

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 1719437
H&H/Dogwood/

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E12810565 thru E12810743

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



March 15,2019

Gilbert, Eric

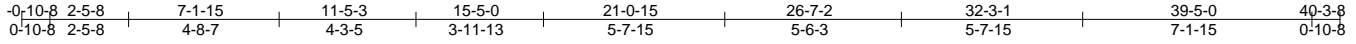
IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job 1719437	Truss A01	Truss Type HIP GIRDER	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810565
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:32 2019 Page 1

ID:PFhEEkzMO6?Kz1KM4J4YUByNvpB-ItCrG_6Rbqvtvq0TT4LmyRon14qMJshzyRtDeozajuj



Scale = 1:72.0

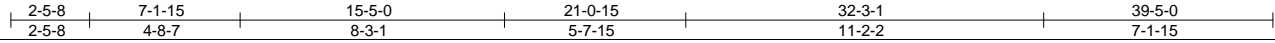
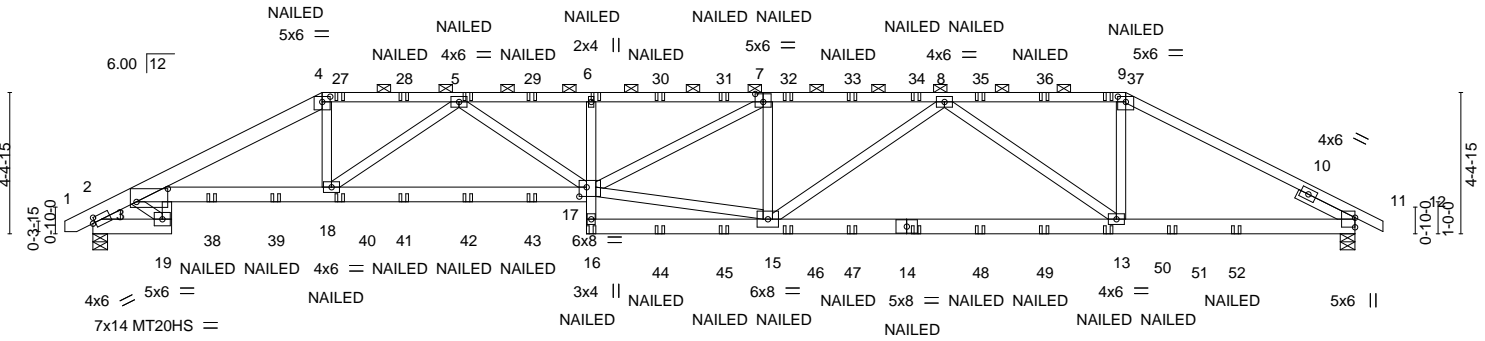


Plate Offsets (X,Y)-- [2:0-1,0-0,2-0], [3:0-3,4-0,0-0], [3:0-11-12,0-4-14], [4:0-3-0,0-2-0], [7:0-3-0,0-3-0], [9:0-3-0,0-2-0], [17:0-2-12,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	0.51	6	>920	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.56	17	>841	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.25	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 487 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
 1-4: 2x6 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
 3-19,6-16: 2x4 SP No.2, 3-17: 2x6 SP No.1
 2x4 SP No.2
WEBS
WEDGE
 Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except 2-0-0 oc purlins (4-6-5 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 8-11-5 oc bracing: 17-18
 9-4-12 oc bracing: 13-15.

REACTIONS. (lb/size) 2=2269/0-5-8, 11=2245/0-5-8
 Max Horz 2=78(LC 8)
 Max Uplift 2=1150(LC 8), 11=1167(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-21=-967/554, 3-4=-5048/2898, 4-5=-4602/2709, 5-6=-6744/4227, 6-7=-6678/4197,
 7-8=-5375/3388, 8-9=-3308/1986, 9-11=-3741/2173
BOT CHORD 3-18=-2603/4523, 17-18=-3654/5922, 6-17=-368/344, 15-16=-461/679, 13-15=-2903/4671,
 11-13=-1852/3260
WEBS 4-18=-951/1666, 5-18=-1710/1300, 5-17=-680/1069, 15-17=-2962/4847, 7-17=-873/1414,
 7-15=-1126/832, 8-15=-522/941, 8-13=-1757/1312, 9-13=-761/1322

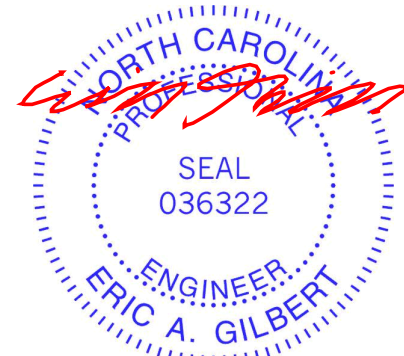
- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 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) except (jt=lb) 2=1150, 11=1167.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



March 15, 2019



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A01	Truss Type HIP GIRDER	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810565
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:32 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-ItCrG_6Rbqqtqv0TT4LmyRon14qMJshzyRtDeozajuj

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-9=-60, 9-12=-60, 19-20=-20, 3-17=-20, 16-23=-20

Concentrated Loads (lb)

Vert: 17=-21(F) 6=-33(F) 14=-21(F) 5=-64(F) 27=-64(F) 28=-64(F) 29=-64(F) 30=-33(F) 31=-33(F) 32=-33(F) 33=-33(F) 34=-33(F) 35=-33(F) 36=-33(F) 37=-33(F) 38=-138(F) 39=-115(F) 44=-21(F) 45=-21(F) 46=-21(F) 47=-21(F) 48=-21(F) 49=-21(F) 50=-21(F) 51=-115(F) 52=-138(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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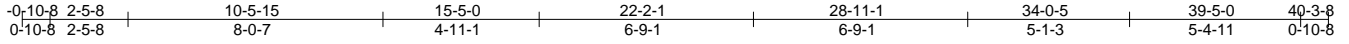
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss A02	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810566
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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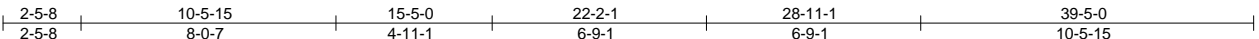
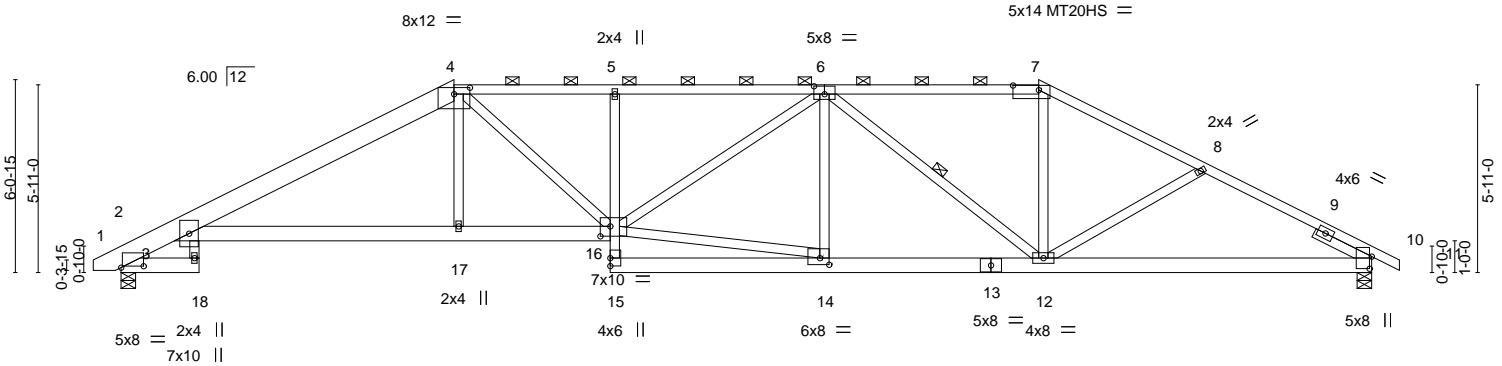


Plate Offsets (X,Y)-- [2:0-8-8,0-0-9], [3:0-0-0,0-1-12], [4:0-6-0,0-2-7], [6:0-4-0,0-3-0], [7:0-9-12,0-1-12], [10:0-4-9,0-0-13], [14:0-3-8,0-2-8], [16:0-3-12,0-3-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.26	17-24	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.54	17-24	>879	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.28	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.25	17-24	>999		
								Weight: 264 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x8 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
3-16: 2x6 SP No.1, 5-15: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (2-8-9 max.): 4-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12

REACTIONS.

(lb/size) 2=1623/0-5-8, 10=1630/0-5-8
Max Horz 2=-109(LC 17)
Max Uplift 2=-196(LC 12), 10=-214(LC 13)

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

TOP CHORD 3-20=-670/247, 3-4=-3141/894, 4-5=-3228/1019, 5-6=-3229/1023, 6-7=-2180/742,
7-8=-2483/771, 8-10=-2678/853
BOT CHORD 3-17=-629/2805, 16-17=-629/2819, 5-16=-333/193, 14-15=-106/516, 12-14=-657/2810,
10-12=-648/2326
WEBS 4-17=-6/495, 4-16=-258/694, 14-16=-556/2320, 6-16=-118/550, 6-12=-899/268,
7-12=-127/709

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 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) except (it=lb) 2=196, 10=214.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss A03	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810567
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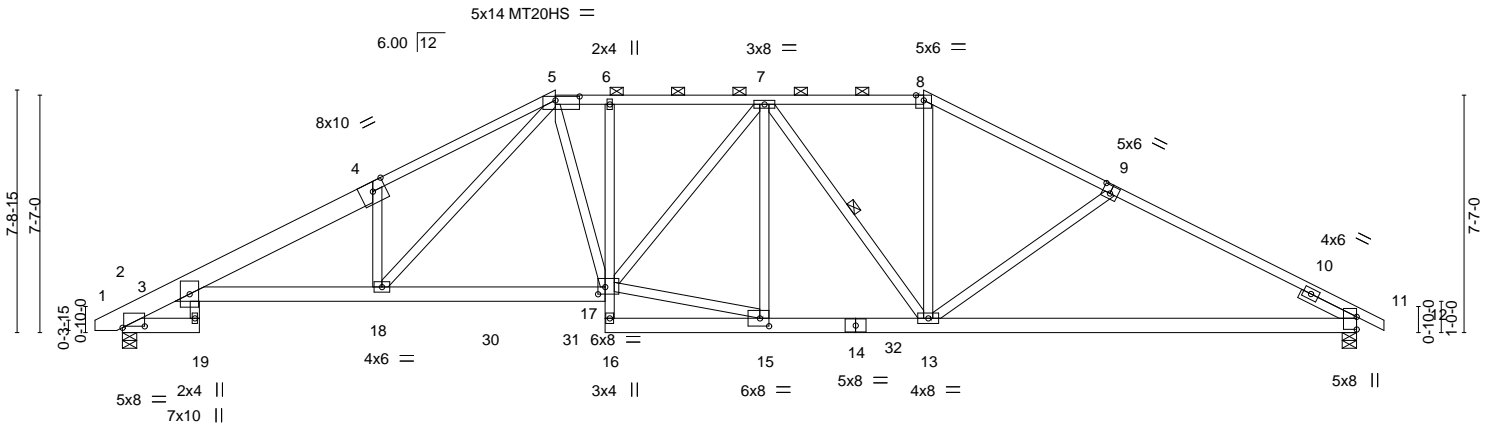
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:40 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-3PhtxjCSilrkt2d0xmVeG78Bliz6BRC8nhpflwLzajub

0-10-8	2-5-8	8-1-11	13-9-15	15-5-0	20-6-1	25-7-1	31-6-7	39-5-0	40-3-8
0-10-8	2-5-8	5-8-3	5-8-3	1-7-1	5-1-1	5-1-1	5-11-6	7-10-9	0-10-8

Scale = 1:73.6



2-5-8	8-1-11	15-5-0	20-6-1	25-7-1	39-5-0
2-5-8	5-8-3	7-3-5	5-1-1	5-1-1	13-9-15

Plate Offsets (X,Y)-- [2:0-8-8,0-0-9], [3:0-0-0,0-1-12], [5:0-9-4,0-1-8], [9:0-3-0,0-3-0], [15:0-3-8,0-3-0], [17:0-2-12,0-2-12]

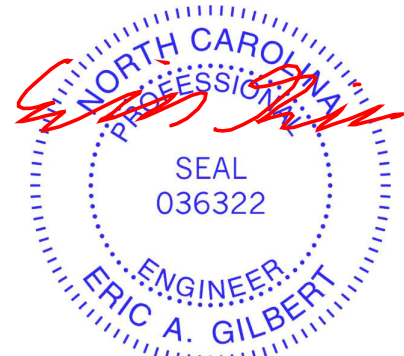
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.21	13-28	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.45	13-28	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.23	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20	18-25	>999		Weight: 278 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x8 SP DSS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-6-12 max.): 5-8.
BOT CHORD 2x6 SP No.2 *Except* 3-17: 2x6 SP No.1, 6-16: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-13
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 2=1623/0-5-8, 11=1630/0-5-8
Max Horz 2=141(LC 12)
Max Uplift 2=235(LC 12), 11=253(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-21=670/252, 3-4=3379/996, 4-5=3447/1173, 5-6=2389/839, 6-7=2384/841,
7-8=1978/731, 8-9=2295/759, 9-11=2622/868
BOT CHORD 3-18=766/3044, 17-18=467/2254, 6-17=273/126, 13-15=459/2168, 11-13=629/2268
WEBS 4-18=520/349, 5-17=145/629, 15-17=406/1972, 7-17=86/399, 7-15=350/110,
7-13=456/196, 8-13=147/673, 9-13=358/309, 5-18=423/1144

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=235, 11=253.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

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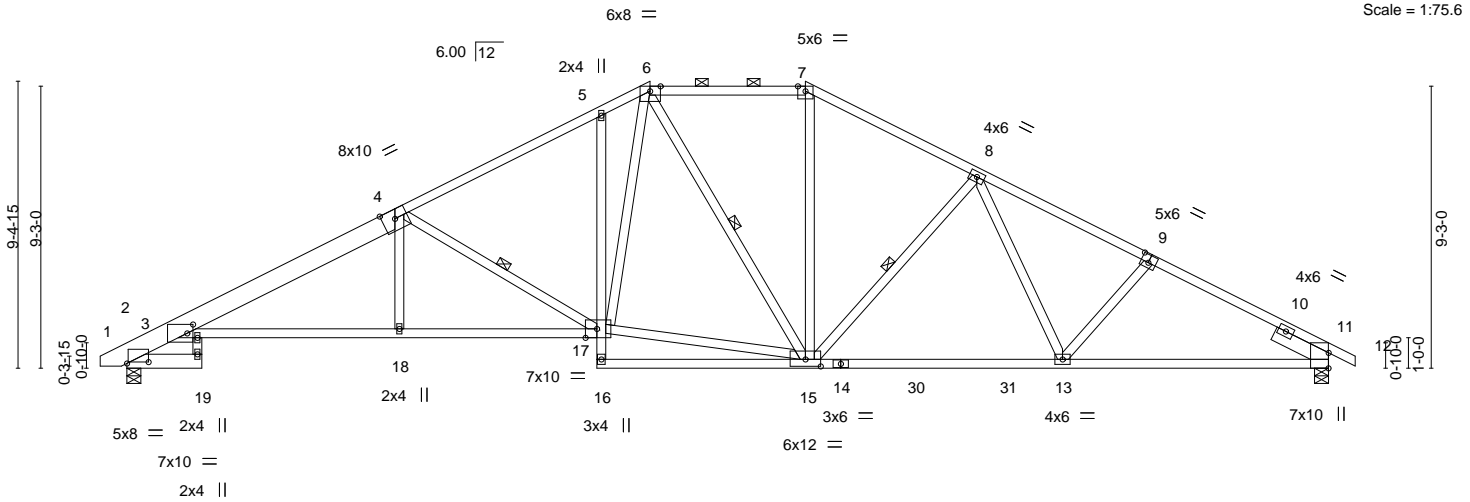
Job 1719437	Truss A04	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810568
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:42 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBvNvpB-?opdMPEiEv5S6MnO3BX6MYDRi6DRfMIRF?il_DzajuZ

0-10-8 2-5-8	8-11-4	15-5-0	17-1-15	22-3-1	27-10-9	33-6-0	39-5-0	40-3-8
0-10-8 2-5-8	6-5-12	6-5-12	1-8-15	5-1-3	5-7-8	5-7-8	5-11-0	0-10-8



2-5-8	8-11-4	15-5-0	22-3-1	30-8-5	39-5-0
2-5-8	6-5-12	6-5-12	6-10-1	8-5-3	8-8-11

Plate Offsets (X,Y)-- [2:0-8-8,0-0-9], [3:0-2-5,0-3-8], [6:0-4-2,Edge], [9:0-3-0,0-3-0], [11:0-6-1,Edge], [15:0-6-0,0-2-12], [17:0-4-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.28 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.55 13-15	>864	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.31 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.24 18-25	>999	240		
								Weight: 259 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 1-4: 2x8 SP DSS, 9-12: 2x4 SP No.1
 BOT CHORD 2x4 SP No.2 *Except*
 2-19: 2x6 SP No.2, 11-14: 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-1-5 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-17, 6-15, 8-15

REACTIONS.

(lb/size) 2=1623/0-5-8, 11=1630/0-5-8
 Max Horz 2=173(LC 12)
 Max Uplift 2=268(LC 12), 11=285(LC 13)

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

TOP CHORD 3-21=670/258, 3-4=3174/976, 4-5=2397/830, 5-6=2242/906, 6-7=1717/735,
 7-8=1995/764, 8-9=2464/845, 9-11=2628/859
 BOT CHORD 3-18=744/2867, 17-18=742/2874, 13-15=500/2062, 11-13=642/2255
 WEBS 4-18=0/322, 4-17=953/392, 15-17=296/1725, 6-17=342/945, 6-15=393/140,
 7-15=141/533, 8-15=531/302, 8-13=50/341

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=268, 11=285.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



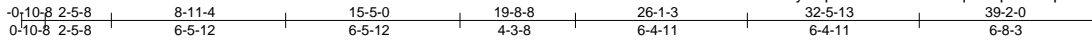
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A05	Truss Type ROOF SPECIAL	Qty 22	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810569
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:45 2019 Page 1

ID:PFhEEkZM06?Kz1KM4J4YUBYNvpB-QNUm?RGbXqT0zqWzkJ4pzAr?FJHssgztxzWQbYzajuW



5x6 =

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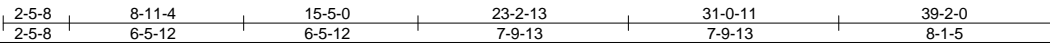
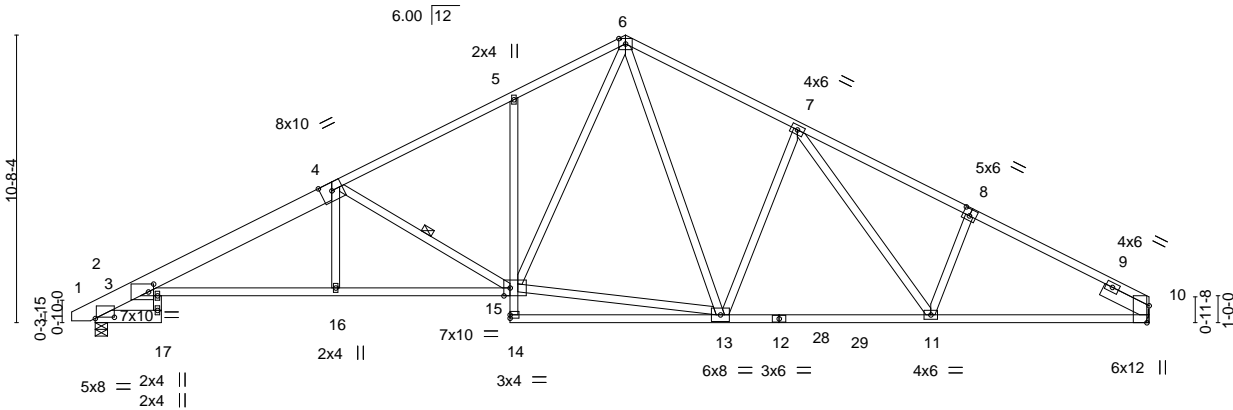


Plate Offsets (X,Y)-- [2:0-8-8,0-0-9], [3:0-2-5,0-3-8], [8:0-3-0,0-3-0], [10:0-7-9,Edge], [15:0-2-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.29	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.55	11-13	>858		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.32	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20	16-23	>999		
								Weight: 251 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 1-4: 2x8 SP DSS, 8-10: 2x4 SP SS
 BOT CHORD 2x4 SP No.2 *Except*
 2-17: 2x6 SP No.2, 3-15,10-12: 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-15

REACTIONS.

(lb/size) 2=1613/0-5-8, 10=1567/Mechanical
 Max Horz 2=131(LC 9)
 Max Uplift 2=63(LC 12), 10=63(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-19=-666/225, 3-4=-3154/998, 4-5=-2375/849, 5-6=-2306/976, 6-7=-2030/853,
 7-8=-2401/899, 8-10=-2539/840
 BOT CHORD 3-16=-790/2847, 15-16=-787/2854, 5-15=-307/249, 11-13=-478/1930, 10-11=-635/2165
 WEBS 4-16=0/328, 4-15=-950/396, 13-15=-245/1406, 6-15=-432/1153, 6-13=-242/626,
 7-13=-579/378, 7-11=-133/358

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



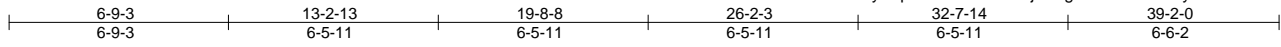
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A06	Truss Type Common	Qty 3	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810570
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:47 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-MmcWP6lr3RjkC7gMsk7H3bwlD7ytKaKAOH?WgRzajuU



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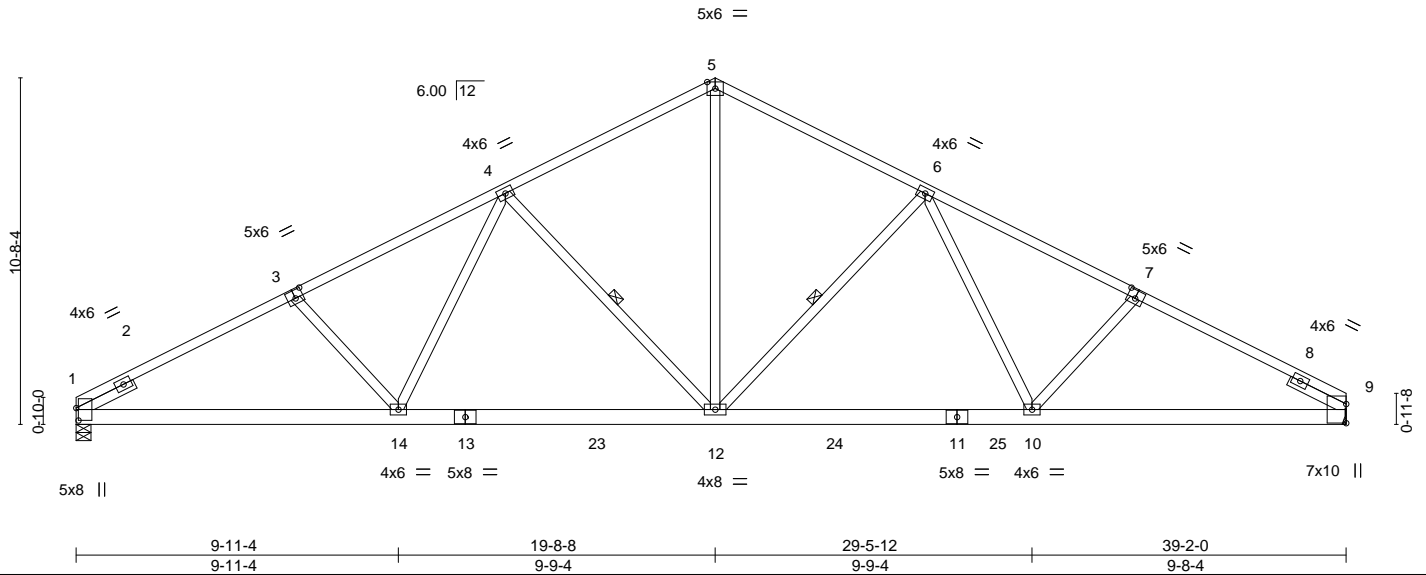


Plate Offsets (X,Y)-- [1:0-4-9,0-0-13], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.22	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.41	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.11	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.14	10-12	>999		
								Weight: 241 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-12, 6-12

REACTIONS.

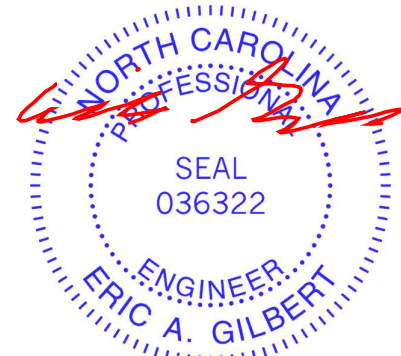
(lb/size) 1=1567/0-5-8, 9=1567/Mechanical
 Max Horz 1=123(LC 9)
 Max Uplift 1=65(LC 12), 9=64(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-2658/892, 3-4=-2452/864, 4-5=-1800/742, 5-6=-1801/742, 6-7=-2394/845,
 7-9=-2586/871
 BOT CHORD 1-14=-694/2307, 12-14=-492/1961, 10-12=-485/1940, 9-10=-671/2235
 WEBS 3-14=-295/264, 4-14=-73/456, 4-12=-670/364, 5-12=-426/1223, 6-12=-642/353,
 6-10=-52/408, 7-10=-264/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



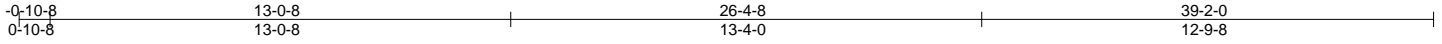
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A07	Truss Type GABLE	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810571
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:49 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-I8kGqoJ5b3_SSRpkz99I800rlwqgogHTsbUdkJzajuS



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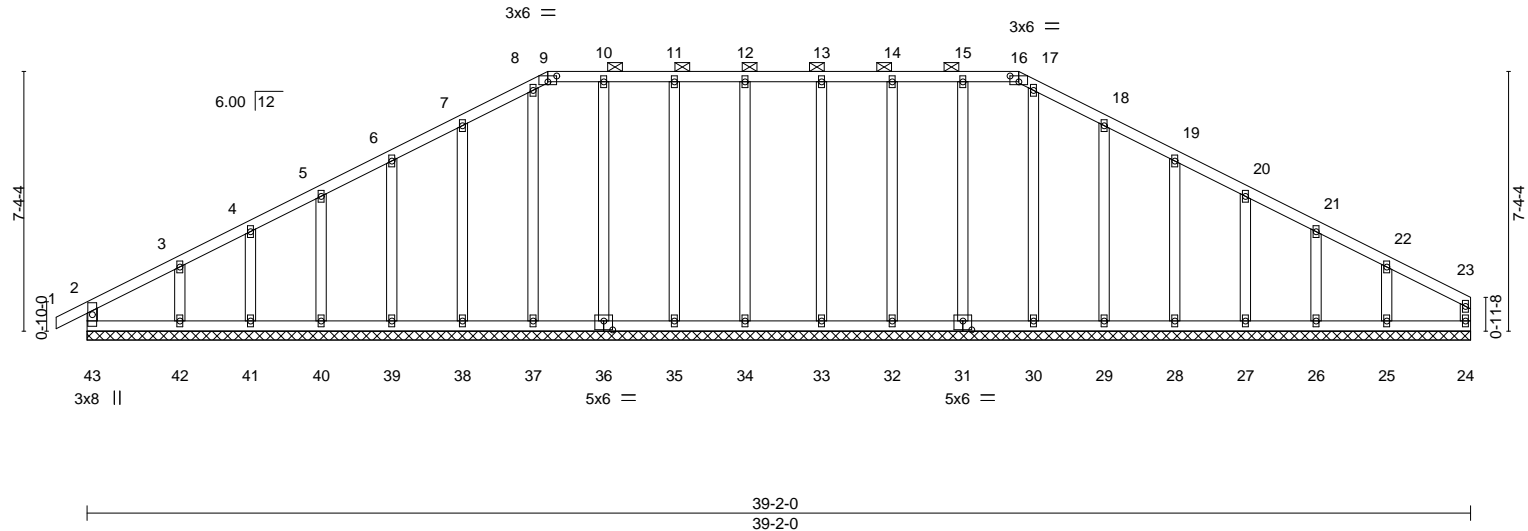


Plate Offsets (X,Y)-- [9:0-3-0,0-2-0], [16:0-3-0,0-2-0], [31:0-3-0,0-3-0], [36:0-3-0,0-3-0]

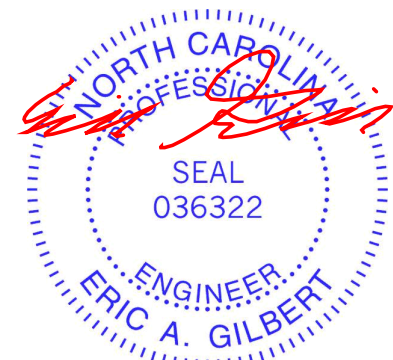
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00	24	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R						
							Weight: 258 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP 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.): 9-16.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 39-2-0.
 (lb) - Max Horz 43=130(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 43, 24, 34, 35, 36, 38, 39, 40, 41, 33, 32, 31, 29, 28, 27, 26 except 42=-127(LC 12), 25=-117(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 43, 24, 34, 35, 36, 37, 38, 39, 40, 41, 42, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-8=-116/267, 8-9=-111/254, 9-10=-106/265, 10-11=-106/265, 11-12=-106/265, 12-13=-106/265, 13-14=-106/265, 14-15=-106/265, 15-16=-106/265, 16-17=-111/254, 17-18=-116/267

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 43, 24, 34, 35, 36, 38, 39, 40, 41, 33, 32, 31, 29, 28, 27, 26 except (jt=lb) 42=127, 25=117.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Job 1719437	Truss A08	Truss Type Hip	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810572
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:51 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-EXr1FULL7gEAhIz75aBDDR5zOkJqGYBmJuzkpCzajuQ



Scale = 1:68.9

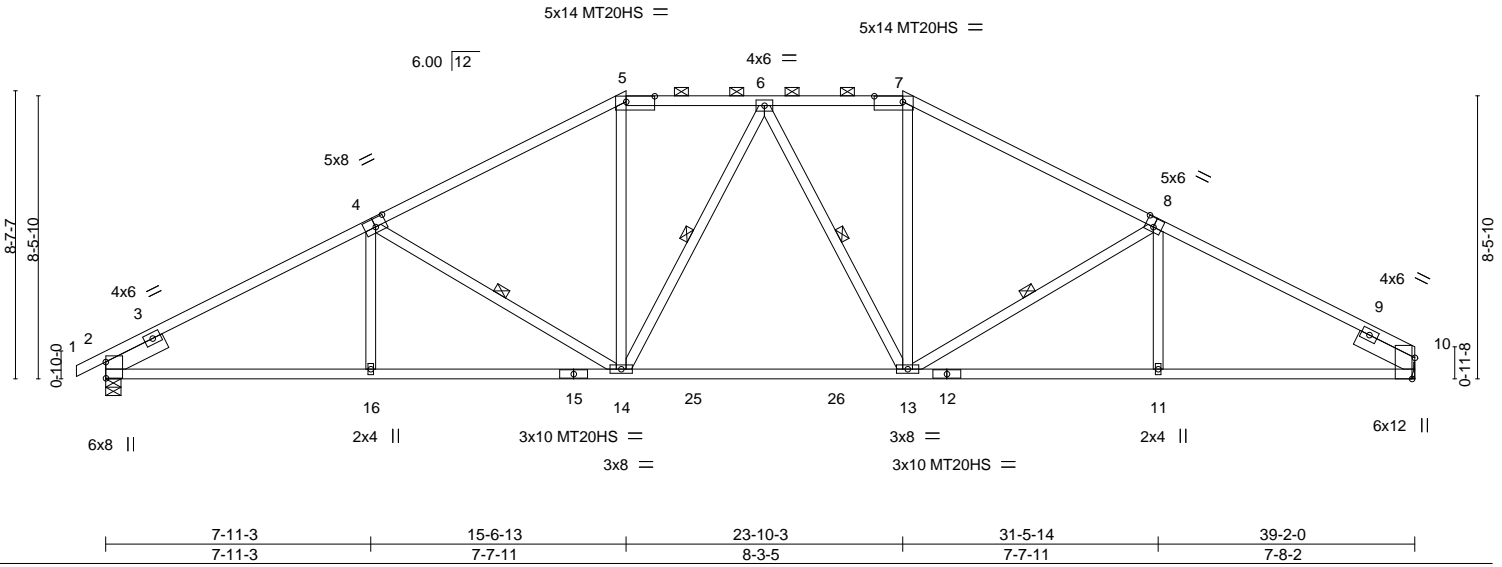


Plate Offsets (X,Y)-- [2:0-5-13,0-0-1], [4:0-4-0,0-3-0], [5:0-10-4,0-2-0], [7:0-10-4,0-2-0], [8:0-3-0,0-3-4], [10:0-7-9,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.30	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.55	13-14	>856	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.17	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	11-13	>999		
								Weight: 221 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 1-4: 2x4 SP No.1, 8-10: 2x4 SP SS
 BOT CHORD 2x4 SP No.1 *Except*
 12-15: 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-11-1 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-14, 6-14, 6-13, 8-13

REACTIONS.

(lb/size) 2=1620/0-5-8, 10=1566/Mechanical
 Max Horz 2=168(LC 12)
 Max Uplift 2=270(LC 12), 10=244(LC 13)

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

TOP CHORD 2-4=-2607/826, 4-5=-2134/750, 5-6=-1819/738, 6-7=-1812/735, 7-8=-2122/746,
 8-10=-2543/808
 BOT CHORD 2-16=-620/2239, 14-16=-622/2238, 13-14=-392/1870, 11-13=-601/2171, 10-11=-599/2172
 WEBS 4-14=-509/297, 5-14=-105/549, 6-14=-278/146, 6-13=-291/146, 7-13=-101/537,
 8-13=-446/277

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=270, 10=244.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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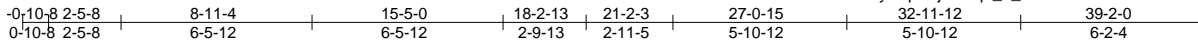
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A09	Truss Type HIP	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810573
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:52 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-ijPPTqL_u_M1JuYJeHiSmdAU8et?uuvYYjHLezajuP



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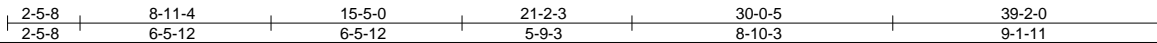
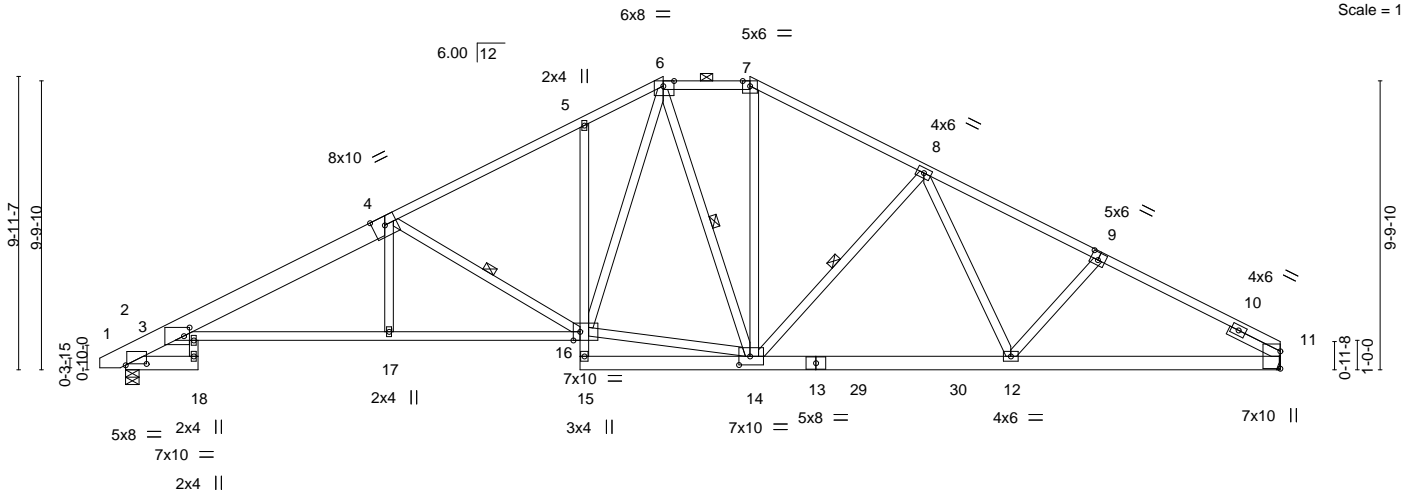


Plate Offsets (X, Y)-- [2:0-8-8,0-0-9], [3:0-2-5,0-3-8], [6:0-4-6,Edge], [9:0-3-0,0-3-0], [14:0-4-8,0-3-8], [16:0-2-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.23	17-24	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.49	17-24	>967		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.29	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.25	17-24	>999		
								Weight: 276 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x8 SP DSS
BOT CHORD 2x4 SP No.2 *Except*
2-18,13-15,11-13: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-5-7 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-16, 6-14, 8-14

REACTIONS.

(lb/size) 2=1613/0-5-8, 11=1567/Mechanical
Max Horz 2=195(LC 12)
Max Uplift 2=-276(LC 12), 11=-268(LC 13)

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

TOP CHORD 3-20=-666/222, 3-4=-3149/984, 4-5=-2375/836, 5-6=-2272/939, 6-7=-1633/727,
7-8=-1911/756, 8-9=-2396/835, 9-11=-2583/855
BOT CHORD 3-17=-778/2844, 16-17=-775/2852, 12-14=-499/1991, 11-12=-660/2232
WEBS 4-17=0/321, 4-16=-948/395, 14-16=-239/1553, 6-16=-408/1070, 6-14=-346/142,
7-14=-155/530, 8-14=-557/314, 8-12=-51/356

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=276, 11=268.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



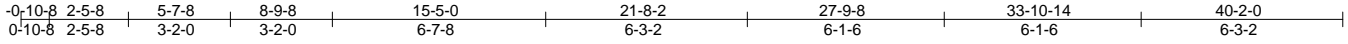
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss A11	Truss Type HALF HIP GIRDER	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810575
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:57 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUBvNvpB-3hDIWXP6IW_JPgRHRqldTIL1N9OEg9FeiqR20szajuK



Scale = 1:71.5

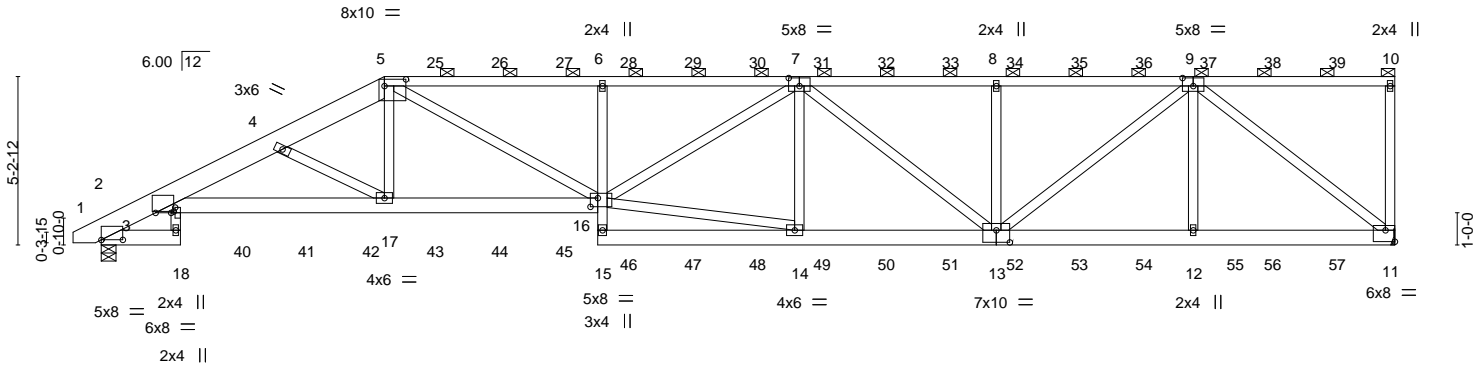


Plate Offsets (X,Y)--	[2:0-8-0,0-0-1], [3:0-6-13,0-0-8], [3:0-2-0,0-1-8], [5:0-8-0,0-2-8], [7:0-4-0,0-3-0], [9:0-4-0,0-3-0], [11:Edge,0-4-4], [13:0-5-0,0-4-8], [16:0-2-12,0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	0.46	6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.42	6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.70	Horz(CT)	-0.20	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 566 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-5: 2x8 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
6-15: 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-0 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 7-9-13 oc bracing.

REACTIONS.

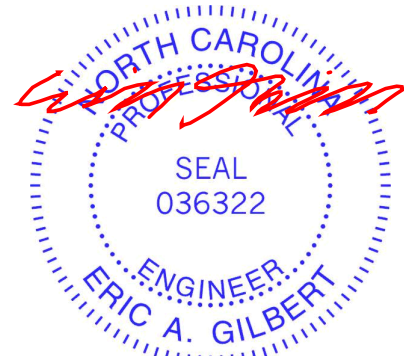
(lb/size) 11=2166/Mechanical, 2=2389/0-5-8
Max Horz 2=214(LC 8)
Max Uplift 11=-1835(LC 5), 2=-1508(LC 8)
Max Grav 11=2261(LC 32), 2=2389(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-20=-970/557, 3-4=-5803/4138, 4-5=-4889/3685, 5-6=-5714/4574, 6-7=-5646/4518, 7-8=-4076/3320, 8-9=-4076/3320
BOT CHORD 3-17=-3995/5528, 16-17=-3288/4280, 6-16=-591/653, 14-15=-542/646, 13-14=-3853/4768, 12-13=-2070/2529, 11-12=-2070/2529
WEBS 4-17=-1468/954, 5-17=-753/1233, 5-16=-1519/1717, 14-16=-3355/4177, 7-16=-786/1081, 7-14=-490/518, 7-13=-885/680, 8-13=-454/515, 9-13=-1597/1975, 9-12=-55/364, 9-11=-3195/2611

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1835, 2=1508.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job 1719437	Truss A11	Truss Type HALF HIP GIRDER	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810575
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:44:57 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-3hDIWXP6iW_JPgRHRqldTIL1N9OEg9FeiqR20szajuK

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 171 lb down and 187 lb up at 10-4-4, 171 lb down and 187 lb up at 12-4-4, 171 lb down and 187 lb up at 14-4-4, 126 lb down and 148 lb up at 16-4-4, 126 lb down and 148 lb up at 18-4-4, 126 lb down and 148 lb up at 20-4-4, 126 lb down and 148 lb up at 22-4-4, 126 lb down and 148 lb up at 24-4-4, 126 lb down and 148 lb up at 26-4-4, 126 lb down and 148 lb up at 28-4-4, 126 lb down and 148 lb up at 30-4-4, 126 lb down and 148 lb up at 32-4-4, 126 lb down and 148 lb up at 34-4-4, and 126 lb down and 148 lb up at 36-4-4, and 126 lb down and 148 lb up at 38-4-4 on top chord, and 120 lb down and 71 lb up at 2-5-8, 115 lb down and 78 lb up at 4-4-4, 115 lb down and 115 lb up at 6-4-4, 148 lb down and 187 lb up at 8-4-4, 3 lb down at 10-4-4, 3 lb down at 12-4-4, 3 lb down at 14-4-4, 47 lb down and 50 lb up at 16-4-4, 47 lb down and 50 lb up at 18-4-4, 47 lb down and 50 lb up at 20-4-4, 47 lb down and 50 lb up at 22-4-4, 47 lb down and 50 lb up at 24-4-4, 47 lb down and 50 lb up at 26-4-4, 47 lb down and 50 lb up at 28-4-4, 47 lb down and 50 lb up at 30-4-4, 47 lb down and 50 lb up at 32-4-4, 47 lb down and 50 lb up at 34-4-4, and 47 lb down and 50 lb up at 36-4-4, and 47 lb down and 50 lb up at 38-4-4 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: 1-5=-60, 5-10=-60, 18-19=-20, 16-22=-20, 11-15=-20

Concentrated Loads (lb)

Vert: 18=-120(F) 25=-64(F) 26=-64(F) 27=-64(F) 28=-32(F) 29=-32(F) 30=-32(F) 31=-32(F) 32=-32(F) 33=-32(F) 34=-32(F) 35=-32(F) 36=-32(F) 37=-32(F) 38=-32(F) 39=-32(F) 40=-115(F) 41=-115(F) 42=-115(F) 46=-22(F) 47=-22(F) 48=-22(F) 49=-22(F) 50=-22(F) 51=-22(F) 52=-22(F) 53=-22(F) 54=-22(F) 55=-22(F) 56=-22(F) 57=-22(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



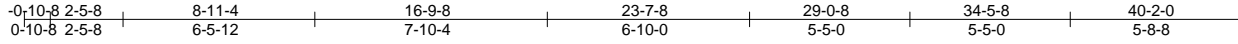
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss A13	Truss Type HIP	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810577
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:00 2019 Page 1

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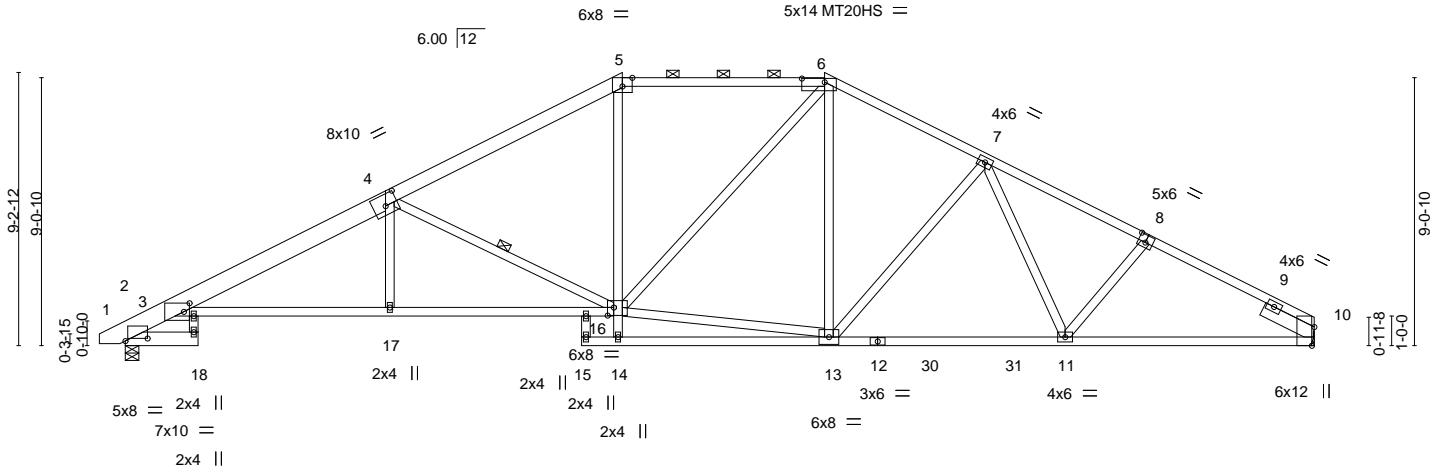


Plate Offsets (X,Y)--	[2:0-9-0,0-1-1], [3:0-2-5,0-3-8], [4:0-5-0,0-4-8], [5:0-4-0,Edge], [6:0-9-4,0-1-8], [8:0-3-0,0-3-0], [10:0-7-9,Edge], [16:0-2-8,0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.27	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.52	11-13	>921	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.33	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.24	17-25	>999		Weight: 260 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x6 SP No.2, 1-4: 2x8 SP DSS, 8-10: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-10-9 max.): 5-6.
BOT CHORD 2x4 SP No.2 *Except* 2-18: 2x6 SP No.2, 3-16,10-12: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-14: 2x4 SP No.2	WEBS 1 Row at midpt 4-16
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1666/0-5-8, 10=1616/Mechanical
Max Horz 2=179(LC 12)
Max Uplift 2=259(LC 12), 10=253(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-21=690/221, 3-4=3388/1016, 4-5=2462/819, 5-6=2074/799, 6-7=2108/774, 7-8=2473/830, 8-10=2615/837
BOT CHORD 3-17=819/3081, 16-17=815/3089, 11-13=521/2114, 10-11=639/2224
WEBS 4-17=0/366, 4-16=1105/460, 5-16=99/644, 13-16=343/1788, 6-13=107/382, 7-13=460/278, 7-11=47/258, 6-16=145/492

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=259, 10=253.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss A17	Truss Type Common	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810581
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:05 2019 Page 1

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0-10-8	6-11-3	13-6-13	20-2-8	26-10-3	33-5-13	40-5-0	41-3-8
0-10-8	6-11-3	6-7-11	6-7-11	6-7-11	6-7-11	6-11-3	0-10-8

Scale = 1:72.7

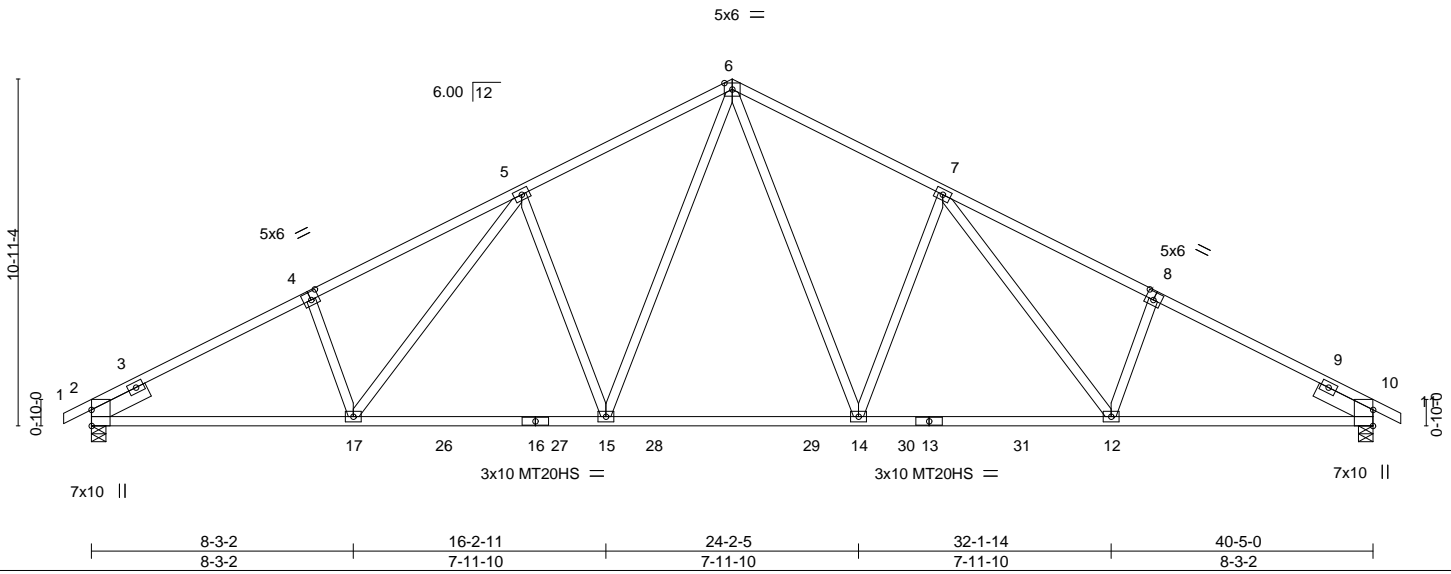


Plate Offsets (X,Y)--	[2:0-6-1,Edge], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:0-6-1,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(LL) -0.28 12-14 >999 360	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Vert(CT) -0.52 12-14 >929 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.15 10 n/a n/a		
			Wind(LL) 0.17 15-17 >999 240	Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4,8-11: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 13-16: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1669/0-5-8, 10=1669/0-5-8
 Max Horz 2=202(LC 16)
 Max Uplift 2=-312(LC 12), 10=-312(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2729/893, 4-5=-2614/961, 5-6=-2219/893, 6-7=-2219/893, 7-8=-2614/961, 8-10=-2729/893
 BOT CHORD 2-17=-661/2351, 15-17=-480/2088, 14-15=-242/1609, 12-14=-480/2088, 10-12=-663/2351
 WEBS 6-14=-297/878, 7-14=-616/394, 7-12=-167/437, 8-12=-249/256, 6-15=-297/878, 5-15=-616/394, 5-17=-167/437, 4-17=-249/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=312, 10=312.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



