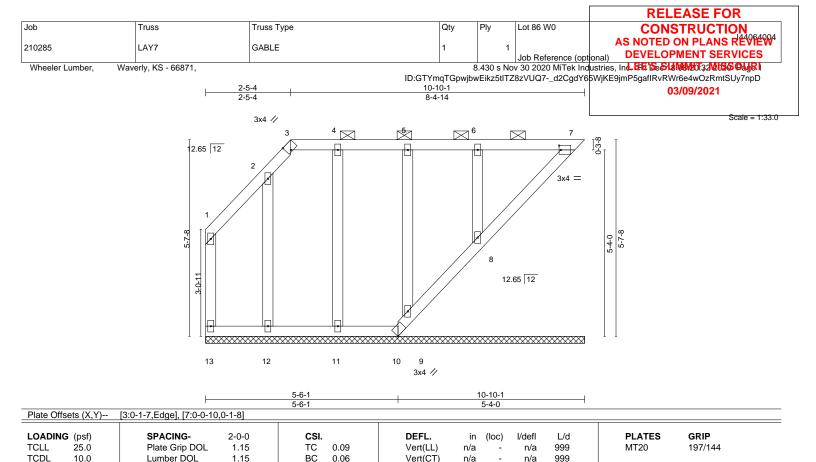
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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December 18,2020

16023 Swingley Ridge Rd Chesterfield, MO 63017



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

7

n/a

6-0-0 oc bracing: 7-8.

n/a

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.

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

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

NOTES-

BCLL

BCDL

WEBS

OTHERS

LUMBER-

BOT CHORD

REACTIONS.

0.0

TOP CHORD 2x4 SPF No.2

(lb) -

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

All bearings 10-10-1. Max Horz 13=121(LC 5)

10.0

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

Rep Stress Incr

Code IRC2018/TPI2014

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

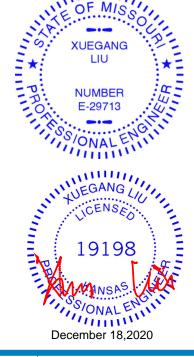
0.07

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

Max Uplift All uplift 100 lb or less at joint(s) 13, 10, 12, 11, 9, 8 except 7=-110(LC 5) Max Grav All reactions 250 lb or less at joint(s) 13, 7, 10, 12, 11, 9 except 8=262(LC 1)

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 10, 12, 11, 9, 8 except (jt=lb) 7=110.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 9, 8.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

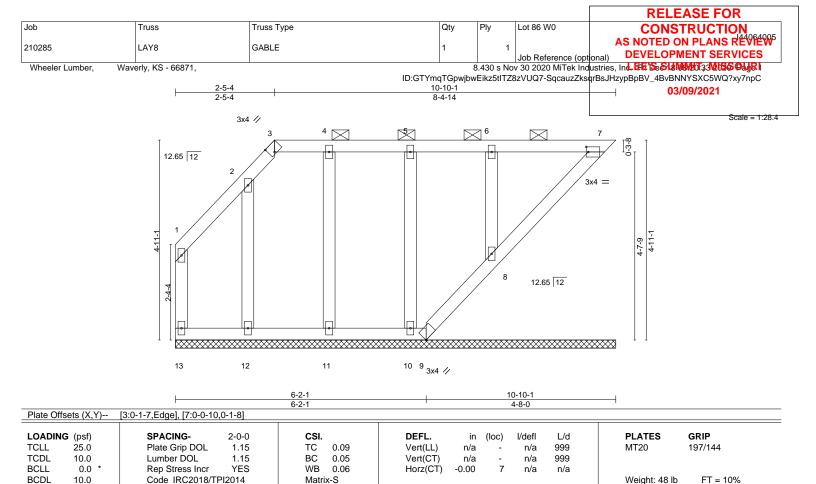


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FT = 10%

Weight: 51 lb





BRACING-

TOP CHORD

BOT CHORD

NI	n'	ТΕ	=0	

LUMBER-

WEBS

OTHERS

TOP CHORD

BOT CHORD

REACTIONS.

(lb) -

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

All reactions 250 lb or less at joint(s) 13, 7, 9, 12, 11, 10 except 8=261(LC 1)

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

Max Grav

All bearings 10-10-1. Max Horz 13=106(LC 5)

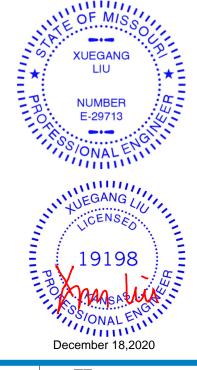
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Max Uplift All uplift 100 lb or less at joint(s) 13, 9, 12, 11, 10, 8 except 7=-100(LC 5)

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 9, 12, 11, 10, 8 except (jt=lb) 7=100.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.

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

- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.

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

6-0-0 oc bracing: 7-8.

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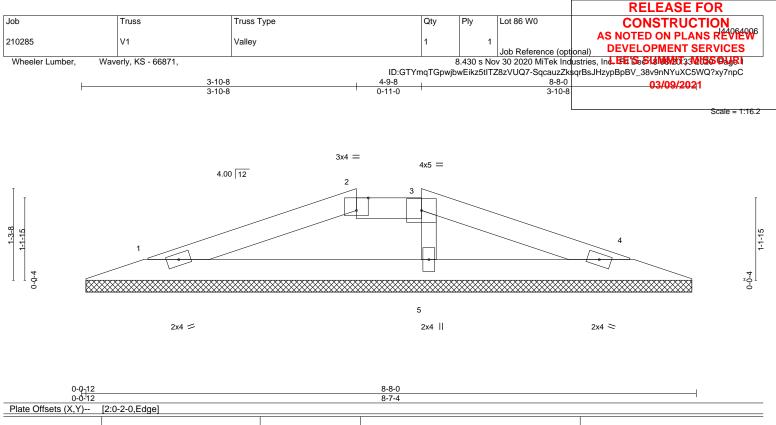


Plate Offsets (X,Y)	[2:0-2-0,Edge]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.15 BC 0.16 WB 0.03 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc n/a n/a 0.00	n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SF	PF No.2 PF No.2 PF No.2		BRACING- TOP CHORE BOT CHORE	2-0-0	oc purlins	(6-0-0 max.)	irectly applied or 6-0-0 1: 2-3. or 10-0-0 oc bracing.	
Max H Max U	e) 1=8-6-8, 4=8-6-8, 5=8-6-8 Horz 1=-16(LC 13) Jplift 1=-80(LC 4), 4=-72(LC 4) Brav 1=271(LC 1), 4=257(LC 1), 5=172(LC 3)						
TOP CHORD 1-2=	Comp./Max. Ten All forces 250 (lb) of -478/191, 2-3=-433/197, 3-4=-479/200 -171/432, 4-5=-174/441	less except when shown.					INATE O	FMISSOUT
NOTES-	e loads have been considered for this de	sian					XUI	EGANG LIU

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

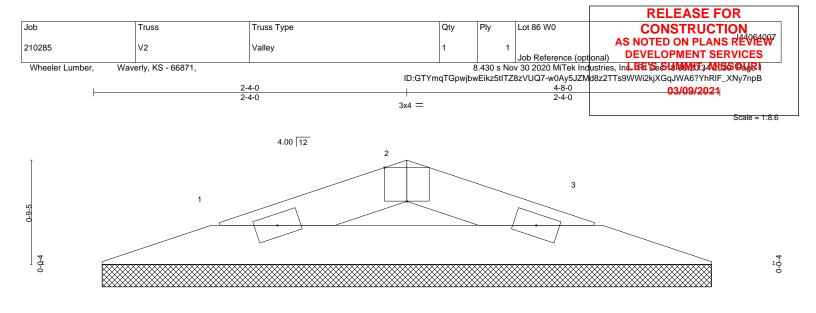
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.

 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.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







2x4 📁

2x4 🗢

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

0- <u>0-12</u> 0-0-12 late Offsets (X,Y) [2	2:0-2-0,Edge]		4-8-0 4-7-4		
LOADING (psf) ICLL 25.0 ICDL 10.0 3CLL 0.0 3CDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.03 BC 0.08 WB 0.00 Matrix-P	DEFL.inVert(LL)n/aVert(CT)n/aHorz(CT)0.00	(loc) l/defl L/d - n/a 999 - n/a 999 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 9 lb FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2			BRACING- TOP CHORD	Structural wood sheathing di	rectly applied or 4-8-0 oc purlins.

BOT CHORD

BOT CHORD 2x4 SPF No.2

REACTIONS. 1=4-6-8, 3=4-6-8 (size) Max Horz 1=8(LC 8) Max Uplift 1=-18(LC 4), 3=-18(LC 5) Max Grav 1=125(LC 1), 3=125(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

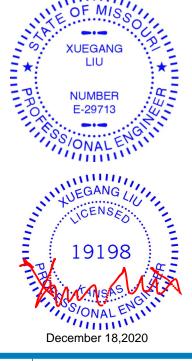
3) Gable requires continuous bottom chord bearing.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

7) 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.