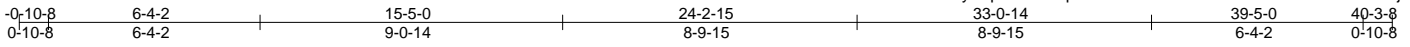
March 15, 2019

Job 1719437	Truss A18	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810582
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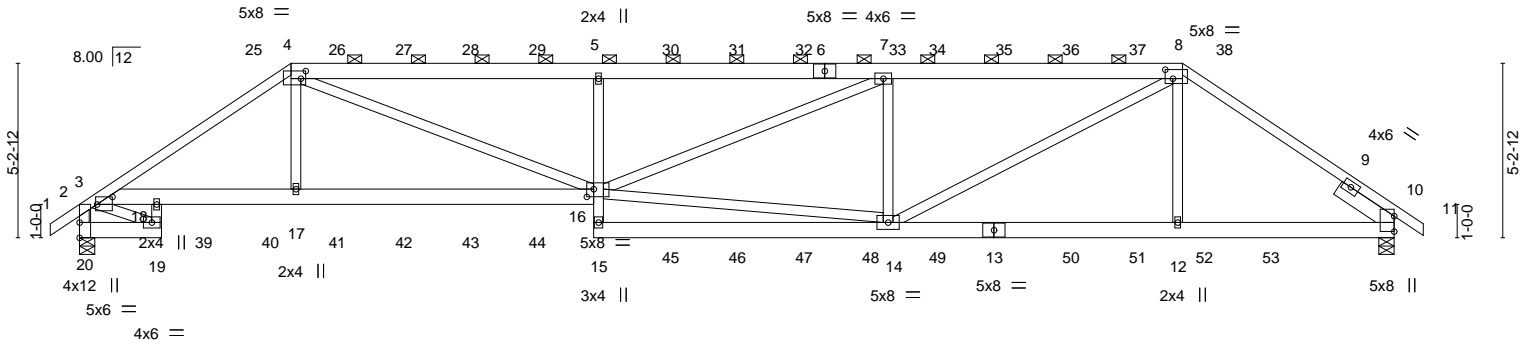
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:08 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUBynvpB-EoNSqLY06uNmEMmOae?CP1lzUBA?k4NGE2b7vzaju9



Scale = 1:69.1



2-5-8 6-4-2 15-5-0 24-2-15 33-0-14 39-5-0 2-5-8 3-10-10 9-0-14 8-9-15 8-9-15 6-4-2
Plate Offsets (X,Y)-- [2:0-1-3,0-1-12], [3:0-5-8,0-2-11], [4:0-1-12,0-2-12], [8:0-2-12,0-3-4], [16:0-2-8,0-2-12], [20:0-0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	0.39	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.34	5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.87	Horz(CT)	-0.15	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 545 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-14 max.): 4-8.
BOT CHORD 2x6 SP No.2 *Except* 5-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 20=2118/0-5-8, 10=2175/0-5-8 Max Horz 20=-158(LC 25) Max Uplift 20=-1446(LC 8), 10=-1507(LC 9) Max Grav 20=2131(LC 33), 10=2175(LC 1)
--

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1671/1179, 3-4=-3823/2833, 4-5=-5625/4532, 5-7=-5531/4458, 7-8=-4431/3582, 8-10=-3021/2288, 2-20=-2049/1420
BOT CHORD 19-20=-582/778, 3-18=-2431/3242, 17-18=-2431/3242, 16-17=-2435/3259, 5-16=-851/940, 14-15=-571/691, 12-14=-1817/2471, 10-12=-1819/2467
WEBS 4-17=-115/546, 4-16=-2419/2755, 14-16=-3044/3902, 7-16=-951/1178, 7-14=-1222/1223, 8-14=-1992/2353, 8-12=0/298, 18-19=-290/418, 3-19=-902/674

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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) except (jt=lb) 20=1446, 10=1507.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A18	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810582
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:08 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-EoNSqLY06uNmEMmOae?CP1IzUbA?k4NGE2b7vjzaju9

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 201 lb up at 5-8-8, 171 lb down and 187 lb up at 7-8-8, 171 lb down and 187 lb up at 9-8-8, 171 lb down and 187 lb up at 11-8-8, 171 lb down and 187 lb up at 13-8-8, 126 lb down and 148 lb up at 15-8-8, 126 lb down and 148 lb up at 17-8-8, 126 lb down and 148 lb up at 19-8-8, 126 lb down and 148 lb up at 21-8-8, 126 lb down and 148 lb up at 23-8-8, 126 lb down and 148 lb up at 25-8-8, 126 lb down and 148 lb up at 27-8-8, 126 lb down and 148 lb up at 29-8-8, and 126 lb down and 148 lb up at 31-8-8, and 134 lb down and 190 lb up at 33-8-8 on top chord, and 34 lb down and 46 lb up at 3-8-8, 3 lb down at 5-8-8, 3 lb down at 7-8-8, 3 lb down at 9-8-8, 3 lb down at 11-8-8, 3 lb down at 13-8-8, 47 lb down and 50 lb up at 15-6-12, 47 lb down and 50 lb up at 17-8-8, 47 lb down and 50 lb up at 19-8-8, 47 lb down and 50 lb up at 21-8-8, 47 lb down and 50 lb up at 23-8-8, 47 lb down and 50 lb up at 25-8-8, 47 lb down and 50 lb up at 27-8-8, 47 lb down and 50 lb up at 29-8-8, 47 lb down and 50 lb up at 31-8-8, and 31 lb down and 24 lb up at 33-8-8, and 141 lb down and 125 lb up at 35-8-8 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: 1-2=-60, 2-4=-60, 4-8=-60, 8-11=-60, 19-20=-20, 16-18=-20, 15-21=-20

Concentrated Loads (lb)

Vert: 16=-22(F) 5=-32(F) 13=-22(F) 25=-66(F) 26=-64(F) 27=-64(F) 28=-64(F) 29=-64(F) 30=-32(F) 31=-32(F) 32=-32(F) 33=-32(F) 34=-32(F) 35=-32(F) 36=-32(F) 37=-32(F) 38=-45(F) 39=-28(F) 45=-22(F) 46=-22(F) 47=-22(F) 48=-22(F) 49=-22(F) 50=-22(F) 51=-22(F) 52=-16(F) 53=-141(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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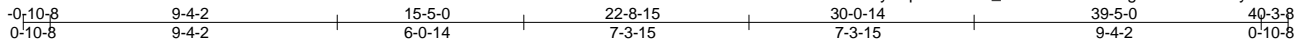
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss A19	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810583
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:10 2019 Page 1

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Scale = 1:75.0

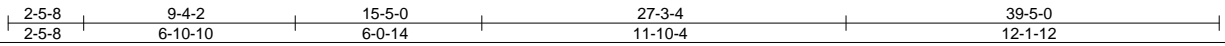
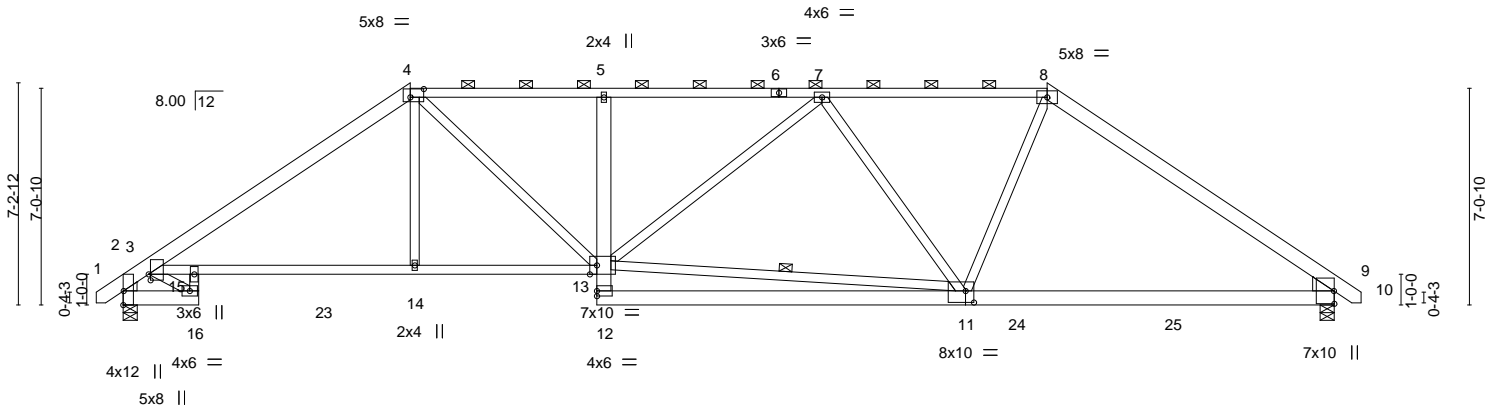


Plate Offsets (X,Y)-- [2:0-0-1,0-0-1], [2:0-0-2,0-3-11], [2:Edge,0-0-3], [3:0-2-5,0-0-12], [4:0-5-4,0-3-4], [9:0-0-2,0-3-11], [9:0-0-1,0-0-1], [11:0-3-4,0-4-8], [13:0-2-12,Edge]

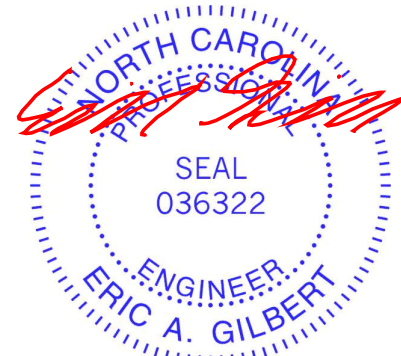
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.26	14-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.57	14-15	>824		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.26	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.32	14-15	>999		
								Weight: 264 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
4-6,6-8: 2x4 SP No.2	2-0-0 oc purlins (2-11-15 max.): 4-8.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
3-13: 2x4 SP No.1	WEBS 1 Row at midpt 11-13
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3, Right: 2x6 SP No.2	

REACTIONS. (lb/size) 2=1620/0-5-8, 9=1620/0-5-8
 Max Horz 2=189(LC 11)
 Max Uplift 2=-191(LC 12), 9=-191(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-18=-1485/518, 3-4=-2491/646, 4-5=-2594/791, 5-7=-2547/782, 7-8=-1977/614,
 8-9=-2208/595
 BOT CHORD 2-16=-315/735, 3-15=-424/2105, 14-15=-405/2036, 13-14=-404/2043, 5-13=-395/237,
 11-12=-79/715, 9-11=-312/1707
 WEBS 4-13=-342/857, 11-13=-438/1676, 7-13=-70/261, 7-11=-772/372, 8-11=-102/779,
 15-16=-245/658, 3-16=-938/402, 4-14=0/390

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=191, 9=191.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A21	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810585
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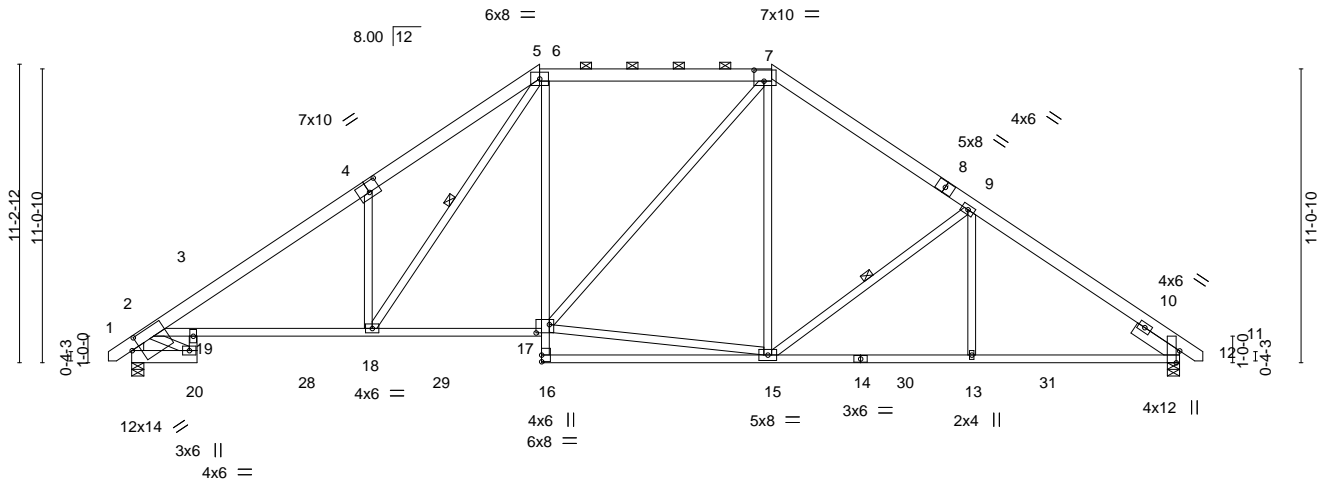
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:12 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-7ZdzffbXA71Biz49pU38ZtSbKCS4gzFs8gZL2Uzaju5

0-10-8	8-10-13	15-4-2	24-0-14	31-7-3	39-5-0	40-3-8
0-10-8	8-10-13	6-5-5	8-8-12	7-6-5	7-9-13	0-10-8

Scale = 1:86.7



2-5-8	8-10-13	15-5-0	24-0-14	31-7-3	39-5-0
2-5-8	6-5-5	6-6-3	8-7-14	7-6-5	7-9-13

Plate Offsets (X,Y)-- [2:0-0-2,0-0-0], [2:0-3-2,0-1-15], [2:0-3-10,0-4-9], [4:0-5-0,0-4-8], [6:0-1-12,0-0-0], [7:0-4-8,0-5-0], [11:0-5-6,Edge], [17:0-6-0,0-3-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.23 18-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.49 18-19	>963	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.26 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.29 18-19	>999	240	Weight: 291 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-20: 2x6 SP No.2, 3-17: 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 7-17: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3
 SLIDER Right 2x6 SP No.2 1-11-12

REACTIONS.

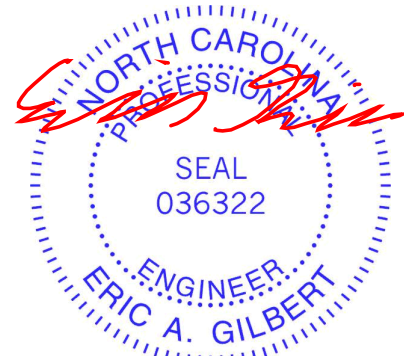
(lb/size) 2=1620/0-5-8, 11=1620/0-5-8
 Max Horz 2=-302(LC 10)
 Max Uplift 2=-253(LC 12), 11=-253(LC 13)

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

TOP CHORD 3-22=-1245/456, 3-4=-2552/623, 4-5=-2643/874, 5-6=-1465/561, 6-7=-1573/585,
 7-9=-1803/580, 9-11=-2225/565
 BOT CHORD 2-20=-304/530, 3-19=-366/2250, 18-19=-366/2250, 17-18=-147/1574, 6-17=-42/319,
 13-15=-319/1747, 11-13=-319/1747
 WEBS 4-18=-676/453, 15-17=-138/1334, 7-17=-198/378, 7-15=-98/400, 9-15=-613/312,
 9-13=0/320, 19-20=-177/370, 3-20=-604/346, 5-18=-474/1208

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 11=253.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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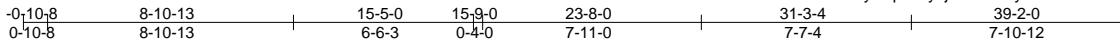
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss A22	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810586
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:14 2019 Page 1

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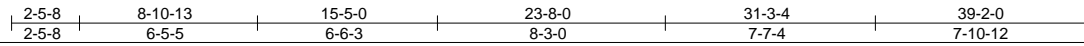
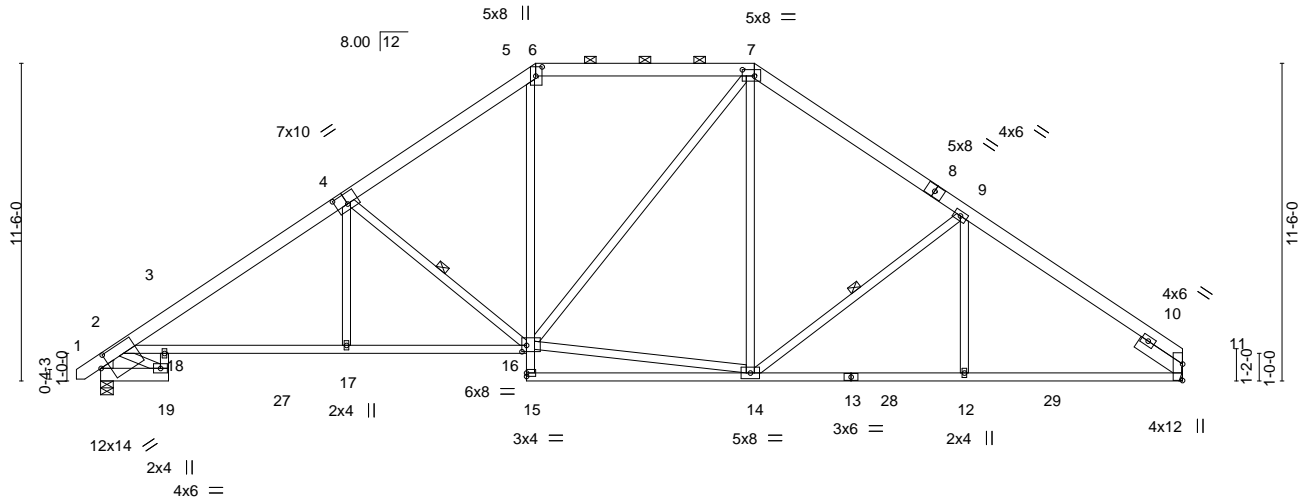


Plate Offsets (X,Y)-- [2:0-0-2,0-0-0], [2:0-3-2,0-1-15], [2:0-3-10,0-4-9], [4:0-5-0,0-4-8], [5:0-1-3,0-1-12], [6:0-4-0,0-2-12], [6:0-2-12,0-0-0], [7:0-5-4,0-2-12], [11:0-7-2,0-0-1], [16:0-2-0,0-2-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.22	17-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.47	17-18	>991		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.27	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.19	17-18	>999		
								Weight: 285 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-19: 2x6 SP No.2, 3-16: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
7-16: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-8-14 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-16, 9-14

REACTIONS. (lb/size) 2=1610/0-5-8, 11=1566/Mechanical
Max Horz 2=247(LC 9)
Max Uplift 2=47(LC 12), 11=37(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-21=-1221/430, 3-4=-2545/627, 4-5=-1927/607, 5-6=-1308/529, 6-7=-1477/573,
7-9=-1742/572, 9-11=-2155/549
BOT CHORD 2-19=-253/463, 3-18=-391/2154, 17-18=-391/2154, 16-17=-390/2160, 5-16=-109/660,
12-14=-321/1663, 11-12=-321/1663
WEBS 4-17=0/373, 4-16=-936/325, 7-14=-44/420, 9-14=-595/256, 9-12=0/338, 18-19=-145/328,
3-19=-527/288, 14-16=-121/1216, 7-16=-137/326

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss A23	Truss Type Piggyback Base	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810587
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:15 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-X8I6IhdPT2FmZRpkVcdrBV46tPVotKOlrdo?fpzaju2

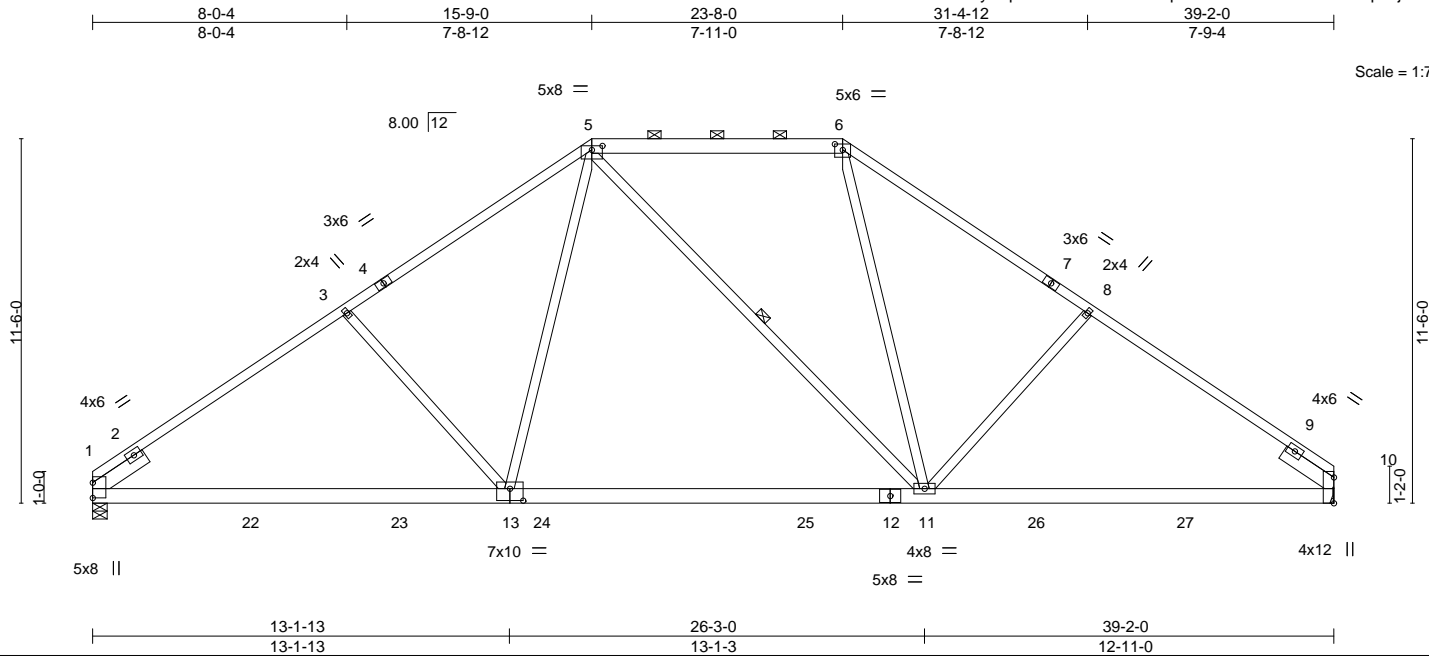


Plate Offsets (X,Y)--	[5:0-4-0,0-1-9], [6:0-3-0,0-2-3], [13:0-5-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.33 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.54 11-13 >865 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.10 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.10 11-13 >999 240	Weight: 253 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
5-6: 2x6 SP No.2, 7-10: 2x4 SP No.1	2-0-0 oc purlins (5-10-4 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-11
5-11: 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 1=1567/0-5-8, 10=1567/Mechanical
Max Horz 1=239(LC 9)
Max Uplift 1=38(LC 12), 10=37(LC 13)
Max Grav 1=1674(LC 19), 10=1657(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2279/590, 3-5=-2055/598, 5-6=-1427/561, 6-8=-1994/593, 8-10=-2207/582
BOT CHORD 1-13=-358/1972, 11-13=-130/1508, 10-11=-348/1751
WEBS 3-13=-458/315, 5-13=-79/836, 6-11=-71/705, 8-11=-432/309

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Job 1719437	Truss B01	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810588
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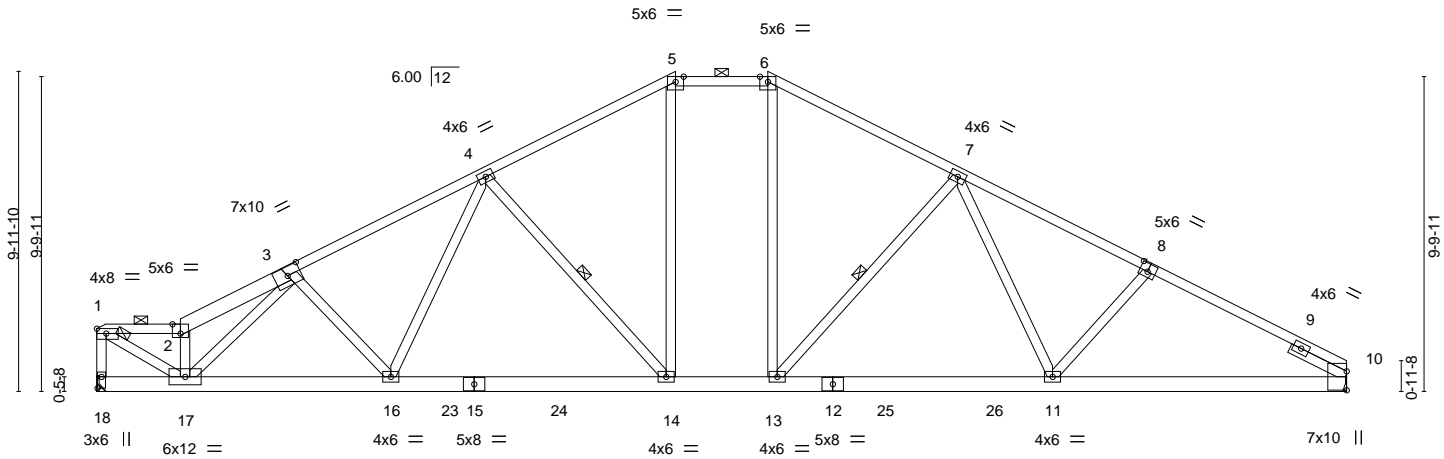
Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:16 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-?LsUV1e1EMNdBbOw2K84kjdf7psscglR3HXZBFzaju1

0-7-4 2-7-4	6-2-6	12-1-5	18-0-4	20-10-12	26-9-11	32-8-9	38-11-0
0-7-4 2-0-0	3-7-2	5-10-15	5-10-15	2-10-8	5-10-15	5-10-15	6-2-7

Scale = 1:71.7



0-7-4 2-7-4	9-1-14	18-0-4	20-10-12	29-9-2	38-11-0
0-7-4 2-0-0	6-6-10	8-10-6	2-10-8	8-10-6	9-1-14

Plate Offsets (X,Y)-- [1:Edge,0-1-13], [2:0-3-0,Edge], [3:0-5-0,0-3-4], [8:0-3-0,0-3-0], [18:0-4-4,0-1-8]

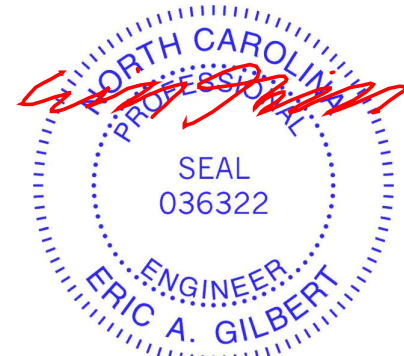
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.22 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.40 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.13 11-13	>999	240	Weight: 262 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-3: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-15 max.): 1-2, 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-14, 7-13
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 18=1551/Mechanical, 10=1551/Mechanical
Max Horz 18=-152(LC 10)
Max Uplift 18=-58(LC 12), 10=-58(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2094/658, 2-3=-2279/747, 3-4=-2420/829, 4-5=-1892/744, 5-6=-1629/716,
6-7=-1897/745, 7-8=-2371/826, 8-10=-2553/845, 1-18=-1457/457
BOT CHORD 16-17=-640/2178, 14-16=-490/1966, 13-14=-278/1629, 11-13=-490/1967,
10-11=-651/2205
WEBS 1-17=-724/2409, 2-17=-1139/401, 4-14=-606/319, 5-14=-172/582, 6-13=-180/610,
7-13=-606/318, 7-11=-40/368, 4-16=-45/386, 3-17=-315/138

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B02	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810589
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:17 2019 Page 1
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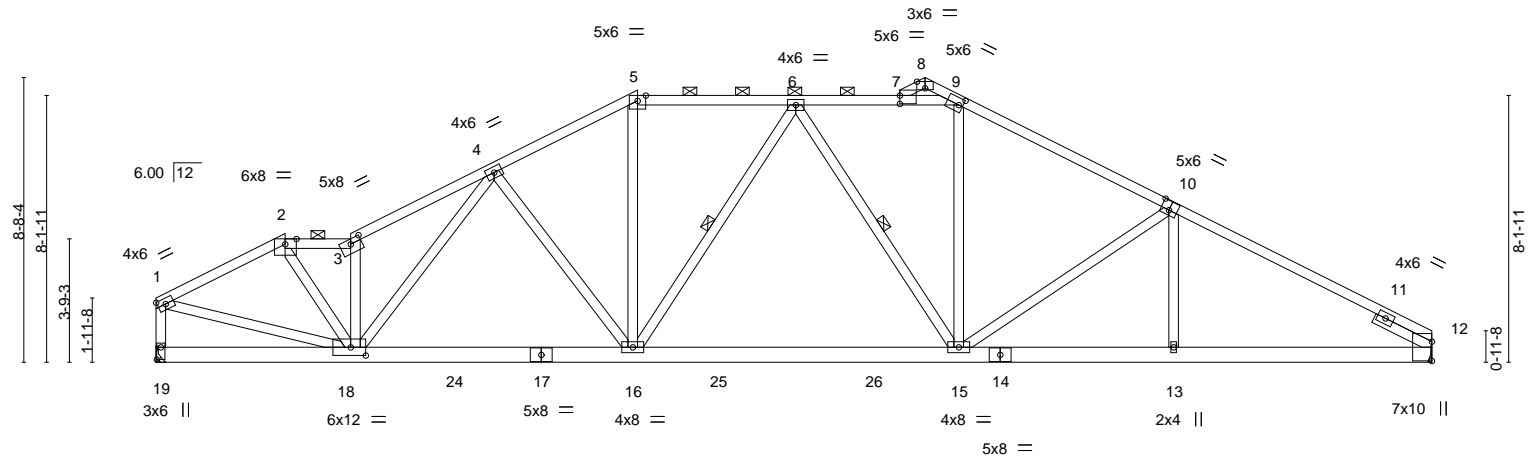
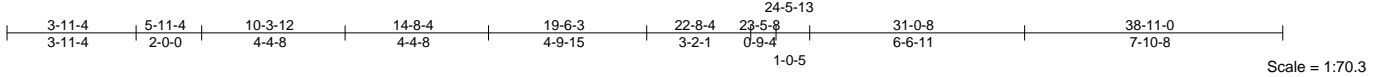


Plate Offsets (X,Y)--	[2:0-4-2,Edge], [3:0-4-0,0-1-12], [7:0-0-0,0-3-1], [8:0-3-0,Edge], [9:0-1-8,0-2-8], [10:0-3-0,0-3-4], [18:0-5-8,0-3-0], [19:0-4-8,0-1-8]
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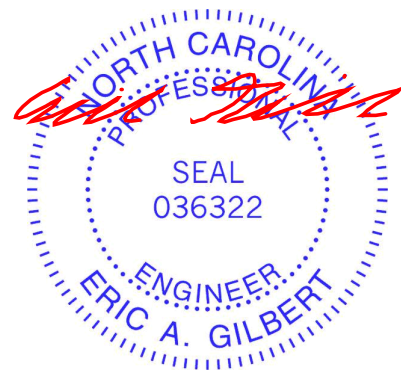
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(LL) -0.18 15-16 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Vert(CT) -0.35 15-16 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.08 12 n/a n/a		
			Wind(LL) 0.10 15 >999 240	Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 10-12: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-4 max.): 2-3, 5-9.
BOT CHORD 2x6 SP No.2 *Except* 12-14: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-16, 6-15
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 19=1648/Mechanical, 12=1648/Mechanical
Max Horz 19=-116(LC 13)
Max Uplift 19=-43(LC 12), 12=-47(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2176/671, 2-3=-2300/734, 3-4=-2703/925, 4-5=-2232/801, 5-6=-1940/755,
6-7=-1969/779, 7-9=-1977/845, 9-10=-2288/799, 10-12=-2671/850, 1-19=-1578/512
BOT CHORD 16-18=-538/2163, 15-16=-446/2059, 13-15=-627/2300, 12-13=-626/2300
WEBS 2-18=-196/828, 3-18=-1393/523, 4-18=-114/350, 4-16=-377/263, 5-16=-197/736,
6-16=-363/127, 10-15=-434/273, 9-15=-117/632, 6-15=-347/128, 1-18=-538/1915

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

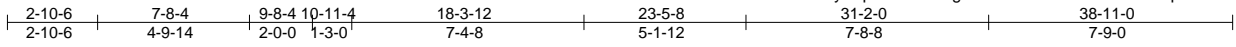
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 1719437	Truss B03	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810590
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:19 2019 Page 1

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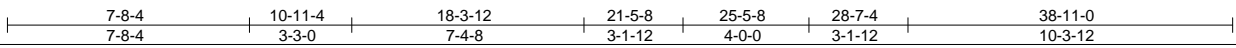
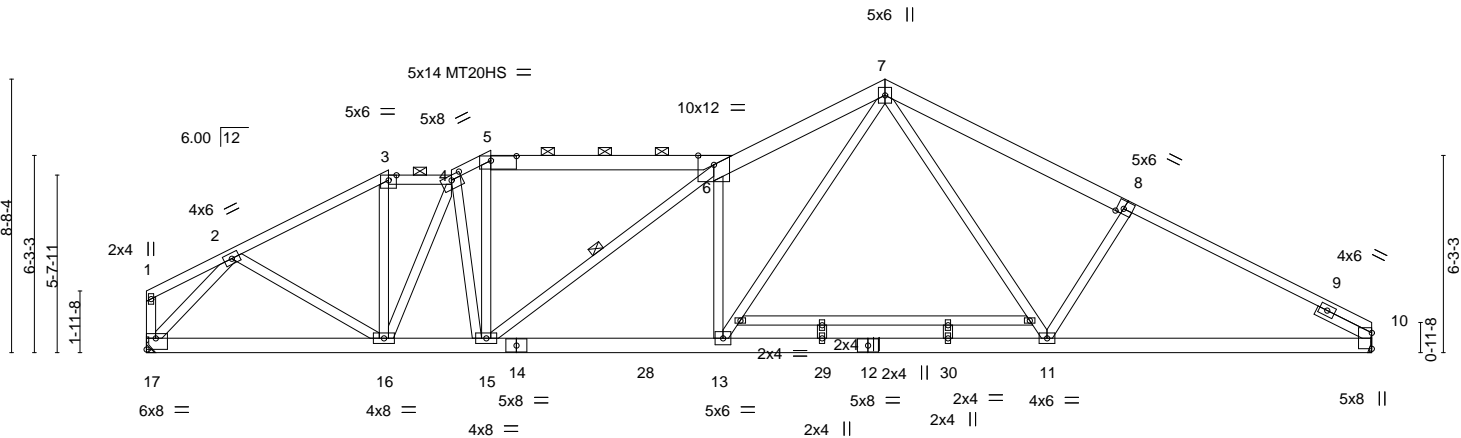


Plate Offsets (X,Y)--	[4:0-4-0,0-1-12], [5:0-9-12,0-1-12], [8:0-2-8,Edge], [17:Edge,0-4-4]
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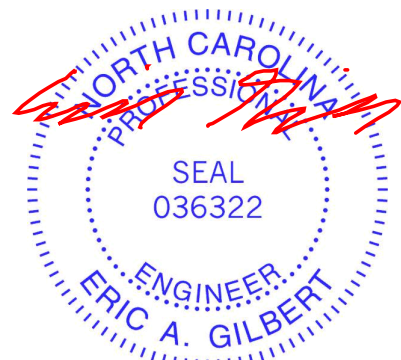
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.94	Vert(LL)	-0.17 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT)	-0.53 11-13	>871	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT)	0.11 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.14 11-13	>999	240		
							Weight: 296 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-6,6-7,7-8: 2x6 SP No.2, 8-10: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-0-13 max.): 3-4, 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-15
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 10=1671/Mechanical, 17=1631/Mechanical
 Max Horz 17=-113(LC 8)
 Max Uplift 17=-11(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2175/535, 3-4=-1885/526, 4-5=-2374/630, 5-6=-2195/605, 6-7=-3430/799,
 7-8=-2611/596, 8-10=-2795/573
 BOT CHORD 16-17=-288/1348, 15-16=-361/2213, 13-15=-395/3015, 11-13=-197/1949,
 10-11=-395/2405
 WEBS 2-16=-9/648, 3-16=-59/613, 4-16=-879/179, 5-15=-96/711, 6-15=-1040/59,
 7-13=-369/1975, 7-11=-63/665, 8-11=-326/337, 6-13=-1320/557, 2-17=-1939/521

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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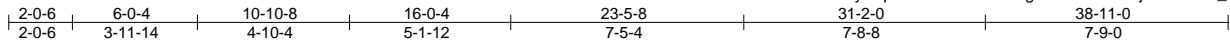
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B04	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810591
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:20 2019 Page 1

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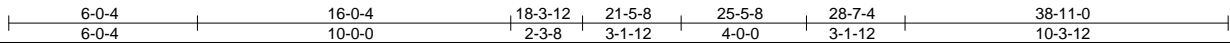
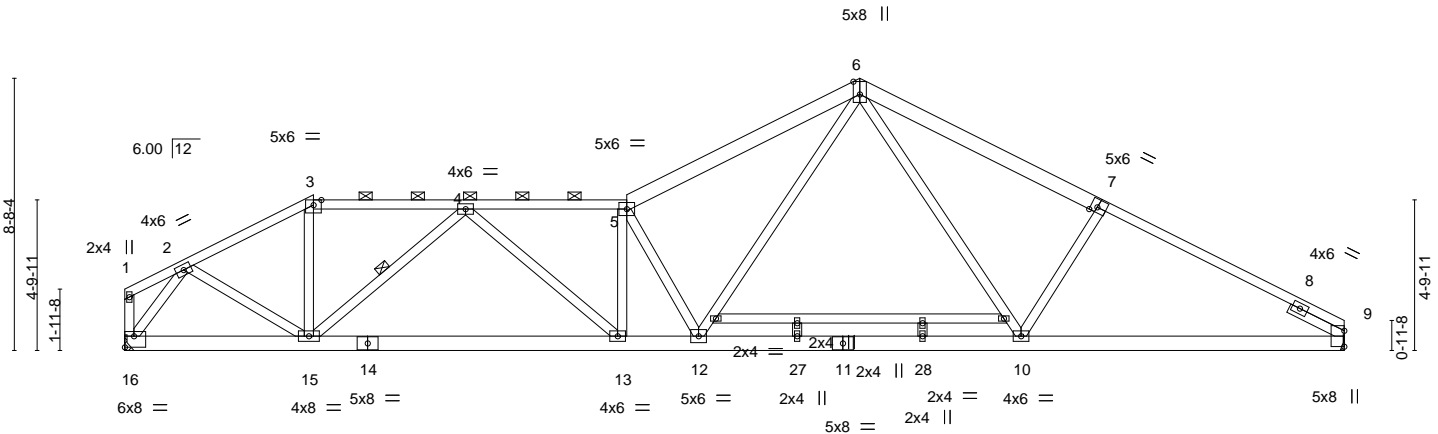


Plate Offsets (X,Y)-- [6:0-4-14,Edge], [7:0-2-8,Edge], [16:Edge,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.18	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.54	10-12	>855		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.12	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	13	>999		
								Weight: 272 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
5-6,6-7: 2x6 SP No.2, 7-9: 2x4 SP No.1	2-0-0 oc purlins (2-9-2 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-15
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 9=1671/Mechanical, 16=1631/Mechanical
 Max Horz 16=-108(LC 13)
 Max Uplift 16=-11(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2113/495, 3-4=-1841/482, 4-5=-3577/788, 5-6=-3415/713, 6-7=-2606/599,
 7-9=-2790/576
 BOT CHORD 15-16=-216/1095, 13-15=-542/2902, 12-13=-599/3597, 10-12=-203/1957, 9-10=-397/2401
 WEBS 2-15=-90/903, 3-15=-61/649, 4-15=-1421/336, 4-13=-74/901, 5-13=-627/31,
 6-12=-263/1900, 6-10=-63/653, 7-10=-329/328, 5-12=-1371/558, 2-16=-1854/462

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

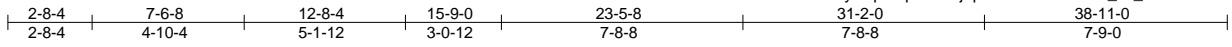
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B05	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810592
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:22 2019 Page 1

ID:PFhEEkZm06?Kz1KM4J4YUBYNvpB-qUDIm4jopC8mvWr4PaFuz_tH_EvN0StKSD_tOvzajtx



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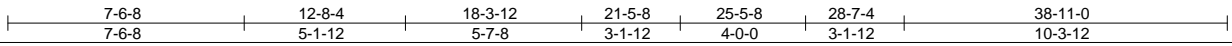
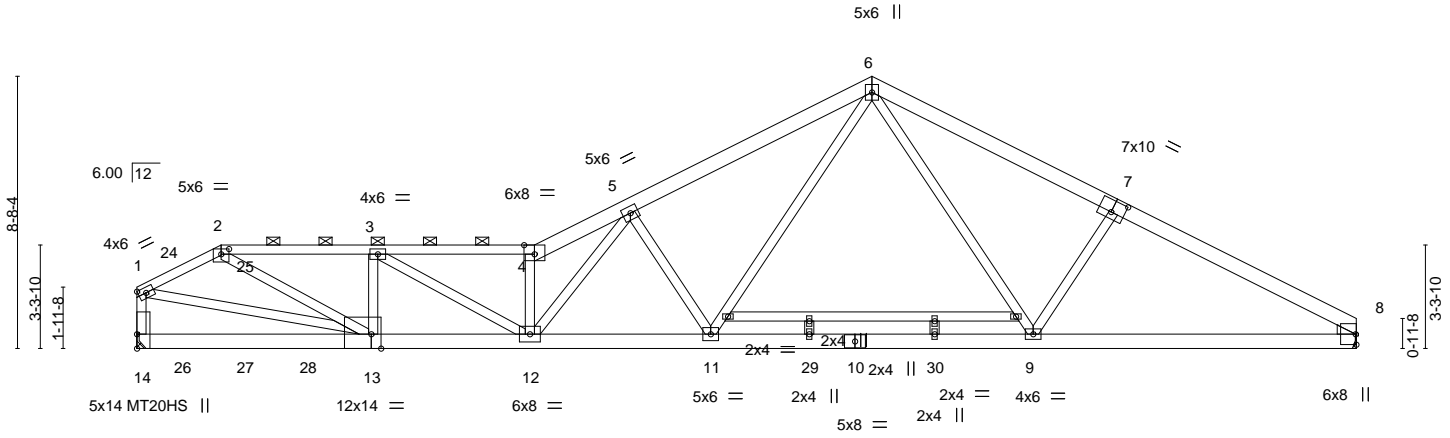


Plate Offsets (X,Y)-- [2:0-3-0,0-2-0], [4:0-4-0,Edge], [7:0-5-0,0-4-8], [8:0-0-1,0-0-2], [8:0-0-2,0-4-15], [13:0-3-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.95	Vert(LL)	-0.28	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.62	9-11	>745	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.67	Horz(CT)	0.09	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.19	11-12	>999		
								Weight: 281 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-2: 2x4 SP No.2, 2-4: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-1-6 max.): 2-4.
BOT CHORD 2x6 SP No.2 *Except* 10-13: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-14: 2x4 SP No.3	
WEDGE Right: 2x4 SP No.3	

REACTIONS. (lb/size) 14=2048/Mechanical, 8=1723/Mechanical
Max Horz 14=-135(LC 6)
Max Uplift 14=-133(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2714/86, 2-3=-4067/0, 3-4=-5148/0, 4-5=-5817/0, 5-6=-3622/0, 6-7=-2771/0, 7-8=-2987/0, 1-14=-1804/94
BOT CHORD 12-13=0/4088, 11-12=0/3940, 9-11=0/2046, 8-9=0/2560
WEBS 2-13=0/1971, 3-13=-982/167, 3-12=-136/1229, 4-12=-2579/0, 5-12=-34/2251, 5-11=-1566/184, 6-11=0/2068, 6-9=0/704, 7-9=-372/224, 1-13=-58/2314

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 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.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=133.
 - 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) 77 lb down and 95 lb up at 3-8-4, and 77 lb down and 86 lb up at 5-8-4 on top chord, and 111 lb down and 66 lb up at 1-8-4, 24 lb down and 27 lb up at 3-8-4, and 24 lb down and 27 lb up at 5-8-4, and 375 lb down at 7-8-4 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).



March 15, 2019

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. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B05	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810592
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:22 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-qUDIm4jopC8mvWr4PaFUz_tH_EvN0StKSD_tOvzajtX

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 14-21=-20

Concentrated Loads (lb)

Vert: 14=-87(B) 24=-0(B) 25=-0(B) 26=-3(B) 27=-3(B) 28=-375(B) 29=-100 30=-100

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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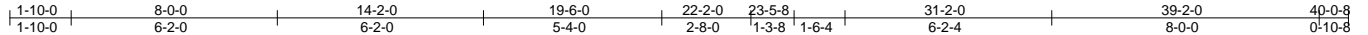


818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B06	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810593
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:24 2019 Page 1
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24-11-12



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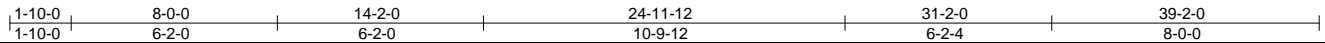
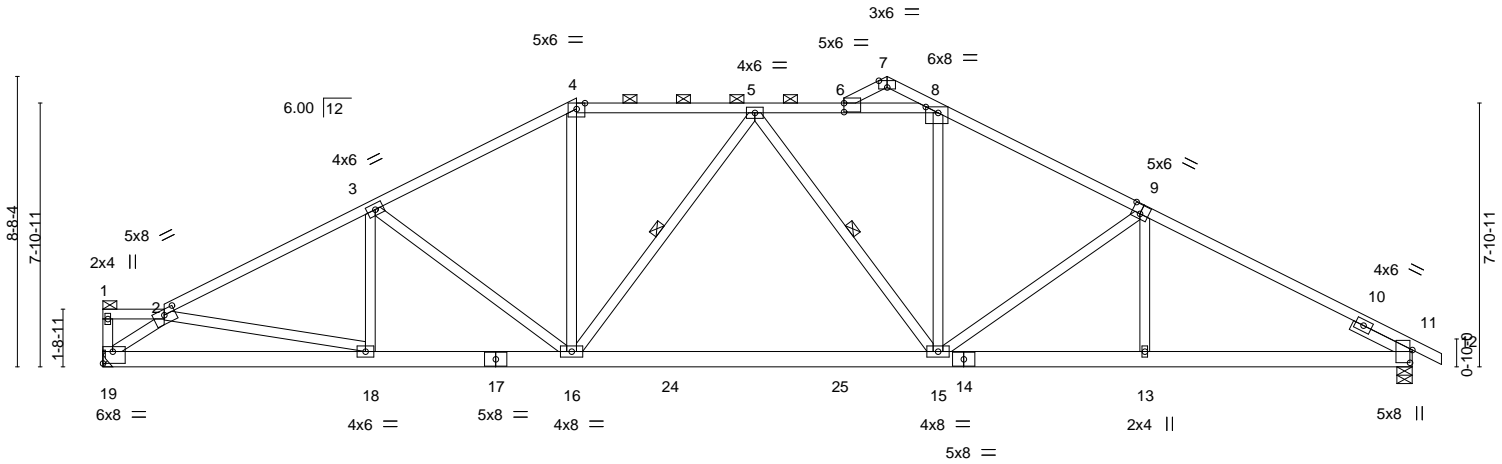


Plate Offsets (X,Y)-- [2:0-4-0,0-1-14], [6:0-0-0,0-3-3], [7:0-3-0,Edge], [8:0-4-7,0-2-2], [9:0-3-0,0-3-4], [11:0-4-9,0-0-13], [19:Edge,0-4-4]

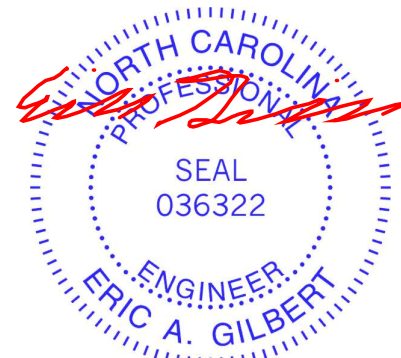
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.20 15-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.40 15-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.08 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10 15-16	>999	240		
								Weight: 259 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-11-15 max.): 1-2, 4-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-16, 5-15
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 11=1614/0-5-8, 19=1560/Mechanical
Max Horz 19=-118(LC 13)
Max Uplift 11=-56(LC 13), 19=-90(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2541/793, 3-4=-2192/757, 4-5=-1882/729, 5-6=-1917/745, 6-8=-1825/734, 8-9=-2222/770, 9-11=-2604/831
BOT CHORD 18-19=-548/1808, 16-18=-554/2196, 15-16=-436/2023, 13-15=-597/2246, 11-13=-595/2247
WEBS 2-18=-7/398, 3-16=-405/239, 4-16=-140/633, 9-15=-468/271, 8-15=-125/623, 5-15=-344/118, 2-19=-2272/833

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 19.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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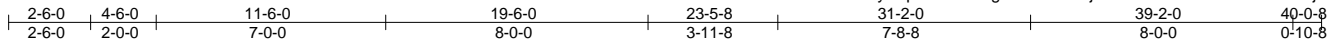
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B07	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810594
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:25 2019 Page 1

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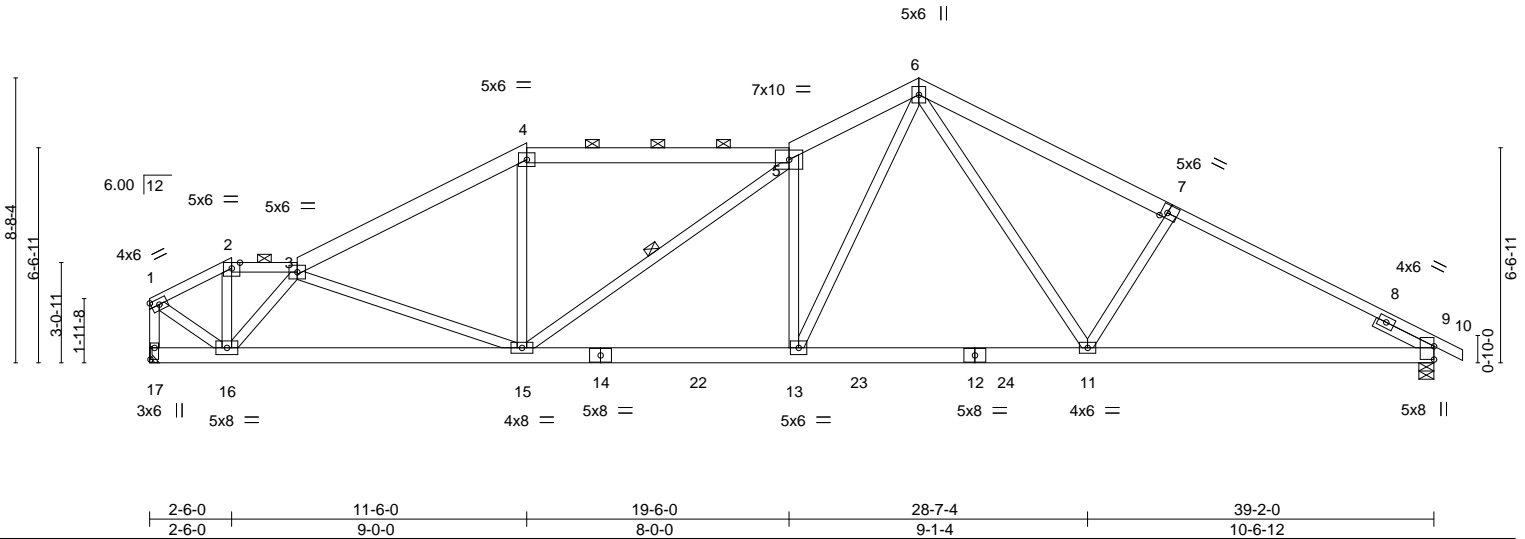


Plate Offsets (X,Y)-- [7:0-2-4,Edge], [17:0-4-4,0-1-8]

LOADING (psf)	SPACING-	2-1-8	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.20	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.37	11-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 1.00	Horz(CT)	0.09	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.12	11-13	>999		
								Weight: 275 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
 1-2,2-3: 2x4 SP No.2, 7-10: 2x4 SP SS
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-10 max.): 2-3, 4-5.
 BOT CHORD Rigid ceiling directly applied or 9-0-9 oc bracing.
 WEBS 1 Row at midpt 5-15

REACTIONS.

(lb/size) 17=1658/Mechanical, 9=1715/0-5-8
 Max Horz 17=-130(LC 13)
 Max Uplift 17=-96(LC 12), 9=-60(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1482/414, 2-3=-1287/390, 3-4=-2560/812, 4-5=-2220/804, 5-6=-3008/1104, 6-7=-2577/931, 7-9=-2782/907, 1-17=-1643/461
 BOT CHORD 15-16=-644/2375, 13-15=-619/2662, 11-13=-374/1903, 9-11=-657/2404
 WEBS 2-16=-132/532, 3-16=-1747/630, 4-15=-50/656, 5-15=-676/165, 5-13=-1374/602, 6-13=-548/1776, 6-11=-209/648, 7-11=-410/351, 1-16=-401/1597

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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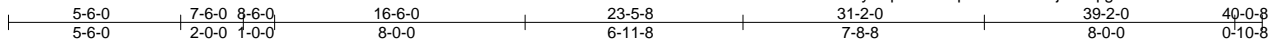
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B08	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810595
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:27 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-BS1eponxekm30Hj2C7qfg1aA7Fd6hh13bVie36zajts



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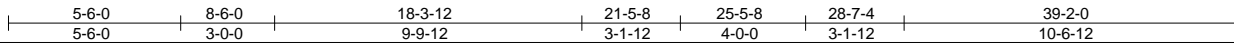
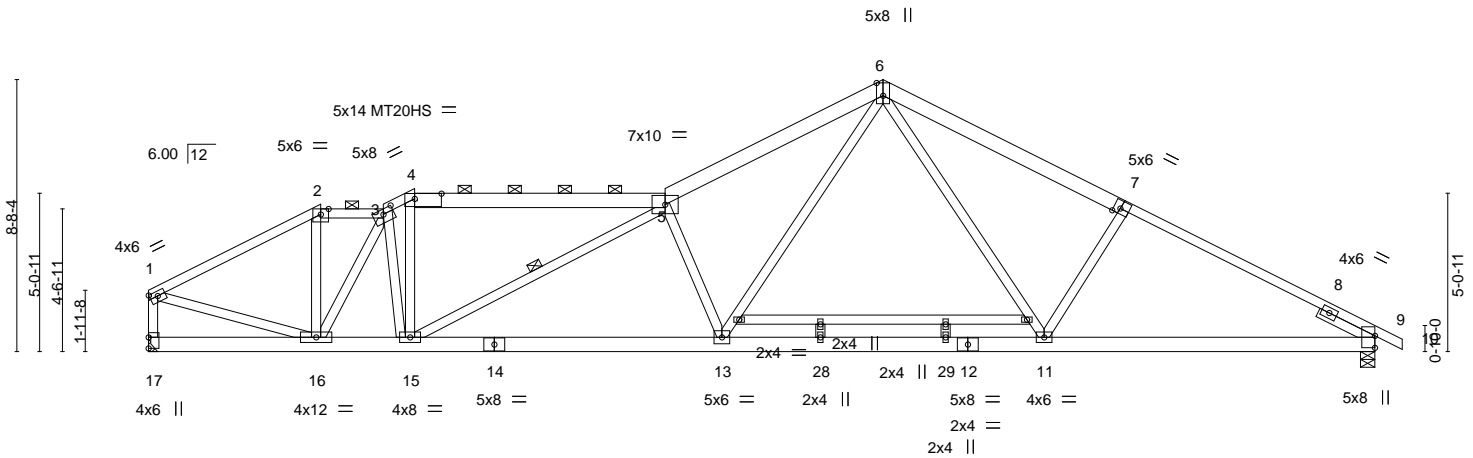


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [3:0-4-0,0-1-14], [4:0-10-4,0-2-0], [6:0-4-14,Edge], [7:0-2-8,Edge]

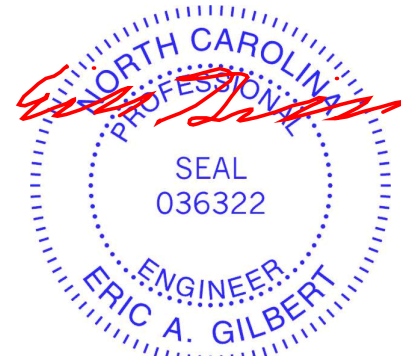
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.18	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.53	11-13	>887	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.10	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	11-13	>999		
								Weight: 286 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5,5-6,6-7: 2x6 SP No.2, 7-10: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-0 max.): 2-3, 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-15
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 17=1641/Mechanical, 9=1733/0-5-8
Max Horz 17=-122(LC 13)
Max Uplift 17=-10(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2071/490, 2-3=-1779/491, 3-4=-2506/618, 4-5=-2342/612, 5-6=-3473/759,
6-7=-2689/615, 7-9=-2880/593, 1-17=-1565/403
BOT CHORD 15-16=-381/2316, 13-15=-549/3526, 11-13=-182/1981, 9-11=-390/2488
WEBS 2-16=-22/563, 3-16=-1189/211, 4-15=-31/660, 5-13=-1408/552, 6-13=-312/1944,
6-11=-77/720, 7-11=-356/340, 5-15=-1367/190, 1-16=-319/1758

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



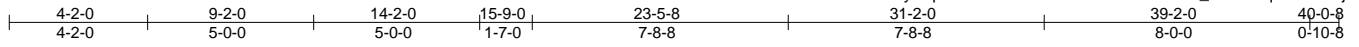
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B09	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810596
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:28 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-fea008nZP2uwdRIeIrMuDE7LCf_VQ94Dq9RbCzZajtr



Scale = 1:69.4

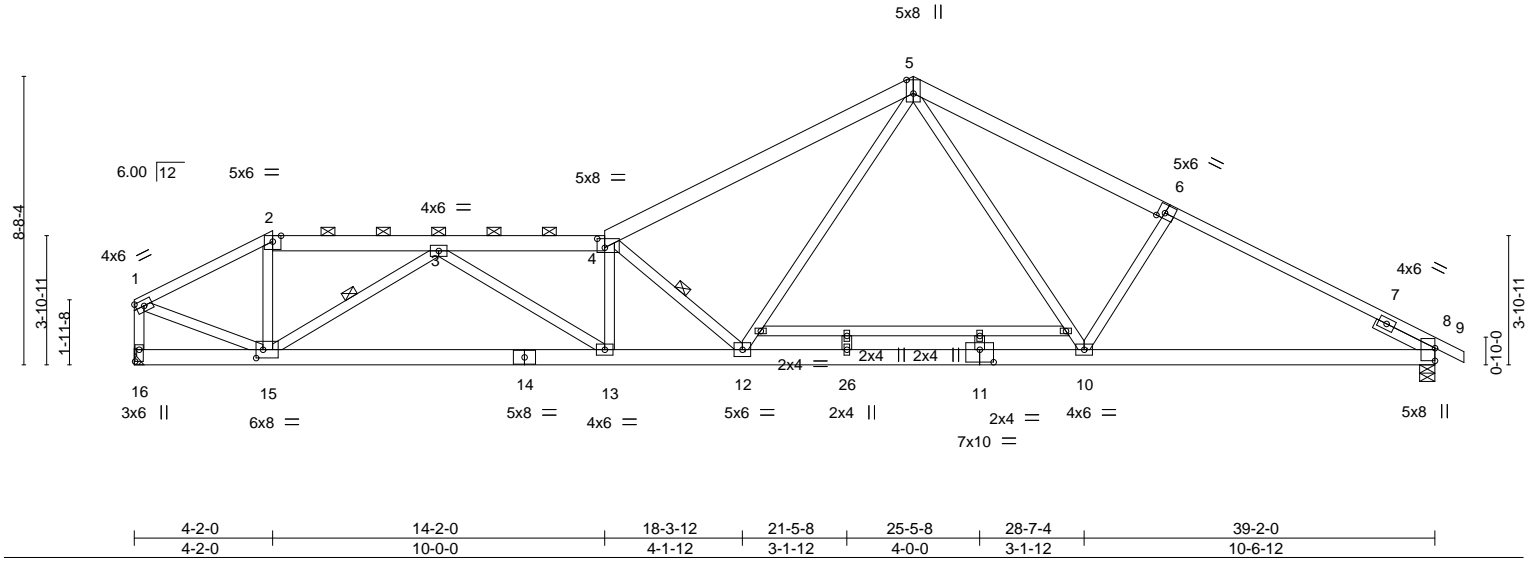


Plate Offsets (X,Y)--	[4:0-2-12,0-3-4], [5:0-4-14,Edge], [6:0-2-8,Edge], [11:0-5-0,0-4-8], [15:0-2-8,0-3-0], [16:0-4-4,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.20	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.53	10-12	>884		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.10	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.17	13	>999		
								Weight: 277 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-2: 2x4 SP No.2, 6-9: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-4-11 max.): 2-4.
BOT CHORD 2x6 SP No.1 *Except* 14-16: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-15, 4-12
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 16=1641/Mechanical, 8=1733/0-5-8
Max Horz 16=-122(LC 13)
Max Uplift 16=-10(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1942/425, 2-3=-1686/420, 3-4=-4427/991, 4-5=-3438/692, 5-6=-2686/617, 6-8=-2877/594, 1-16=-1632/372
BOT CHORD 13-15=-648/3327, 12-13=-818/4397, 10-12=-196/1994, 8-10=-390/2485
WEBS 2-15=-22/593, 3-15=-1978/478, 3-13=-213/1321, 4-13=-687/154, 4-12=-1875/659, 5-12=-220/1819, 5-10=-64/715, 6-10=-354/326, 1-15=-313/1788

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

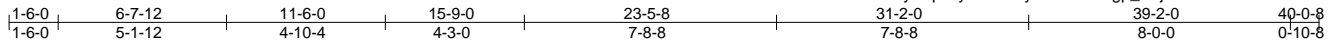
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 1719437	Truss B10	Truss Type ROOF SPECIAL GIRDER	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810597
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:35 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-y?WfUXtYlBmwzVLagp_X?jvWCTJ?ZHwERle3LfzajtK



Scale = 1:70.4

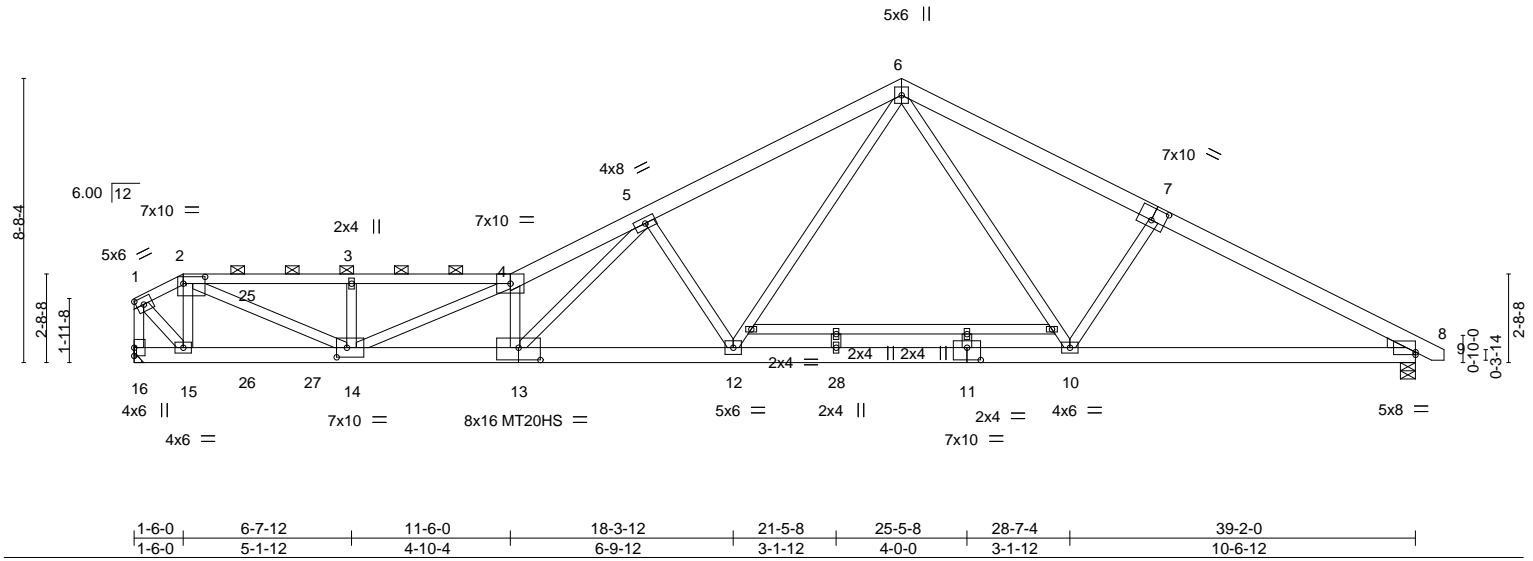


Plate Offsets (X,Y)--	[2:0-8-0,0-2-8], [7:0-5-0,0-4-8], [8:0-0-0,0-0-15], [11:0-5-0,0-4-8], [13:0-8-0,0-4-8], [14:0-3-12,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.33	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.71	12-13	>657	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.94	Horz(CT)	0.10	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.22	12-13	>999		
								Weight: 278 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
1-2: 2x4 SP No.2, 2-4: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-3-13 max.): 2-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=2043/Mechanical, 8=1773/0-5-8
Max Horz 16=-142(LC 6)
Max Uplift 16=-82(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1504/0, 2-3=-4611/0, 3-4=-4611/0, 4-5=-6680/0, 5-6=-3655/0, 6-7=-2851/0, 7-8=-3086/0, 1-16=-2167/47
BOT CHORD 14-15=-32/1271, 13-14=0/6264, 12-13=0/4033, 10-12=0/2077, 8-10=0/2652
WEBS 2-15=-1052/73, 2-14=0/3667, 3-14=-341/131, 4-14=-1835/62, 4-13=-2241/0, 5-13=0/2971, 5-12=-1619/165, 6-12=0/2062, 6-10=0/764, 7-10=-409/222, 1-15=0/1935

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 66 lb up at 1-8-4, and 71 lb down and 68 lb up at 3-9-0, and 71 lb down and 68 lb up at 5-8-4 on top chord, and 38 lb down and 8 lb up at 1-8-4, 19 lb down and 18 lb up at 3-8-4, and 19 lb down and 18 lb up at 5-8-4, and 377 lb down at 7-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B10	Truss Type ROOF SPECIAL GIRDER	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810597
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:35 2019 Page 2
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-y?WfUXtYlBmwzVLagp_X?jvWCTJ?ZHwERle3LfzajtK

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-9=-60, 16-22=-20

Concentrated Loads (lb)

Vert: 2=-0(B) 16=-20(B) 15=-3(B) 11=-100 1=-49(B) 25=-0(B) 26=-3(B) 27=-377(B) 28=-100

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B11	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810598
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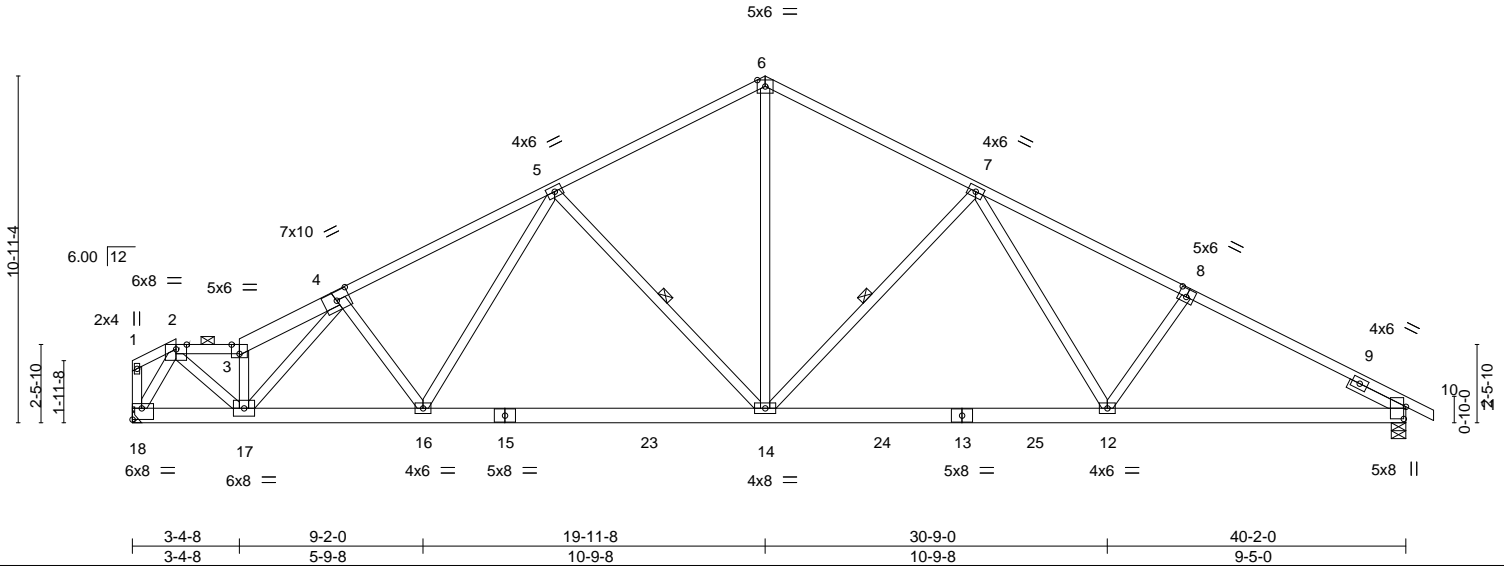
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:37 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUBynvpB-uNdQvCuCHp1eCpUznE0?48?t9H3T1B2Xu27AQXzajti

1-4-8 1-4-8	3-4-8 2-0-0	6-8-2 3-3-10	13-3-13 6-7-11	19-11-8 6-7-11	26-7-3 6-7-11	33-2-13 6-7-11	40-2-0 6-11-3	41-0-8 0-10-8
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Scale = 1:72.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.24	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.44	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.14	12-14	>999		
								Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-4: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-4 max.): 2-3.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14, 7-14
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS.	(lb/size) 10=1654/0-5-8, 18=1600/Mechanical
	Max Horz 18=-241(LC 13)
	Max Uplift 10=-310(LC 13), 18=-286(LC 12)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2289/727, 3-4=-2508/817, 4-5=-2515/879, 5-6=-1834/749, 6-7=-1835/748, 7-8=-2551/904, 8-10=-2727/900
BOT CHORD	17-18=-294/895, 16-17=-635/2279, 14-16=-467/1975, 12-14=-476/1997, 10-12=-674/2365
WEBS	2-17=-599/1990, 3-17=-1298/435, 5-16=-77/447, 5-14=-649/371, 6-14=-425/1260, 7-14=-677/383, 7-12=-103/484, 8-12=-293/268, 2-18=-1676/539

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=310, 18=286.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-743 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
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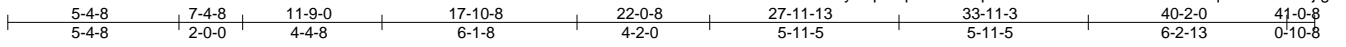
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B12	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810599
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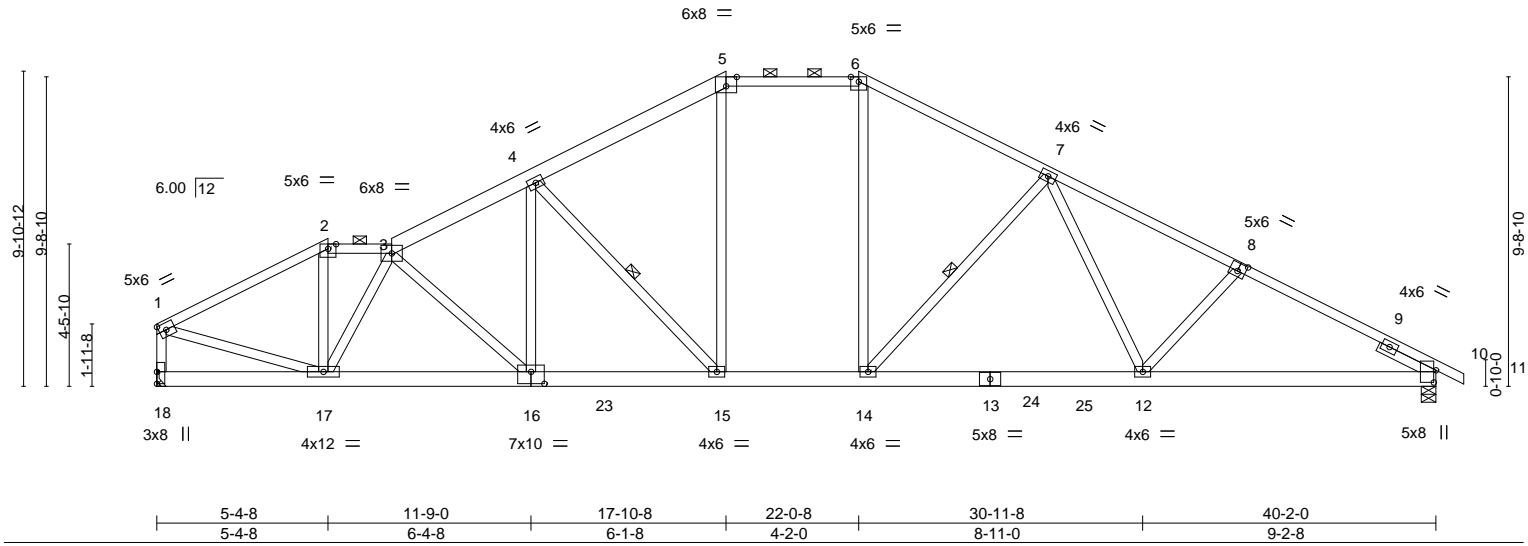
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:39 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-qmlAKuwSpQHMS7eLv2T9Z4DL4k?V7RqMMcGUQzajtj



Scale = 1:72.4



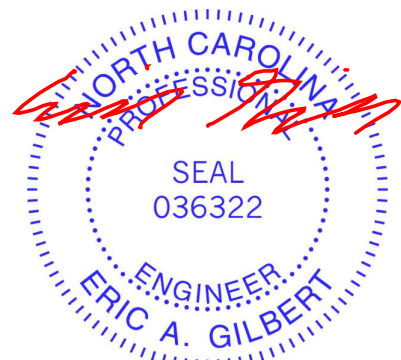
LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.25 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.42 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20 12-14	>999	240	Weight: 282 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-3-9 max.): 2-3, 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-15, 7-14
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 18=1600/Mechanical, 10=1654/0-5-8
Max Horz 18=-219(LC 13)
Max Uplift 18=-270(LC 12), 10=-295(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2014/627, 2-3=-1730/608, 3-4=-2401/829, 4-5=-2018/769, 5-6=-1743/742,
6-7=-2021/773, 7-8=-2547/865, 8-10=-2728/890, 1-18=-1534/503
BOT CHORD 16-17=-589/2287, 15-16=-489/2114, 14-15=-284/1741, 12-14=-500/2096,
10-12=-673/2369
WEBS 2-17=-117/654, 3-17=-1220/389, 4-16=-55/374, 4-15=-687/324, 5-15=-156/568,
6-14=-170/656, 7-14=-624/321, 7-12=-79/405, 1-17=-450/1720

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=270, 10=295.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



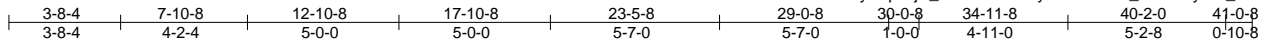
March 15, 2019

Job 1719437	Truss B14	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810601
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:43 2019 Page 1

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Scale = 1:76.1

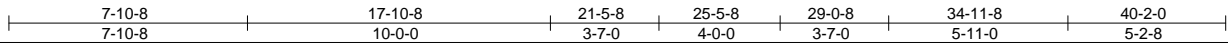
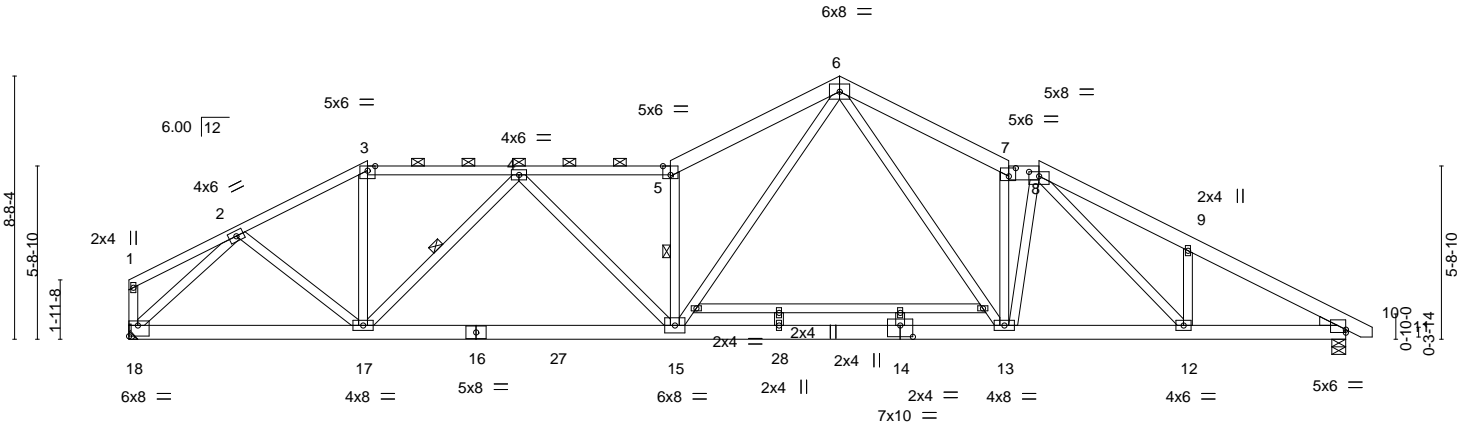


Plate Offsets (X,Y)-- [5:0-3-0,Edge], [7:0-2-12,0-3-4], [8:0-4-0,0-1-12], [10:0-0-0,0-1-3], [14:0-5-0,0-4-8], [18:Edge,0-4-4]

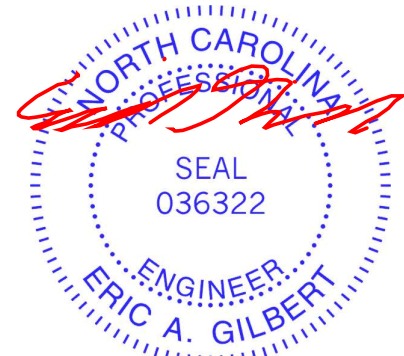
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.19	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.55	13-15	>871		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.18	15	>999		
								Weight: 309 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-10-8 max.): 3-5, 7-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-17, 5-15
WEDGE Right: 2x4 SP No.3	

REACTIONS. (lb/size) 10=1759/0-5-8, 18=1684/Mechanical
Max Horz 18=-196(LC 13)
Max Uplift 10=-163(LC 13), 18=-244(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2256/559, 3-4=-1969/540, 4-5=-3305/682, 5-6=-3712/835, 6-7=-3050/713,
7-8=-2715/567, 8-9=-2863/767, 9-10=-2976/653
BOT CHORD 17-18=-314/1577, 15-17=-440/2812, 13-15=-201/2104, 12-13=-315/2579,
10-12=-483/2560
WEBS 2-17=0/525, 3-17=-89/708, 4-17=-1218/232, 4-15=0/711, 5-15=-1920/542,
6-15=-373/2079, 6-13=-177/1054, 7-13=-1140/363, 8-13=0/647, 8-12=-282/77,
2-18=-2085/515

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=163, 18=244.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B15	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810602
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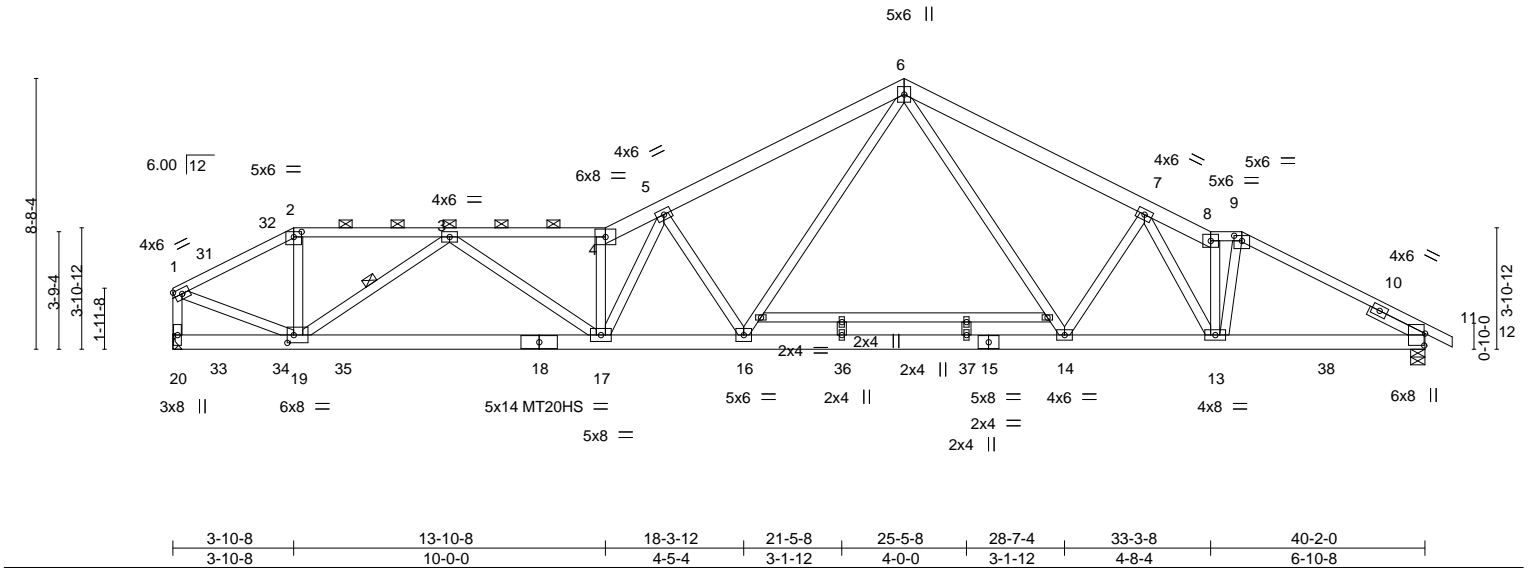
Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:44 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-BjY3Nc_beyvfYuXJhCeescn2c5QiAOIZVeJ1AdzajtB

0-10-0	3-10-8	8-10-8	13-10-8	15-9-0	23-5-8	31-2-0	33-3-8	34-3-8	40-2-0	41-0-8
0-10-0	3-0-8	5-0-0	5-0-0	1-10-8	7-8-8	7-8-8	2-1-8	1-0-0	5-10-8	0-10-8

Scale = 1:73.9



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.94	Vert(LL) -0.24	17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.60	14-16	>802	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.74	Horz(CT) 0.09	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.26	17	>999	240		
							Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-7 max.): 2-4, 8-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-8-11 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-19
21-22,23-24,25-26: 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 20=2121/Mechanical, 11=2157/0-5-8
 Max Horz 20=-196(LC 9)
 Max Uplift 20=-640(LC 8), 11=-268(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2478/617, 2-3=-2203/576, 3-4=-4888/726, 4-5=-5402/787, 5-6=-3910/486,
 6-7=-3296/297, 7-8=-3506/379, 8-9=-3194/363, 9-11=-3320/365, 1-20=-2107/573
 BOT CHORD 17-19=-780/3792, 16-17=-584/4272, 14-16=-130/2284, 13-14=-165/3189,
 11-13=-218/2902
 WEBS 2-19=-49/853, 3-19=-1963/304, 3-17=0/1353, 4-17=-2214/321, 5-17=-377/1678,
 5-16=-1717/577, 6-16=-303/2100, 6-14=-91/1069, 7-14=-686/396, 8-13=-1196/64,
 9-13=-45/1200, 1-19=-487/2318

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 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.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=640, 11=268.
 - 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) 99 lb down and 113 lb up at 3-8-4, and 99 lb down and 104 lb up at 5-8-4 on top chord, and 74 lb down and 59 lb up at 1-8-4, 30 lb down and 39 lb up at 3-8-4, 30 lb down and 39 lb up at 5-8-4, and 377 lb down and 160 lb up at 7-8-4, and 365 lb down and 79 lb up at 39-2-12 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).



March 15, 2019

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. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B15	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810602
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:45 2019 Page 2
ID:PFhEEKzMO6?Kz1KM4J4YUBYNvpB-fw6Rby_DPG1WA25VFv9tPqKCMVmxvrYjkl3bi4zajta

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 8-9=-60, 9-12=-60, 20-27=-20

Concentrated Loads (lb)

Vert: 20=-74(B) 31=-0(B) 32=-0(B) 33=-4(B) 34=-4(B) 35=-377(B) 36=-100 37=-100 38=-365(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B16	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810603
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:46 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-76gqoH?rAa9NnCghpdg6y1tVZv8?eMTszyo8EWzajtZ

1-10-0	10-6-0	19-5-8	29-0-7	39-2-0	40-0-8
1-10-0	8-8-0	8-11-8	9-6-15	10-1-9	0-10-8

Scale = 1:70.9

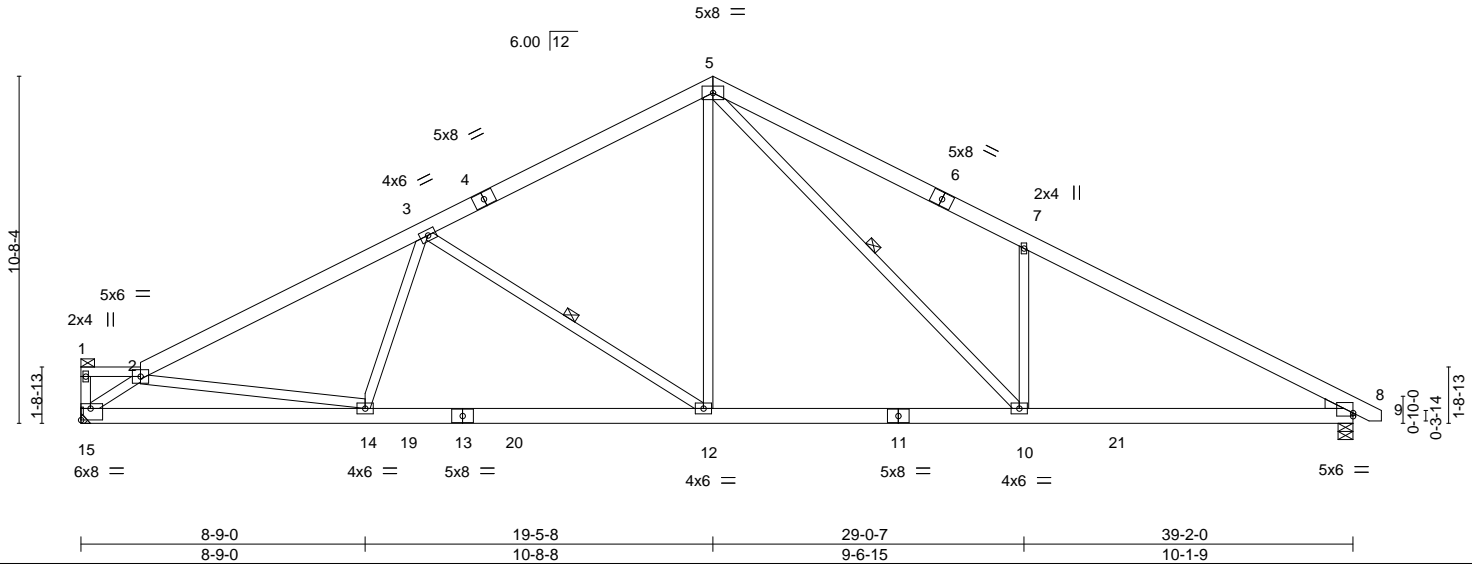


Plate Offsets (X,Y)-- [8:0-0-0,0-1-3], [15:Edge,0-4-4]

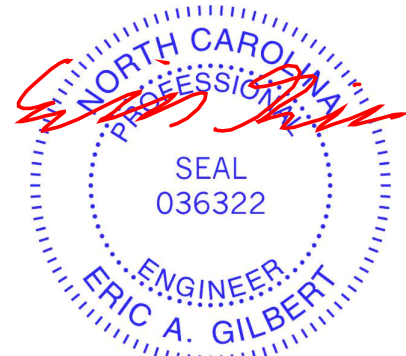
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.17	10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.29	10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.08	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09	10-12	>999	240		
									Weight: 276 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-10: 2x4 SP No.2	WEBS 1 Row at midpt 3-12, 5-10
WEDGE Right: 2x4 SP No.3	

REACTIONS. (lb/size) 8=1602/0-5-8, 15=1560/Mechanical
Max Horz 15=-160(LC 10)
Max Uplift 8=-74(LC 13), 15=-64(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2564/800, 3-5=-1903/729, 5-7=-2711/1131, 7-8=-2718/853
BOT CHORD 14-15=-613/1908, 12-14=-561/2200, 10-12=-231/1611, 8-10=-600/2327
WEBS 2-14=0/404, 3-14=0/352, 3-12=-752/399, 5-12=-103/767, 5-10=-538/1115,
7-10=-615/507, 2-15=-2356/904

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 15.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-743 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

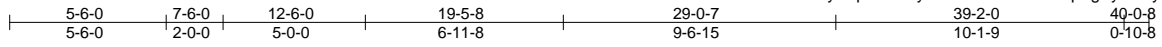
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B18	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810605
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:49 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-YhMyQJ2kSVXxefPGUIEpZgVyM69yrylfw1orrzajtW



Scale = 1:81.0

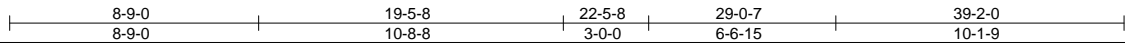
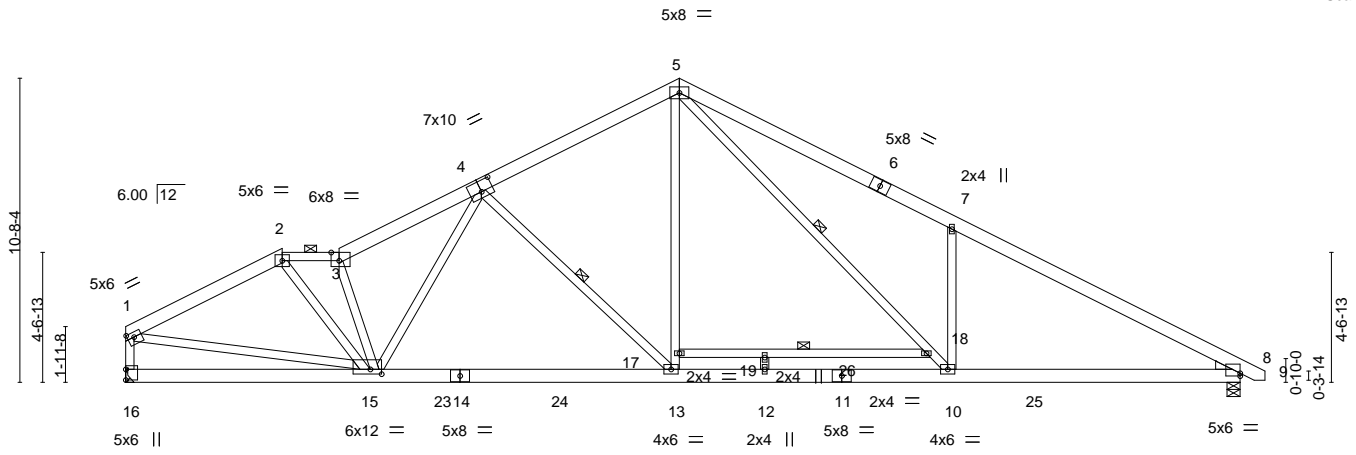


Plate Offsets (X,Y)-- [1:0-2-12,0-2-0], [3:0-3-6,Edge], [4:0-5-0,0-4-8], [8:0-0-0,0-1-3], [15:0-4-12,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.19 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.34 13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.77	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10 10-12	>999	240		
								Weight: 303 lb	FT = 20%

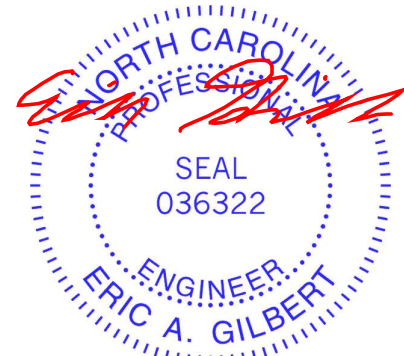
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 2-3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-7-0 max.): 2-3.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-10: 2x4 SP No.2	WEBS 1 Row at midpt 4-13, 5-10, 17-18
WEDGE Right: 2x4 SP No.3	

REACTIONS. (lb/size) 16=1560/Mechanical, 8=1602/0-5-8
 Max Horz 16=-144(LC 13)
 Max Uplift 16=-64(LC 12), 8=-74(LC 13)
 Max Grav 16=1560(LC 1), 8=1610(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2286/732, 2-3=-2541/822, 3-4=-2540/863, 4-5=-1907/732, 5-7=-2738/1130,
 7-8=-2744/850, 1-16=-1474/517
 BOT CHORD 13-15=-474/2047, 12-13=-240/1655, 10-12=-240/1655, 8-10=-599/2350
 WEBS 2-15=-198/940, 3-15=-1251/465, 4-15=-68/439, 4-13=-635/340, 13-17=-121/809,
 5-17=-119/869, 5-18=-543/1106, 10-18=-535/1075, 7-10=-615/510, 1-15=-532/1868

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-5=-60, 5-9=-60, 16-20=-20



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

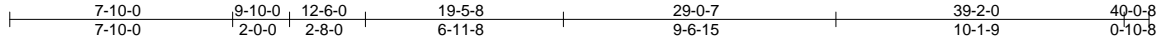
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B19	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810606
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:50 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-OtwKef2MDofGp_T2TI26t1AdWUNa7MSuamMNHZajtV



Scale = 1:81.0

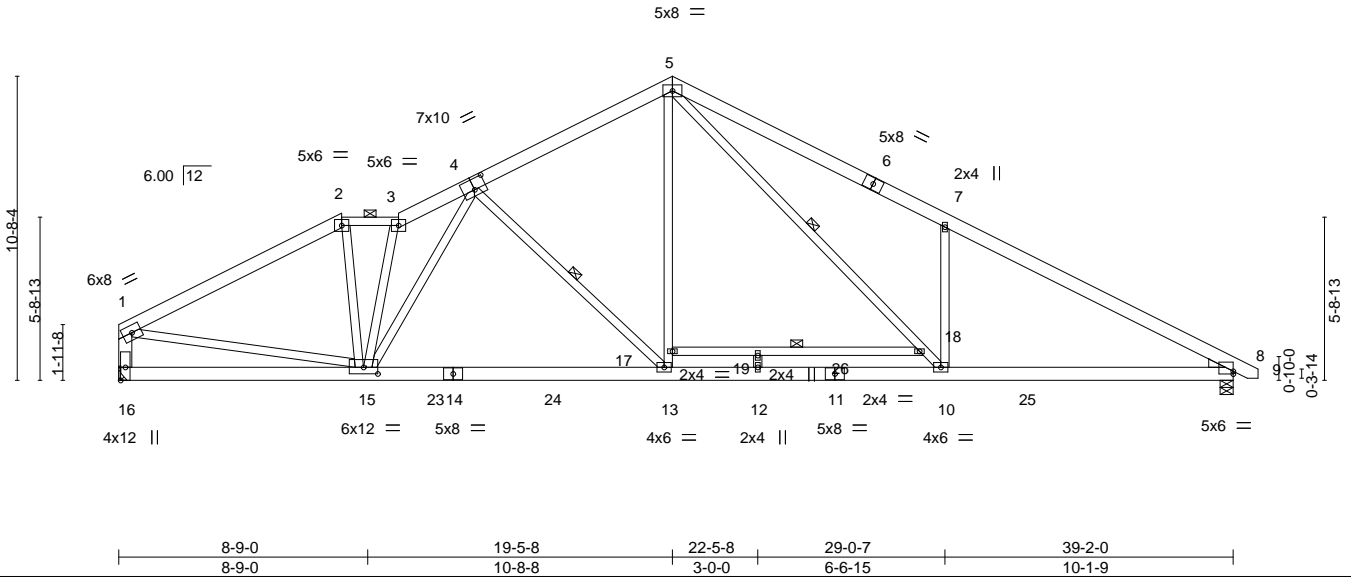


Plate Offsets (X,Y)--	[4:0-5-0,0-4-8], [8:Edge,0-1-3], [15:0-6-0,0-2-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.18 10-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.31 13-15 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.70	Horz(CT) 0.06 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.09 10-12 >999 240		
				Weight: 306 lb	FT = 20%

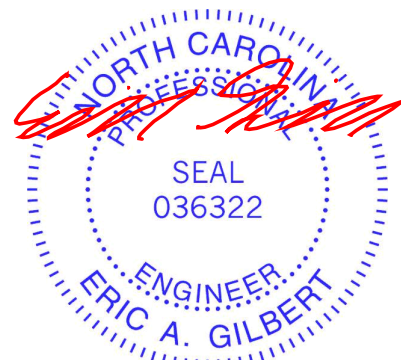
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 2-3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-14 max.): 2-3.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-10,17-18: 2x4 SP No.2, 1-16: 2x6 SP No.2	WEBS 1 Row at midpt 4-13, 5-10, 17-18
WEDGE Right: 2x4 SP No.3	

REACTIONS. (lb/size) 16=1557/Mechanical, 8=1599/0-5-8
 Max Horz 16=-145(LC 13)
 Max Uplift 16=-64(LC 12), 8=-74(LC 13)
 Max Grav 16=1557(LC 1), 8=1607(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2217/690, 2-3=-1999/696, 3-4=-2479/869, 4-5=-1899/728, 5-7=-2731/1126,
 7-8=-2737/847, 1-16=-1466/519
 BOT CHORD 15-16=-109/335, 13-15=-466/2029, 12-13=-237/1648, 10-12=-237/1648, 8-10=-596/2344
 WEBS 2-15=-54/627, 3-15=-1062/339, 4-15=-85/424, 4-13=-630/333, 13-17=-116/804,
 5-17=-114/865, 5-18=-543/1108, 10-18=-534/1075, 7-10=-615/510, 1-15=-385/1689

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 8.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-5=-60, 5-9=-60, 16-20=-20



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B20	Truss Type ROOF SPECIAL GIRDER	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810607
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:52 2019 Page 1

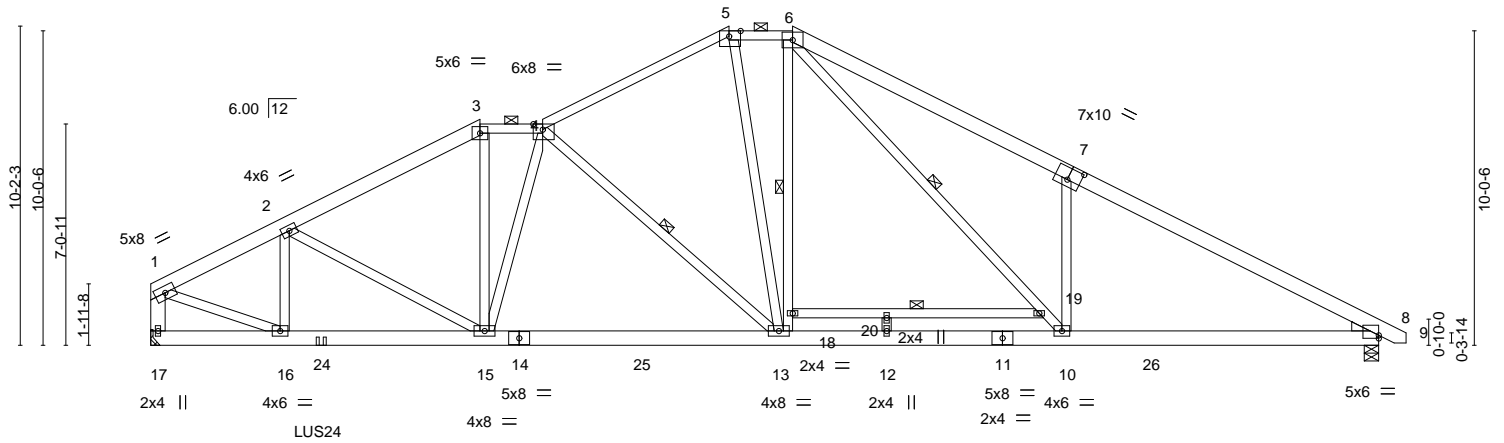
ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-yG153L4clPwVWV78r9tnWBI7RQKBu24_ILuFSSAZajtT

4-3-4	10-6-0	12-6-0	18-5-5	20-5-11	29-2-8	39-2-0	40-0-8
4-3-4	6-2-12	2-0-0	5-11-5	2-0-5	8-8-13	9-11-8	0-10-8

6x8 =

6x8 =

Scale = 1:73.5



4-3-4	10-6-0	20-5-11	23-5-11	29-2-8	39-2-0
4-3-4	6-2-12	9-11-11	3-0-0	5-8-13	9-11-8

Plate Offsets (X,Y)-- [4:0-3-10,Edge], [5:0-4-6,Edge], [7:0-5-0,0-4-8], [8:Edge,0-1-3]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.12	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.24	13-15	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.50	Horz(CT)	0.07	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07	10	>999		
								Weight: 311 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-4,4-5,5-6: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
1-17: 2x6 SP No.2

WEDGE
Right: 2x4 SP No.3

REACTIONS. (lb/size) 17=1846/Mechanical, 8=1644/0-5-8
Max Horz 17=-139(LC 9)
Max Uplift 17=-118(LC 8), 8=-78(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2244/175, 2-3=-2299/153, 3-4=-2000/166, 4-5=-1844/145, 5-6=-1683/152,
6-7=-2737/301, 7-8=-2754/138, 1-17=-1831/145
BOT CHORD 15-16=-187/1965, 13-15=-77/2131, 12-13=0/1679, 10-12=0/1679, 8-10=-18/2346
WEBS 3-15=-8/695, 4-15=-501/101, 4-13=-756/163, 5-13=-44/612, 13-18=-121/298,
6-18=-111/304, 6-19=-230/1008, 10-19=-214/985, 7-10=-575/274, 2-15=-70/303,
2-16=-512/144, 1-16=-133/2034

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 17=118.
- Load case(s) 2, 3, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 7-8-4 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Dogwood/	E12810607
1719437	B20	ROOF SPECIAL GIRDER	2	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:52 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-yG153L4clPwWV78r9tnWBI7RQKBu24_ILuFSSAazjtT

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 6-9=-60, 17-21=-20
Concentrated Loads (lb)
Vert: 24=-333(B)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 4-5=-50, 5-6=-50, 6-9=-50, 14-17=-20, 14-25=-50, 10-25=-20, 10-26=-50, 21-26=-20
Concentrated Loads (lb)
Vert: 24=-320(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 4-5=-20, 5-6=-20, 6-9=-20, 17-21=-40
Concentrated Loads (lb)
Vert: 24=-240(B)
- 21) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 4-5=-50, 5-6=-50, 6-9=-20, 14-17=-20, 14-25=-50, 10-25=-20, 10-26=-50, 21-26=-20
Concentrated Loads (lb)
Vert: 24=-320(B)
- 22) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 4-5=-20, 5-6=-50, 6-9=-50, 14-17=-20, 14-25=-50, 10-25=-20, 10-26=-50, 21-26=-20
Concentrated Loads (lb)
Vert: 24=-320(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B21	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810608
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:54 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-ue9rT05tH1AEIQIEHlp_GjCpn7qeW_b1oCkZW2zajR