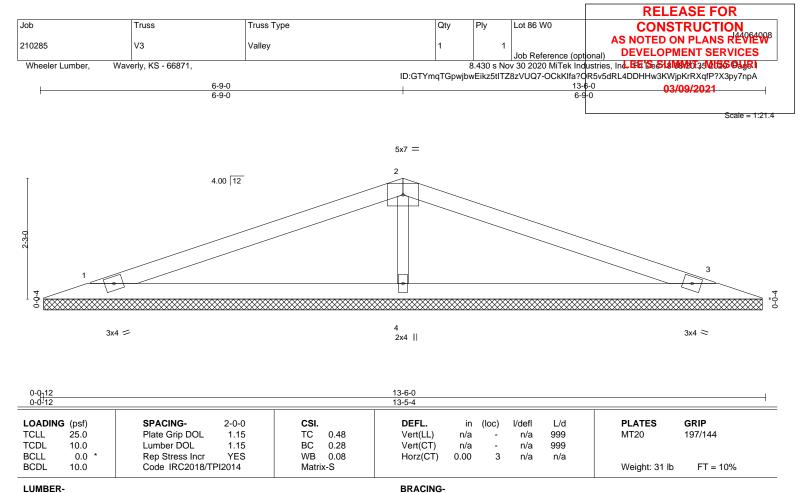


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MIS

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 OTHERS 2x3 SPF No.2

REACTIONS. 1=13-4-8, 3=13-4-8, 4=13-4-8 (size) Max Horz 1=34(LC 8)

Max Uplift 1=-50(LC 4), 3=-54(LC 9), 4=-54(LC 4) Max Grav 1=234(LC 21), 3=234(LC 22), 4=592(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-4=-417/124 WEBS

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

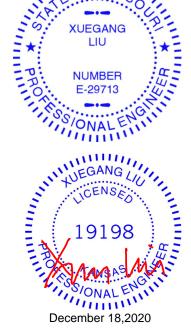
3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

7) 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.



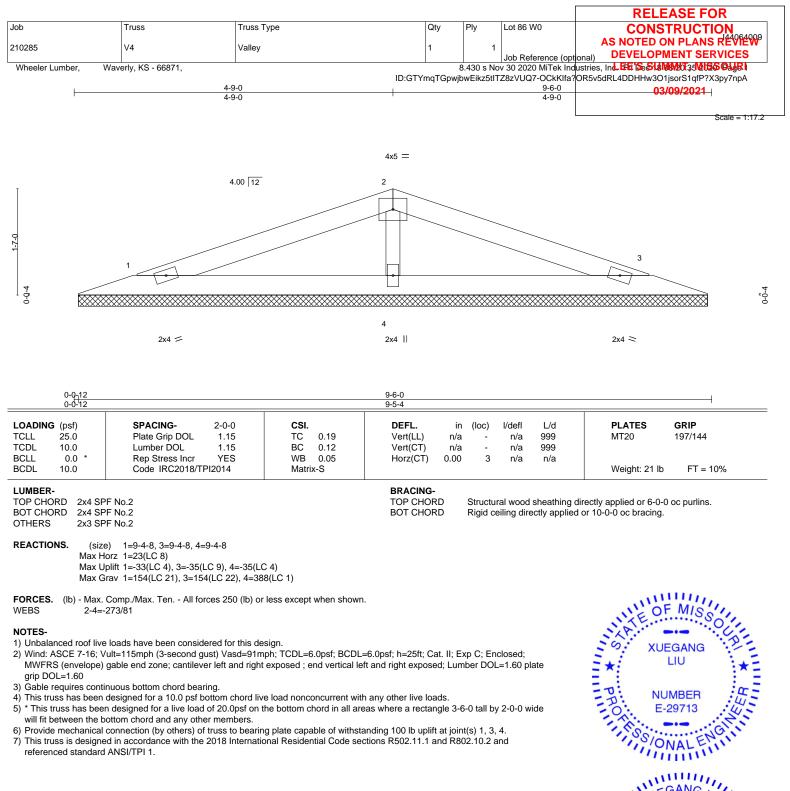
MI

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

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







December 18,2020