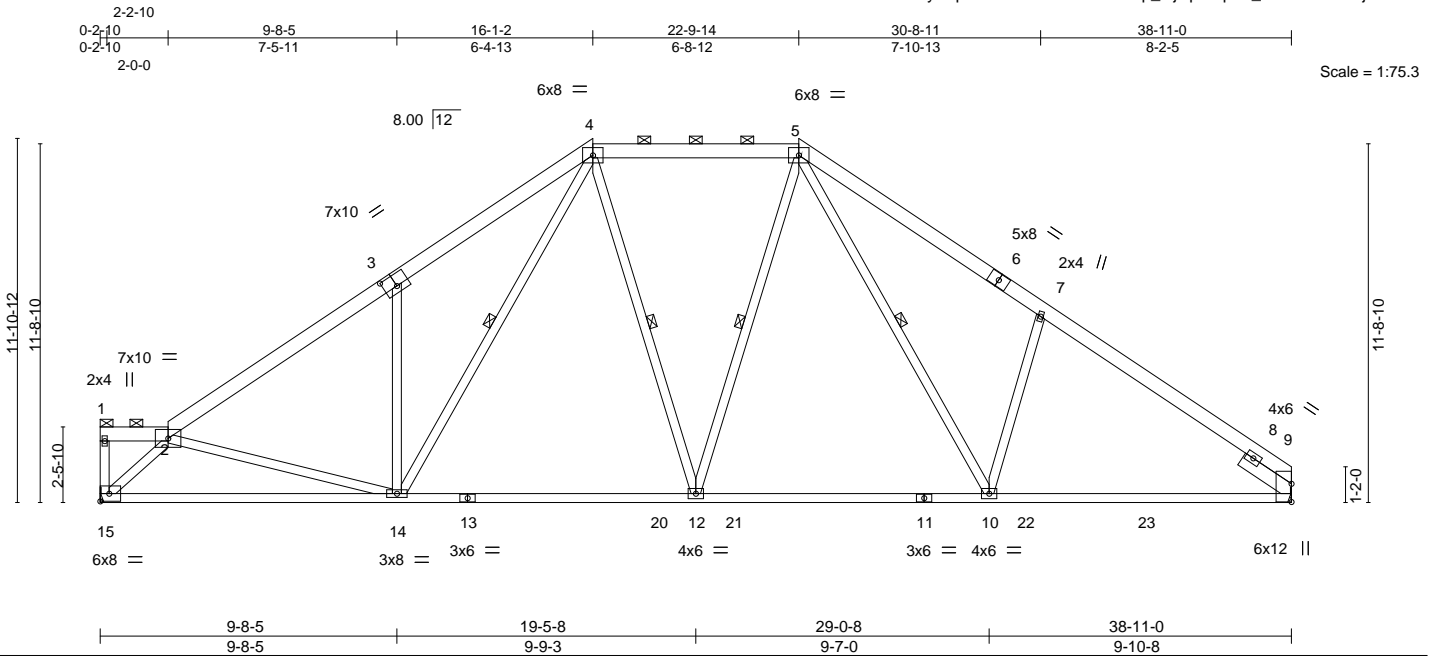


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.31	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.47	12-14	>993		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.11	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	10-12	>999		
								Weight: 278 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-11-9 max.): 1-2, 4-5.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-14, 4-12, 5-12, 5-10
4-14,5-10: 2x4 SP No.2	
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS.	(lb/size) 15=1551/Mechanical, 9=1551/Mechanical
	Max Horz 15=-239(LC 8)
	Max Uplift 15=-40(LC 12), 9=-39(LC 13)
	Max Grav 15=1565(LC 2), 9=1678(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2145/520, 3-4=-2173/753, 4-5=-1463/536, 5-7=-2193/702, 7-9=-2279/547
BOT CHORD	14-15=-347/1640, 12-14=-103/1446, 10-12=-109/1418, 9-10=-314/1768
WEBS	2-14=0/284, 3-14=-498/353, 4-14=-293/777, 4-12=-63/374, 5-12=-67/296, 5-10=-236/765, 7-10=-426/337, 2-15=-2049/624

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

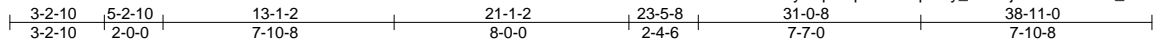
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 1719437	Truss B22	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810609
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:56 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-q1Hcui77peQy_kRcOjsSM8H41xVz_nKKGWDgbxajtP



Scale = 1:78.5

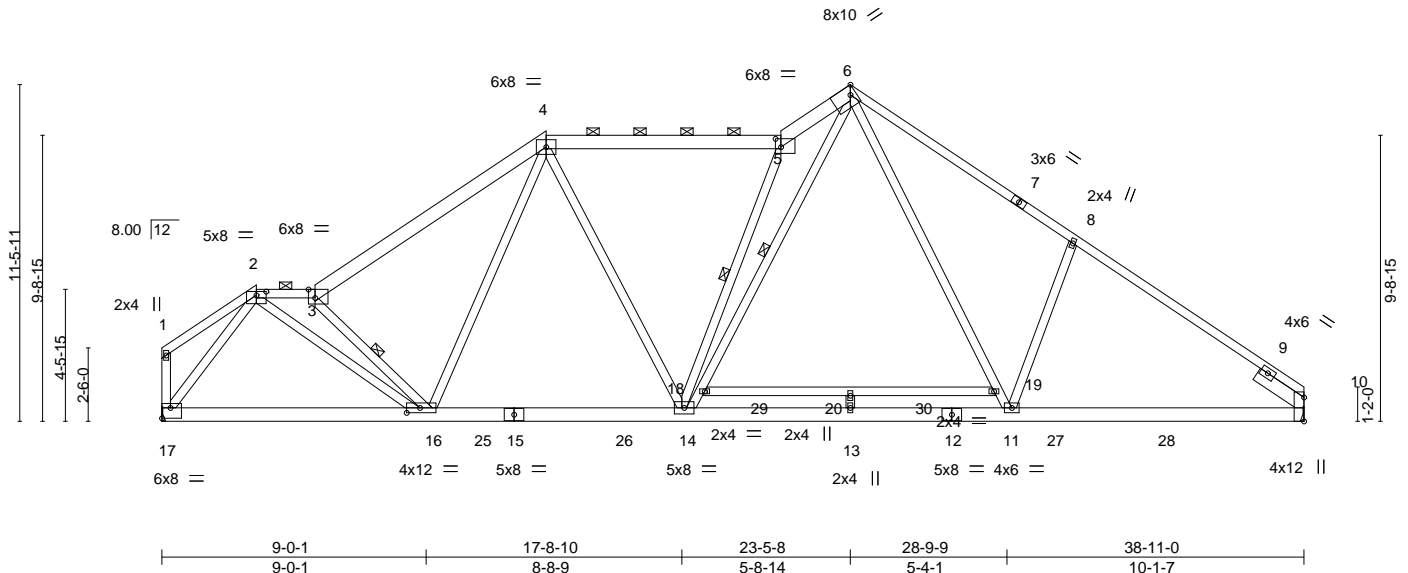


Plate Offsets (X,Y)-- [2:0-4-0,0-1-9], [3:0-2-11,Edge], [5:0-2-4,0-3-6], [6:0-2-5,Edge], [16:0-5-8,0-2-0], [17:Edge,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.32	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.53	13	>881		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.92	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.12	14	>999		
								Weight: 313 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
3-4,4-5,5-6: 2x6 SP No.2, 7-10: 2x4 SP No.1	2-0-0 oc purlins (3-3-7 max.): 2-3, 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-16, 5-14, 6-14
6-14,18-19: 2x4 SP No.2	
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 17=1551/Mechanical, 10=1551/Mechanical
 Max Horz 17=-274(LC 10)
 Max Uplift 17=-83(LC 12), 10=-37(LC 13)
 Max Grav 17=1551(LC 1), 10=1661(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2849/819, 3-4=-2008/579, 4-5=-1683/552, 5-6=-2770/980, 6-8=-2145/678,
 8-10=-2240/552
 BOT CHORD 16-17=-216/1194, 14-16=-207/1570, 13-14=-110/1318, 11-13=-110/1318,
 10-11=-323/1746
 WEBS 2-16=-562/2178, 3-16=-1789/653, 4-16=-37/332, 4-14=-21/428, 5-14=-1822/705,
 6-19=-186/730, 11-19=-198/736, 8-11=-421/318, 2-17=-1695/453, 14-18=-659/2010,
 6-18=-646/2011

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 15, 2019

Continued on page 2

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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B22	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810609
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:56 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-q1Hcui77peQy_kRcOjsSM8H41xVz_nKKGWDgbxzajtP

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 6-10=-60, 17-21=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

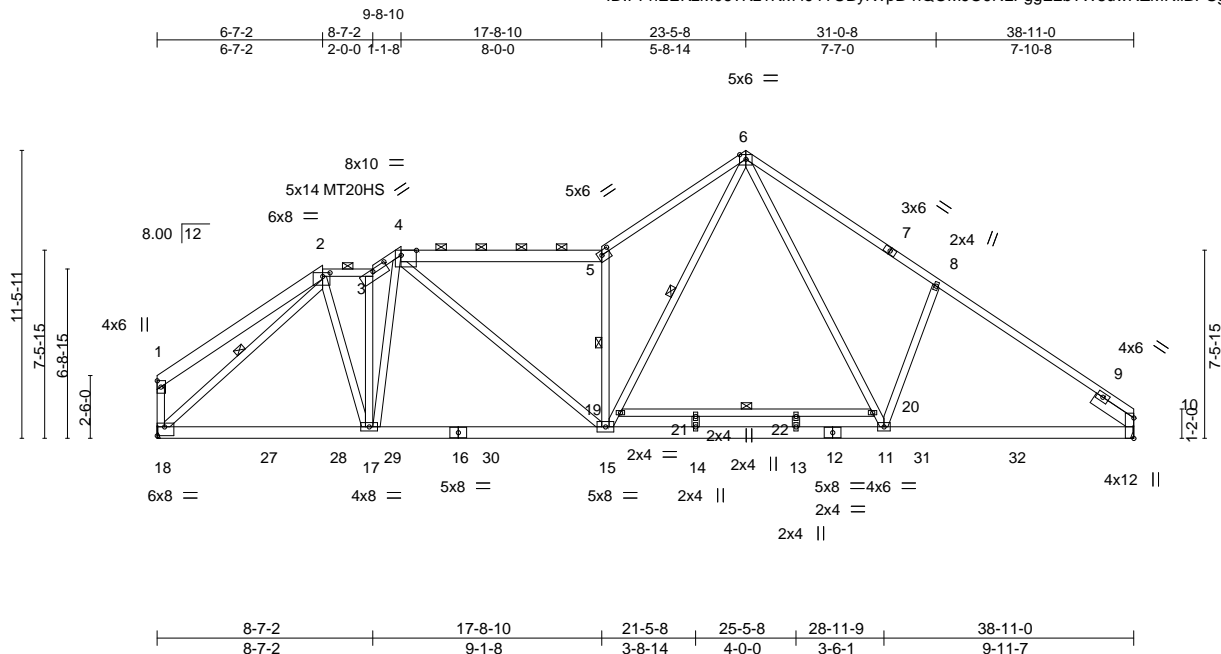


818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B23	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810610
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:58 2019 Page 1
ID:PFhEEkzMO6?Kz1KM4J4YUByNvpB-nQOMJO9NLFggE2b?W8uwRZMRIBPSgQdjqinfzajtN



Scale = 1:91.8

Plate Offsets (X,Y)--	[2:0-3-8,0-1-12], [3:0-7-0,0-1-0], [4:0-7-5,Edge], [5:0-4-0,0-2-0], [18:Edge,0-4-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.16	14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.37	13-14	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.95	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.12	14	>999		
								Weight: 308 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-2,4-5: 2x6 SP No.2, 6-7,7-10: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-3-14 max.): 2-3, 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 19-20: 2x4 SP No.2	WEBS 1 Row at midpt 5-15, 6-15, 2-18, 19-20
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size)	10=1551/Mechanical, 18=1551/Mechanical
Max Horz	18=-232(LC 8)
Max Uplift	10=-36(LC 13), 18=-83(LC 12)
Max Grav	10=1558(LC 20), 18=1551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-273/169, 2-3=-1598/488, 3-4=-1785/536, 4-5=-2125/643, 5-6=-2612/874, 6-8=-1979/676, 8-10=-2106/546, 1-18=-307/176
BOT CHORD 17-18=-218/1400, 15-17=-263/1616, 14-15=-123/1295, 13-14=-123/1295, 11-13=-123/1295, 10-11=-318/1651
WEBS 2-17=-114/979, 3-17=-709/172, 4-15=-148/704, 5-15=-1798/693, 15-19=-528/1733, 6-19=-526/1742, 6-20=-195/680, 11-20=-197/670, 8-11=-431/323, 2-18=-1695/337

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 18.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 15, 2019

Job 1719437	Truss B23	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810610
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:58 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-nQOMJO9NLFggE2b?W8uwRZMRlIBPSgQdjinqfpzajtN

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 6-10=-60, 18-23=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



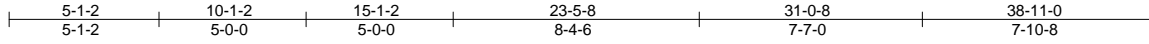
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B24	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810611
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:45:59 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-FcykXk9?6ZoWrBAB3sP9znvbK8XUB72nyUSKCGzajIM



Scale = 1:78.3

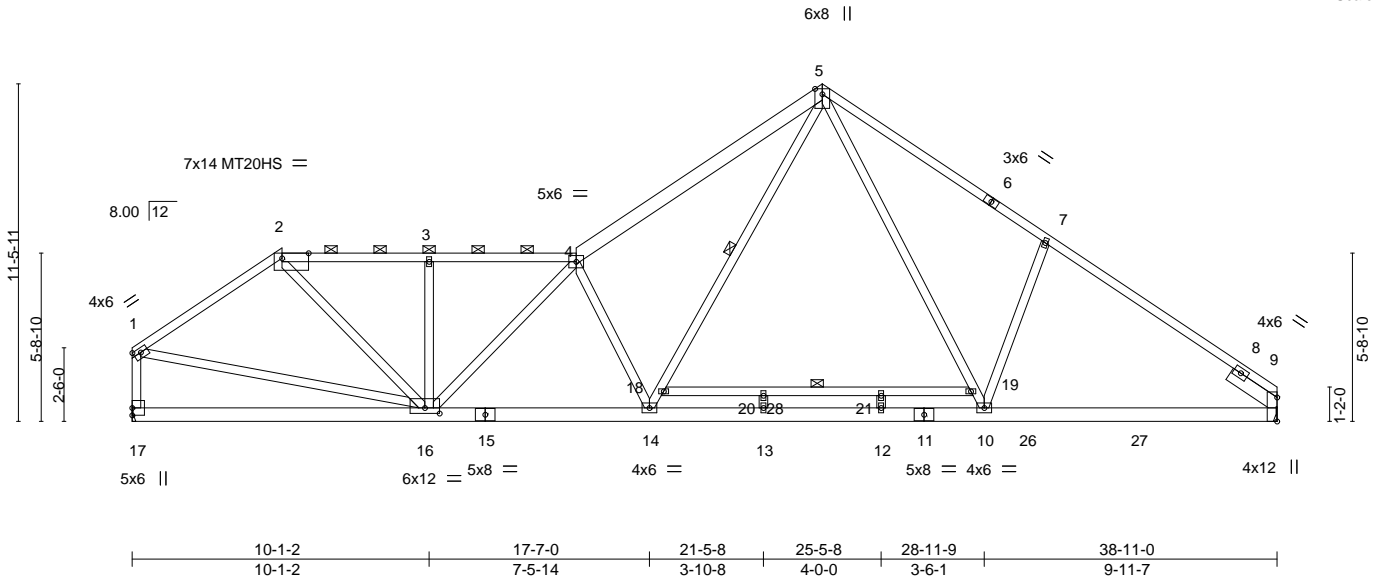


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-10-13,Edge], [16:0-6-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.32	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.55	12-13	>839	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.93	Horz(CT)	0.09	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.12	14	>999		
								Weight: 287 lb	FT = 20%

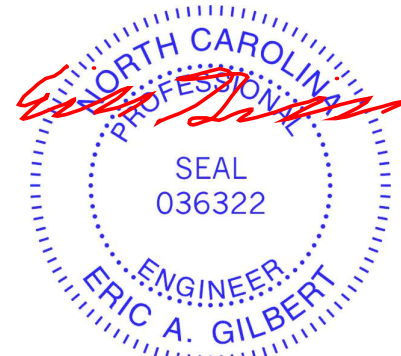
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x6 SP No.2, 6-9: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-2 max.): 2-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-14,18-19: 2x4 SP No.2	WEBS 1 Row at midpt 5-14, 18-19
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 17=1551/Mechanical, 9=1551/Mechanical
 Max Horz 17=-235(LC 8)
 Max Uplift 17=-83(LC 12), 9=-36(LC 13)
 Max Grav 17=1551(LC 1), 9=1592(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1887/525, 2-3=-2156/603, 3-4=-2165/607, 4-5=-2669/801, 5-7=-2047/667,
 7-9=-2137/540, 1-17=-1450/426
 BOT CHORD 16-17=-191/288, 14-16=-562/2689, 13-14=-158/1428, 12-13=-158/1428, 10-12=-158/1428,
 9-10=-313/1663
 WEBS 2-16=-163/961, 3-16=-331/162, 4-16=-819/211, 4-14=-1408/547, 14-18=-427/1619,
 5-18=-438/1683, 5-19=-183/763, 10-19=-171/700, 7-10=-419/316, 1-16=-351/1449

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 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, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B24	Truss Type Roof Special	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810611
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:00 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-joW6k4AdttwNTLI0dZwOW_Sm4YtjwalwB8BukizajtL

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 4-5=-60, 5-9=-60, 17-22=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



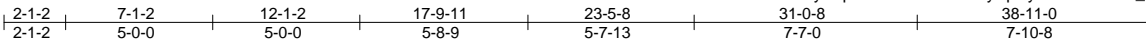
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B25	Truss Type Roof Special Girder	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810612
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:03 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-7NCFM5CW9olyKpUyU58d4l3mv_70Imt5QYL1zajtI



Scale = 1:78.3

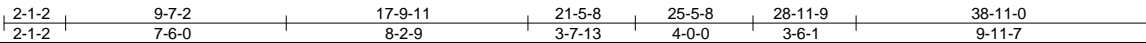
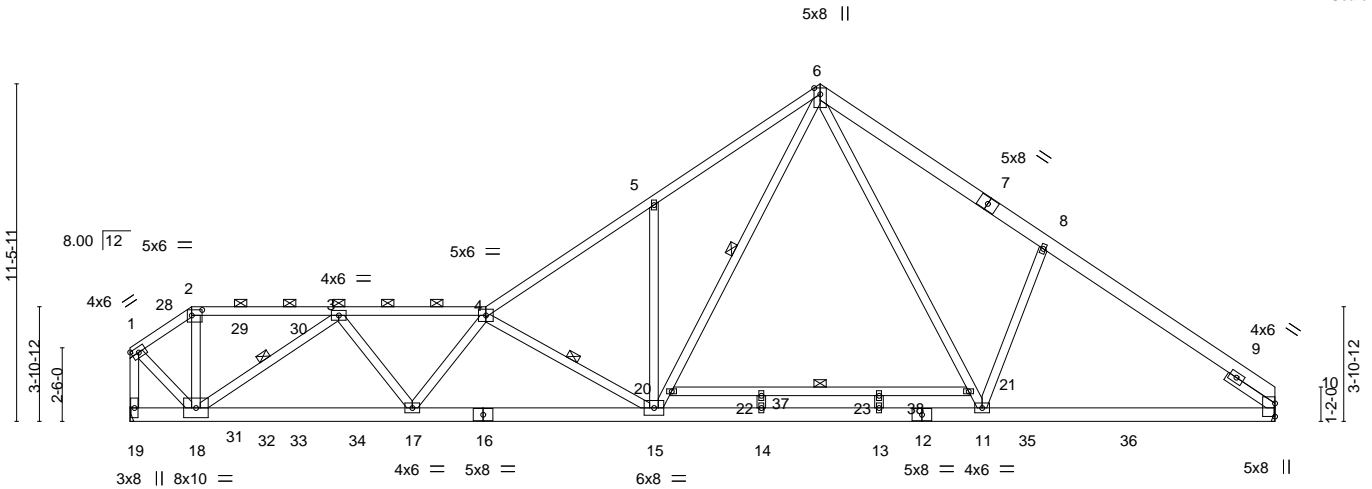


Plate Offsets (X,Y)-- [2:0-4-4,0-2-4]

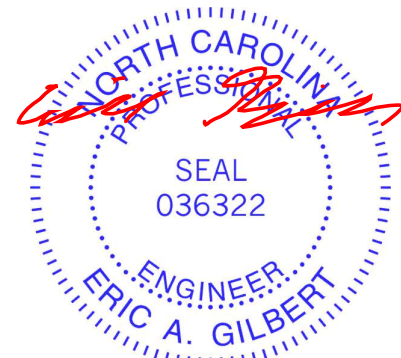
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.33 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.57 13-14	>813	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.63	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.19 15	>999	240		
								Weight: 290 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7,7-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-7-9 max.): 2-4.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-2-9 oc bracing.
WEBS 2x4 SP No.2 *Except* 14-22,13-23: 2x4 SP No.3	WEBS 1 Row at midpt 3-18, 4-15, 6-15, 20-21
SLIDER Right 2x4 SP No.2 1-11-12	

REACTIONS. (lb/size) 19=1845/Mechanical, 10=1620/Mechanical
 Max Horz 19=-235(LC 4)
 Max Uplift 19=-515(LC 8), 10=-97(LC 9)
 Max Grav 19=1860(LC 34), 10=1702(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1383/398, 2-3=-1147/351, 3-4=-3748/662, 4-5=-2868/328, 5-6=-2890/483,
 6-8=-2279/294, 8-10=-2366/188, 1-19=-1970/554
 BOT CHORD 17-18=-682/3054, 15-17=-676/4234, 14-15=-48/1481, 13-14=-48/1481, 11-13=-48/1481,
 10-11=-82/1850
 WEBS 2-18=0/551, 3-18=-2328/371, 3-17=-19/1269, 4-17=-998/223, 4-15=-2240/516,
 5-15=-420/212, 15-20=-398/2037, 6-20=-391/2056, 6-21=-127/848, 11-21=-126/826,
 8-11=-418/253, 1-18=-446/1630

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 19=515.
 - Load case(s) 2, 3, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 117 lb up at 1-8-4, and 85 lb down and 107 lb up at 3-8-4, and 85 lb down and 107 lb up at 5-8-4 on top chord, and 27 lb down and 38 lb up at 1-8-4, 30 lb down and 39 lb up at 3-8-4, and 30 lb down and 39 lb up at 5-8-4, and 361 lb down and 141 lb up at 7-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	H&H/Dogwood/	E12810612
1719437	B25	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:03 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-7NCFM5CW9olyKpUylhU58d4I3mv_70iMt5QYL1zajtI

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-10=-60, 19-24=-20
Concentrated Loads (lb)
Vert: 28=-0(B) 29=-0(B) 30=-0(B) 31=-4(B) 32=-4(B) 33=-4(B) 34=-352(B)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-50, 4-6=-50, 6-10=-50, 19-35=-20, 35-36=-50, 24-36=-20, 37-38=-30
Concentrated Loads (lb)
Vert: 28=-0(B) 29=-0(B) 30=-0(B) 31=-3(B) 32=-3(B) 33=-3(B) 34=-340(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-10=-20, 19-24=-40, 37-38=-40
Concentrated Loads (lb)
Vert: 28=-2(B) 29=-2(B) 30=-2(B) 31=-5(B) 32=-5(B) 33=-5(B) 34=-269(B)
- 21) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-50, 4-6=-50, 6-10=-20, 19-35=-20, 35-36=-50, 24-36=-20, 37-38=-30
Concentrated Loads (lb)
Vert: 28=-0(B) 29=-0(B) 30=-0(B) 31=-3(B) 32=-3(B) 33=-3(B) 34=-340(B)
- 22) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-10=-50, 19-35=-20, 35-36=-50, 24-36=-20, 37-38=-30
Concentrated Loads (lb)
Vert: 28=-28(B) 29=-28(B) 30=-28(B) 31=-3(B) 32=-3(B) 33=-3(B) 34=-340(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss B26	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810613
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Builders FirstSource (Albermarle), Albermarle, NC - 28001, 8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:05 2019 Page 1

ID:PFhEEkZM06?Kz1KM4J4YUByNvpB-4mK?nEmhPYgZ6dLQ6WZD29d7ZaibuifKpvePvzajtG

0-10-0 3-10-8 8-10-8 13-10-8 15-9-0 23-8-0 33-5-8 34-0-8 40-2-0 41-0-8
 0-10-0 3-0-8 5-0-0 5-0-0 1-10-8 7-11-0 9-9-8 0-7-0 6-1-8 0-10-8

Scale = 1:77.8

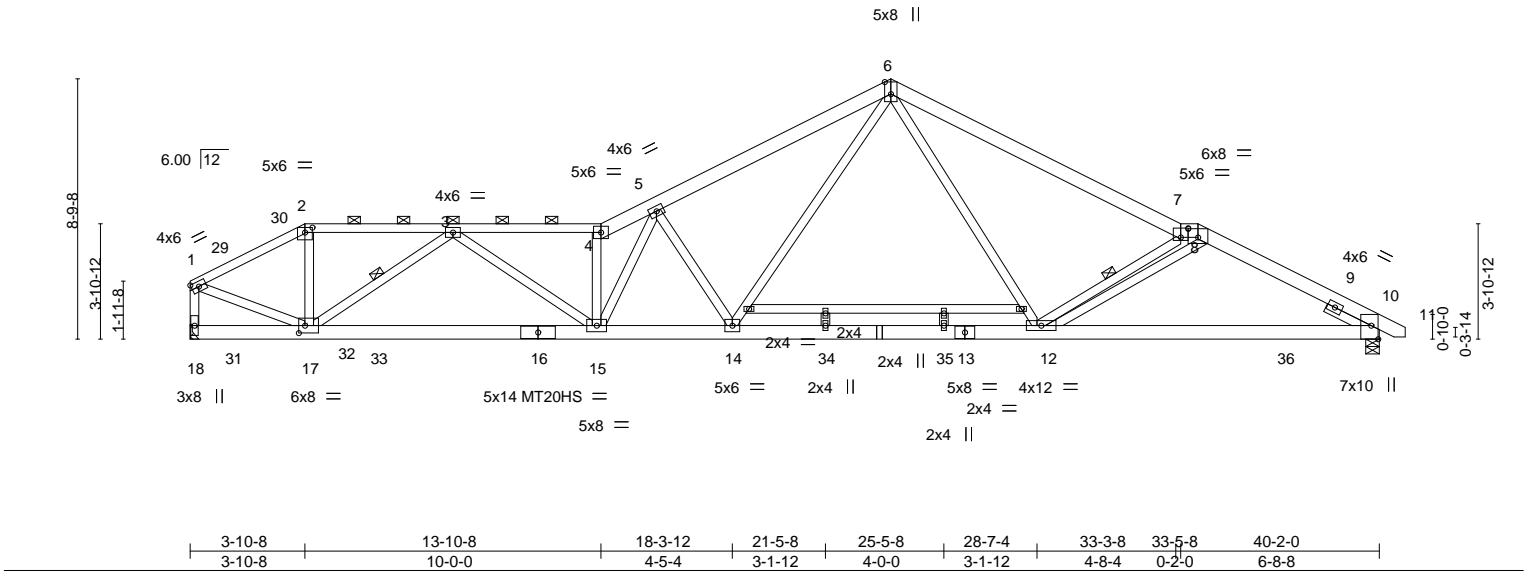


Plate Offsets (X,Y)--	[2:0-3-0,0-2-0], [6:0-4-14,Edge], [7:0-3-0,0-3-12], [8:0-4-0,0-3-8], [10:0-5-8,Edge], [10:0-0-13,0-1-10], [17:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.95	Vert(LL) -0.24	15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.59	12-14	>803	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.72	Horz(CT) 0.10	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.26	15	>999	240		
							Weight: 298 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-13 max.): 2-4, 7-8.
1-2: 2x4 SP No.2, 2-4: 2x4 SP No.1, 7-8,8-11: 2x6 SP No.2	
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-8-11 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-17, 7-12
19-20,21-22,23-24,8-12: 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 1-7-13	

REACTIONS. (lb/size) 18=2109/Mechanical, 10=2153/0-5-8
 Max Horz 18=-171(LC 25)
 Max Uplift 18=-641(LC 8), 10=-264(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2463/611, 2-3=-2190/570, 3-4=-4842/725, 4-5=-5360/786, 5-6=-3864/481,
 6-7=-3049/240, 7-8=-3966/460, 8-10=-3331/336, 1-18=-2095/572
 BOT CHORD 15-17=-779/3762, 14-15=-583/4223, 12-14=-131/2228, 10-12=-208/2928
 WEBS 2-17=-46/847, 3-17=-1942/308, 3-15=0/1333, 4-15=-2214/320, 5-15=-383/1686,
 5-14=-1688/582, 6-14=-289/2100, 6-12=-2/819, 7-12=-1657/492, 1-17=-494/2304,
 8-12=-141/1253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=641, 10=264.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 99 lb down and 113 lb up at 3-8-4, and 99 lb down and 104 lb up at 5-8-4 on top chord, and 74 lb down and 59 lb up at 1-8-4, 30 lb down and 39 lb up at 3-8-4, 30 lb down and 39 lb up at 5-8-4, and 377 lb down and 160 lb up at 7-8-4, and 365 lb down and 79 lb up at 39-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss B26	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810613
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:05 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-4mK?nnEmhPYgZ6dLQ6WZD29d7ZaibuifKPvePvzajtG

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-7=-60, 7-8=-60, 8-11=-60, 18-25=-20

Concentrated Loads (lb)

Vert: 18=-74(B) 29=-0(B) 30=-0(B) 31=-4(B) 32=-4(B) 33=-377(B) 34=-100 35=-100 36=-365(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C01	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810616
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:13 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-rl01TWKnpsZXLEtuofRYkU6eoN2TeyqAfr4hSzejt8

0-10-8 0-10-8	7-1-15 7-1-15	12-10-14 5-9-0	18-6-2 5-7-4	24-3-1 5-9-0	31-5-0 7-1-15	32-3-8 0-10-8
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Scale = 1:54.3

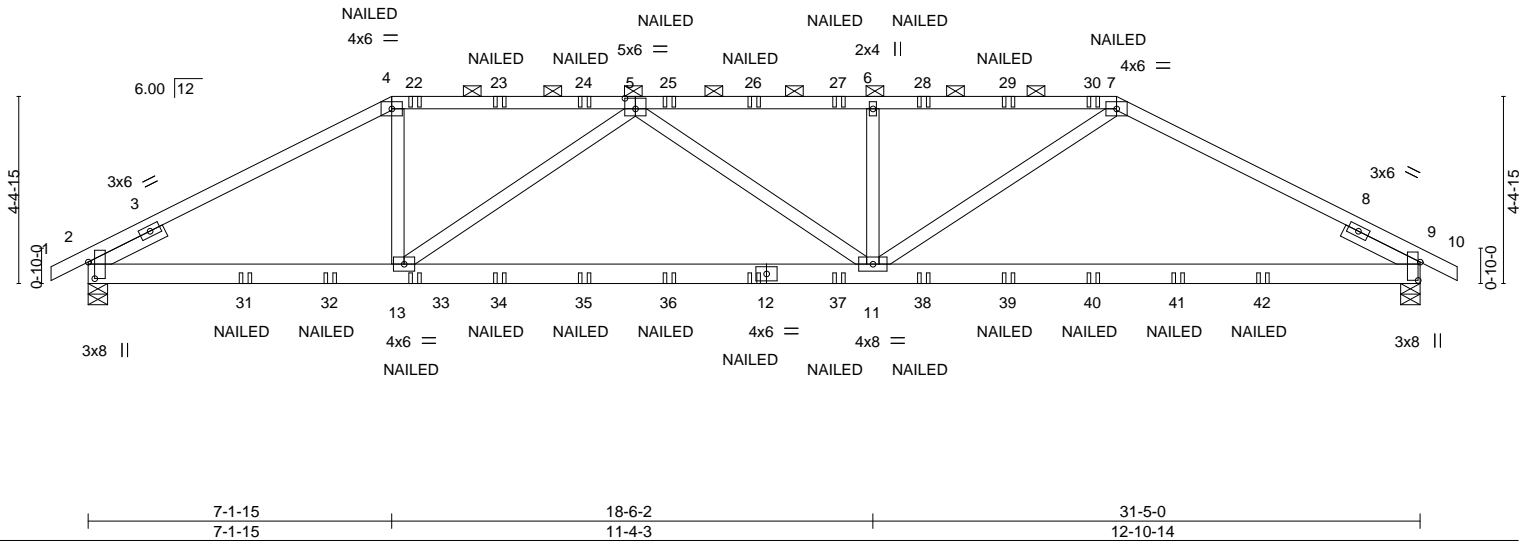


Plate Offsets (X,Y)--	[2:0-4-11,0-1-13], [5:0-3-0,0-3-0], [9:0-5-3,0-0-9]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	0.21 11-20	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.28 11-20	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.19	Horz(CT)	-0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 344 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-7.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 2=1806/0-5-8, 9=1806/0-5-8
 Max Horz 2=77(LC 8)
 Max Uplift 2=907(LC 8), 9=908(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2865/1593, 4-5=-2517/1462, 5-6=-3471/2087, 6-7=-3471/2087, 7-9=-2634/1578
 BOT CHORD 2-13=-1385/2484, 11-13=-2009/3316, 9-11=-1325/2353
 WEBS 4-13=-489/911, 5-13=-1062/816, 5-11=-55/322, 6-11=-457/445, 7-11=-845/1415

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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) except (jt=lb) 2=907, 9=908.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-7=-60, 7-10=-60, 14-18=-20



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C01	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810616
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:13 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-rlo1TWKnpsZXXLEtuofRYkU6eoN2TeyqAfr4hSzajt8

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-21(B) 22=-33(B) 23=-33(B) 24=-33(B) 25=-33(B) 26=-33(B) 27=-33(B) 28=-33(B) 29=-33(B) 30=-33(B) 31=-138(B) 32=-115(B) 33=-21(B) 34=-21(B)
35=-21(B) 36=-21(B) 37=-21(B) 38=-21(B) 39=-21(B) 40=-21(B) 41=-115(B) 42=-138(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C02	Truss Type Hip	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810617
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Builders FirstSource (Albermarle), Albermarle, NC - 28001, 8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:15 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-nhwntCM2LUpFmfOG?Diwd9ZSib3NxUH7ezKAmKzajt6

0-10-8 0-10-8	4-10-6 4-10-6	10-5-15 5-7-9	15-8-8 5-2-9	20-11-1 5-2-9	26-6-10 5-7-9	31-5-0 4-10-6	32-3-8 0-10-8
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Scale = 1:55.1

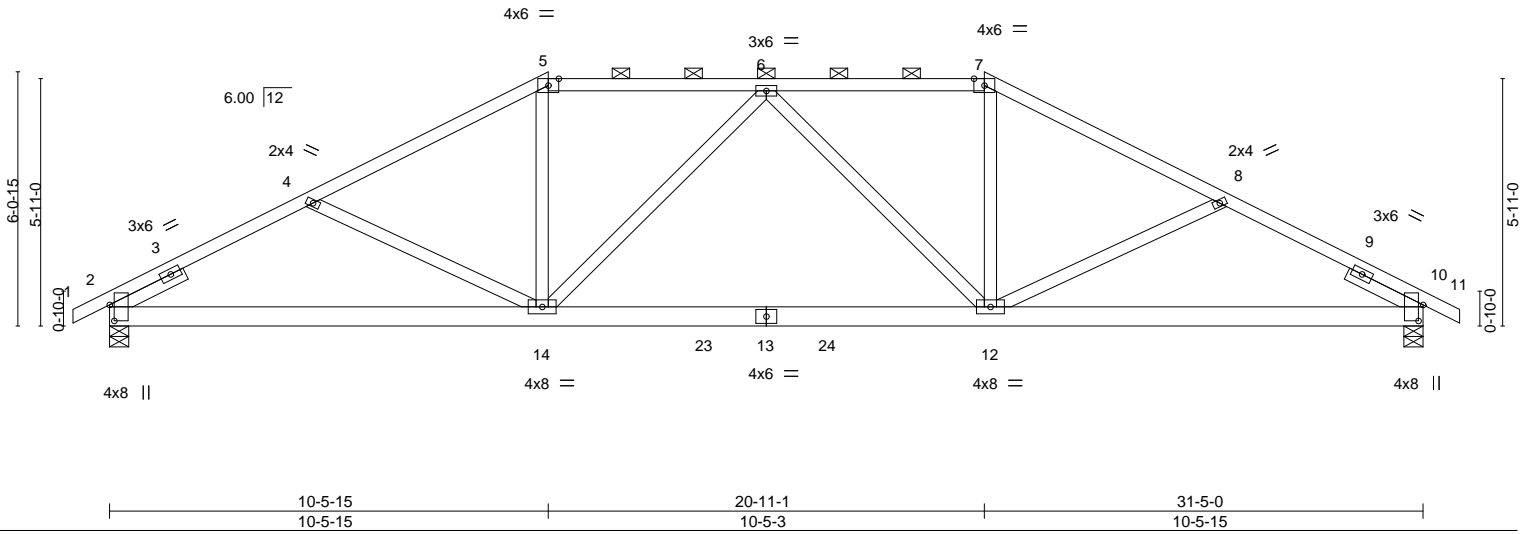


Plate Offsets (X,Y)--	[2:0-4-9,0-1-5], [10:0-4-9,0-1-5]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(LL) -0.18 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.32 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 12-14 >999 240	Weight: 188 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-5-2 max.): 5-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 2=1309/0-5-8, 10=1309/0-5-8
 Max Horz 2=108(LC 16)
 Max Uplift 2=-201(LC 12), 10=-201(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2079/699, 4-5=-1862/585, 5-6=-1602/580, 6-7=-1602/580, 7-8=-1862/585, 8-10=-2079/699
 BOT CHORD 2-14=-520/1806, 12-14=-395/1770, 10-12=-522/1806
 WEBS 5-14=-55/504, 6-14=-350/178, 6-12=-350/178, 7-12=-55/504

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=201, 10=201.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Job 1719437	Truss C03	Truss Type Hip	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810618
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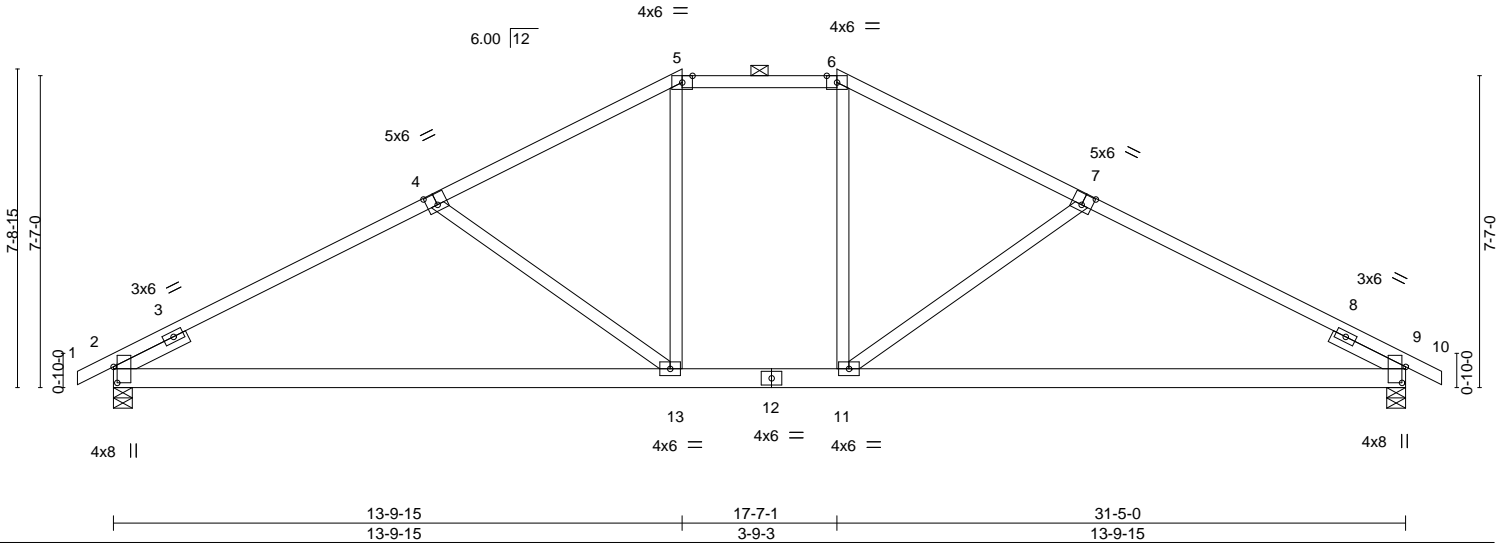
Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:18 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-BGcwWEOwPBqd67rhLFdFnBy3p3z8rKaKxYrNfzajt3

0-10-8 0-10-8	7-10-9 7-10-9	13-9-15 5-11-6	17-7-1 3-9-3	23-6-7 5-11-6	31-5-0 7-10-9	32-3-8 0-10-8
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Scale = 1:56.0



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.21 11-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.42 11-20	>893	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.17 13-16	>999	240	Weight: 176 lb	FT = 20%

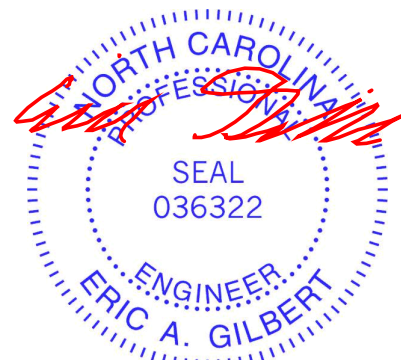
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-11-0 max.); 5-6.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=1309/0-5-8, 9=1309/0-5-8
Max Horz 2=140(LC 16)
Max Uplift 2=-233(LC 12), 9=-233(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1895/697, 4-5=-1624/582, 5-6=-1372/572, 6-7=-1624/582, 7-9=-1895/697
BOT CHORD 2-13=-476/1695, 11-13=-218/1372, 9-11=-478/1695
WEBS 4-13=-436/321, 5-13=-88/442, 6-11=-88/442, 7-11=-436/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=233, 9=233.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



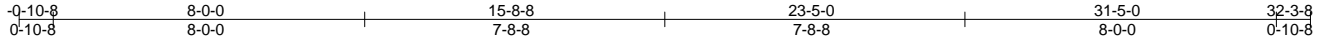
March 15, 2019

Job 1719437	Truss C04	Truss Type COMMON	Qty 11	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810619
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:21 2019 Page 1

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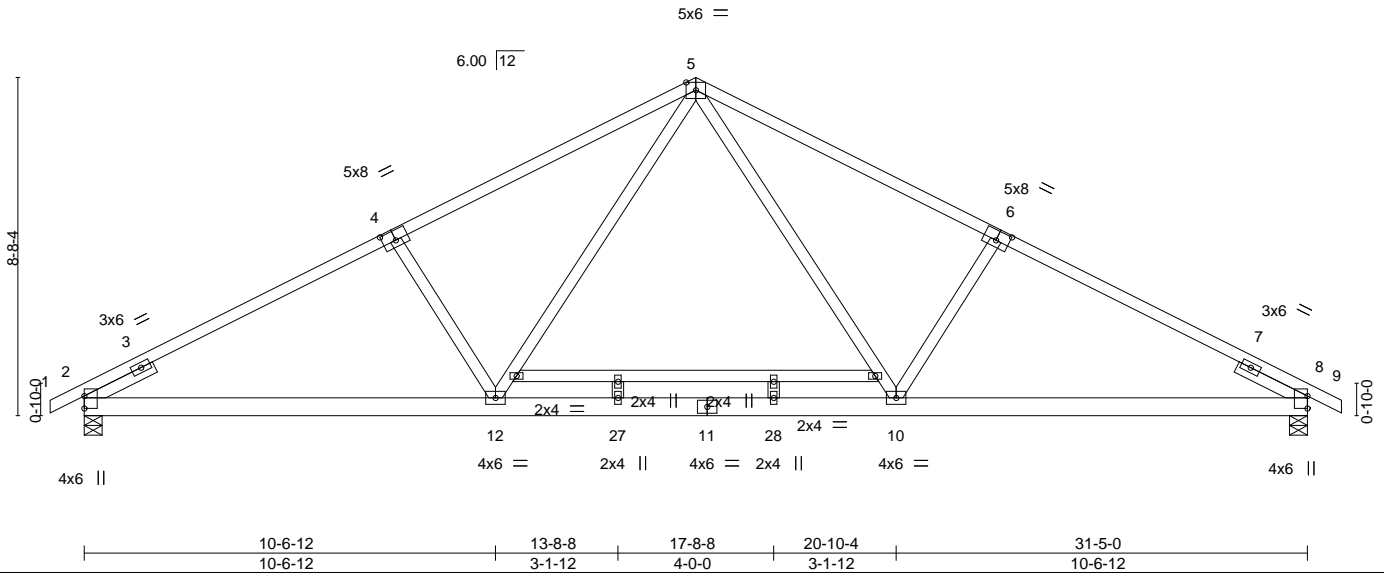


Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [6:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.11 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.39 10-12	>971	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08 10-12	>999	240	Weight: 192 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

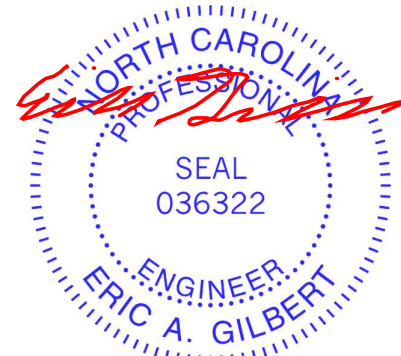
(lb/size) 2=1409/0-5-8, 8=1409/0-5-8
 Max Horz 2=159(LC 12)
 Max Uplift 2=148(LC 12), 8=148(LC 13)

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

TOP CHORD 2-4=-2245/466, 4-5=-2045/482, 5-6=-2045/482, 6-8=-2245/466
 BOT CHORD 2-12=-279/1933, 10-12=-56/1340, 8-10=-281/1933
 WEBS 5-10=-83/780, 6-10=-407/354, 5-12=-83/780, 4-12=-407/354

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 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 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) except (jt=lb) 2=148, 8=148.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



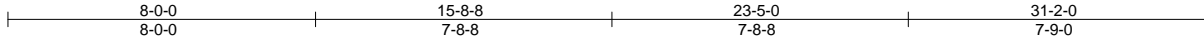
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C05	Truss Type COMMON	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810620
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:26 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-yo5xBzUxIsChbLkN90OVZTXFi1o30U6I9AUgeCzajsx



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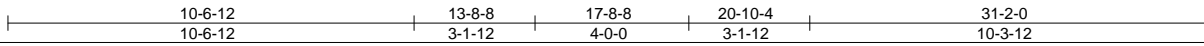
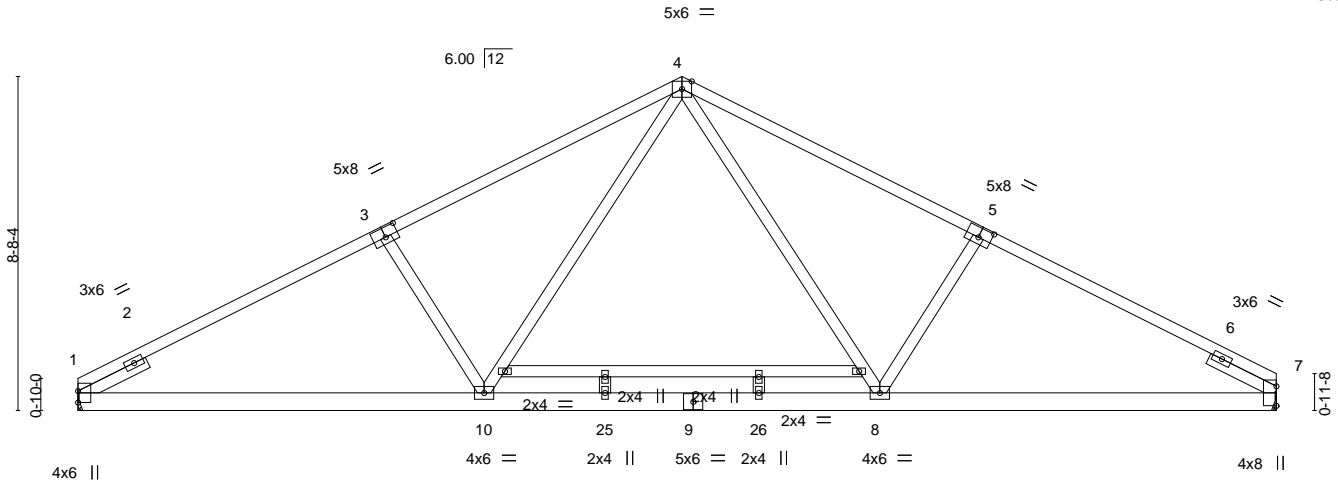


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.12	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.41	8-10	>912		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.07	7	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.09	8-10	>999		
								Weight: 188 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

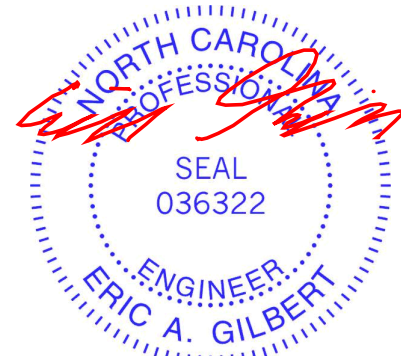
REACTIONS. (lb/size) 1=1346/Mechanical, 7=1347/Mechanical
 Max Horz 1=98(LC 9)

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

TOP CHORD 1-3=-2231/464, 3-4=-2031/480, 4-5=-1990/470, 5-7=-2183/454
 BOT CHORD 1-10=-304/1921, 8-10=-77/1321, 7-8=-293/1875
 WEBS 3-10=-408/354, 4-10=-86/790, 4-8=-71/733, 5-8=-389/349

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C06	Truss Type GABLE	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810621
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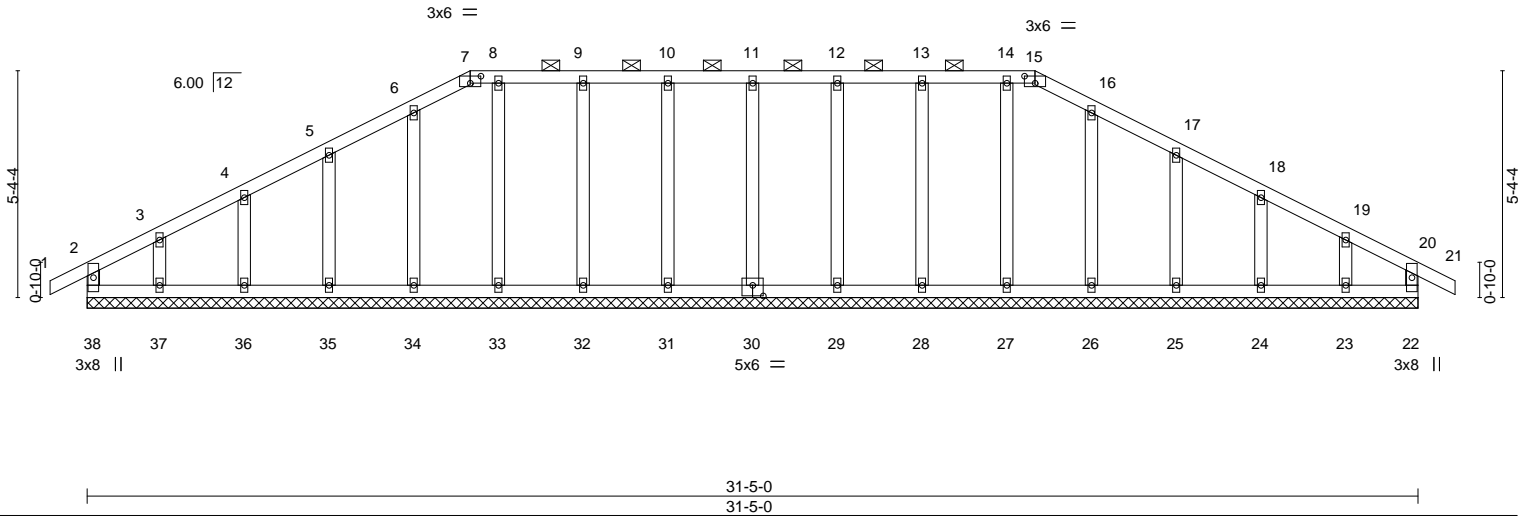
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:29 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-NNm4q_Xq2naGSoTyq9yCB69x6EzSDwyBs8jEWzajsu

0-10-8 0-10-8	9-0-8 9-0-8	22-4-8 13-4-0	31-5-0 9-0-8	32-3-8 0-10-8
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Scale = 1:54.4



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 21 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.00 21 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 22 n/a n/a		
	Code IRC2015/TPI2014			Weight: 182 lb	FT = 20%

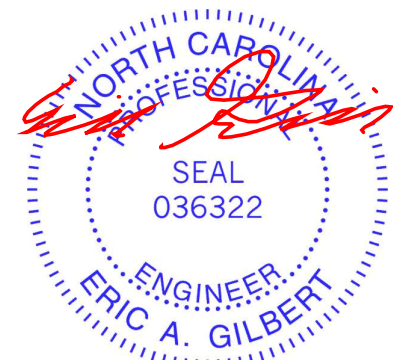
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-5-0.
(lb) - Max Horz 38=-95(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 38, 22, 30, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25, 24, 23 except 37=-101(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 38, 22, 30, 31, 32, 33, 34, 35, 36, 37, 29, 28, 27, 26, 25, 24, 23

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 38, 22, 30, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25, 24, 23 except (jt=lb) 37=101.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Job 1719437	Truss C07	Truss Type Hip	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810622
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:32 2019 Page 1

ID:PFhEEkzM06?Kz1KM4JYUByNvpB-nySDSOZiKyrJGBXVHVvpknNcStbQD2dY6xarrzajsr

-0-10-8 0-10-8	6-3-11 6-3-11	11-6-13 5-3-2	15-8-8 4-1-11	19-10-3 4-1-11	25-1-5 5-3-2	31-5-0 6-3-11	32-3-8 0-10-8
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Scale = 1:55.0

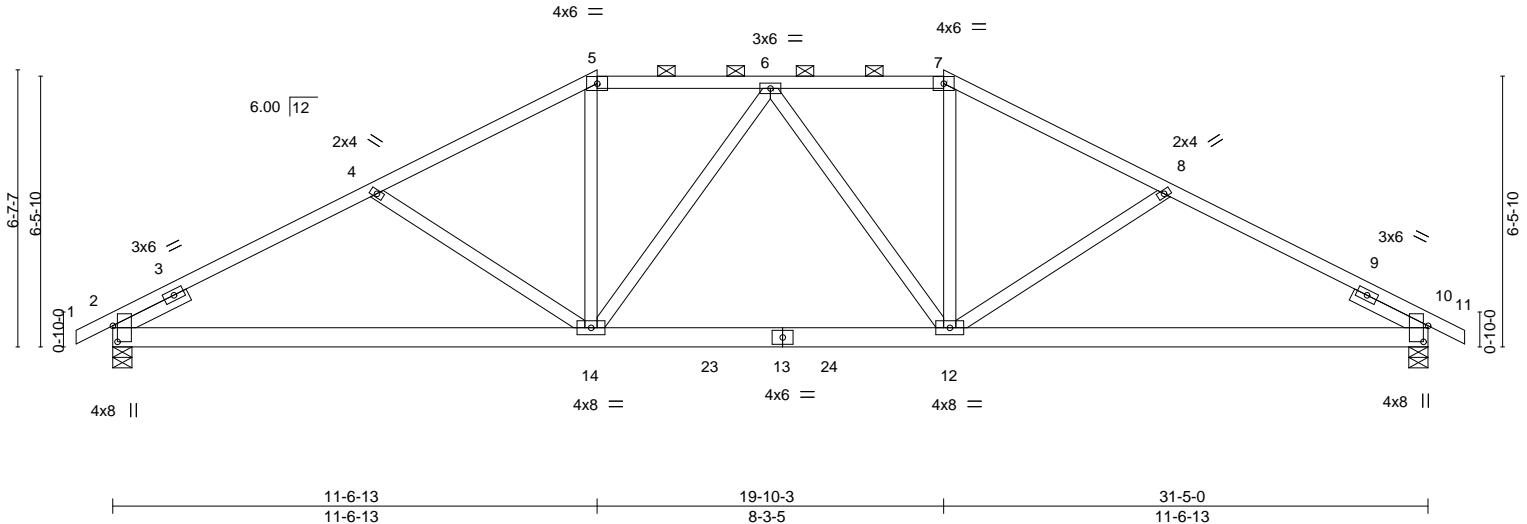


Plate Offsets (X,Y)--	[2:0-4-9,0-1-5], [10:0-4-9,0-1-5]
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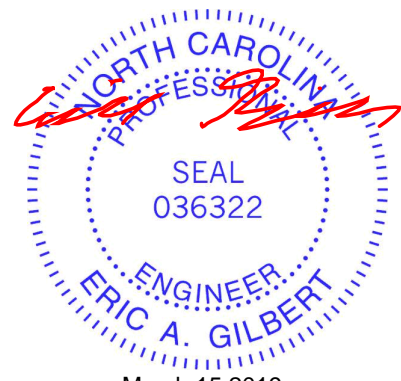
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) -0.13 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.21 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.05 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 12-14 >999 240		
				Weight: 190 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-7-15 max.): 5-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 2=1309/0-5-8, 10=1309/0-5-8
 Max Horz 2=118(LC 12)
 Max Uplift 2=-212(LC 12), 10=-212(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2034/691, 4-5=-1771/592, 5-6=-1519/579, 6-7=-1519/579, 7-8=-1771/592, 8-10=-2034/691
 BOT CHORD 2-14=-493/1760, 12-14=-329/1615, 10-12=-494/1760
 WEBS 4-14=-291/254, 5-14=-87/494, 6-14=-283/141, 6-12=-283/141, 7-12=-87/494, 8-12=-291/254

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=212, 10=212.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

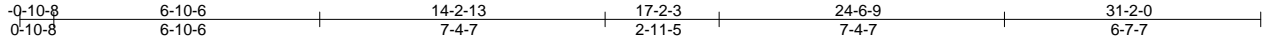


Job 1719437	Truss C08	Truss Type Hip	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810623
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:36 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-gkhjIocDOxSGntVik7arzxzr3CsM2jDTkvn_czajsn



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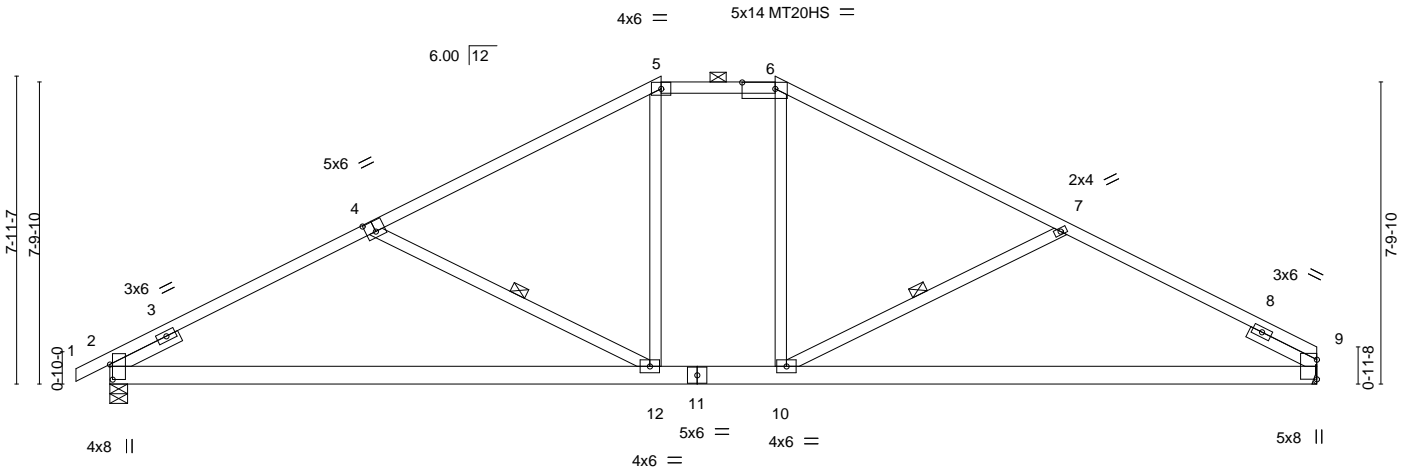


Plate Offsets (X,Y)--	[2:0-4-11,0-0-13], [4:0-3-0,0-3-4], [6:0-10-4,0-2-0]
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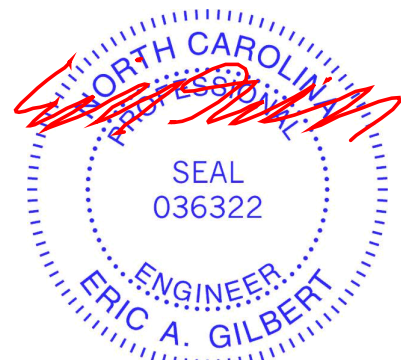
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.22	12-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.46	12-19	>819	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.16	12-19	>999	240		
							Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-6-10 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	WEBS 1 Row at midpt 4-12, 7-10

REACTIONS. (lb/size) 9=1246/Mechanical, 2=1300/0-5-8
 Max Horz 2=155(LC 12)
 Max Uplift 9=210(LC 13), 2=236(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1873/728, 4-5=-1589/555, 5-6=-1326/565, 6-7=-1585/552, 7-9=-1964/720
 BOT CHORD 2-12=-547/1735, 10-12=-226/1326, 9-10=-538/1700
 WEBS 4-12=-498/361, 5-12=-61/430, 6-10=-45/401, 7-10=-464/350

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=210, 2=236.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

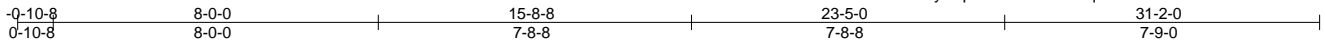


March 15, 2019

Job 1719437	Truss C09	Truss Type Common	Qty 9	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810624
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:39 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-4JNswPe5hsqreLEtPF7YbDZSBGAPZNI9i8Sbxzajsk



Scale = 1:56.7

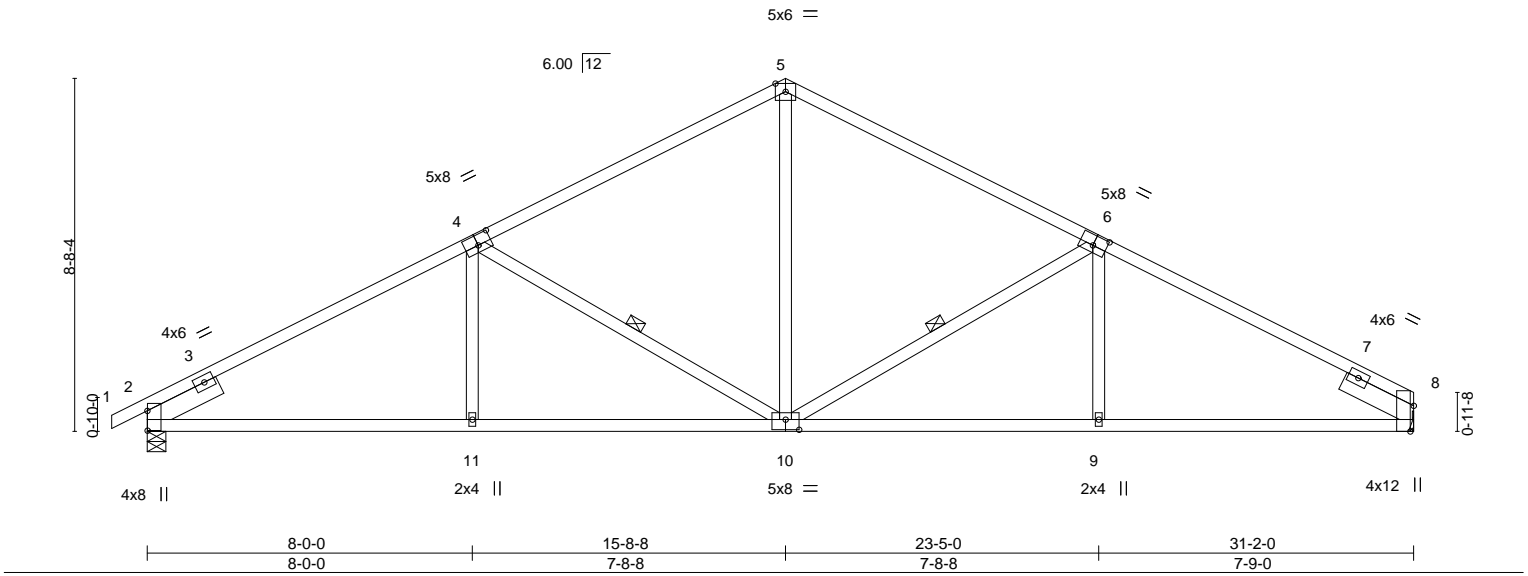


Plate Offsets (X,Y)-- [2:0-5-13,0-0-1], [4:0-4-0,0-3-0], [6:0-4-0,0-3-0], [8:0-7-9,Edge], [10:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.13	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.31	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.12	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10	9-10	>999		
								Weight: 160 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-8: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10, 6-10
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1300/0-5-8, 8=1246/Mechanical
Max Horz 2=171(LC 12)
Max Uplift 2=-246(LC 12), 8=-221(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1981/657, 4-5=-1446/570, 5-6=-1443/569, 6-8=-1937/644
BOT CHORD 2-11=-470/1688, 10-11=-471/1686, 9-10=-456/1641, 8-9=-455/1643
WEBS 4-11=0/279, 4-10=-610/313, 5-10=-221/733, 6-10=-564/296, 6-9=0/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=246, 8=221.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

Job 1719437	Truss C10	Truss Type COMMON	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810625
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:42 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-Ut3_YRh_nDQVoyS5NhFDRB??UGXmj56rgM6CGzajsh

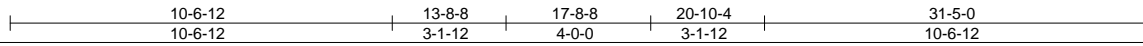
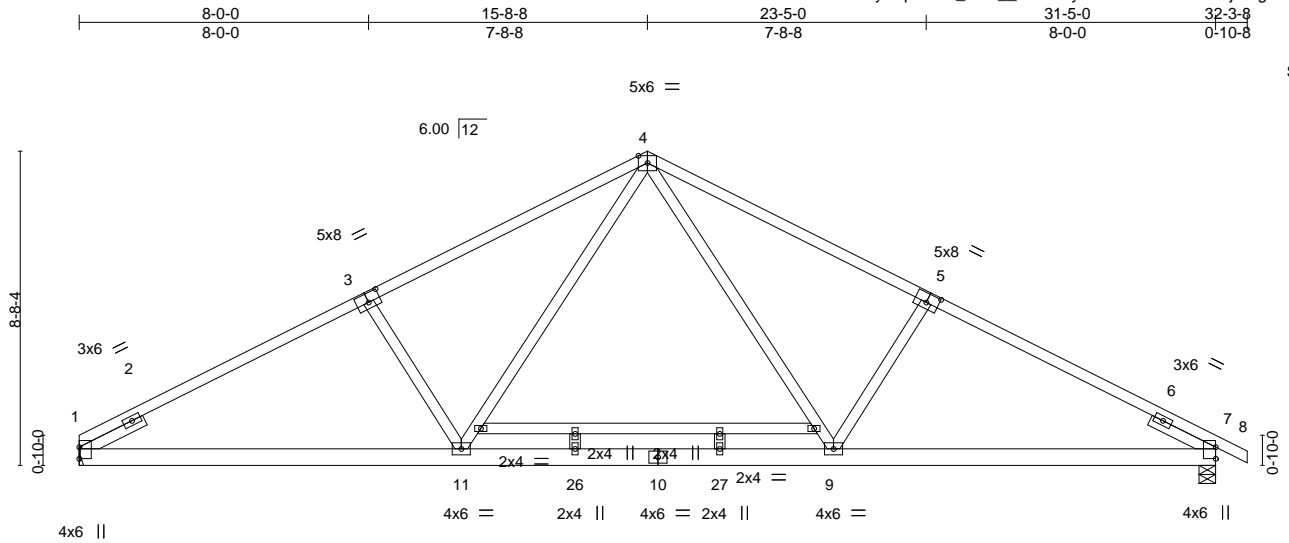


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.11	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.39	9-11	>975		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.06	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	9-11	>999		
								Weight: 191 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

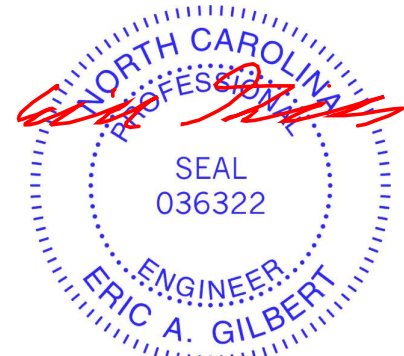
REACTIONS. (lb/size) 1=1356/Mechanical, 7=1410/0-5-8
 Max Horz 1=-104(LC 8)

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

TOP CHORD 1-3=-2249/468, 3-4=-2049/484, 4-5=-2046/483, 5-7=-2246/467
 BOT CHORD 1-11=-283/1937, 9-11=-57/1342, 7-9=-282/1934
 WEBS 4-9=-83/780, 5-9=-408/354, 4-11=-85/784, 3-11=-409/354

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

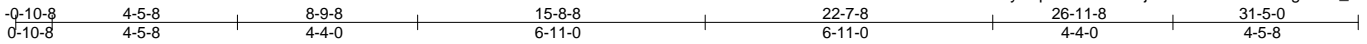


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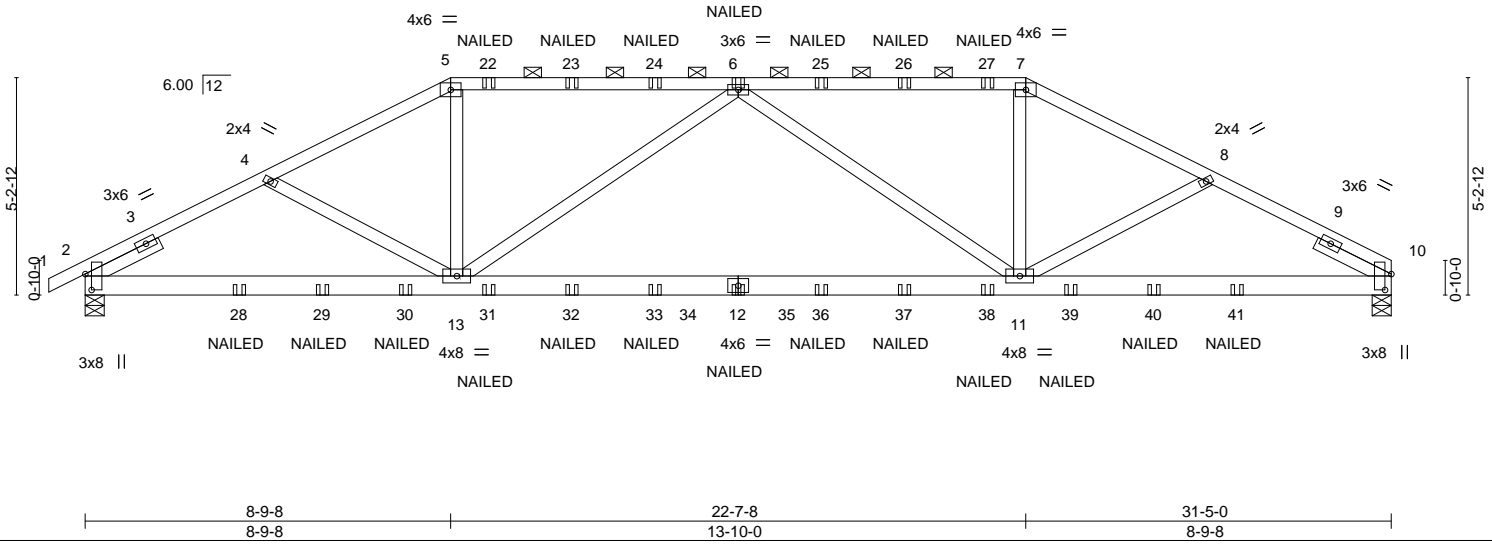
Job 1719437	Truss C11	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810626
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:47 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-rstb8l6oJrjarQtXGQwuvv2V?gR1wr_x4ttUzajsc



Scale = 1:55.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	0.24	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.34	11-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(CT)	-0.04	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 366 lb	FT = 20%

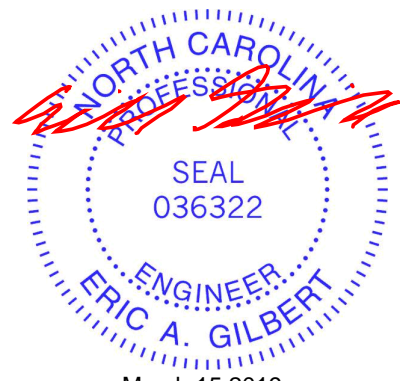
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 5-7.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 10=1809/0-5-8, 2=1863/0-5-8
Max Horz 2=101(LC 31)
Max Uplift 10=1098(LC 9), 2=1121(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2976/1964, 4-5=-2821/1948, 5-6=-2515/1809, 6-7=-2518/1810, 7-8=-2824/1949, 8-10=-2981/1966
BOT CHORD 2-13=-1744/2597, 11-13=-2166/2976, 10-11=-1662/2603
WEBS 4-13=-231/330, 5-13=-548/885, 6-13=-605/638, 6-11=-603/638, 7-11=-548/886, 8-11=-234/331

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1098, 2=1121.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-7=-60, 7-10=-60, 14-18=-20



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY TRESCO
A MiTek Affiliate
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Edenton, NC 27932

Job 1719437	Truss C11	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810626
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:47 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-rrstb8l6oJrjcarQtXGQwvuv2V?gR1wr_x4ttUzajsc

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-22(B) 6=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-142(B) 29=-115(B) 30=-107(B) 31=-22(B) 32=-22(B) 33=-22(B)
36=-22(B) 37=-22(B) 38=-22(B) 39=-107(B) 40=-115(B) 41=-142(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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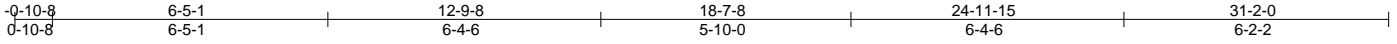
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C12	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810627
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:50 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-FQY0EAn?5EDHT1a?Z3q7YXWP5i_heKeHhVlXUpzajsZ



Scale = 1:53.7

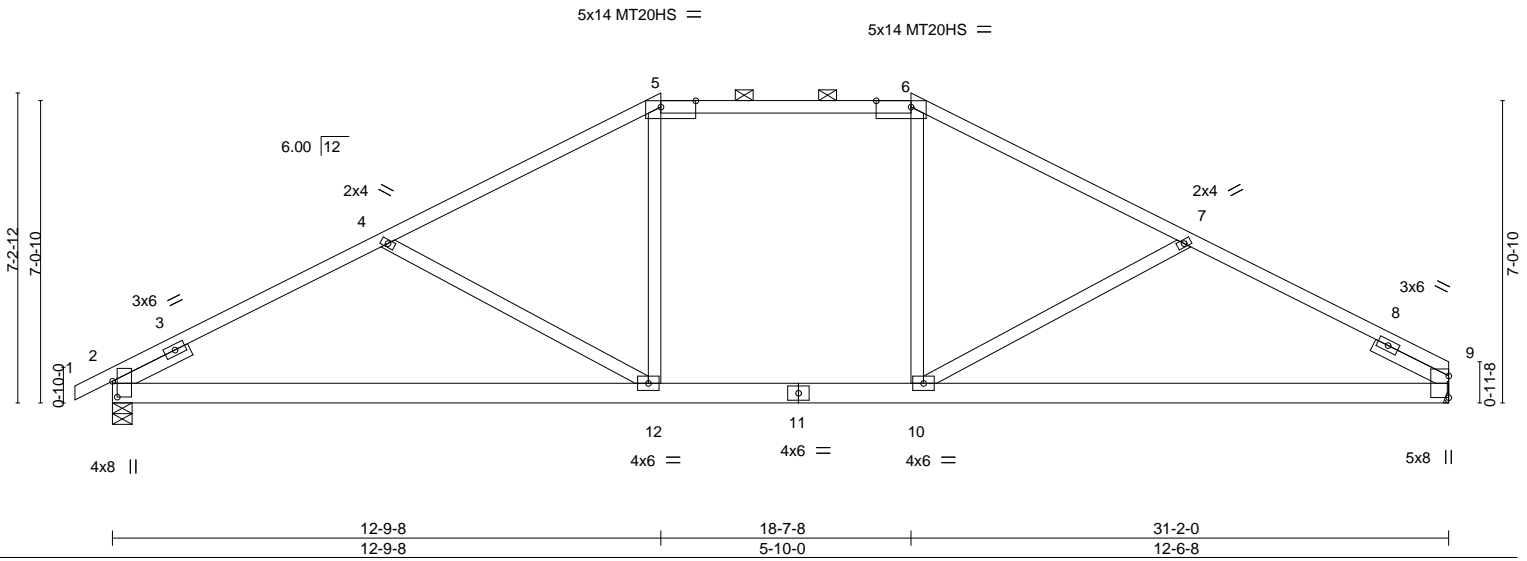


Plate Offsets (X,Y)-- [2:0-4-7,0-1-5], [5:0-9-12,0-1-12], [6:0-9-12,0-1-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.28	12-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.44	12-19	>848	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.07	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.22	12-19	>999	240		
							Weight: 171 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-6-11 max.); 5-6.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(lb/size) 9=1246/Mechanical, 2=1300/0-5-8
 Max Horz 2=141(LC 12)
 Max Uplift 9=-198(LC 13), 2=-223(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2009/711, 4-5=-1678/573, 5-6=-1423/575, 6-7=-1671/571, 7-9=-1969/700
 BOT CHORD 2-12=-537/1745, 10-12=-271/1423, 9-10=-523/1701
 WEBS 4-12=-414/314, 5-12=-31/426, 6-10=-23/406, 7-10=-371/307

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=198, 2=223.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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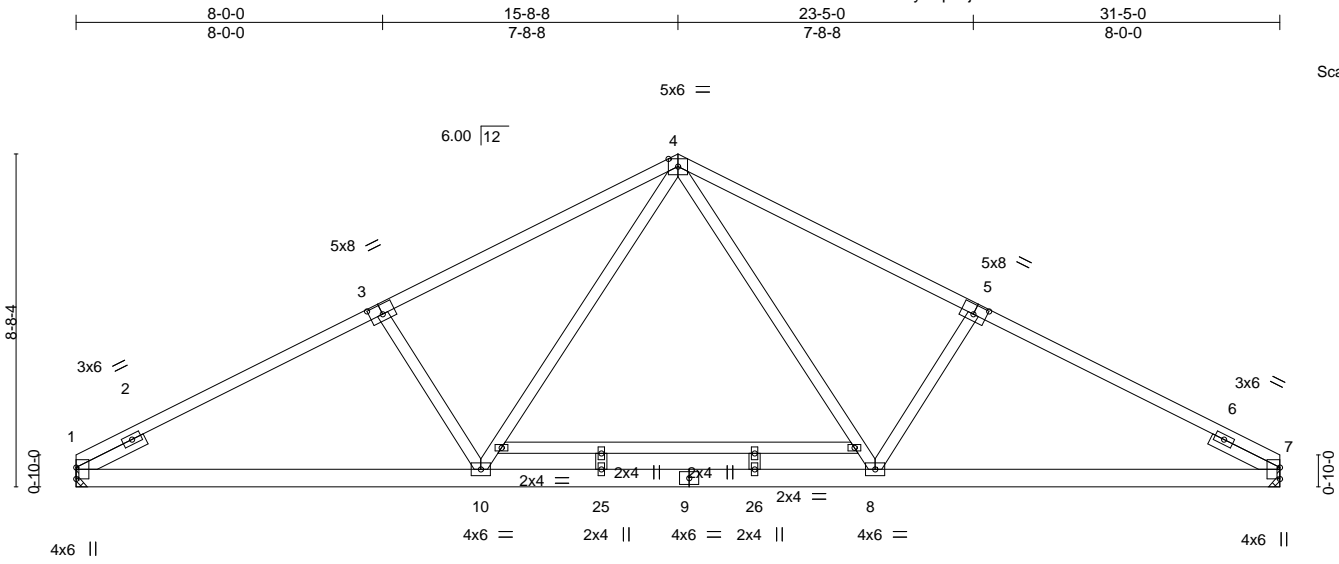


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C13	Truss Type COMMON	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810628
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:51 2019 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-jc5ORWodsYL84B8B6mLM4I3Xr6LfNokQvZ240FzajsY



10-6-12	13-8-8	17-8-8	20-10-4	31-5-0
10-6-12	3-1-12	4-0-0	3-1-12	10-6-12

Plate Offsets (X,Y)--	[3:0-4-0,0-3-0], [5:0-4-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.74	Vert(LL) -0.10 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.38 8-10 >980 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.08 8-10 >999 240		
				Weight: 189 lb	FT = 20%

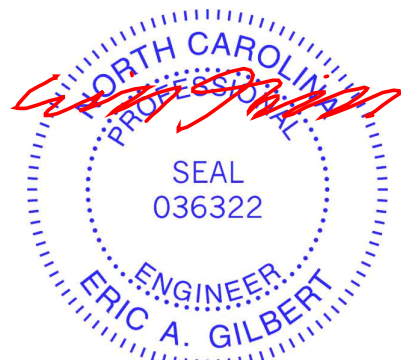
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 1=1357/Mechanical, 7=1357/Mechanical
Max Horz 1=-151(LC 13)
Max Uplift 1=-125(LC 12), 7=-125(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2250/468, 3-4=-2050/484, 4-5=-2050/484, 5-7=-2250/468
BOT CHORD 1-10=-302/1939, 8-10=-76/1343, 7-8=-302/1939
WEBS 4-8=-84/783, 5-8=-409/354, 4-10=-84/783, 3-10=-409/354

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=125, 7=125.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

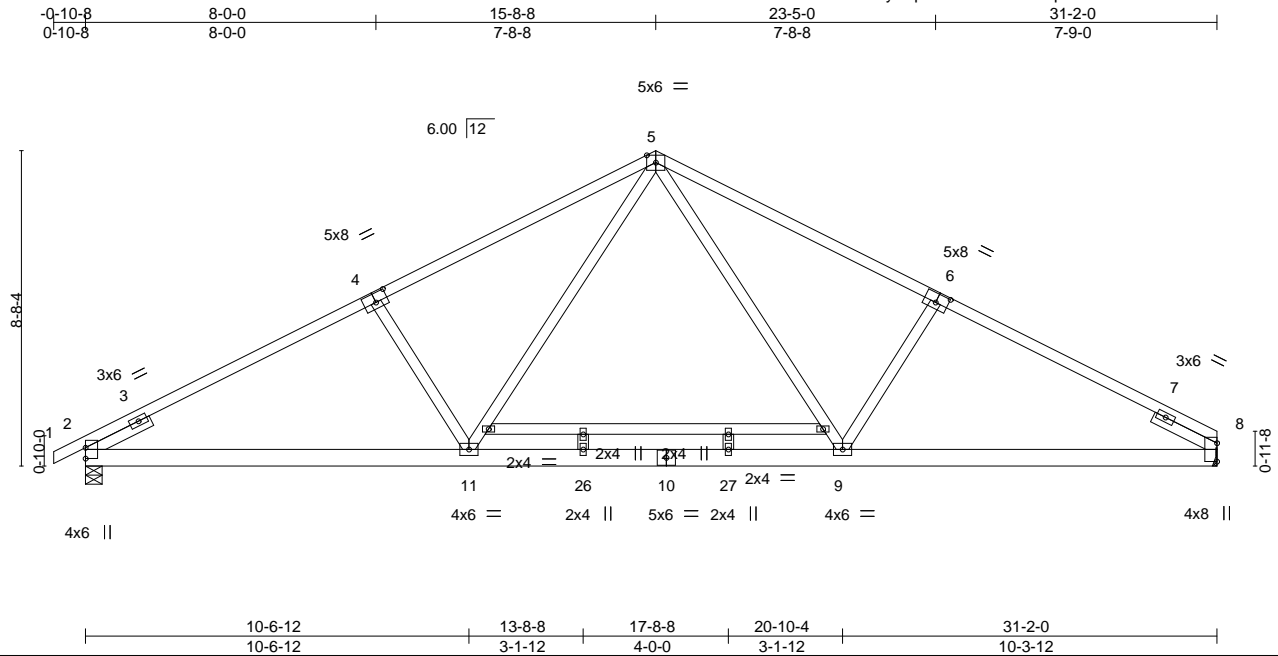


March 15, 2019

Job 1719437	Truss C14	Truss Type COMMON	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810629
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:46:57 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-YmTfiZsOSO6lp6cLT1SmK0JYxXNLnVoJlVVPEvzajsS



Scale: 3/16"=1'

Plate Offsets (X,Y)--	[4:0-4-0,0-3-0], [6:0-4-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) -0.12 9-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.41 9-11 >908 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.07 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.09 9-11 >999 240	Weight: 190 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

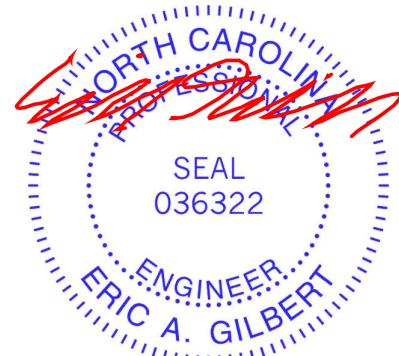
(lb/size) 2=1399/0-5-8, 8=1347/Mechanical
 Max Horz 2=171(LC 12)
 Max Uplift 2=-147(LC 12), 8=-121(LC 13)

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

TOP CHORD 2-4=-2226/463, 4-5=-2027/478, 5-6=-1989/470, 6-8=-2181/454
 BOT CHORD 2-11=-302/1917, 9-11=-77/1320, 8-9=-293/1874
 WEBS 4-11=-407/354, 5-11=-85/786, 5-9=-72/733, 6-9=-389/349

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=147, 8=121.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

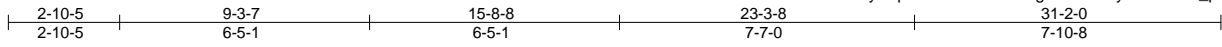


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C15	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810630
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:00 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUBvNvpB-zL8oKbvGkJUtGZKw89?Tyex3QkMC_pJI_Tj3rDzajsP



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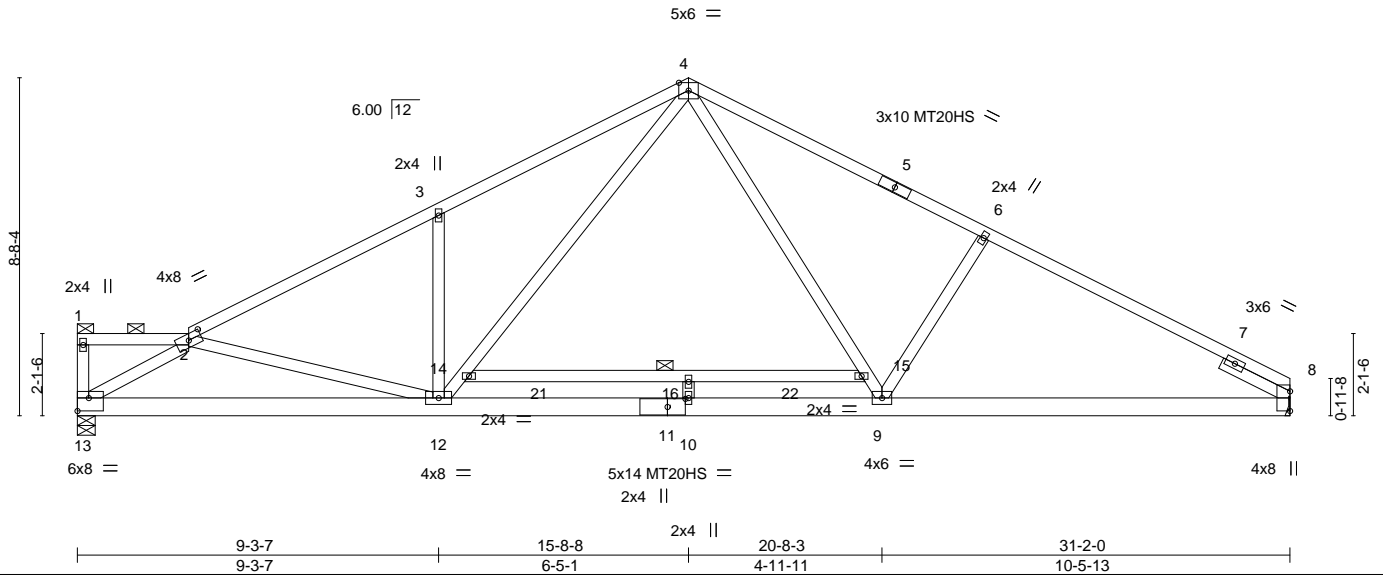


Plate Offsets (X,Y)-- [2:0-4-0,0-1-14], [11:0-5-8,0-2-8], [13:Edge,0-4-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.32	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.48	10-12	>781	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.53	Horz(CT)	0.06	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10	10	>999		
								Weight: 203 lb	FT = 20%

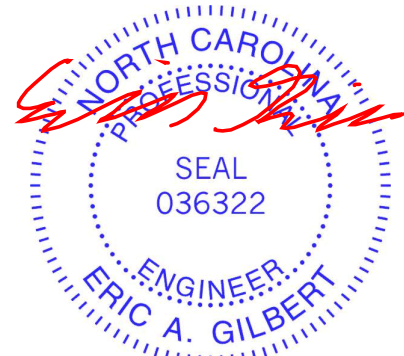
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 14-15: 2x4 SP No.2	WEBS 1 Row at midpt 14-15
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 13=1241/0-5-8, 8=1241/Mechanical
Max Horz 13=-178(LC 13)
Max Uplift 13=-224(LC 12), 8=-220(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1933/612, 3-4=-1933/797, 4-6=-1749/679, 6-8=-1948/665
BOT CHORD 12-13=-546/1712, 10-12=-218/1200, 9-10=-218/1200, 8-9=-475/1669
WEBS 2-13=-2002/747, 3-12=-412/334, 12-14=-302/818, 4-14=-308/862, 4-15=-180/756,
9-15=-176/683, 6-9=-408/341

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=224, 8=220.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 4-8=-60, 13-17=-20



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

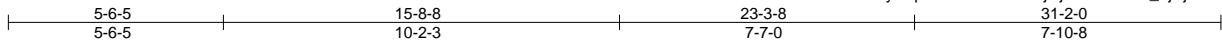


818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C16	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810631
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:01 2019 Page 1
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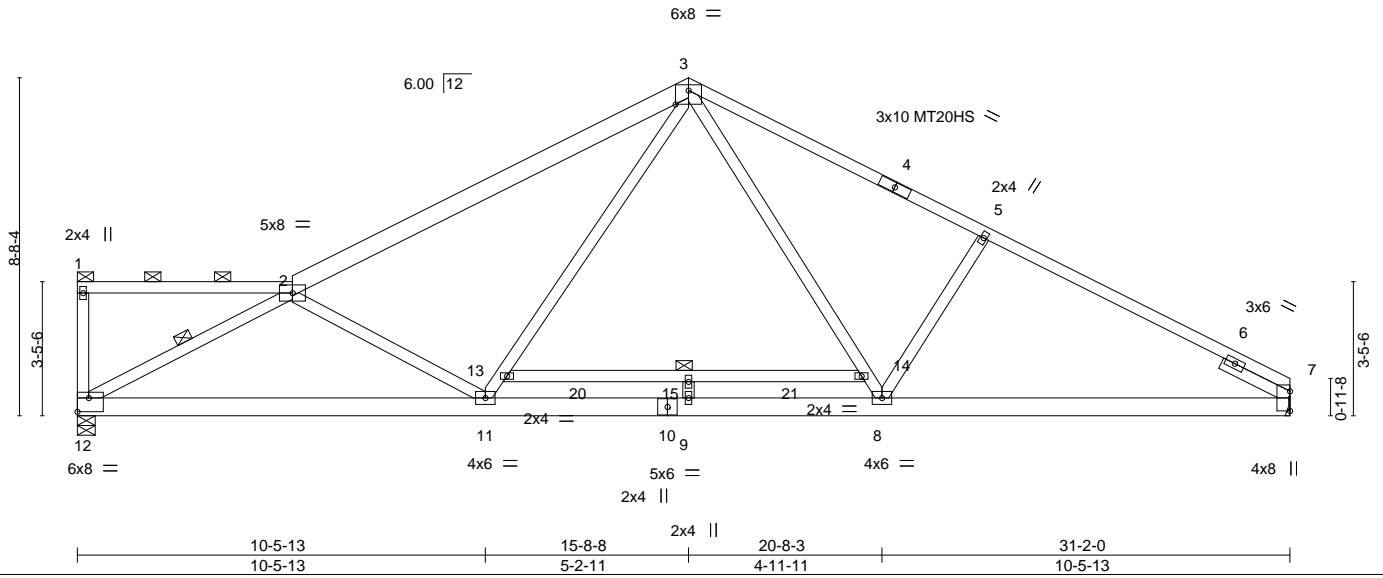


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [12:Edge,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.21	9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.32	9	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.55	Horz(CT) 0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.08	9	>999	240		
							Weight: 208 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-3: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-12, 13-14
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 12=1241/0-5-8, 7=1241/Mechanical
Max Horz 12=-212(LC 13)
Max Uplift 12=-228(LC 12), 7=-217(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1780/567, 3-5=-1740/666, 5-7=-1938/651
BOT CHORD 11-12=-520/1821, 9-11=-215/1239, 8-9=-215/1239, 7-8=-461/1658
WEBS 2-12=-2042/744, 2-11=-452/339, 11-13=-47/657, 3-13=-53/740, 3-14=-177/684, 8-14=-171/605, 5-8=-397/323

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=228, 7=217.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-7=-60, 12-16=-20



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



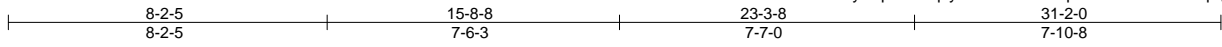
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C17	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810632
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:03 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUBvNvpB-Nwqxyxc91EsRX13UplZAZHZbJxPzB5qBgRyJRyzajsM



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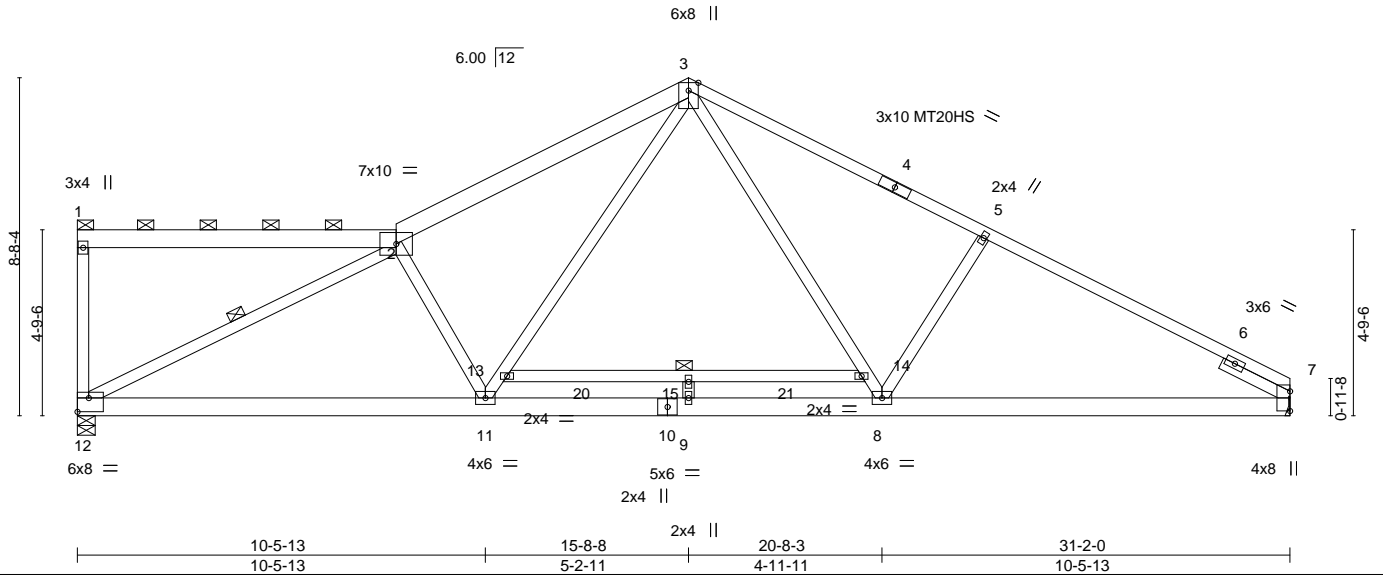


Plate Offsets (X,Y)-- [12:Edge,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.21	9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.33	9	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.87	Horz(CT)	0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09	9	>999	240		Weight: 216 lb FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 3-4,4-7: 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Right 2x4 SP No.3 1-11-12

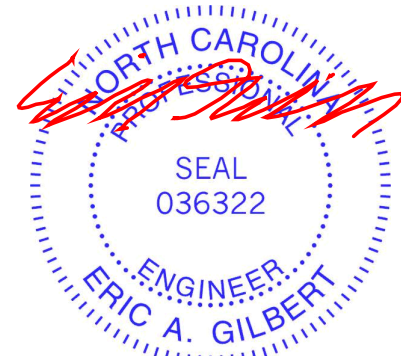
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 2-12, 13-14

REACTIONS. (lb/size) 12=1241/0-5-8, 7=1241/Mechanical
 Max Horz 12=-243(LC 13)
 Max Uplift 12=-235(LC 12), 7=-213(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1847/630, 3-5=-1743/650, 5-7=-1941/636
 BOT CHORD 11-12=-394/1739, 9-11=-197/1241, 8-9=-197/1241, 7-8=-449/1663
 WEBS 2-12=-1924/651, 2-11=-441/296, 11-13=-139/718, 3-13=-149/802, 3-14=-190/684, 8-14=-181/605, 5-8=-400/335

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=235, 7=213.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-7=-60, 12-16=-20



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C18	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810633
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:04 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-r6OJAyynoX_l8BehN?4P6U5idLmDwZkLv5hG_?zajsL

0-10-5 0-10-5	10-10-5 10-0-0	15-8-8 4-10-3	23-5-0 7-8-8	31-5-0 8-0-0	32-3-8 0-10-8
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Scale = 1:60.0

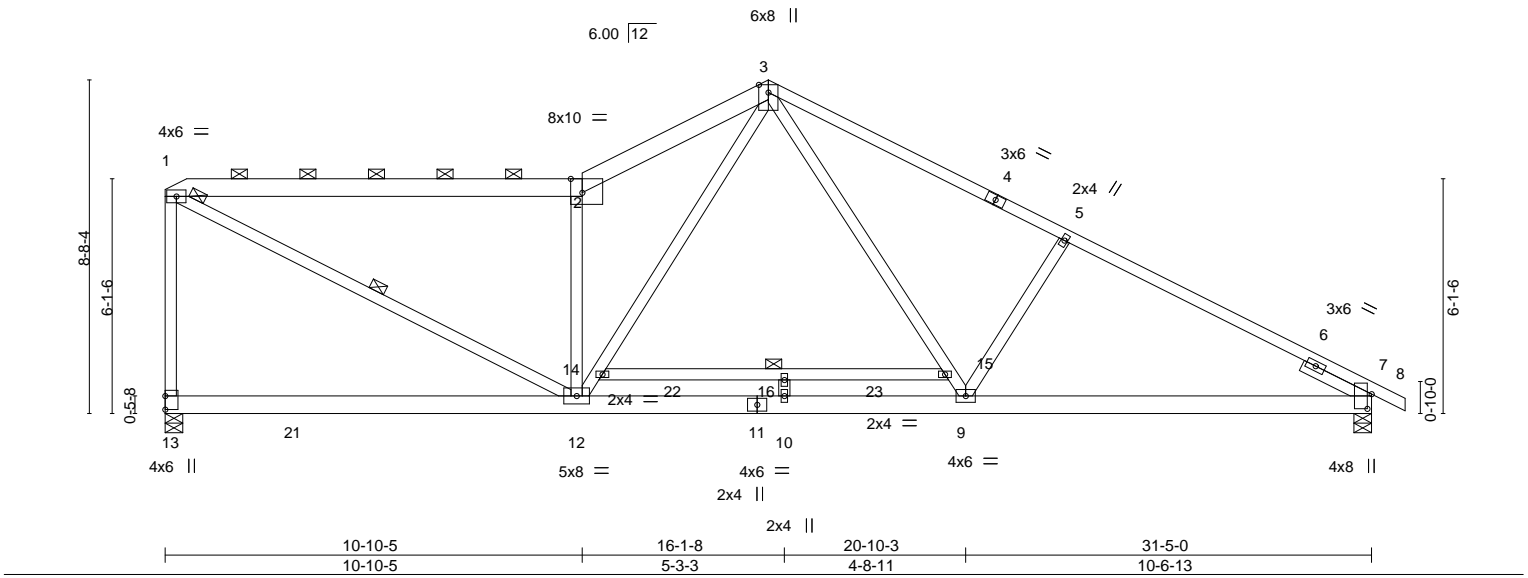


Plate Offsets (X,Y)-- [2:0-3-10,Edge], [7:0-4-9,0-1-5]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.20 10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.32 10 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.09 10-12 >999 240		
				Weight: 224 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-2: 2x6 SP No.1, 2-3: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 1-2.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 1-13: 2x4 SP No.2	WEBS 1 Row at midpt 1-12, 14-15
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 13=1250/0-5-8, 7=1304/0-5-8
 Max Horz 13=-299(LC 13)
 Max Uplift 13=-245(LC 12), 7=-234(LC 13)
 Max Grav 13=1263(LC 2), 7=1304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1613/510, 2-3=-1948/688, 3-5=-1804/644, 5-7=-2006/629, 1-13=-1149/434
 BOT CHORD 12-13=-58/296, 10-12=-140/1208, 9-10=-140/1208, 7-9=-423/1726
 WEBS 1-12=-558/1766, 2-12=-1379/605, 12-14=-236/921, 3-14=-233/936, 3-15=-215/720,
 9-15=-209/667, 5-9=-416/348

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=245, 7=234.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-8=-60, 13-17=-20

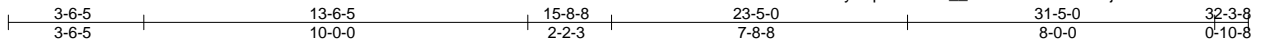


Job 1719437	Truss C19	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810634
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:07 2019 Page 1

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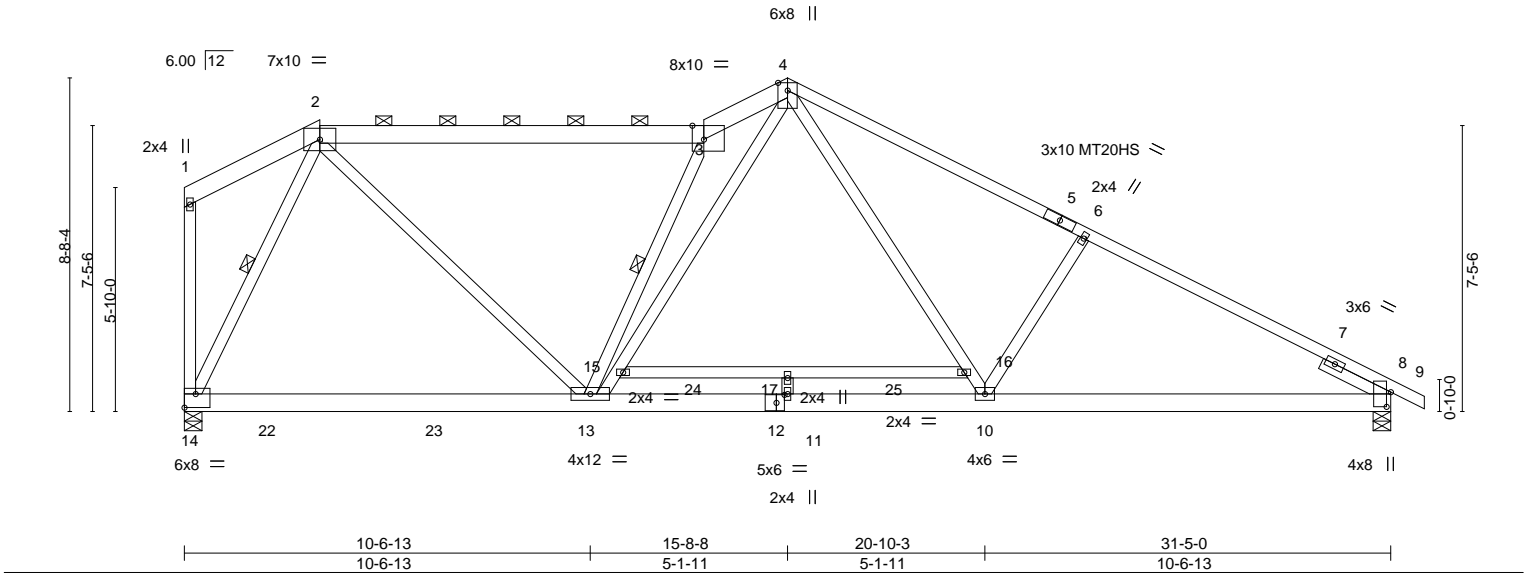


Plate Offsets (X,Y)--	[3:0-3-10,Edge], [8:0-4-9,0-1-5], [12:0-2-8,0-2-8], [14:Edge,0-4-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.21	11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.63	Vert(CT)	-0.32	11	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.77	Horz(CT)	0.04	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09	11-13	>999		
								Weight: 236 lb	FT = 20%

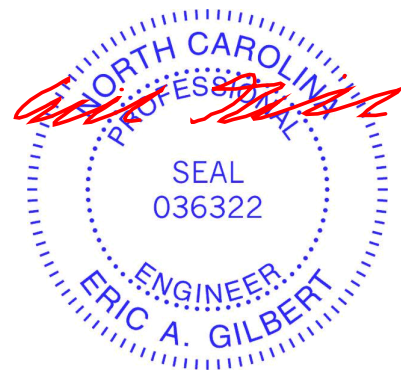
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-5,5-9: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 2-3.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 4-13,4-10: 2x4 SP No.2	WEBS 1 Row at midpt 3-13, 2-14
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) 8=1304/0-5-8, 14=1250/0-5-8
 Max Horz 14=-293(LC 13)
 Max Uplift 8=-235(LC 13), 14=-243(LC 12)
 Max Grav 8=1304(LC 1), 14=1285(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1239/411, 3-4=-2022/777, 4-6=-1802/640, 6-8=-2003/625
 BOT CHORD 13-14=-53/628, 11-13=-97/1079, 10-11=-97/1079, 8-10=-419/1721
 WEBS 2-13=-190/966, 3-13=-1396/605, 13-15=-398/1193, 4-15=-364/1134, 4-16=-204/713,
 10-16=-220/706, 6-10=-406/341, 2-14=-1286/471

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=235, 14=243.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-9=-60, 14-18=-20

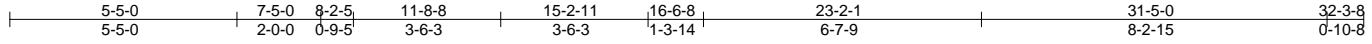


Job 1719437	Truss C20	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810635
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:08 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-kudq?K?HsmUkdoYScr8LGKGNly3SsPXqjfU7mzajsH



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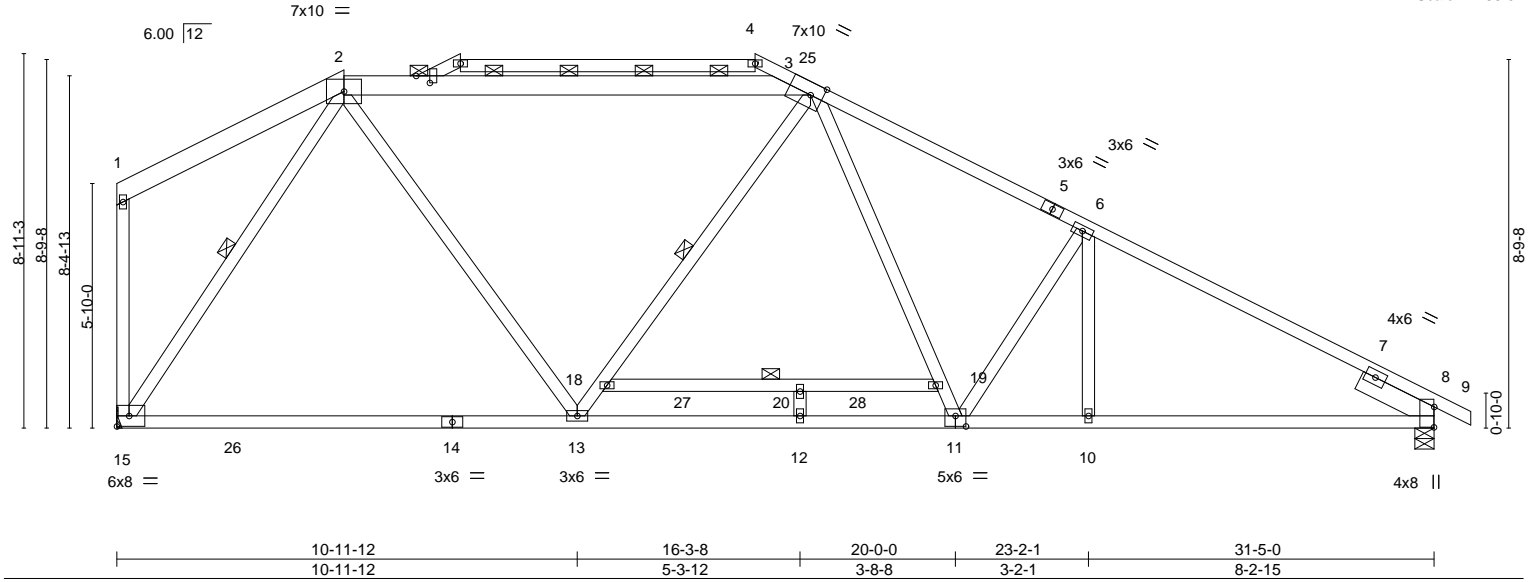


Plate Offsets (X,Y)--	[3:0-3-8,Edge], [8:0-5-13,0-0-1], [11:0-3-0,0-3-0], [16:0-2-0,0-3-15]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.48	13-15	>780	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.78	13-15	>481	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(CT)	0.06	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	11	>999	240		
									Weight: 222 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-2,2-3: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-8 max.): 2-3.
BOT CHORD 2x4 SP No.2 *Except* 14-15: 2x4 SP No.1, 11-14: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 1-15: 2x4 SP No.2	WEBS 1 Row at midpt 3-13, 2-15, 18-19
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 15=1259/Mechanical, 8=1313/0-5-8
 Max Horz 15=-306(LC 13)
 Max Uplift 15=-144(LC 8), 8=-239(LC 13)
 Max Grav 15=1297(LC 2), 8=1313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1118/520, 3-6=-1713/704, 6-8=-1983/676
 BOT CHORD 13-15=-55/754, 12-13=-222/1262, 11-12=-222/1262, 10-11=-440/1686, 8-10=-440/1686
 WEBS 2-13=-182/756, 13-18=-376/337, 3-18=-364/339, 6-11=-405/274, 2-15=-1258/546,
 3-19=-178/577, 11-19=-180/523

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=144, 8=239.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C20	Truss Type Roof Special	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810635
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:08 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-kudq?K?HsmUkdoyScr8LGKGNly3SsPXqjfU7mzajsH

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-25=-60, 3-25=-20, 3-4=-60, 3-9=-60, 15-21=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C21	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810636
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:11 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-8TJyeM1A8htJUGg1Hzi2uzu0jACW3oPNWgu8j5zajsE

0-10-8 0-10-8	6-4-2 6-4-2	15-8-8 9-4-6	25-0-14 9-4-6	31-5-0 6-4-2	32-3-8 0-10-8
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Scale = 1:54.4

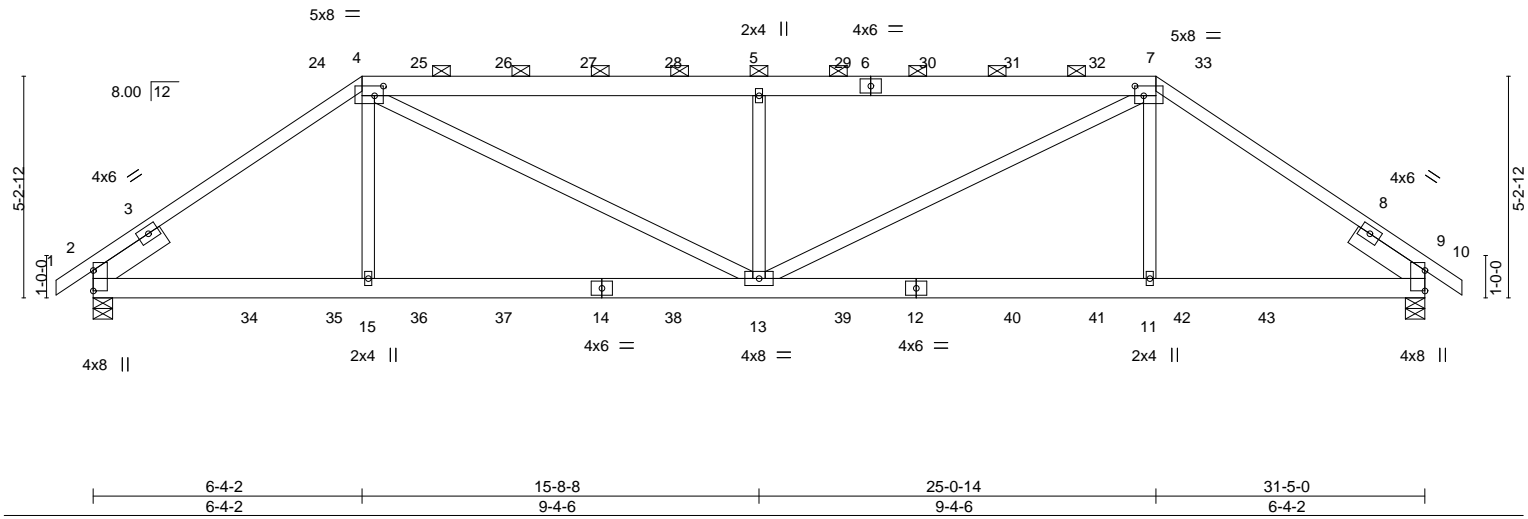


Plate Offsets (X,Y)--	[4:0-2-8,0-2-12], [7:0-2-8,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	0.18 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.15 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.51	Horz(CT)	-0.05 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 403 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS.	(lb/size) 2=1754/0-5-8, 9=1754/0-5-8 Max Horz 2=137(LC 26) Max Uplift 2=1178(LC 8), 9=1178(LC 9)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-2321/1710, 4-5=-3091/2509, 5-7=-3090/2508, 7-9=-2321/1711
BOT CHORD	2-15=-1470/1955, 13-15=-1469/1961, 11-13=-1357/1904, 9-11=-1359/1899
WEBS	4-15=-16/363, 4-13=-1304/1463, 5-13=-900/1011, 7-13=-1303/1463, 7-11=-16/362

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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) except (it=lb) 2=1178, 9=1178.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 190 lb up at 5-8-8, 126 lb down and 148 lb up at 7-8-8, 126 lb down and 148 lb up at 9-8-8, 126 lb down and 148 lb up at 11-8-8, 126 lb down and 148 lb up at 13-8-8, 126 lb down and 148 lb up at 15-8-8, 126 lb down and 148 lb up at 17-8-8, 126 lb down and 148 lb up at 19-8-8, 126 lb down and 148 lb up at 21-8-8, and 126 lb down and 148 lb up at 23-8-8, and 134 lb down and 190 lb up at 25-8-8 on top chord, and 141 lb down and 125 lb up at 3-8-8, 31 lb down and 24 lb up at 5-8-8, 47 lb down and 50 lb up at 7-8-8, 47 lb down and 50 lb up at 9-8-8, 47 lb down and 50 lb up at 11-8-8, 47 lb down and 50 lb up at 13-8-8, 47 lb down and 50 lb up at 15-8-8, 47 lb down and 50 lb up at 17-8-8, 47 lb down and 50 lb up at 19-8-8, 47 lb down and 50 lb up at 21-8-8, 47 lb down and 50 lb up at 23-8-8, and 31 lb down and 24 lb up at 25-8-8, and 141 lb down and 125 lb up at 27-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C21	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810636
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:11 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-8TJyeM1A8htJUGg1Hzi2uzu0jACW3oPNWgu8j5zajsE

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-10=-60, 16-20=-20

Concentrated Loads (lb)

Vert: 14=-22(B) 13=-22(B) 5=-32(B) 12=-22(B) 24=-45(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B) 30=-32(B) 31=-32(B) 32=-32(B) 33=-45(B)
34=-141(B) 35=-16(B) 36=-22(B) 37=-22(B) 38=-22(B) 39=-22(B) 40=-22(B) 41=-22(B) 42=-16(B) 43=-141(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



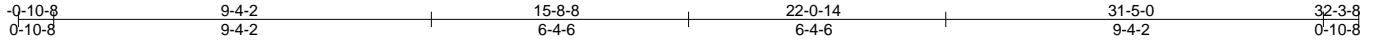
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C22	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810637
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:12 2019 Page 1

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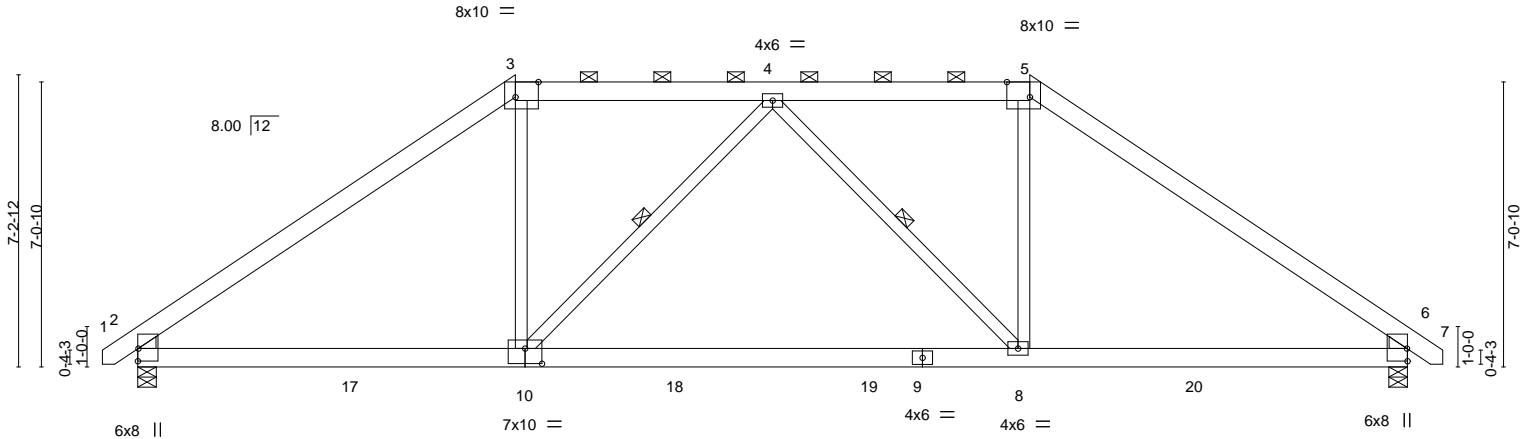


Plate Offsets (X,Y)--	[2:Edge,0-0-3], [2:0-0-2,0-3-11], [2:0-0-1,0-0-1], [3:0-6-13,Edge], [5:0-6-13,Edge], [6:Edge,0-0-3], [6:0-0-2,0-3-11], [6:0-0-1,0-0-1], [10:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.18	8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.34	8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.05	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-AS	Wind(LL)	0.06	10-13	>999	240		
									Weight: 207 lb	FT = 20%

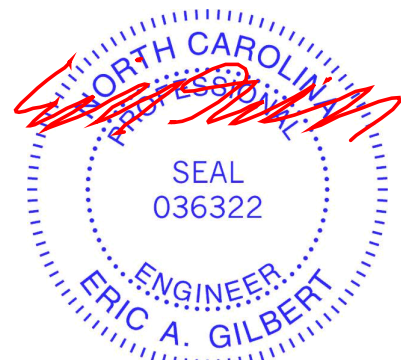
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-10, 4-8

REACTIONS. (lb/size) 2=1300/0-5-8, 6=1300/0-5-8
 Max Horz 2=188(LC 11)
 Max Uplift 2=-178(LC 12), 6=-178(LC 13)
 Max Grav 2=1337(LC 2), 6=1335(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1822/439, 3-4=-1431/462, 4-5=-1423/462, 5-6=-1822/438
 BOT CHORD 2-10=-207/1409, 8-10=-270/1578, 6-8=-189/1409
 WEBS 3-10=-36/621, 4-10=-374/270, 4-8=-380/270, 5-8=-34/621

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=178, 6=178.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Job 1719437	Truss C23	Truss Type Hip	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810638
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:13 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-4rQi313Qgl70jZqPPOkWzOzKszsmXjogz_NFozzajsC

-0-10-8 0-10-8	6-3-13 6-3-13	12-4-2 6-0-5	19-0-14 6-8-12	25-1-3 6-0-5	31-5-0 6-3-13	32-3-8 0-10-8
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Scale = 1:58.4

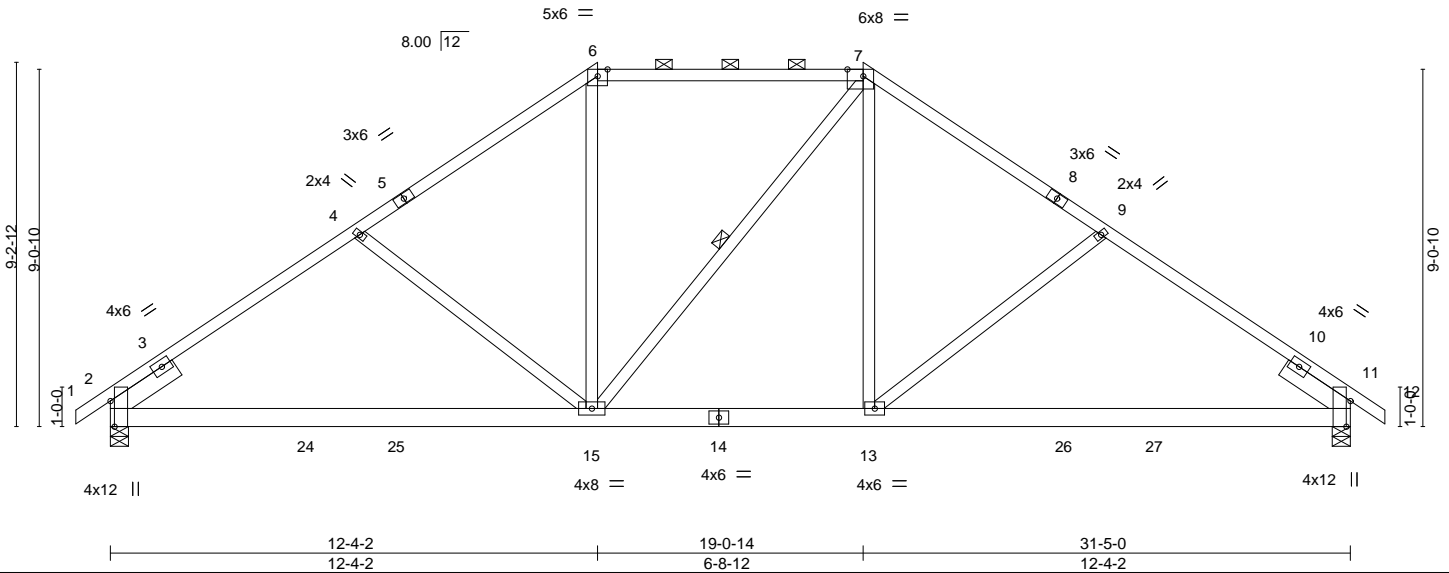


Plate Offsets (X,Y)-- [2:0-7-13,Edge], [7:0-4-13,Edge], [11:0-7-13,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.13 13-22	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.25 13-22	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.04 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05 13-15	>999	240	Weight: 203 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-4-9 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-15

REACTIONS.

(lb/size) 2=1309/0-5-8, 11=1309/0-5-8
 Max Horz 2=248(LC 11)
 Max Uplift 2=-209(LC 12), 11=-209(LC 13)

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

TOP CHORD 2-4=-1668/481, 4-6=-1426/448, 6-7=-1107/440, 7-9=-1425/448, 9-11=-1668/481
 BOT CHORD 2-15=-279/1394, 13-15=-78/1116, 11-13=-263/1318
 WEBS 4-15=-355/277, 6-15=-30/439, 7-13=-65/509, 9-13=-356/277

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 11=209.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C24	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810639
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:14 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-Y1_5GN32RcFLjPcz6FIWbWa8N6kG6ypCe6oKPzajsB

-0-10-8 8-0-0 15-4-2 16-0-14 23-5-0 31-5-0 32-3-8
 0-10-8 8-0-0 7-4-2 0-8-12 7-4-2 8-0-0 0-10-8

Scale = 1:71.0

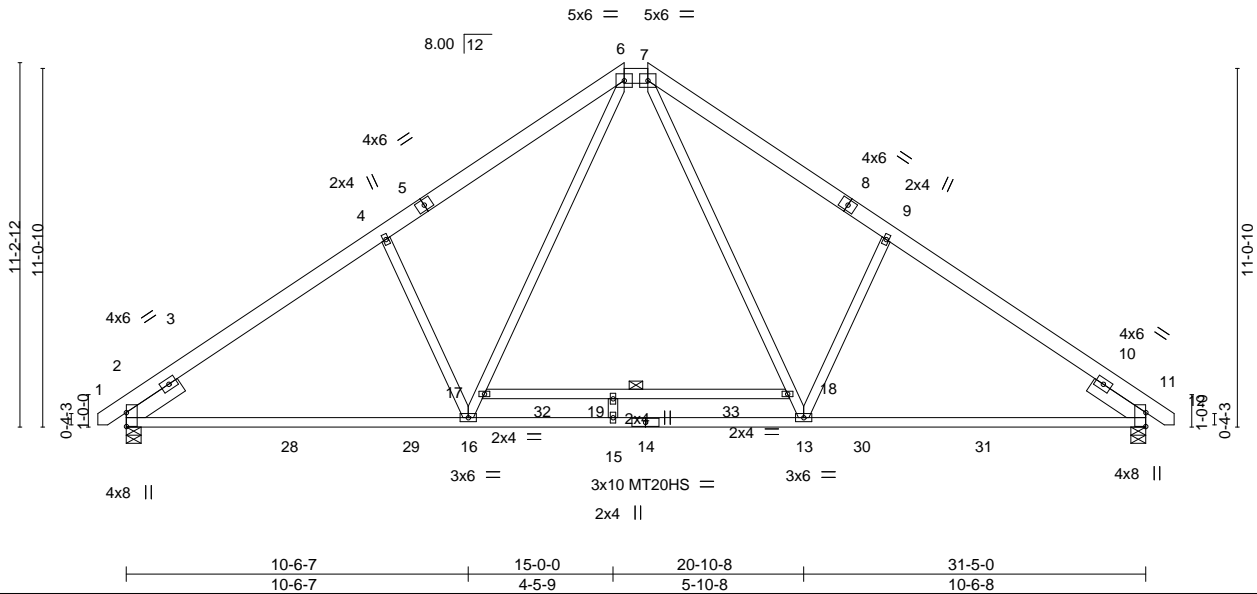


Plate Offsets (X,Y)-- [2:0-5-2,0-0-1], [11:0-5-2,0-0-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.43 13-15	>884	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.56 13-15	>673	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.65	Horz(CT)	0.05 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05 16-22	>999	240		
								Weight: 217 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 17-18: 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 17-18

REACTIONS.

(lb/size) 2=1300/0-5-8, 11=1300/0-5-8
 Max Horz 2=302(LC 11)
 Max Uplift 2=-226(LC 12), 11=-226(LC 13)
 Max Grav 2=1397(LC 19), 11=1397(LC 20)

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

TOP CHORD 2-4=-1784/440, 4-6=-1668/539, 6-7=-1043/451, 7-9=-1666/539, 9-11=-1782/440
 BOT CHORD 2-16=-305/1602, 15-16=-61/1135, 13-15=-61/1135, 11-13=-214/1388
 WEBS 4-16=-437/367, 9-13=-437/367, 16-17=-241/777, 6-17=-237/825, 7-18=-237/822,
 13-18=-239/761

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=226, 11=226.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-7=-60, 7-12=-60, 20-24=-20



March 15, 2019

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

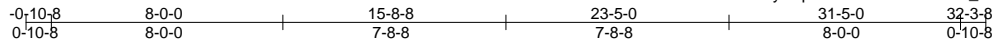


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C25	Truss Type Common	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810640
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:16 2019 Page 1
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-VQ6rh35IzDVba1Z_4WIDb0bqIBsck1?6fybvPlzajs9



7x14 MT20HS ||

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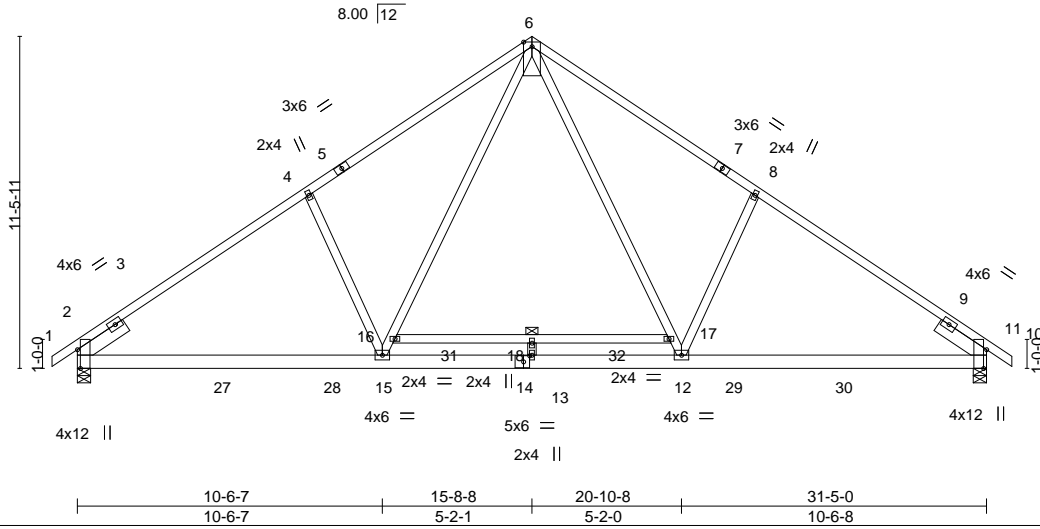


Plate Offsets (X,Y)-- [2:0-7-13,Edge], [10:0-7-13,Edge], [14:0-2-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.22	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.32	13	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.61	Horz(CT)	0.04	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	15-21	>999		
								Weight: 211 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 16-17: 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 16-17

REACTIONS.

(lb/size) 2=1309/0-5-8, 10=1309/0-5-8
 Max Horz 2=314(LC 11)
 Max Uplift 2=-231(LC 12), 10=-231(LC 13)
 Max Grav 2=1414(LC 19), 10=1414(LC 20)

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

TOP CHORD 2-4=-1793/438, 4-6=-1686/545, 6-8=-1686/545, 8-10=-1793/438
 BOT CHORD 2-15=-306/1621, 13-15=-68/1159, 12-13=-68/1159, 10-12=-207/1414
 WEBS 4-15=-457/362, 15-16=-243/800, 6-16=-247/857, 6-17=-247/857, 12-17=-243/800,
 8-12=-457/362

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=231, 10=231.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-11=-60, 19-23=-20



March 15, 2019

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C27	Truss Type HIP GIRDER	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810642
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:18 2019 Page 1

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Scale = 1:56.2

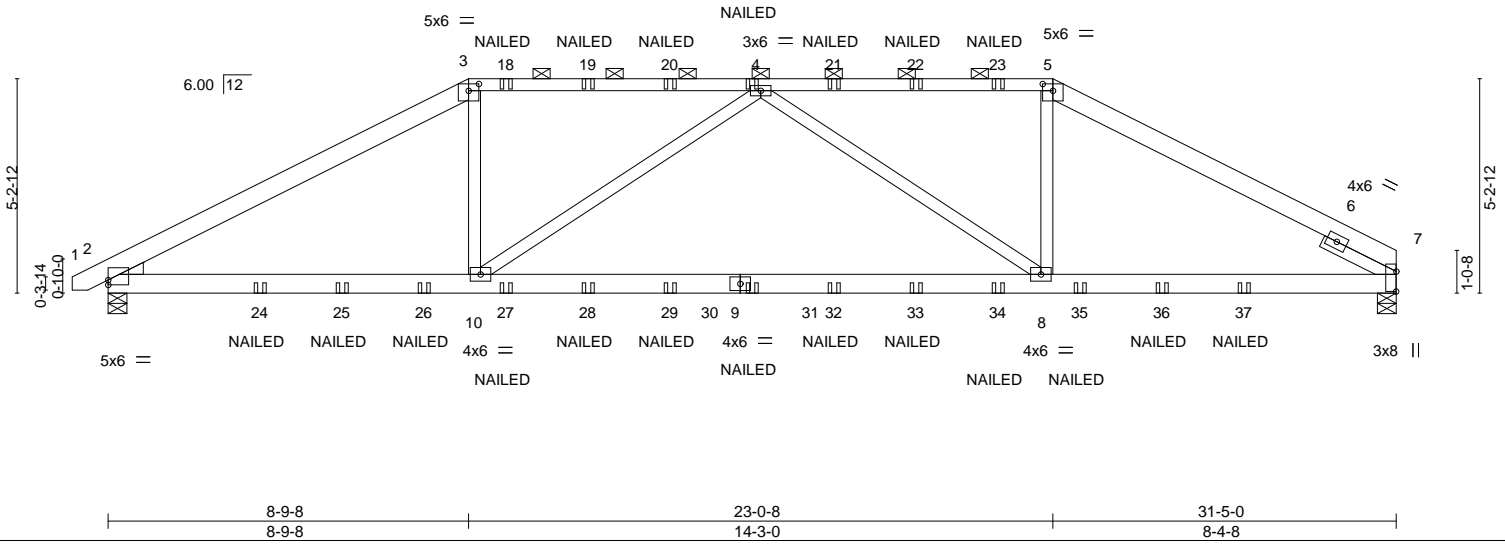


Plate Offsets (X,Y)--	[2:0-0-0,0-1-7], [3:0-3-0,0-2-0], [5:0-3-0,0-2-0], [7:0-5-14,0-0-1]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) 0.26 8-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.36 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.19	Horz(CT) -0.05 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 368 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE Left: 2x4 SP No.3	
SLIDER Right 2x4 SP No.2 1-11-12	

REACTIONS. (lb/size) 7=1809/0-5-8, 2=1851/0-5-8
 Max Horz 2=105(LC 8)
 Max Uplift 7=-1094(LC 9), 2=-1115(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2959/1960, 3-4=-2543/1827, 4-5=-2456/1755, 5-7=-2843/1893
 BOT CHORD 2-10=-1713/2577, 8-10=-2178/2979, 7-8=-1584/2431
 WEBS 3-10=-595/943, 4-10=-589/633, 4-8=-684/712, 5-8=-610/959

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=1094, 2=1115.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 1719437	Truss C27	Truss Type HIP GIRDER	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810642
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:19 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-v?o_J57BG8tARUHZIfwDfDNdOvfxVPYLwqZ0dzajs6

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 11-15=-20

Concentrated Loads (lb)

Vert: 9=-22(B) 4=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-142(B) 25=-115(B) 26=-107(B) 27=-22(B) 28=-22(B) 29=-22(B)
32=-22(B) 33=-22(B) 34=-22(B) 35=-107(B) 36=-115(B) 37=-142(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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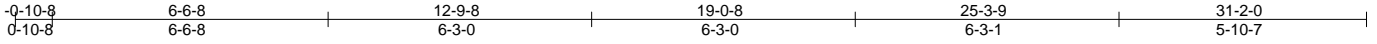
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C28	Truss Type Hip	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810643
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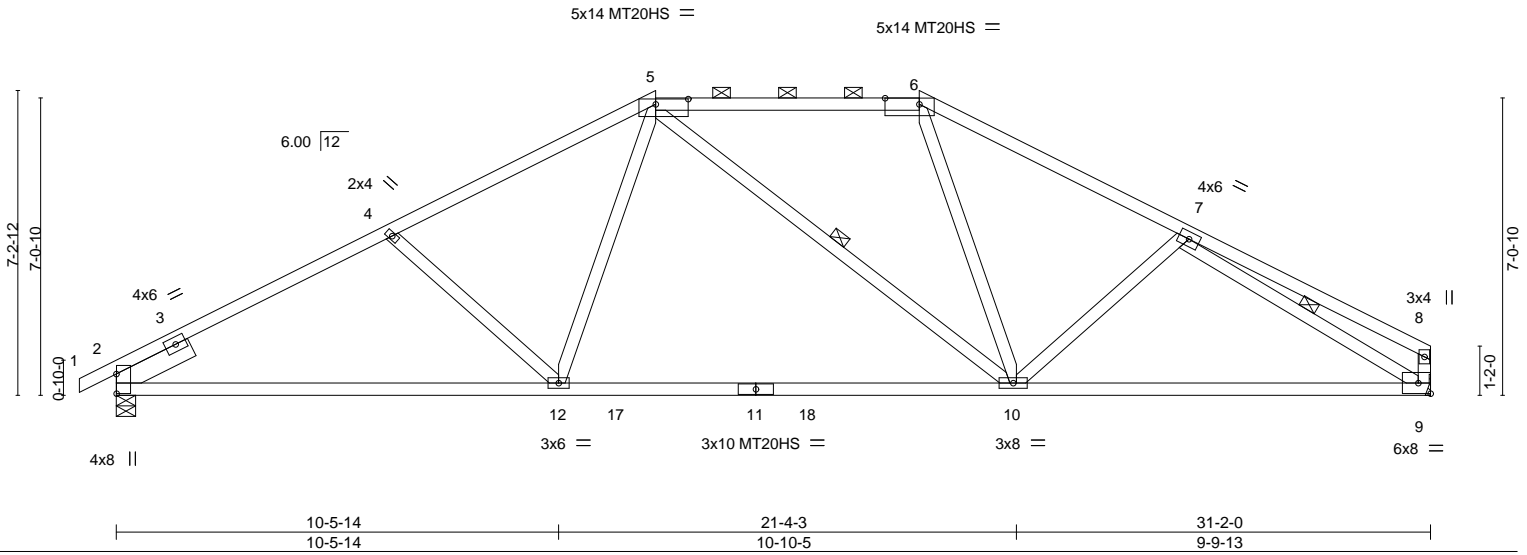
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:19 2019 Page 1

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Scale = 1:54.6



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.41	10-12	>905	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.67	10-12	>559	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.07	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.09	10-12	>999	240		
							Weight: 167 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-11 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 5-10, 7-9

REACTIONS. (lb/size) 2=1294/0-5-8, 9=1240/Mechanical
 Max Horz 2=148(LC 12)
 Max Uplift 2=-222(LC 12), 9=-191(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1980/667, 4-5=-1754/605, 5-6=-1346/573, 6-7=-1703/588, 7-8=-370/119, 8-9=-293/138
 BOT CHORD 2-12=-509/1697, 10-12=-298/1383, 9-10=-468/1554
 WEBS 4-12=-273/264, 5-12=-51/488, 6-10=-39/450, 7-9=-1546/526

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=222, 9=191.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

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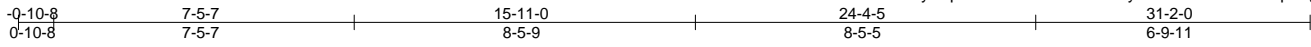
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss C29	Truss Type Common	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810644
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:21 2019 Page 1

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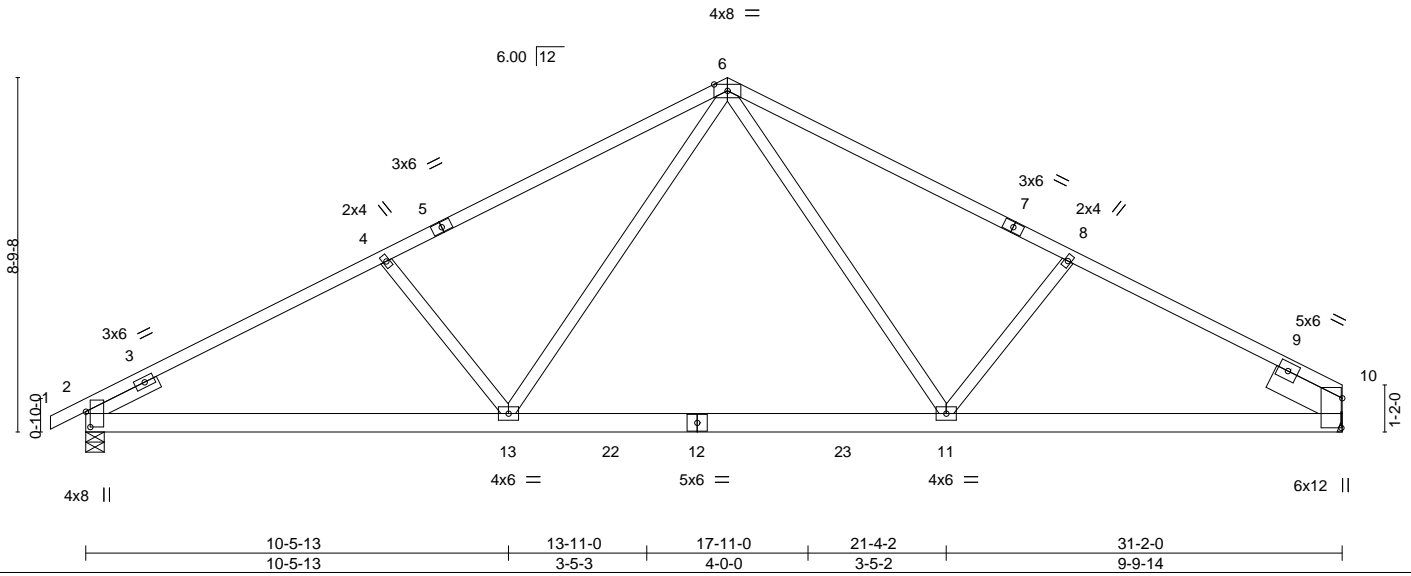


Plate Offsets (X,Y)-- [2:0-4-9,0-1-5], [10:0-8-13,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.27 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.45 11-13	>826	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.12 11-13	>999	240		
								Weight: 179 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
1-5,7-10: 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(lb/size) 2=1300/0-5-8, 10=1246/Mechanical
Max Horz 2=178(LC 12)
Max Uplift 2=-248(LC 12), 10=-219(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2032/702, 4-6=-1802/683, 6-8=-1707/654, 8-10=-1910/666
BOT CHORD 2-13=-532/1755, 11-13=-226/1166, 10-11=-490/1635
WEBS 4-13=-431/349, 6-13=-177/694, 6-11=-134/570, 8-11=-376/322

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 10=219.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



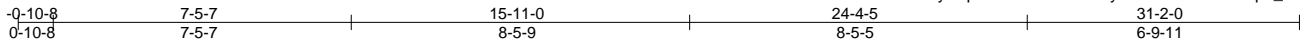
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C30	Truss Type Common	Qty 3	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810645
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:22 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-JaT6x6A3Z3FIJy08RnPdrHroCctn8p2_2u2Dcyzajs3



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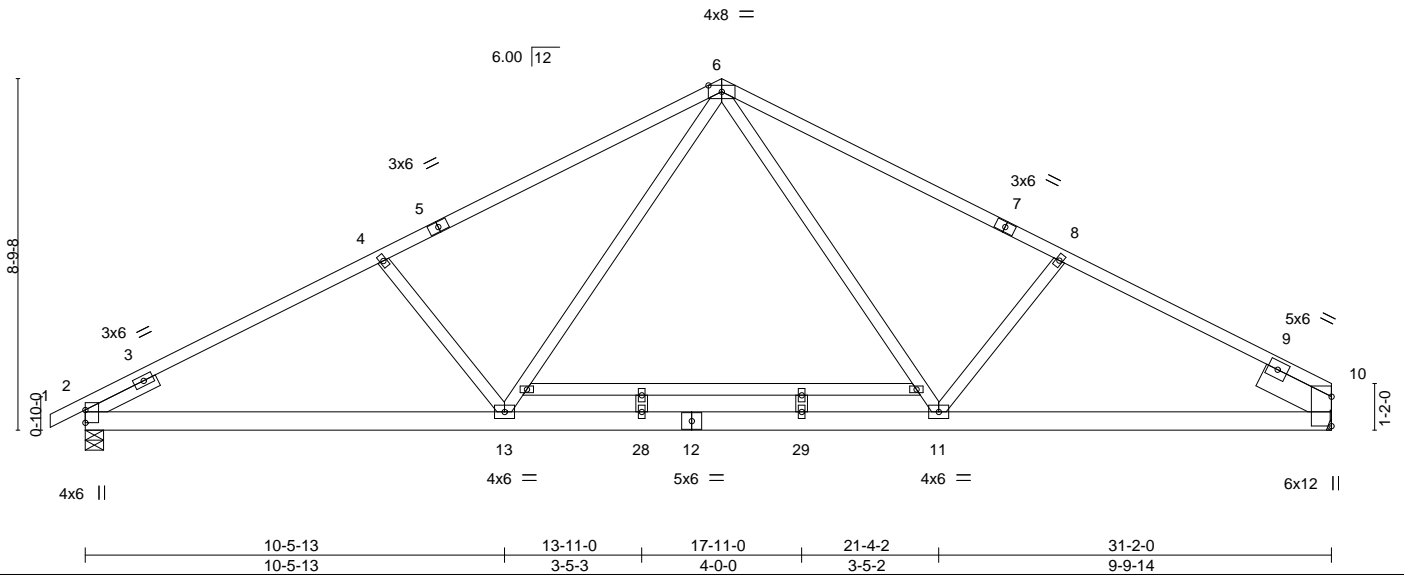


Plate Offsets (X,Y)-- [10:Edge,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.14 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.50 11-13	>753	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11 11-13	>999	240		
								Weight: 195 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
1-5: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
14-15: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

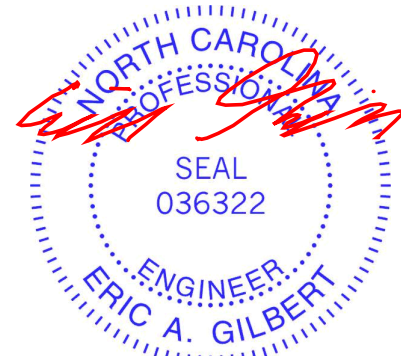
(lb/size) 2=1398/0-5-8, 10=1348/Mechanical
Max Horz 2=178(LC 12)
Max Uplift 2=-150(LC 12), 10=-117(LC 13)

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

TOP CHORD 2-4=-2254/480, 4-6=-2026/459, 6-8=-1927/438, 8-10=-2126/454
BOT CHORD 2-13=-340/1948, 11-13=-88/1304, 10-11=-309/1819
WEBS 4-13=-416/365, 6-13=-58/778, 6-11=-27/644, 8-11=-353/347

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 15-11-0 from left end, supported at two points, 4-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=150, 10=117.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



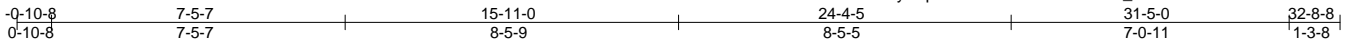
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss C31	Truss Type Common	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810646
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:23 2019 Page 1

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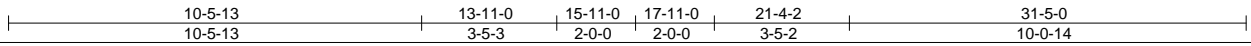
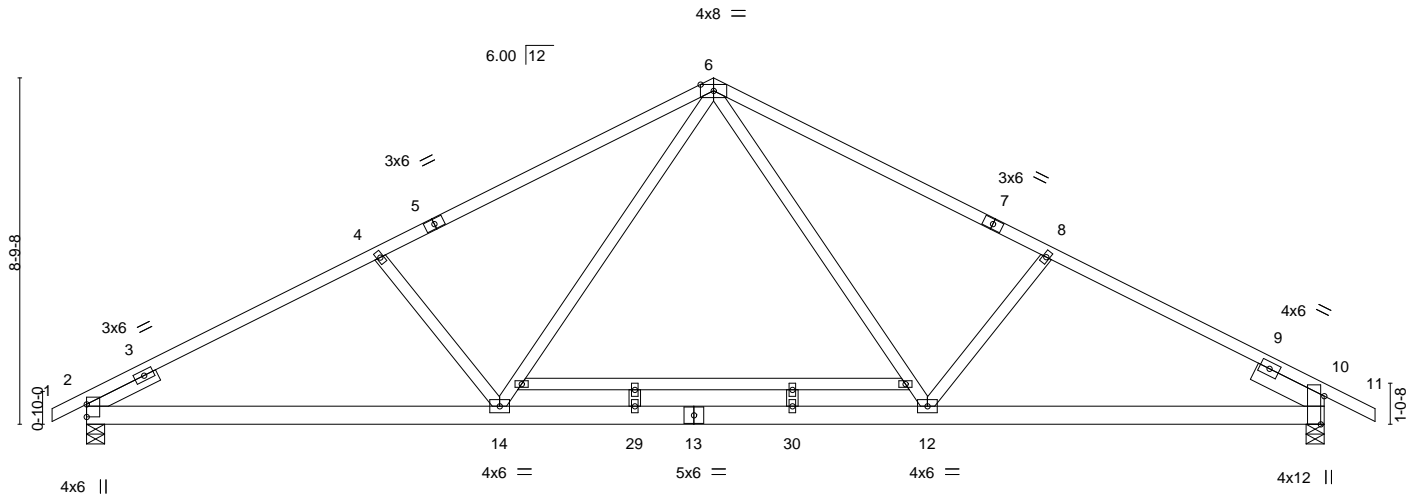


Plate Offsets (X, Y)-- [10-0-8-9, Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.99	Vert(LL)	-0.14 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.49 12-14	>775	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11 12-14	>999	240		
								Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
1-5,7-11: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
15-16: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

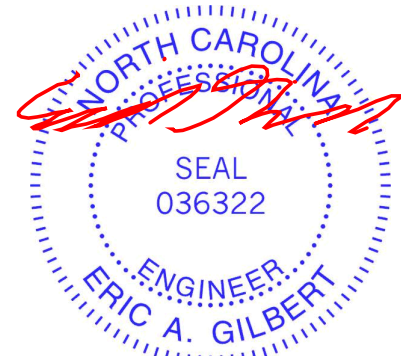
(lb/size) 2=1407/0-5-8, 10=1436/0-5-8
Max Horz 2=162(LC 12)
Max Uplift 2=-150(LC 12), 10=-155(LC 13)

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

TOP CHORD 2-4=-2271/483, 4-6=-2044/461, 6-8=-1974/447, 8-10=-2183/464
BOT CHORD 2-14=-307/1964, 12-14=-57/1322, 10-12=-286/1875
WEBS 4-14=-416/365, 6-14=-57/774, 6-12=-33/681, 8-12=-374/351

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 15-11-0 from left end, supported at two points, 4-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 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) except (jt=lb) 2=150, 10=155.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss CJ01	Truss Type DIAGONAL HIP GIRDER	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810648
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:24 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-GzbtMoBK5hVTYFAXYCR5wiwKEPKCcoZHVXCXKhqzajs1

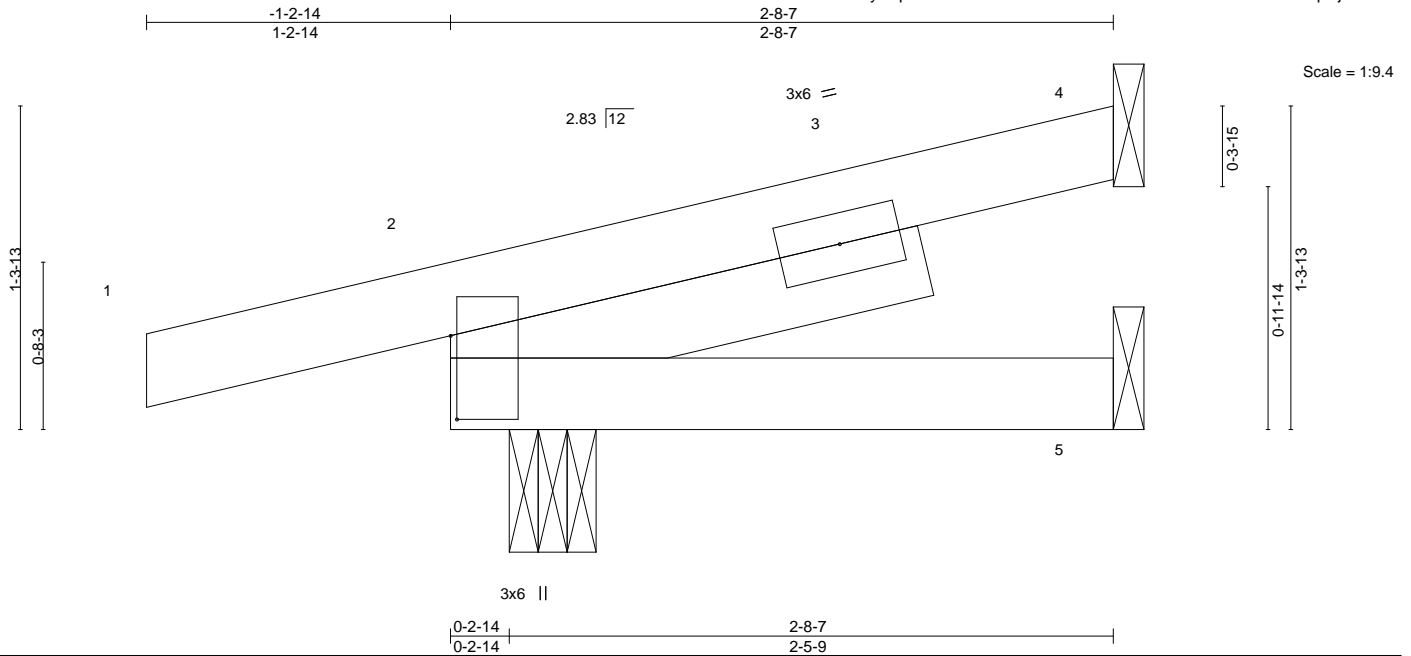


Plate Offsets (X,Y)-- [2:0-4-1,0-0-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.00	10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00	10	>999	240		
							Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-12

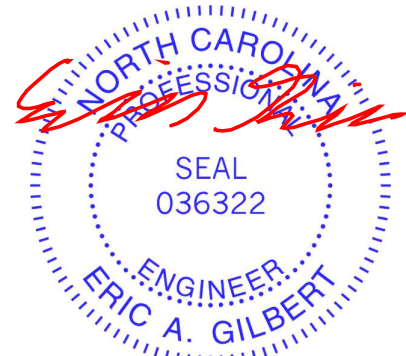
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=36/Mechanical, 5=15/Mechanical, 2=234/0-4-4
Max Horz 2=45(LC 8)
Max Uplift 4=24(LC 12), 5=10(LC 9), 2=140(LC 8)
Max Grav 4=36(LC 1), 5=33(LC 3), 2=234(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=140.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



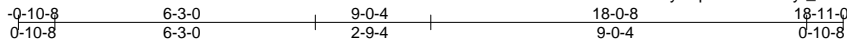
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss D01	Truss Type QUEENPOST	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810649
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:25 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-k99Fa8Cyr_dkAPij6vyKSwtJRp0FL9oRksHtDHzajs0



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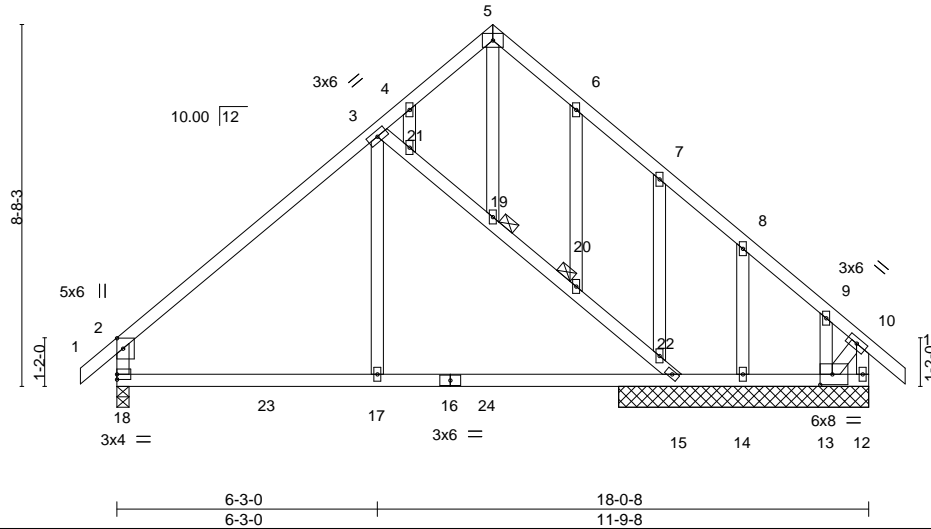


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [13:0-3-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.05	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.11	15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.01	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) -0.02	15-17	>999	240		
							Weight: 120 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS.

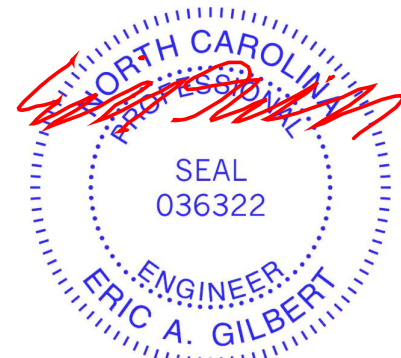
All bearings 6-0-0 except (jt=length) 18=0-3-8.
 (lb) - Max Horz 18=274(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 15=108(LC 12), 14=180(LC 13), 13=267(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 14, 13 except 18=660(LC 19), 15=580(LC 19), 12=425(LC 22)

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

TOP CHORD 2-3=630/102, 9-10=272/124, 2-18=586/182, 10-12=423/141
 BOT CHORD 17-18=94/531, 15-17=94/531, 14-15=151/256, 13-14=151/256
 WEBS 3-21=494/288, 19-21=463/226, 19-20=462/226, 20-22=464/237, 15-22=538/287,
 3-17=0/309, 10-13=158/310

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12 except (jt=lb) 15=108, 14=180, 13=267.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



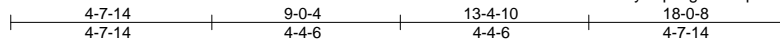
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss D02	Truss Type COMMON GIRDER	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810650
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:27 2019 Page 1

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4x6 ||

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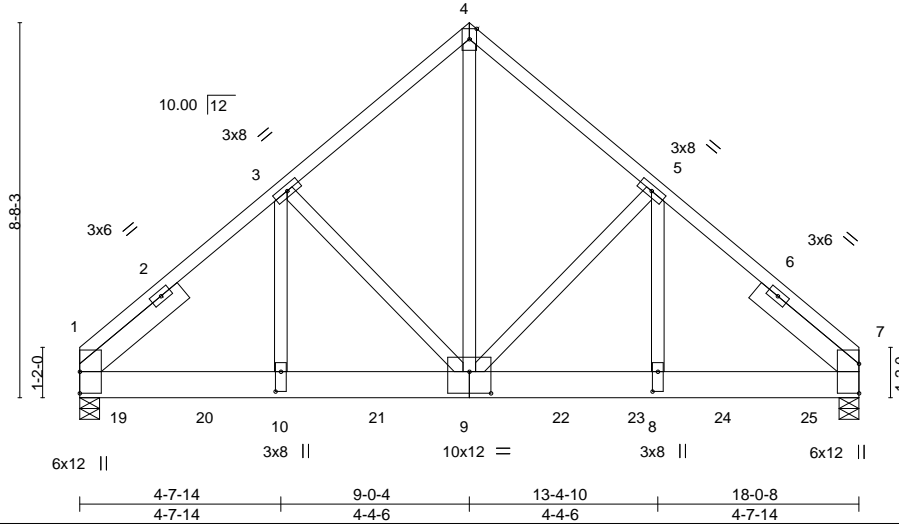


Plate Offsets (X,Y)-- [7:Edge,0-0-0], [8:0-5-8,0-1-8], [9:0-6-0,0-6-0], [10:0-5-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.09	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.18	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.88	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.04	9-10	>999		
								Weight: 293 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 3-0-10, Right 2x6 SP No.2 3-0-10

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 1=7869/0-5-8, 7=7706/0-5-8
 Max Horz 1=-214(LC 23)

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

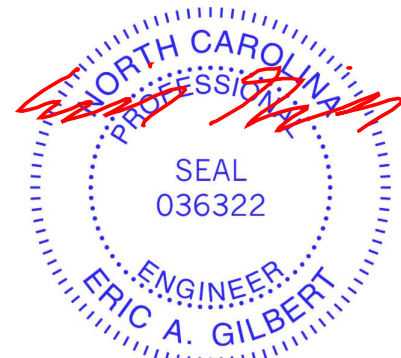
TOP CHORD 1-3=-7859/0, 3-4=-5927/0, 4-5=-5924/0, 5-7=-8087/0
 BOT CHORD 1-10=0/5910, 9-10=0/5910, 8-9=0/6077, 7-8=0/6077
 WEBS 4-9=0/7161, 5-9=-2254/0, 5-8=0/2970, 3-9=-2012/491, 3-10=-319/2636

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1548 lb down and 83 lb up at 0-11-0, 1547 lb down and 83 lb up at 2-11-0, 1547 lb down and 84 lb up at 4-11-0, 1531 lb down and 78 lb up at 6-11-0, 1627 lb down and 68 lb up at 8-11-0, 1651 lb down at 11-2-0, 1651 lb down at 12-11-0, and 1703 lb down at 14-11-0, and 1327 lb down at 16-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-7=-60, 11-15=-20
 Concentrated Loads (lb)
 Vert: 9=-1627(B) 10=-1547(B) 19=-1548(B) 20=-1547(B) 21=-1531(B) 22=-1651(B) 23=-1651(B) 24=-1703(B) 25=-1327(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss D03	Truss Type GABLE	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810651
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:28 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUBvNvpB-8kqNCAEq8v0u1TIn2V14Y5tM0zgYWrtQqVYpcajzj

0-10-8 6-3-0 9-0-4 18-0-8 18-11-0
0-10-8 6-3-0 2-9-4 9-0-4 0-10-8

4x6 ||

Scale = 1:66.2

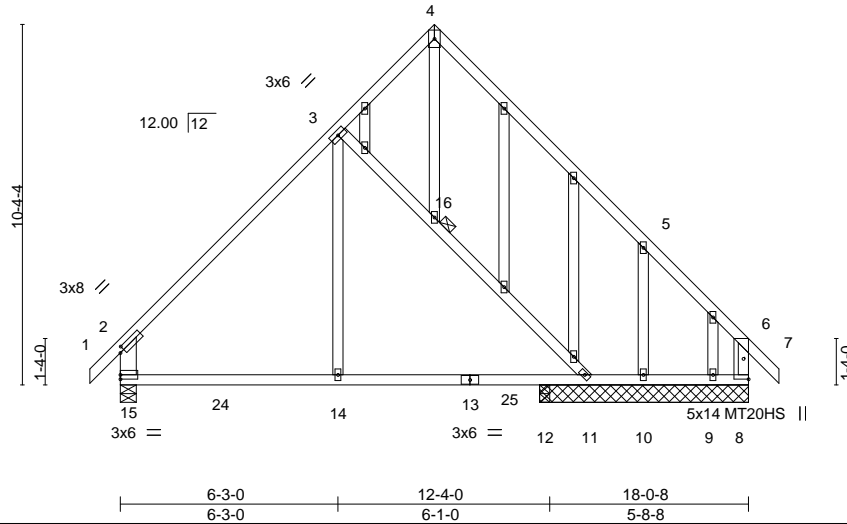


Plate Offsets (X,Y)-- [2:0-1-10,0-1-8], [6:0-1-12,0-1-12], [8:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.04	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.09	12-14	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.04	12-14	>999	240		Weight: 133 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	JOINTS 1 Brace at Jt(s): 16
OTHERS 2-15: 2x6 SP No.2, 3-14: 2x4 SP No.3	

REACTIONS. All bearings 6-0-0 except (jt=length) 15=0-5-8, 12=0-3-8.
 (lb) - Max Horz 15=-330(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 11=-243(LC 12), 10=-302(LC 13), 9=-322(LC 22)
 Max Grav All reactions 250 lb or less at joint(s) except 15=858(LC 19), 8=816(LC 22), 11=324(LC 19), 10=620(LC 20), 12=285(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-835/14, 3-4=-428/104, 4-5=-536/6, 5-6=-551/46, 2-15=-758/120, 6-8=-460/0
 BOT CHORD 14-15=-59/642, 12-14=-59/642, 11-12=-59/642, 10-11=-70/372, 9-10=-70/372, 8-9=-70/372
 WEBS 3-16=-513/300, 11-16=-505/295, 5-10=-613/401, 3-14=0/298

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 11, 302 lb uplift at joint 10 and 322 lb uplift at joint 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=-60, 2-3=-60, 3-4=-76(F=-16), 4-6=-76(F=-16), 6-7=-76(F=-16), 12-15=-20, 8-12=-36(F=-16), 3-11=-46(F)



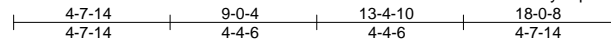
March 15, 2019

Job 1719437	Truss D04	Truss Type Common Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810652
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:29 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-cwOmpVFSvD8le12UL1Gdme7rQNkHsQ0fUF5L2zajy



4x6 ||

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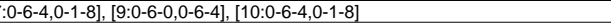
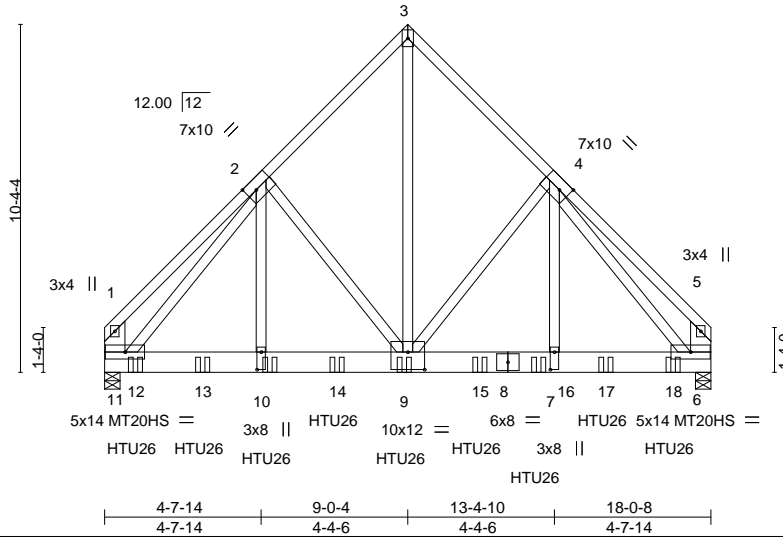


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-3-8,Edge], [7:0-6-4,0-1-8], [9:0-6-0,0-6-4], [10:0-6-4,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.06	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.13	7-9	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.79	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.04	7-9	>999		
								Weight: 334 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2 *Except*
 1-11,5-6: 2x8 SP DSS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 11=7698/0-5-8, 6=7288/0-5-8
 Max Horz 11=295(LC 24)
 Max Uplift 11=-335(LC 9), 6=-374(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2371/208, 2-3=-4859/393, 3-4=-4859/393, 4-5=-2310/227, 1-11=-1752/193, 5-6=-1709/206
 BOT CHORD 10-11=-273/4465, 9-10=-274/4493, 7-9=-181/4535, 6-7=-180/4506
 WEBS 3-9=-410/6460, 4-9=-1855/326, 4-7=-109/3120, 2-9=-1810/293, 2-10=-60/3082, 2-11=-4612/187, 4-6=-4748/196

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 11 and 374 lb uplift at joint 6.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 0-11-0 from the left end to 16-11-0 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss D04	Truss Type Common Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810652
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:29 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-cwOmpVFSvD8le12UL1Gdme7rQNKHsQ0fUF5L2zajry

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 9=-1531(B) 10=-1547(B) 12=-1547(B) 13=-1546(B) 14=-1531(B) 15=-1531(B) 16=-1531(B) 17=-1600(B) 18=-1227(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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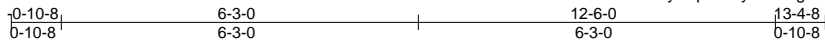
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss E01	Truss Type GABLE	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810653
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:30 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-46y8drG5gXGcGadhvTYV9zAKAqnU0UtAt8?etUzajrx



3x6 =

Scale = 1:40.3

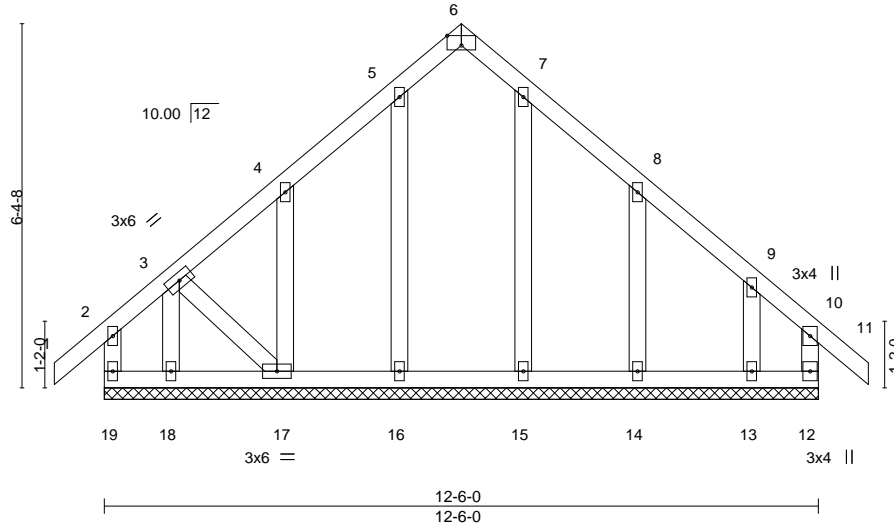


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL)	-0.00	11	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.00	11	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 82 lb	FT = 20%

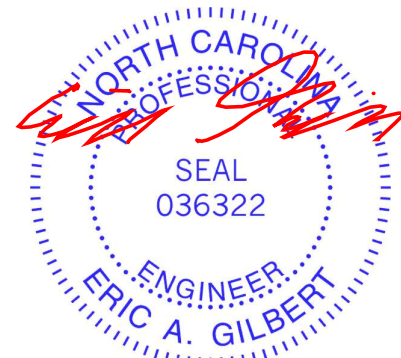
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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, Except: 6-0-0 oc bracing: 18-19,17-18.

REACTIONS. All bearings 12-6-0.
 (lb) - Max Horz 19=-208(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 16, 18 except 17=-239(LC 12), 14=-122(LC 13), 13=-210(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 19, 12, 16, 18 except (jt=lb) 17=239, 14=122, 13=210.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



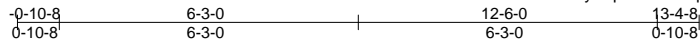
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss E02	Truss Type Common Supported Gable	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810654
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

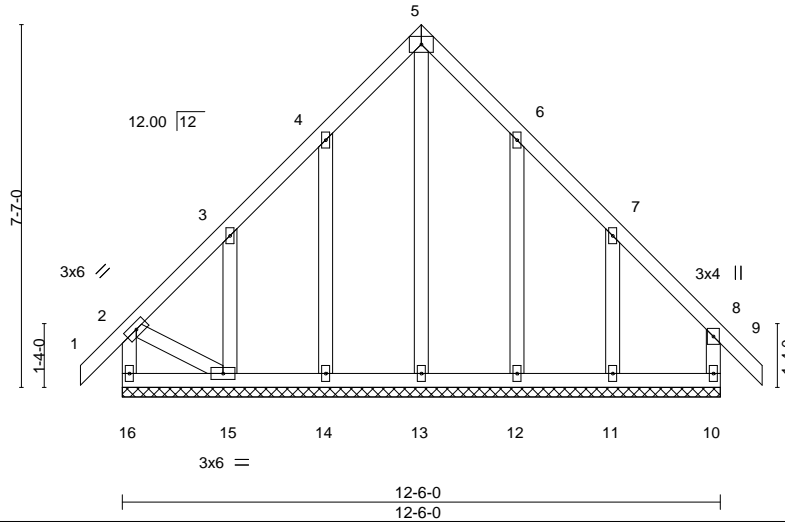
8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:31 2019 Page 1

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4x6 =

Scale: 1/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	9	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 89 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-15: 2x4 SP No.3
 OTHERS 2x4 SP No.3

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, Except: 6-0-0 oc bracing: 15-16.

REACTIONS.

All bearings 12-6-0.
 (lb) - Max Horz 16=249(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 13 except 16=-208(LC 8), 14=-129(LC 12), 15=-208(LC 12), 12=-110(LC 13), 11=-193(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 10, 14, 12, 11 except 16=289(LC 20), 13=354(LC 13), 15=264(LC 19)

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

TOP CHORD 2-16=-269/216, 4-5=-268/309, 5-6=-268/308
 WEBS 5-13=-355/245

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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 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) 10, 13 except (jt=lb) 16=208, 14=129, 15=208, 12=110, 11=193.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



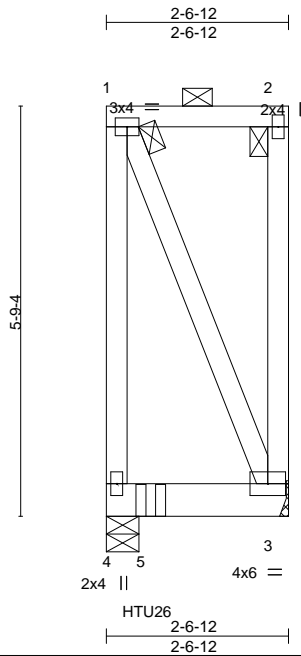
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss FG01	Truss Type Flat Girder	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810655
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:32 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-1V4u2XHLc8WKVUn30uazFOGiPeLpUPXTLSUlyNzajrv



Scale = 1:32.4

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.10	Vert(LL) -0.01	-0.01	3-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.52	Vert(CT) -0.01	-0.01	3-4	>999	240		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.00	Horz(CT) 0.00	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL) 0.00	0.00	3-4	>999	240	Weight: 33 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=1073/0-5-8, 3=353/Mechanical
 Max Uplift 4=-144(LC 4), 3=-55(LC 4)

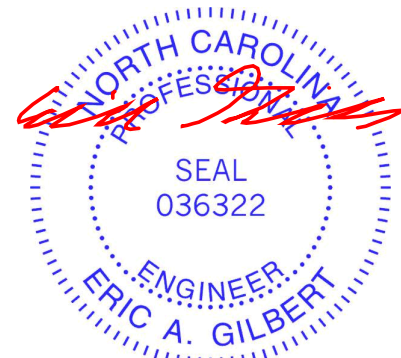
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 100 lb uplift at joint(s) 3 except (jt=lb) 4=144.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 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=-60, 3-4=-20
 Concentrated Loads (lb)
 Vert: 5=-1245(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss H01	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810656
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:33 2019 Page 1

ID:PFhEEkZm06?Kz1KM4J4YUBvNvpB-VheGFtzzSeB7eMFab5CncjZ1gwDhVcZ6DJUpzajru



Scale = 1:22.1

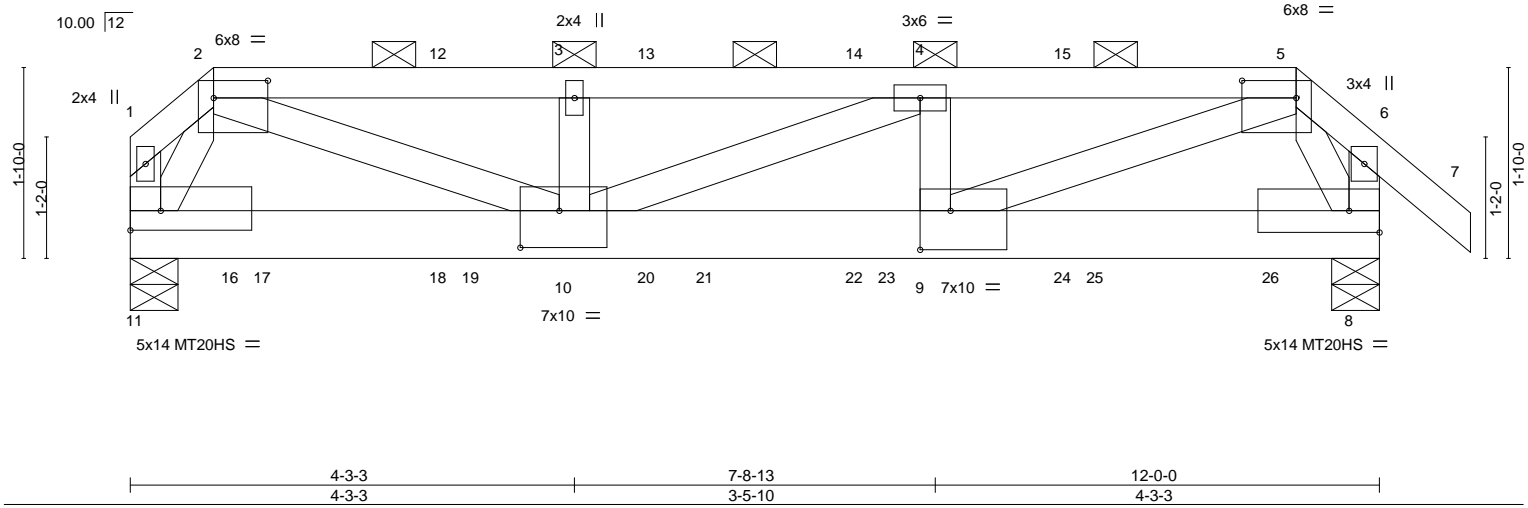


Plate Offsets (X,Y)-- [2:0-6-4,0-2-0], [5:0-6-4,0-2-0], [9:0-3-8,0-4-8], [10:0-4-8,0-4-4], [11:Edge,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.11	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.22	9-10	>628	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.02	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.08	9-10	>999	240		
									Weight: 145 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP DSS
 WEBS 2x4 SP No.2 *Except*
 2-10,5-9: 2x4 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-0 max.): 2-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=4486/0-5-8, 11=4914/0-5-8
 Max Horz 11=-69(LC 23)
 Max Uplift 8=-288(LC 4), 11=-273(LC 5)
 Max Grav 8=4486(LC 1), 11=4916(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1177/65, 2-3=-9636/505, 3-4=-9636/505, 4-5=-10024/558, 5-6=-1096/94,
 1-11=-829/41, 6-8=-882/107
 BOT CHORD 10-11=-153/1998, 9-10=-559/10024, 8-9=-146/1982
 WEBS 2-10=-404/8286, 4-10=-423/65, 4-9=-92/280, 5-9=-448/8729, 2-11=-2836/231,
 5-8=-3019/231

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 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) except (it=lb) 8=288, 11=273.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss H01	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810656
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:33 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-VheGFtzzSeB7eMFab5CncjZ1gwDhVcZ6DJUpzajru

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 34 lb up at 0-9-10, 17 lb down and 34 lb up at 3-0-12, 17 lb down and 34 lb up at 5-0-12, 17 lb down and 34 lb up at 7-0-12, and 17 lb down and 34 lb up at 9-0-12, and 16 lb down and 35 lb up at 11-2-6 on top chord, and 8 lb down and 1 lb up at 1-0-12, 1531 lb down and 78 lb up at 1-4-8, 7 lb down and 1 lb up at 3-0-12, 1627 lb down and 64 lb up at 3-4-8, 7 lb down and 1 lb up at 5-0-12, 1611 lb down and 31 lb up at 5-7-8, 7 lb down and 1 lb up at 7-0-12, 1611 lb down and 31 lb up at 7-4-8, 7 lb down and 1 lb up at 9-0-12, and 2028 lb down and 153 lb up at 9-4-8, and 9 lb down and 1 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-6=-60, 6-7=-60, 8-11=-20

Concentrated Loads (lb)

Vert: 16=1(B) 17=-1531(F) 18=1(B) 19=-1627(F) 20=1(B) 21=-1611(F) 22=1(B) 23=-1611(F) 24=1(B) 25=-2028(F) 26=1(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss H02	Truss Type HIP GIRDER	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810657
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:35 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-R4m1gZKDV3uvMyWeh07gs1u6XrM9hcev1PiPZizajrs

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-8=-60, 13-17=-20

Concentrated Loads (lb)

Vert: 12=-1540(F=-1540, B=1) 10=-1620(F=-1621, B=1) 9=1(B) 24=-1636(F=-1637, B=1) 25=1(B) 26=-1621(F) 27=-2022(F=-2023, B=1)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss H03	Truss Type Hip Girder	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810658
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:36 2019 Page 1
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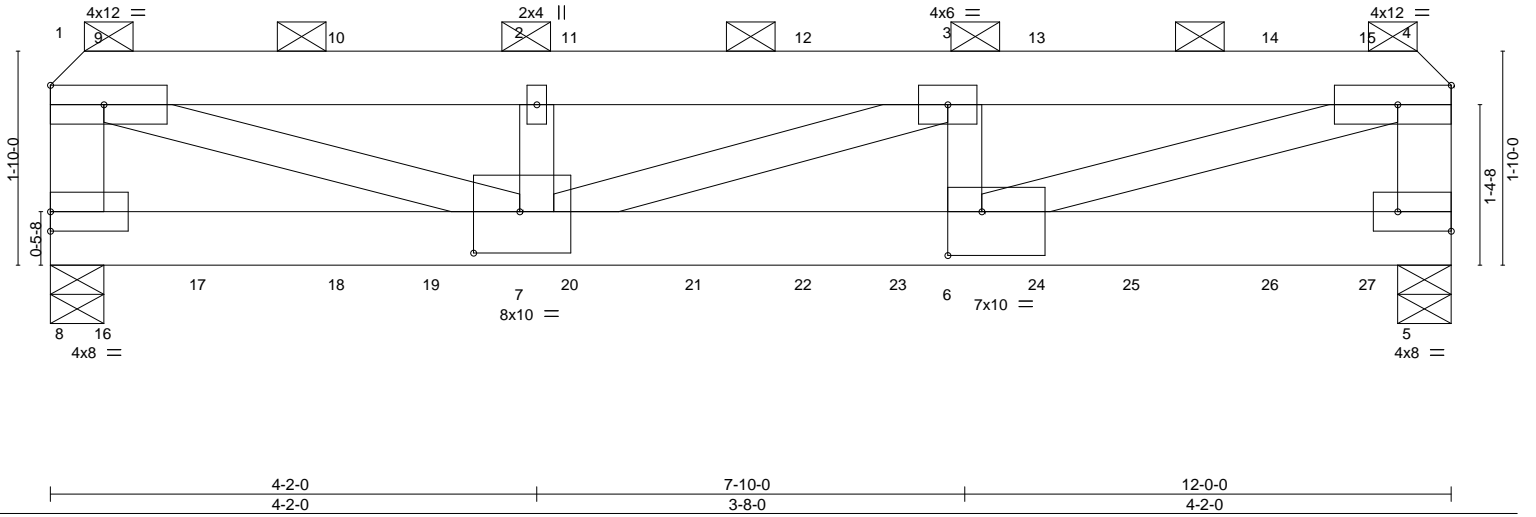
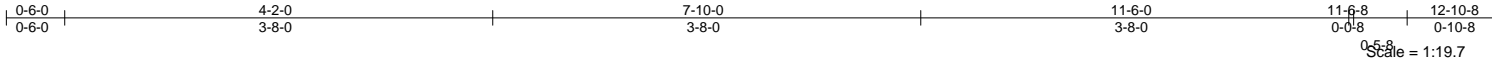


Plate Offsets (X,Y)-- [4:0-5-8,Edge], [5:Edge,0-2-0], [6:0-3-8,0-4-8], [7:0-4-12,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.11	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.23	6-7	>613		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.12	6-7	>999		
								Weight: 158 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP DSS
 WEBS 2x4 SP No.2 *Except*
 1-7,4-6: 2x4 SP No.1, 1-8,4-5: 2x6 SP No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (4-3-6 max.): 1-4, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

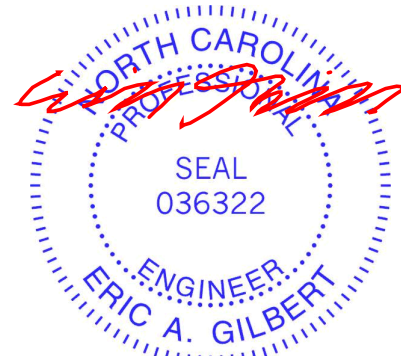
REACTIONS. (lb/size) 8=4993/0-5-8, 5=4524/0-5-8
 Max Horz 8=57(LC 22)
 Max Uplift 8=988(LC 4), 5=1050(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-9680/1891, 2-3=-9680/1891, 3-4=-10078/2127, 1-8=-3401/709, 4-5=-3570/794
 BOT CHORD 7-8=-234/980, 6-7=-2142/10078, 5-6=-244/909
 WEBS 1-7=-1800/9215, 3-7=-425/261, 3-6=-145/354, 4-6=-2011/9712

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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) except (jt=lb) 8=988, 5=1050.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 21 lb up at 0-6-12, 17 lb down and 15 lb up at 2-6-12, 17 lb down and 15 lb up at 4-6-12, 17 lb down and 15 lb up at 6-6-12, 17 lb down and 15 lb up at 8-6-12, and 17 lb down and 15 lb up at 10-6-12, and 19 lb down and 25 lb up at 11-4-12 on top chord, and 11 lb down at 0-6-12, 1580 lb down and 306 lb up at 1-4-8, 7 lb down and 1 lb up at 2-6-12, 1580 lb down and 290 lb up at 3-4-8, 7 lb down and 1 lb up at 4-6-12, 1664 lb down and 280 lb up at 5-7-8, 7 lb down and 1 lb up at 6-6-12, 1664 lb down and 264 lb up at 7-4-8, 7 lb down and 1 lb up at 8-6-12, 2101 lb down and 660 lb up at 9-4-8, and 7 lb down and 1 lb up at 10-6-12, and 11 lb down at 11-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss H03	Truss Type Hip Girder	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810658
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:36 2019 Page 2
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-vGJptvKrGN0m_55qFjvPEQGfFhgQ1z2G3Sz58zajrr

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 9=-1(B) 15=-1(B) 16=-3(B) 17=-1580(F) 18=1(B) 19=-1580(F) 20=1(B) 21=-1664(F) 22=1(B) 23=-1664(F) 24=1(B) 25=-2101(F) 26=1(B) 27=-2(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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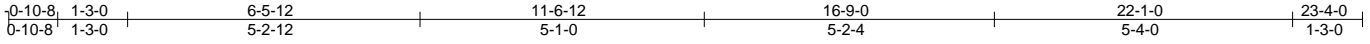
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss H04	Truss Type HIP GIRDER	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810659
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:39 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-Jr?YwWnkYOKrZpPwsCc1t2jDSdFdLEVy1gdiTzajro



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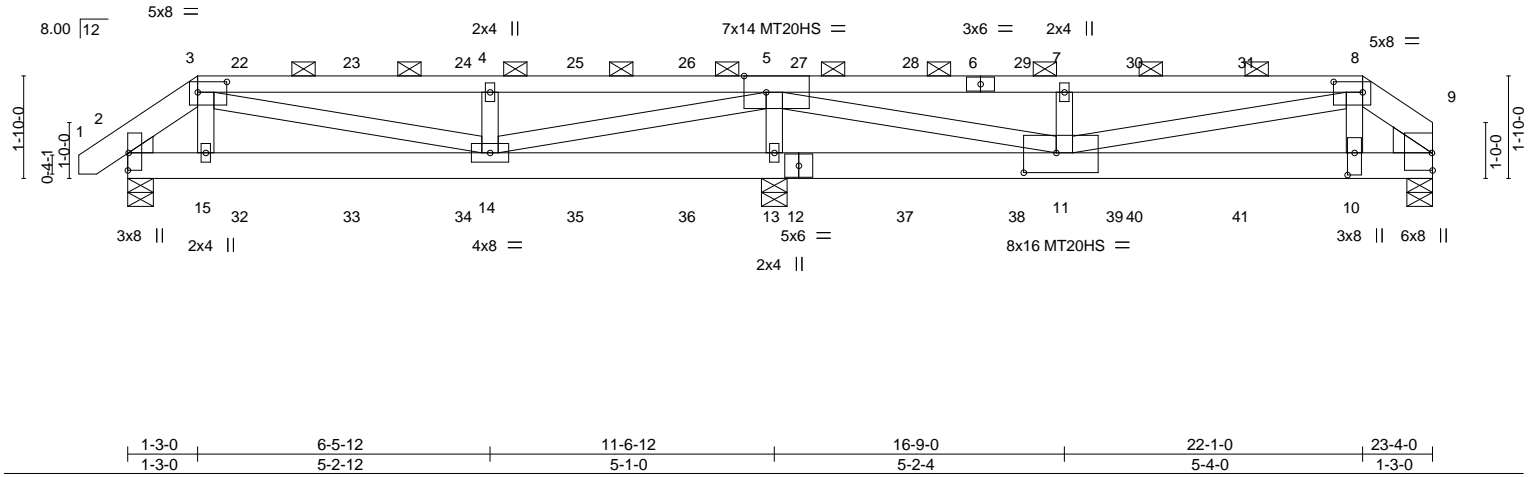


Plate Offsets (X,Y)-- [2:Edge,0-0-3], [2:0-0-2,0-3-11], [2:0-0-1,0-0-1], [3:0-6-4,0-2-4], [5:0-4-12,Edge], [8:0-6-4,0-2-4], [9:Edge,0-0-3], [9:0-0-2,0-3-11], [9:0-0-1,0-0-1], [10:0-4-12,0-1-8], [11:0-7-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.14	10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.28	10-11	>513	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT) -0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.10	10-11	>999	240		
							Weight: 272 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
3-6: 2x4 SP No.2, 6-8: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
9-12: 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
5-11,8-11: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.3, Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins, except 2-0-0 oc purlins (3-8-2 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 2=5/0-5-8, 13=5725/0-5-8, 9=4253/0-5-8
Max Horz 2=37(LC 31)
Max Uplift 2=-232(LC 24), 13=-564(LC 5), 9=-285(LC 4)
Max Grav 2=265(LC 15), 13=5725(LC 1), 9=4253(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-283/273, 3-4=-271/1418, 4-5=-271/1418, 5-7=-8486/594, 7-8=-8486/594, 8-9=-6347/414
BOT CHORD 13-14=-2707/257, 11-13=-2707/257, 10-11=-312/4823, 9-10=-304/4497
WEBS 3-14=-1485/128, 4-14=-284/180, 5-14=-300/1347, 5-13=-3953/492, 5-11=-859/11626, 8-11=-279/3804, 8-10=-102/3278

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 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) except (jt=lb) 2=232, 13=564, 9=285.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss H04	Truss Type HIP GIRDER	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810659
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:39 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-Jr?YWwNkYIOkrZpPwsCc12jDSdFdLEVy1gdiTzajro

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 34 lb up at 2-0-12, 17 lb down and 34 lb up at 4-0-12, 17 lb down and 34 lb up at 6-0-12, 17 lb down and 34 lb up at 8-0-12, 17 lb down and 34 lb up at 10-0-12, 17 lb down and 34 lb up at 12-0-12, 17 lb down and 34 lb up at 14-0-12, 17 lb down and 34 lb up at 16-0-12, 17 lb down and 34 lb up at 18-0-12, and 17 lb down and 34 lb up at 20-0-12, and 17 lb down and 37 lb up at 22-1-0 on top chord, and 7 lb down and 1 lb up at 2-0-12, 7 lb down and 1 lb up at 4-0-12, 7 lb down and 1 lb up at 6-0-12, 7 lb down and 1 lb up at 8-0-12, 7 lb down and 1 lb up at 10-0-12, 7 lb down and 1 lb up at 12-0-12, 1826 lb down and 138 lb up at 13-11-8, 7 lb down and 1 lb up at 14-0-12, 1537 lb down and 84 lb up at 15-11-8, 7 lb down and 1 lb up at 16-0-12, 1540 lb down and 84 lb up at 17-8-8, 7 lb down and 1 lb up at 18-0-12, 1637 lb down and 89 lb up at 19-11-8, 7 lb down and 1 lb up at 20-0-12, and 1540 lb down and 84 lb up at 21-11-8, and 7 lb down and 1 lb up at 22-0-4 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: 1-3=-60, 3-8=-60, 8-9=-60, 16-19=-20

Concentrated Loads (lb)

Vert: 12=1(F) 10=-1540(F=1, B=-1540) 32=1(F) 33=1(F) 34=1(F) 35=1(F) 36=1(F) 37=-1825(F=1, B=-1826) 38=-1537(F=1, B=-1537) 39=-1540(B) 40=1(F) 41=-1636(F=1, B=-1637)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



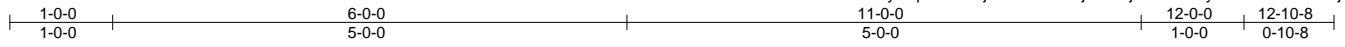
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss H05	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810660
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:40 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-o2ZwjGOMJbWBTjOcUzjrZ4bwcs?yMtMeAhQAQAEvzajrn



Scale = 1:22.4

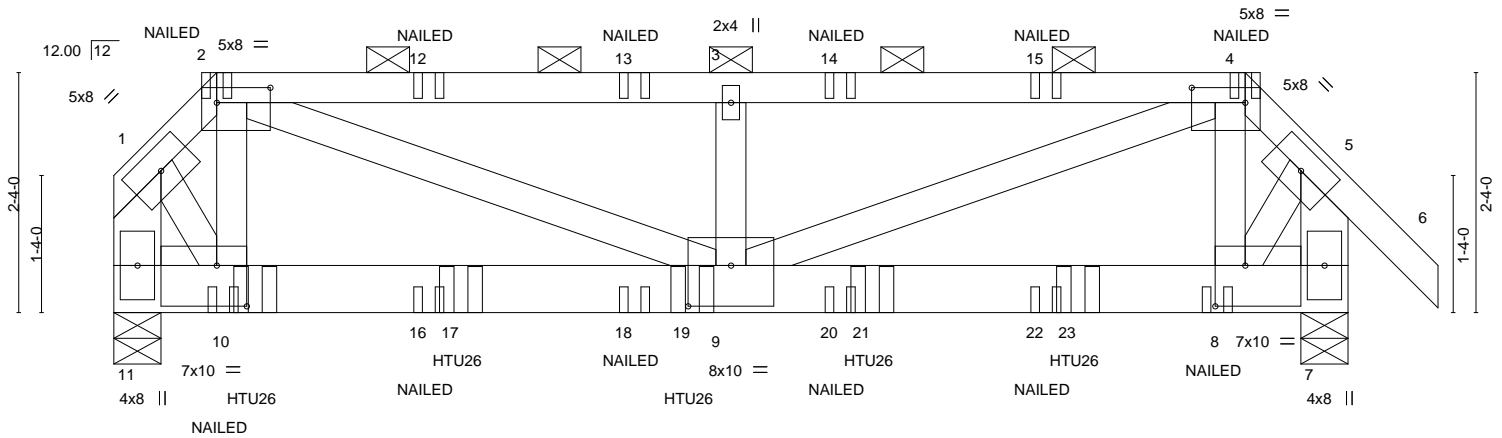


Plate Offsets (X,Y)-- [2:0-6-4,0-1-12], [4:0-6-4,0-1-12], [8:0-3-8,0-4-12], [9:0-5-0,0-4-12], [10:0-3-8,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.09	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.18	8-9	>776		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.65	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.08	8-9	>999		
								Weight: 158 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-11,5-7: 2x6 SP No.2

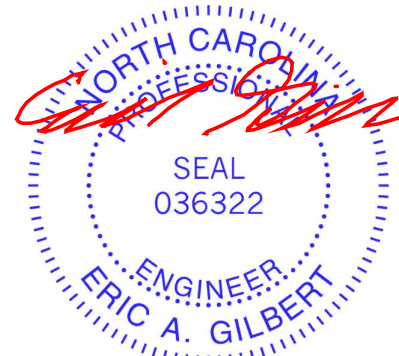
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-8 max.): 2-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 11=4757/0-5-8, 7=4177/0-5-8
 Max Horz 11=-91(LC 6)
 Max Uplift 11=-514(LC 4), 7=-755(LC 4)
 Max Grav 11=4758(LC 19), 7=4177(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3805/391, 2-3=-7618/1039, 3-4=-7618/1039, 4-5=-3876/758, 1-11=-5778/570,
 5-7=-6050/1149
 BOT CHORD 9-10=-299/2679, 8-9=-546/2727
 WEBS 2-10=0/667, 2-9=-833/5304, 3-9=-252/215, 4-9=-540/5257, 4-8=-288/689,
 1-10=-423/3901, 5-8=-814/4084

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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) except (jt=lb) 11=514, 7=755.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 1-4-8 from the left end to 9-4-8 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
 Continued on page 2



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss H05	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810660
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:40 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-o2ZwjGOMJbWBTjOcUZjrZ4bwcs?yMtMeAhQAEVzajrn

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-5=-60, 5-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 10=-1530(F=-1531, B=1) 8=1(B) 16=1(B) 17=-1531(F) 18=1(B) 19=-1531(F) 20=1(B) 21=-1531(F) 22=1(B) 23=-1825(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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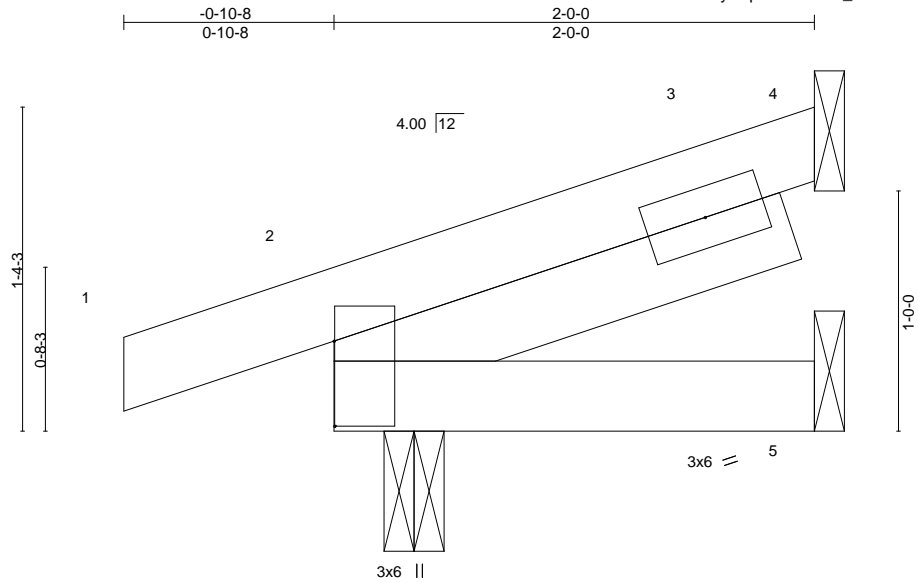
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J01	Truss Type JACK-OPEN	Qty 24	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810661
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:41 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-GE7IxcO_4ve24tzo2HE46I7FwGYW5UmnPL9kmlZajrm



Scale = 1:9.6

Plate Offsets (X,Y)-- [2:Edge,0-0-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	0.00	8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-

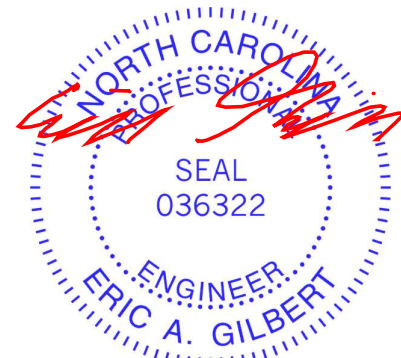
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=20/Mechanical, 4=48/Mechanical, 2=144/0-3-0
 Max Horz 2=47(LC 8)
 Max Uplift 5=-11(LC 8), 4=-33(LC 8), 2=-79(LC 8)
 Max Grav 5=29(LC 3), 4=48(LC 1), 2=144(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 4, 2.



March 15, 2019

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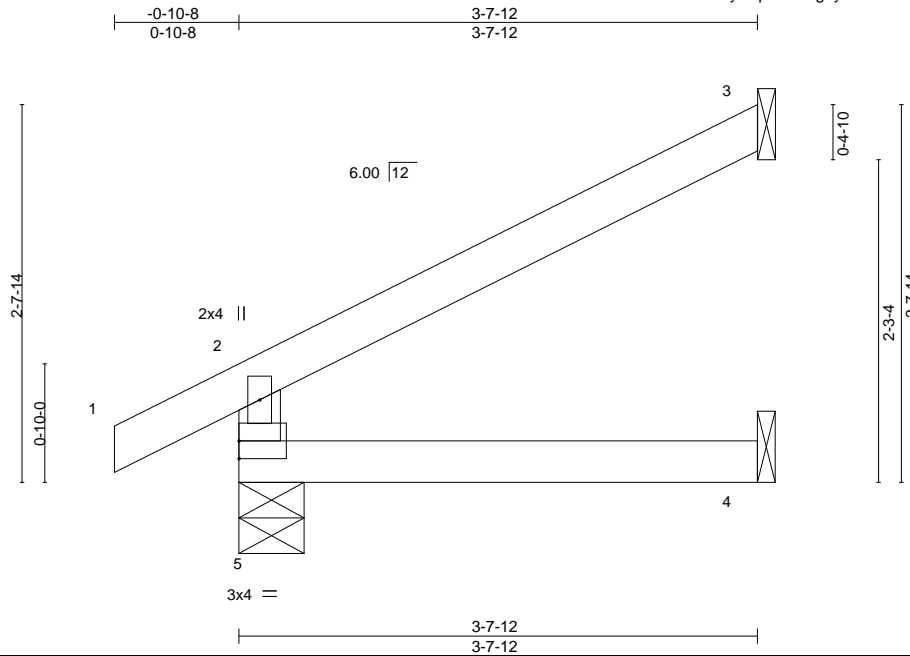
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J02	Truss Type JACK-OPEN	Qty 7	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810662
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:42 2019 Page 1

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Scale = 1:16.2

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.26	Vert(LL) -0.01	4-5	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.16	Vert(CT) -0.01	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 IRC2015/TPI2014		Matrix-MR	Wind(LL) 0.01	4-5	>999	240		Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=208/0-5-8, 3=90/Mechanical, 4=38/Mechanical
 Max Horz 5=87(LC 12)
 Max Uplift 5=-32(LC 12), 3=-70(LC 12)
 Max Grav 5=208(LC 1), 3=90(LC 1), 4=65(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 3.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J03	Truss Type HALF HIP GIRDER	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810663
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:42 2019 Page 1

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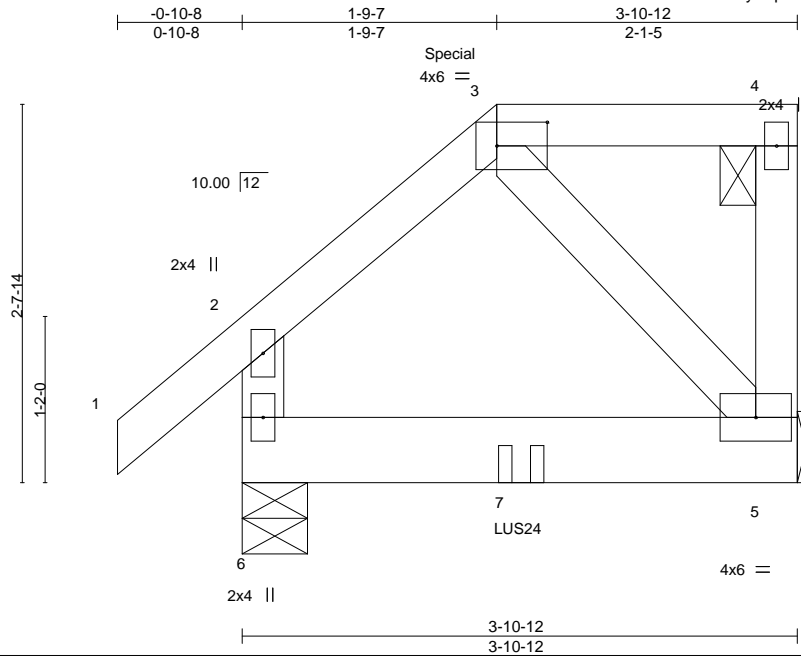


Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.00	5-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	-0.00	5-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL)	-0.00	5-6	>999	Weight: 25 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-6: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=240/0-5-8, 5=158/Mechanical
 Max Horz 6=82(LC 8)
 Max Uplift 6=-49(LC 8), 5=-65(LC 5)

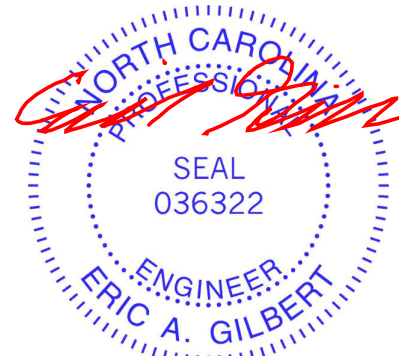
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 1-11-8 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb down and 77 lb up at 1-9-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 3=-30(B) 7=-18(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

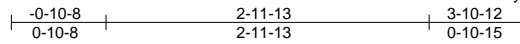
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J04	Truss Type HALF HIP	Qty 3	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810664
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:43 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-CdE2MIQEcvWmKA7A9hHYBiDY93DgZOP4tfeqrEzajrk



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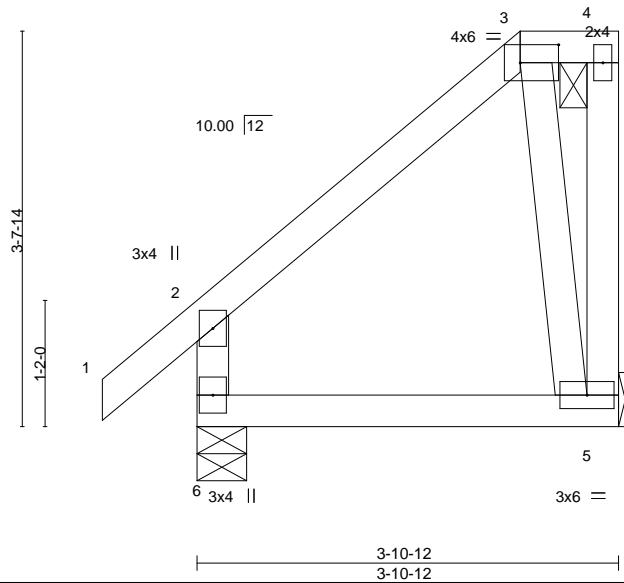


Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.01	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MS	Wind(LL)	0.01	5-6	>999	Weight: 25 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

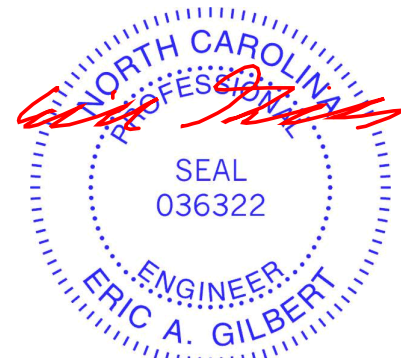
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=135/Mechanical, 6=214/0-5-8
 Max Horz 6=125(LC 12)
 Max Uplift 5=-87(LC 12)
 Max Grav 5=136(LC 19), 6=214(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

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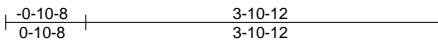
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J05	Truss Type JACK-OPEN	Qty 18	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810665
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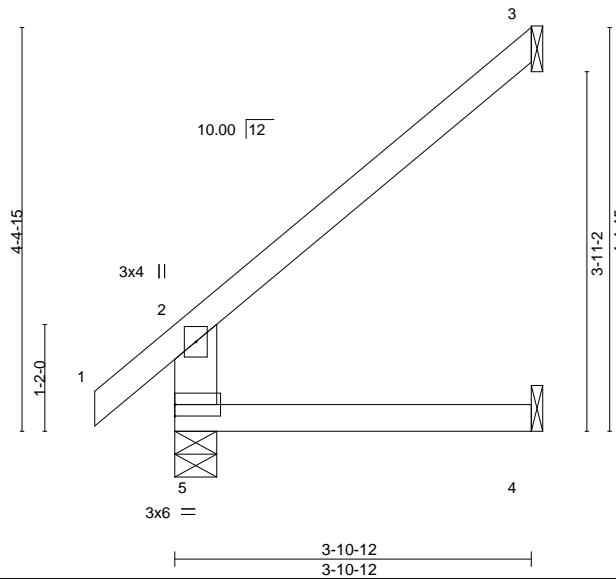
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:44 2019 Page 1

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Scale = 1:25.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	0.03	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.04	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=221/0-5-8, 3=93/Mechanical, 4=41/Mechanical
Max Horz 5=153(LC 12)
Max Uplift 3=-113(LC 12), 4=-16(LC 12)
Max Grav 5=221(LC 1), 3=116(LC 19), 4=68(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=113.



March 15, 2019

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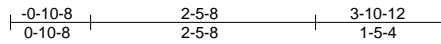
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J06	Truss Type JACK-OPEN	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810666
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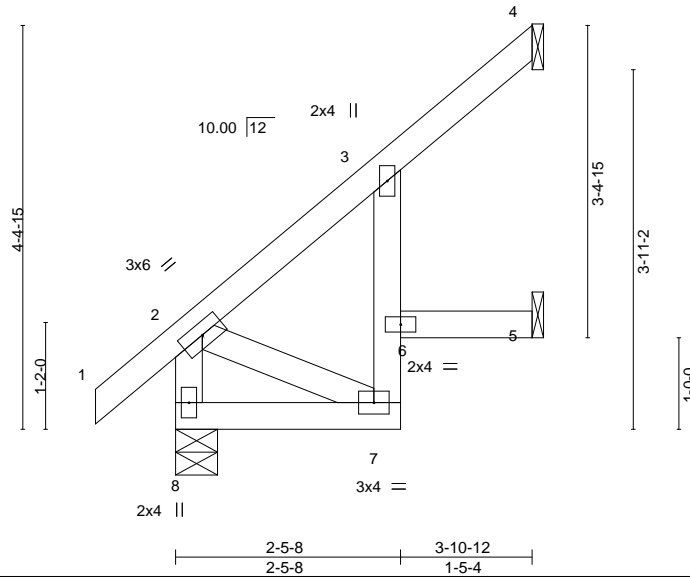
Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:44 2019 Page 1

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Scale = 1:25.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	0.07	7	>621	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.05	7	>900		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.03	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP					Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=217/0-5-8, 4=124/Mechanical, 5=15/Mechanical
Max Horz 8=154(LC 12)
Max Uplift 4=138(LC 12)
Max Grav 8=217(LC 1), 4=156(LC 19), 5=30(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) except (jt=lb) 4=138.



March 15, 2019

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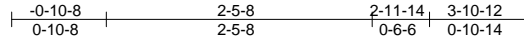
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J07	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810667
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:45 2019 Page 1

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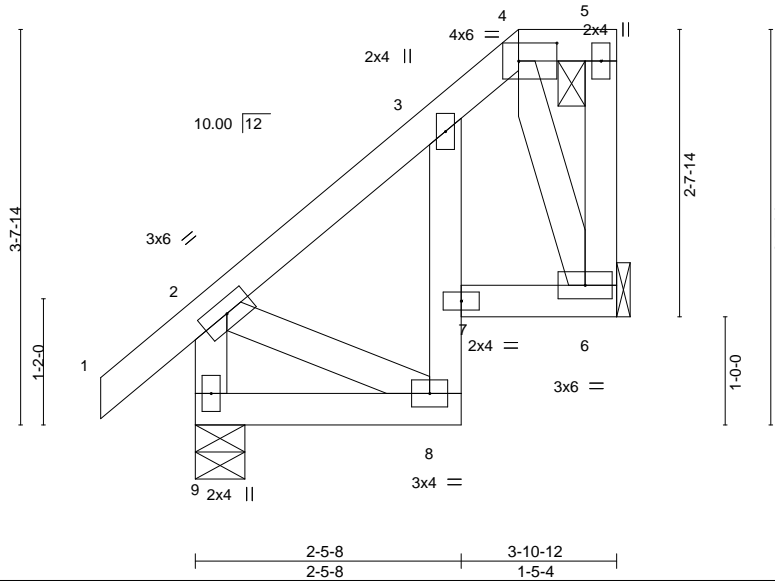


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	0.01	8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	-0.00	8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	-0.01	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 6=135/Mechanical, 9=214/0-5-8
 Max Horz 9=125(LC 12)
 Max Uplift 6=87(LC 12)
 Max Grav 6=136(LC 19), 9=214(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 100 lb uplift at joint(s) 6.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J08	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810668
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:46 2019 Page 1

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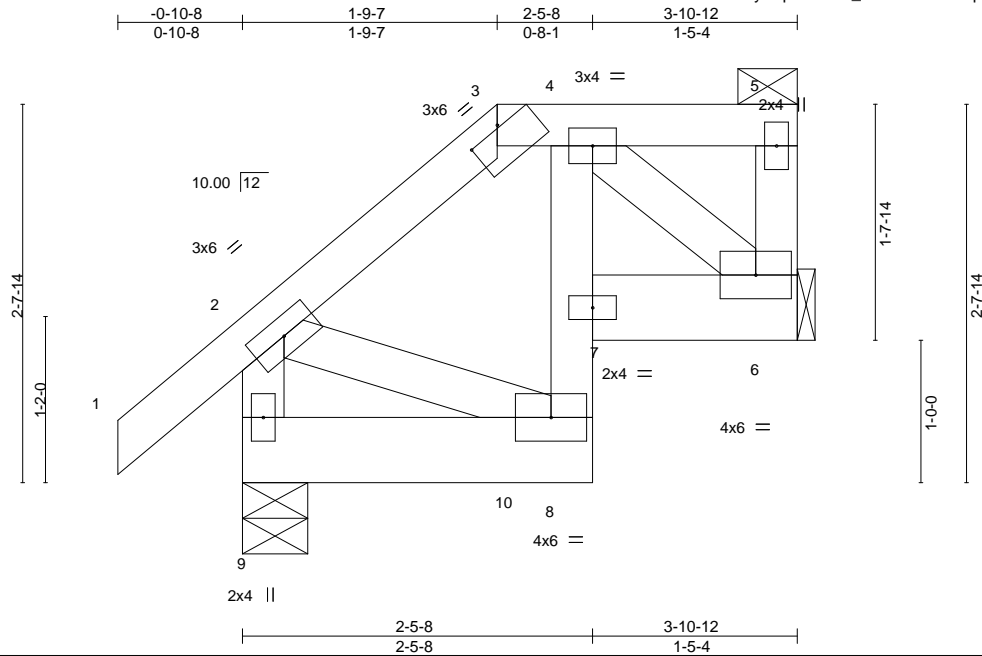


Plate Offsets (X,Y)-- [3:0-3-0,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	Vert(LL) -0.00	7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT) -0.00	8	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT) -0.00	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL) 0.00	8	>999	240		
	Code IRC2015/TPI2014						Weight: 28 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 4-8: 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-9: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=158/Mechanical, 9=240/0-5-8
 Max Horz 9=82(LC 8)
 Max Uplift 6=-65(LC 5), 9=-49(LC 8)

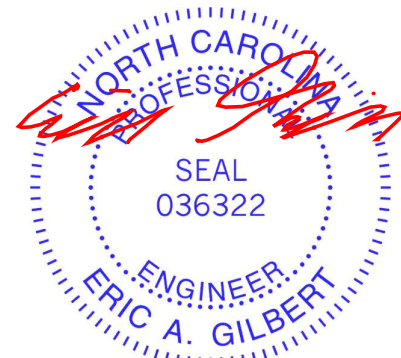
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 100 lb uplift at joint(s) 6, 9.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb down and 77 lb up at 1-9-7 on top chord, and 25 lb down at 1-11-8 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=-60, 2-3=-60, 3-5=-60, 8-9=-20, 6-7=-20
 Concentrated Loads (lb)
 Vert: 3=-30(B) 10=-18(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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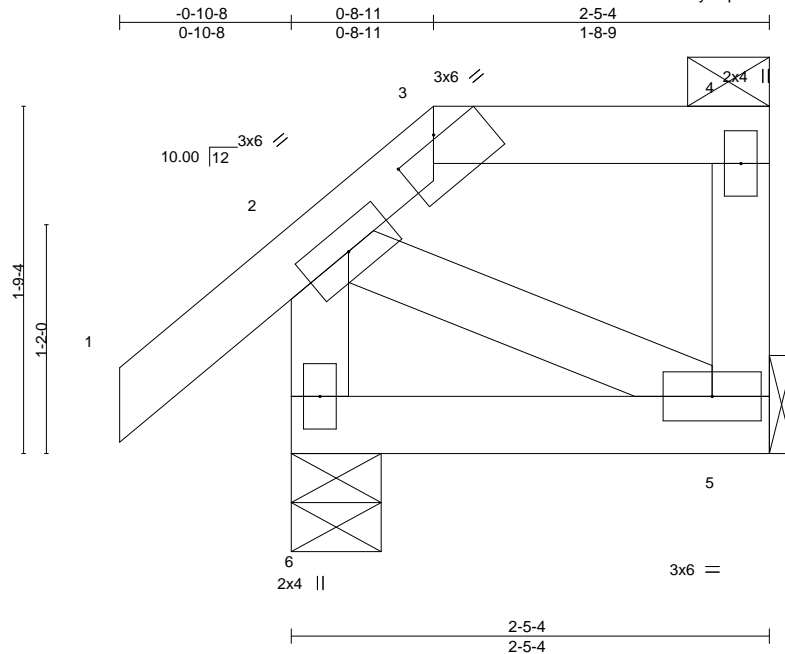
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J09	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810669
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:47 2019 Page 1

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Scale = 1:11.7

Plate Offsets (X,Y)-- [3:0-3-0,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL) -0.00	6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT) -0.00	5-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL) 0.00	6	>999	240		
	Code IRC2015/TPI2014						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=162/0-5-8, 5=71/Mechanical
 Max Horz 6=52(LC 9)
 Max Uplift 6=-26(LC 12), 5=-35(LC 9)
 Max Grav 6=162(LC 1), 5=78(LC 24)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



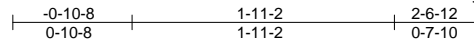
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J10	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810670
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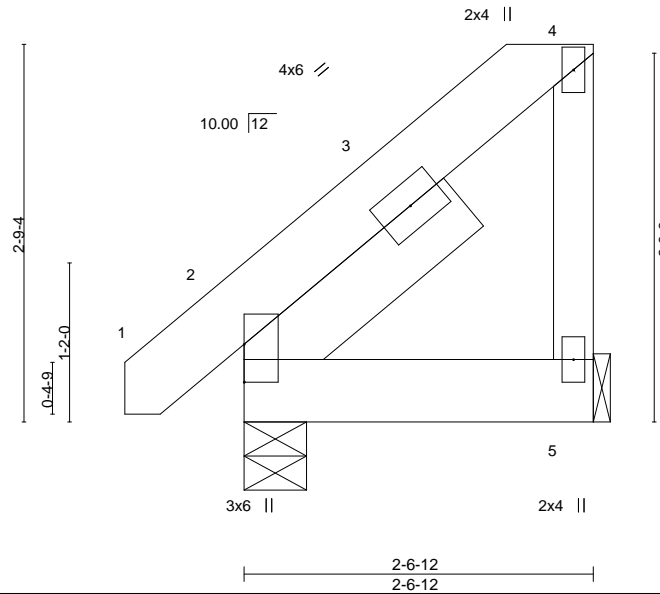
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:47 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-4OUZBFTIglPCooQyOXLULYNG?hbbVBFgnHc2_?zajrg



Scale = 1:16.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	0.00	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP					Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-11-12

BRACING-

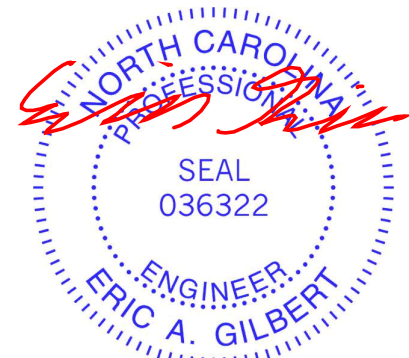
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=90/Mechanical, 2=148/0-5-8
 Max Horz 2=119(LC 11)
 Max Uplift 5=63(LC 9), 2=-14(LC 12)
 Max Grav 5=121(LC 19), 2=152(LC 20)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 100 lb uplift at joint(s) 5, 2.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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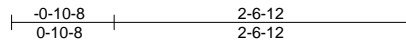
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J11	Truss Type Jack-Open	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810671
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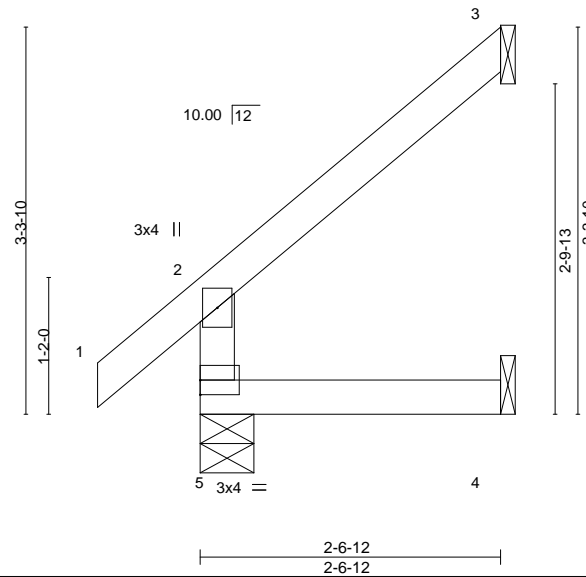
Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:48 2019 Page 1

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Scale = 1:19.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.01	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

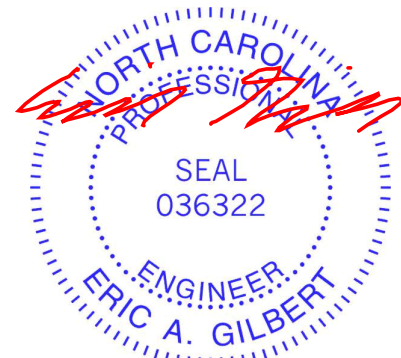
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=169/0-5-8, 3=57/Mechanical, 4=23/Mechanical
 Max Horz 5=105(LC 12)
 Max Uplift 3=-80(LC 12), 4=-14(LC 12)
 Max Grav 5=169(LC 1), 3=75(LC 19), 4=44(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 3, 4.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J12	Truss Type Jack-Closed Girder	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810672
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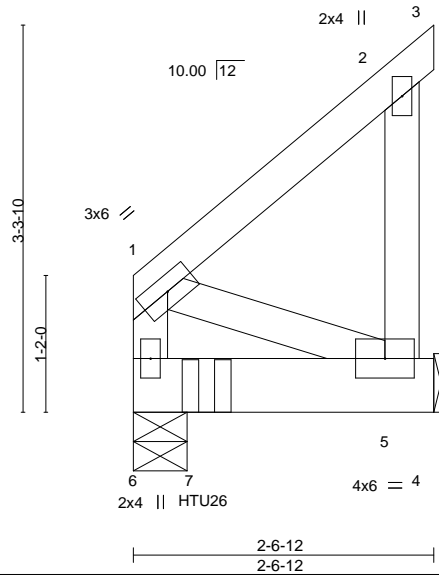
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:48 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-Za2xP?UNR3X3Qx?8yFsjumwRW4pDEeGp0xMbWRzajf

2-6-12
2-6-12

Scale = 1:19.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	-0.00	6	>999	240	Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1119/0-5-8, 5=395/Mechanical
Max Horz 6=118(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to back face of bottom chord.
- 6) Fill all nail holes where hanger is in contact with lumber.
- 7) 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=-60, 2-3=-20, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-1331(B)



March 15, 2019

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ENGINEERING BY
TRENCO
A MiTek Affiliate

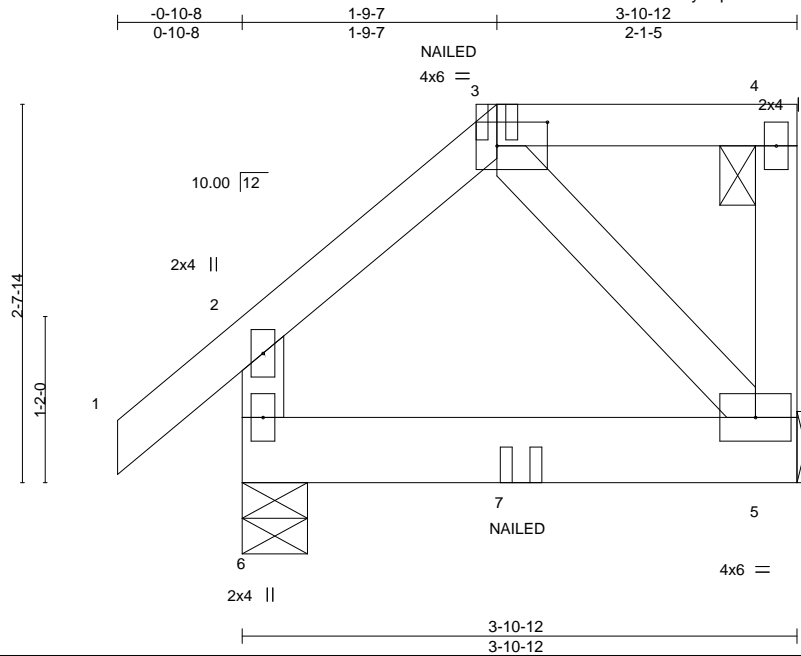
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J13	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810673
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:49 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-1mKcLV?CMfw25akWyoYRzTbhUGcz5WzFb592uzajre



Scale = 1:16.2

Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.00	5-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	-0.00	5-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL)	-0.00	5-6	>999	Weight: 25 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=240/0-5-8, 5=158/Mechanical
 Max Horz 6=82(LC 8)
 Max Uplift 6=-49(LC 8), 5=-65(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 100 lb uplift at joint(s) 6, 5.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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=-60, 2-3=-60, 3-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 3=-30(F) 7=-18(F)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J14	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810674
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:50 2019 Page 1
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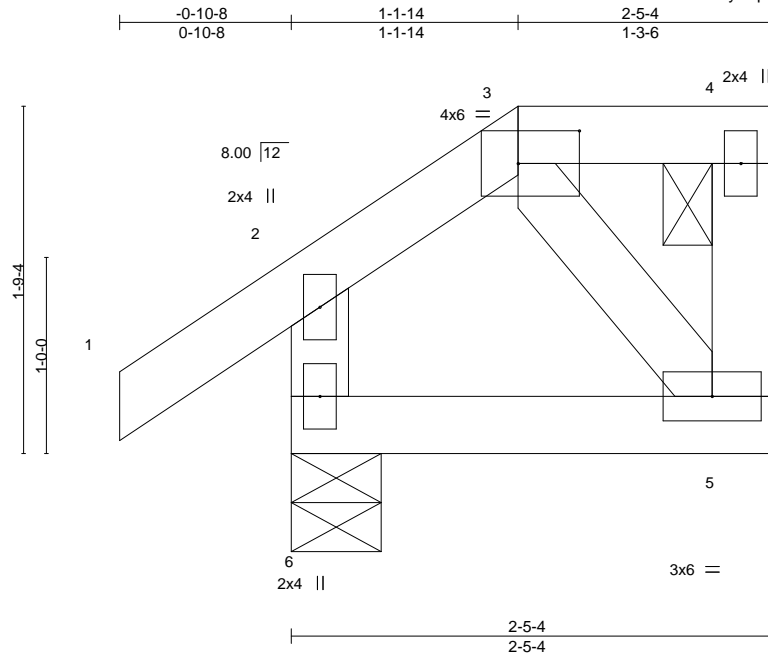


Plate Offsets (X,Y)-- [3:0-3-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MS	Wind(LL) -0.00	6	>999	240		
							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

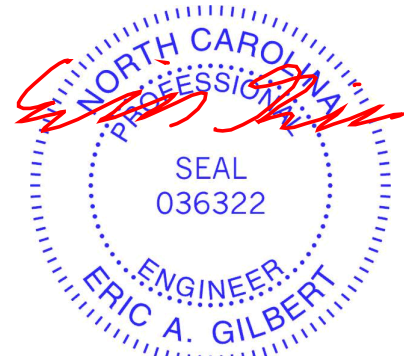
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=162/0-5-8, 5=71/Mechanical
Max Horz 6=49(LC 9)
Max Uplift 6=-30(LC 12), 5=-31(LC 9)
Max Grav 6=162(LC 1), 5=71(LC 24)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

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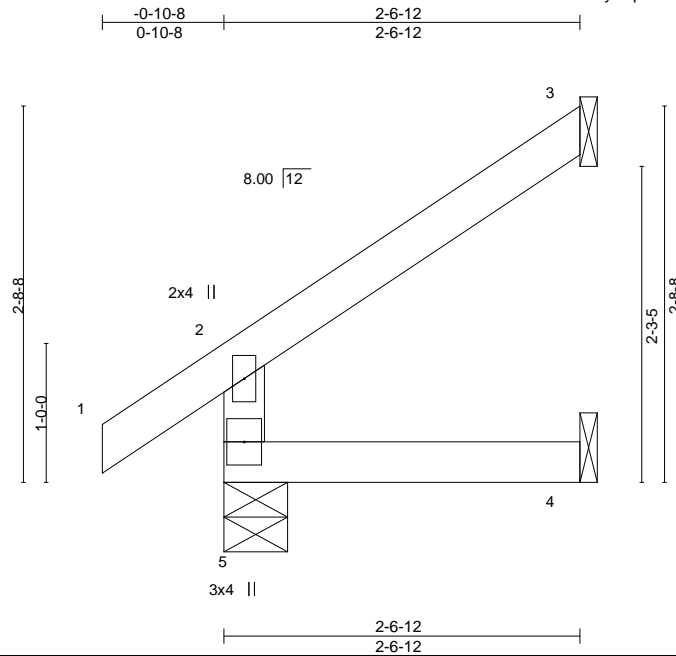
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J15	Truss Type Jack-Open	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810675
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:51 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-z9j411WGk_vdHPkjdNQQWOYxYlYjR?EGivaF7mzajrc



Scale = 1:16.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	0.00	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

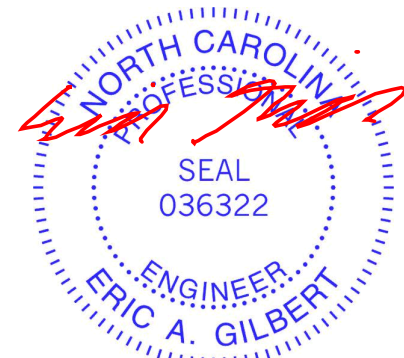
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=169/0-5-8, 3=58/Mechanical, 4=23/Mechanical
 Max Horz 5=84(LC 12)
 Max Uplift 5=-7(LC 12), 3=-63(LC 12), 4=-5(LC 12)
 Max Grav 5=169(LC 1), 3=70(LC 19), 4=44(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 3, 4.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



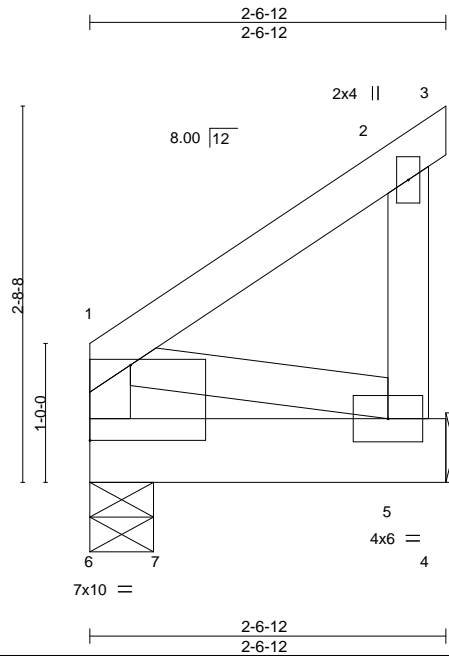
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J16	Truss Type Jack-Closed Girder	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810676
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:51 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUBvNvpB-z9j411WGk_vdHPkjdnQQWOYymIrsR?2GivaF7mzajrc



Scale = 1:16.6

Plate Offsets (X,Y)-- [6:0-1-12,0-0-0], [6:Edge,0-6-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL) -0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(CT) -0.01	5-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Wind(LL) -0.00	6	>999	240		
	Code IRC2015/TPI2014						Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1127/0-5-8, 5=397/Mechanical
 Max Horz 6=94(LC 5)

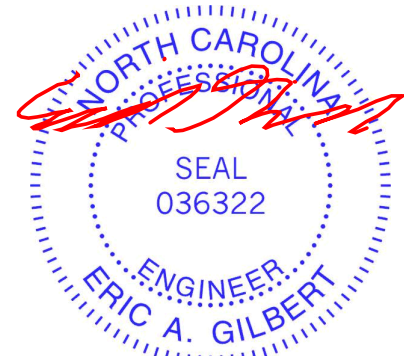
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1341 lb down at 0-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-20, 4-6=-20
 Concentrated Loads (lb)
 Vert: 7=-1341(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

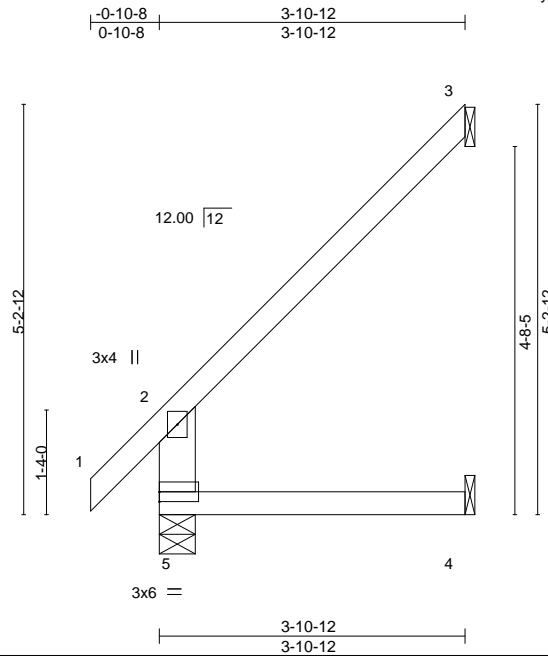


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J17	Truss Type JACK-OPEN	Qty 38	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810677
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:52 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-RLHSENxUvH1UvZJvB4xf2c541iCpASUPxZKpfDzajrb



Scale = 1:29.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	0.04	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.07	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=221/0-5-8, 3=92/Mechanical, 4=42/Mechanical
Max Horz 5=184(LC 12)
Max Uplift 3=-140(LC 12), 4=-30(LC 12)
Max Grav 5=221(LC 1), 3=123(LC 19), 4=68(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=140.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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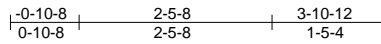
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J18	Truss Type JACK-OPEN	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810678
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:53 2019 Page 1

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Scale = 1:29.4

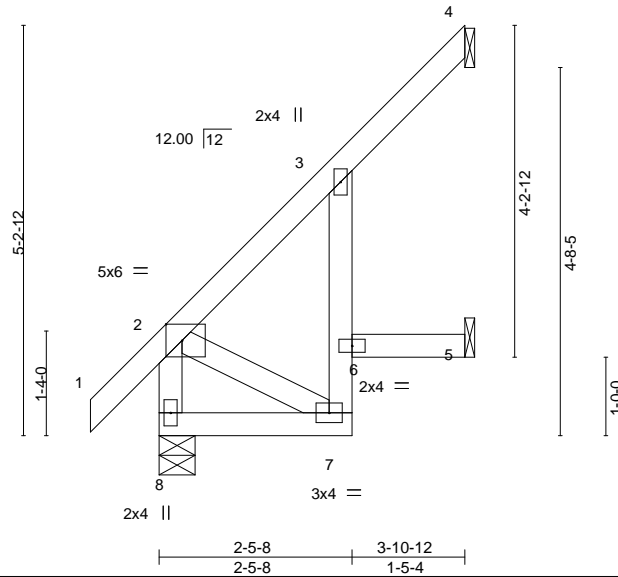


Plate Offsets (X,Y)-- [2:0-2-7,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	Vert(LL) 0.10	7	>449	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT) -0.09	7	>487	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT) -0.05	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 25 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=217/0-5-8, 4=124/Mechanical, 5=15/Mechanical
 Max Horz 8=185(LC 12)
 Max Uplift 4=179(LC 12)
 Max Grav 8=217(LC 1), 4=169(LC 19), 5=30(LC 3)

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

BOT CHORD 7-8=-250/198
 WEBS 2-7=-228/286

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) except (jt=lb) 4=179.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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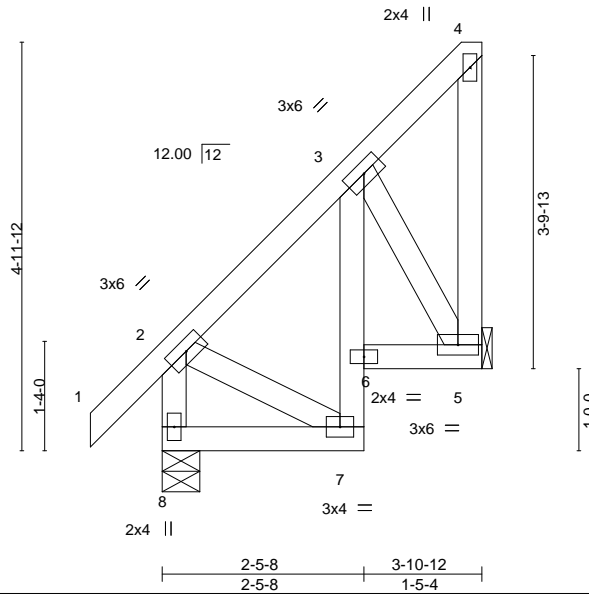
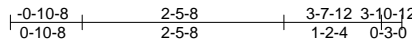


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J19	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810679
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:53 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUBvNvpB-vYrqSjYWFb9LXju5loSubpdH35d?vvYAD3MCfzajra



Scale = 1:28.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.01	5	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MS					Weight: 34 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

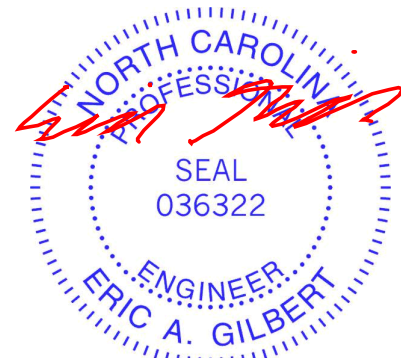
TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=214/0-5-8, 5=135/Mechanical
Max Horz 8=182(LC 12)
Max Uplift 5=-167(LC 12)
Max Grav 8=214(LC 1), 5=180(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) except (jt=lb) 5=167.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J20	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810680
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:54 2019 Page 1
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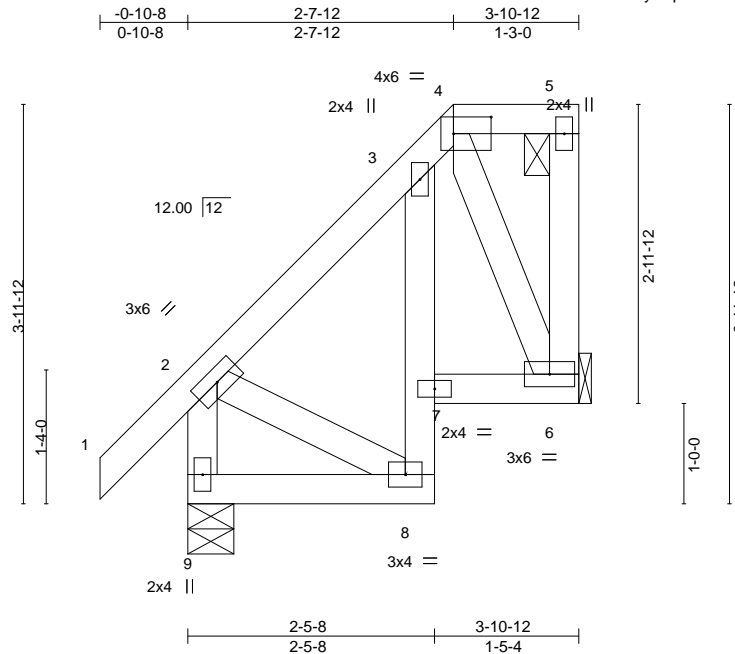


Plate Offsets (X,Y)-- [4:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL) 0.00	8	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT) -0.00	8	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT) -0.01	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 32 lb	FT = 20%
	Code IRC2015/TPI2014							

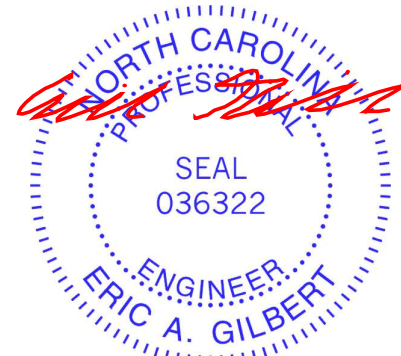
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=214/0-5-8, 6=135/Mechanical
Max Horz 9=135(LC 12)
Max Uplift 6=95(LC 12)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 6.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J21	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810681
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:55 2019 Page 1

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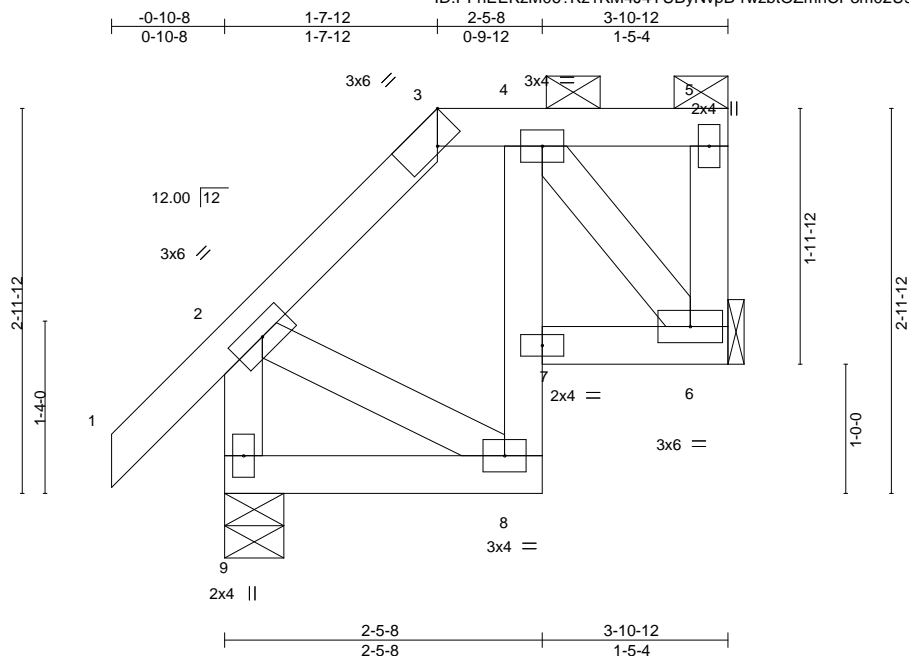


Plate Offsets (X,Y)-- [3:0-2-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00	8	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.00	8	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00	6	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.00	8	>999	240			
								Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 6=135/Mechanical, 9=214/0-5-8
Max Horz 9=91(LC 12)
Max Uplift 6=-58(LC 9), 9=-15(LC 12)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 6, 9.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J22	Truss Type HALF HIP GIRDER	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810682
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:56 2019 Page 1
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-K7Xz4kaOYWwOAcgQw0bDSFnkJgc6GO?sBI0o_zajrX

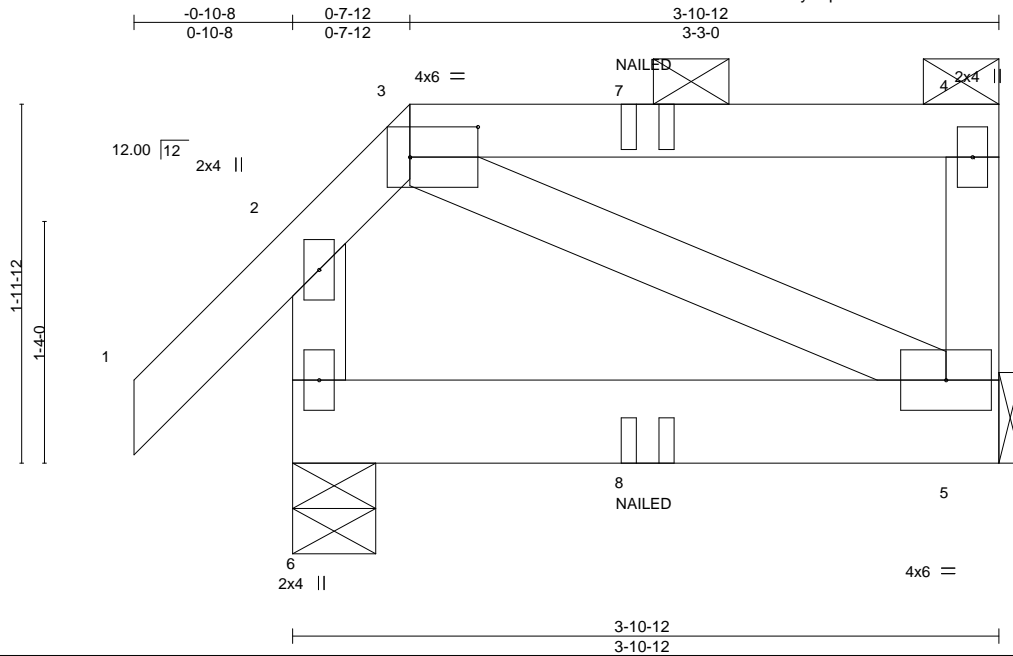


Plate Offsets (X,Y)-- [3:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL) -0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) -0.00	5-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL) -0.00	6	>999	240		
	Code IRC2015/TPI2014						Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
2-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=214/0-5-8, 5=136/Mechanical
Max Horz 6=58(LC 24)
Max Uplift 6=43(LC 8), 5=51(LC 5)
Max Grav 6=214(LC 1), 5=140(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 8=-0(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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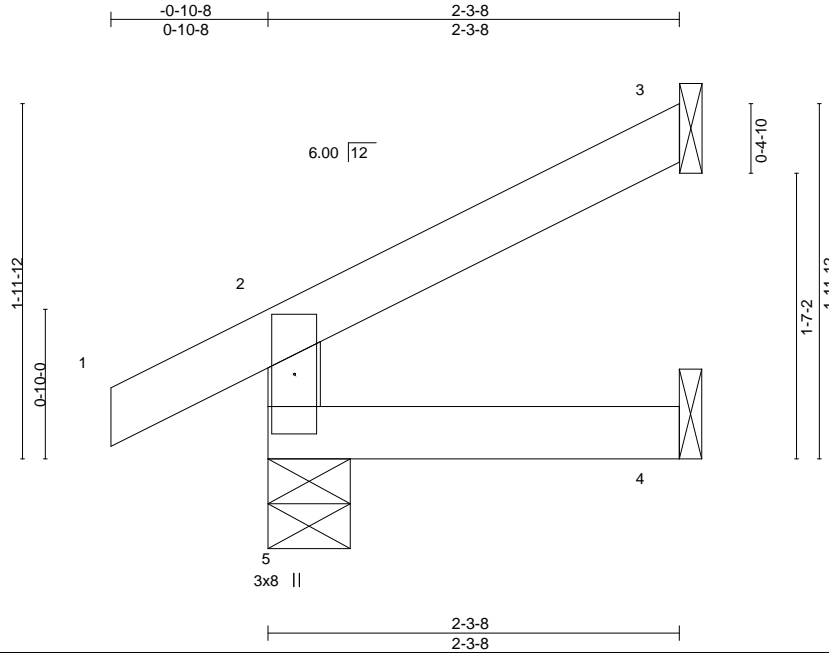
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J23	Truss Type JACK-OPEN	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810683
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:56 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-K7Xz4kaOYWxwOAcgQw0bDSFvJfR6GU?sBI0o_zajrX



Scale = 1:12.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	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	IRC2015/TPI2014	Matrix-MR	Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=160/0-5-8, 3=49/Mechanical, 4=19/Mechanical
 Max Horz 5=57(LC 12)
 Max Uplift 5=-28(LC 12), 3=-43(LC 12)
 Max Grav 5=160(LC 1), 3=49(LC 1), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 3.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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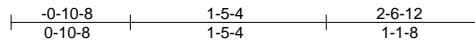


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J25	Truss Type Half Hip	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810684
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:57 2019 Page 1
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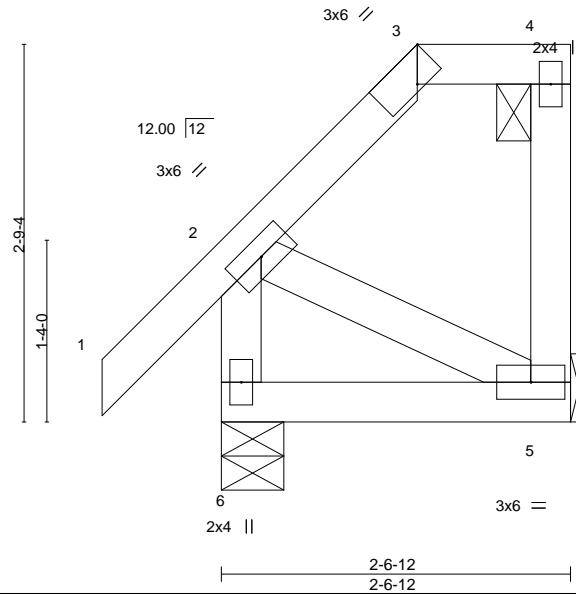


Plate Offsets (X,Y)-- [3:0-2-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL) -0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT) -0.00	5-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL) 0.00	6	>999	240		
	Code IRC2015/TPI2014						Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

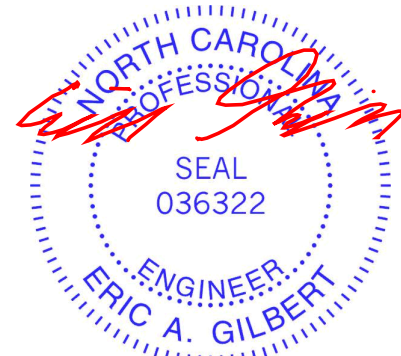
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=166/0-5-8, 5=77/Mechanical
Max Horz 6=82(LC 12)
Max Uplift 5=56(LC 12)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



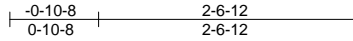
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J26	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810685
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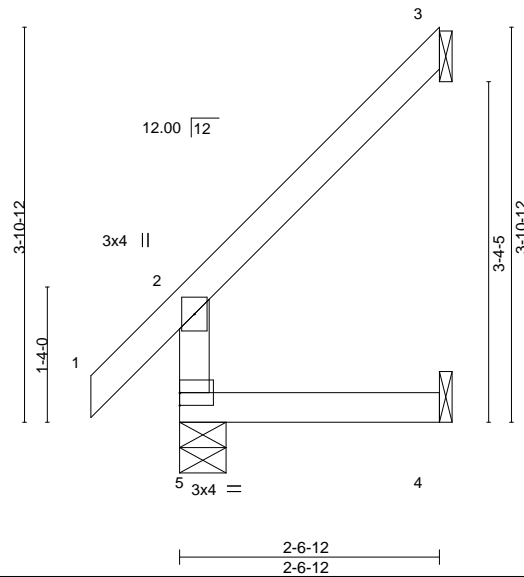
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:57 2019 Page 1

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Scale = 1:22.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.01	4-5	>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	IRC2015/TPI2014	Matrix-MR						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

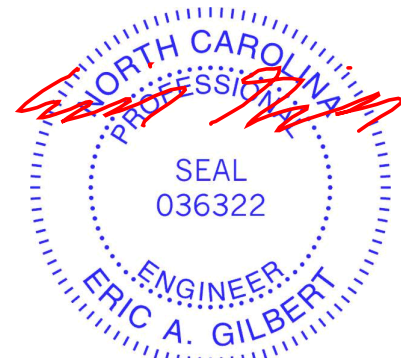
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=169/0-5-8, 3=57/Mechanical, 4=24/Mechanical
 Max Horz 5=126(LC 12)
 Max Uplift 3=-101(LC 12), 4=-25(LC 12)
 Max Grav 5=169(LC 1), 3=82(LC 19), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=101.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



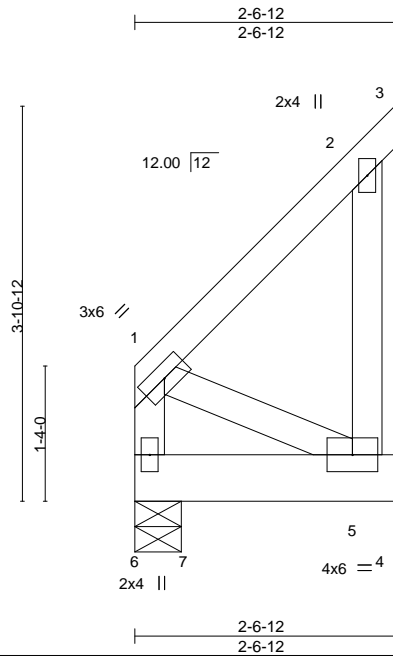
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J27	Truss Type Jack-Closed Girder	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810686
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:58 2019 Page 1

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Scale = 1:22.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP	Wind(LL)	0.00	5-6	>999	240	Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1127/0-5-8, 5=397/Mechanical
 Max Horz 6=142(LC 5)
 Max Uplift 6=146(LC 4), 5=140(LC 5)

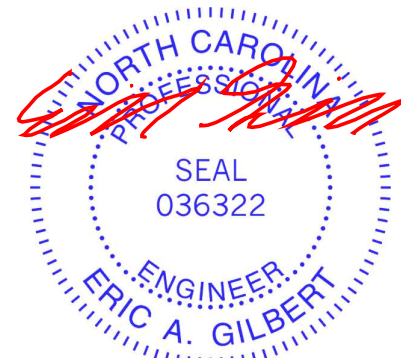
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=146, 5=140.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1342 lb down and 139 lb up at 0-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-20, 4-6=-20
 Concentrated Loads (lb)
 Vert: 7=-1342(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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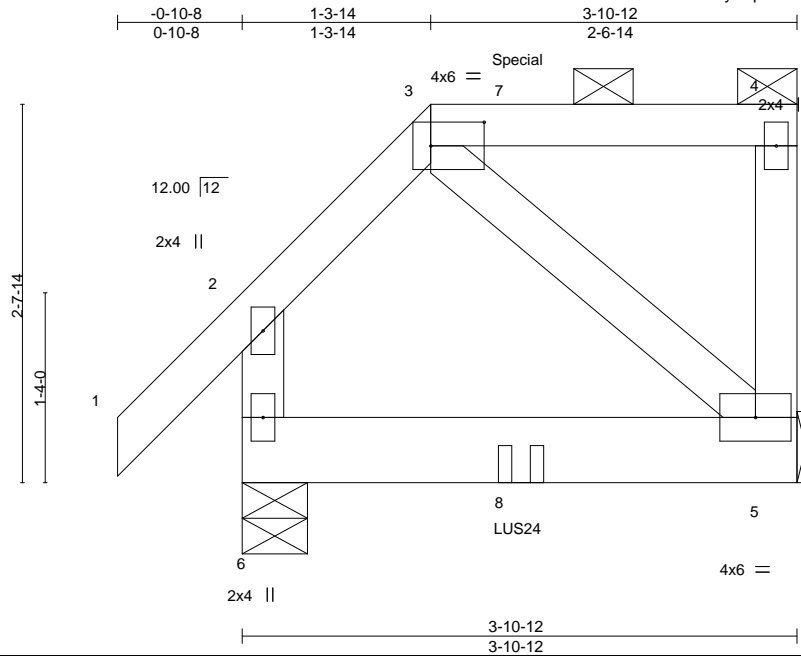
ENGINEERING BY
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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J28	Truss Type HALF HIP GIRDER	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810687
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:47:59 2019 Page 1
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Scale = 1:16.2

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.00	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.00	5-6	>999	240		
							Weight: 26 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-6: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=238/0-5-8, 5=160/Mechanical
 Max Horz 6=78(LC 8)
 Max Uplift 6=-45(LC 8), 5=-69(LC 5)
 Max Grav 6=238(LC 1), 5=162(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 1-11-8 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb down and 76 lb up at 1-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 7=-30(B) 8=-18(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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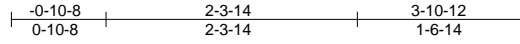
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J29	Truss Type HALF HIP	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810688
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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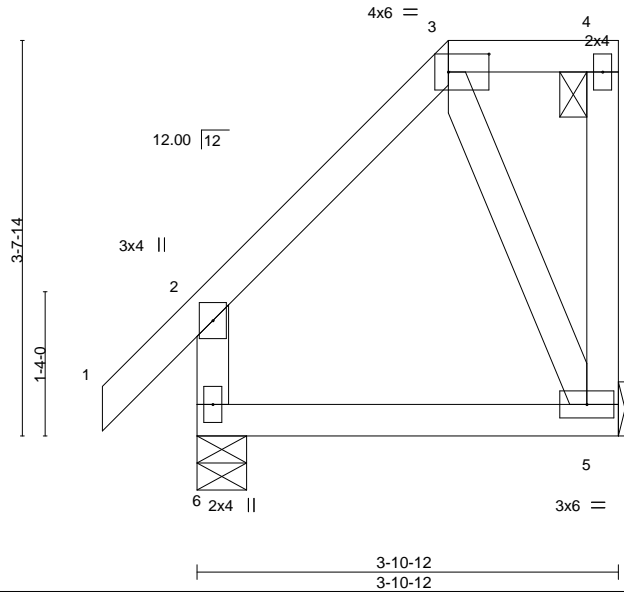


Plate Offsets (X,Y)-- [3:0-4-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.01	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.00	5-6	>999	Weight: 26 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

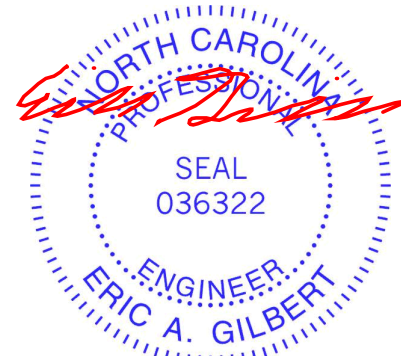
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=214/0-5-8, 5=135/Mechanical
 Max Horz 6=121(LC 12)
 Max Uplift 5=-77(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 100 lb uplift at joint(s) 5.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J30	Truss Type HALF HIP	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810689
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:00 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-CumUw6dvck2MsowSfm4XNIQSEwzL24TanoGEXlzajrT

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0-10-8 3-3-14 0-6-14

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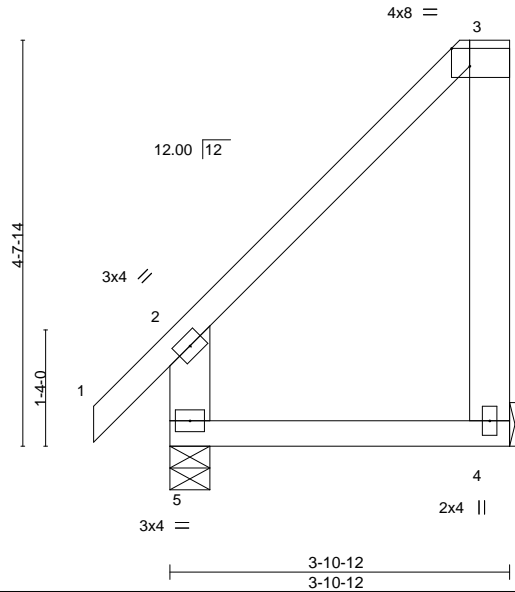


Plate Offsets (X,Y)-- [3:0-2-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	Vert(LL)	0.01	4-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014						Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=127/Mechanical, 5=214/0-5-8
Max Horz 5=176(LC 12)
Max Uplift 4=165(LC 12)
Max Grav 4=172(LC 19), 5=214(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) except (jt=lb) 4=165.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



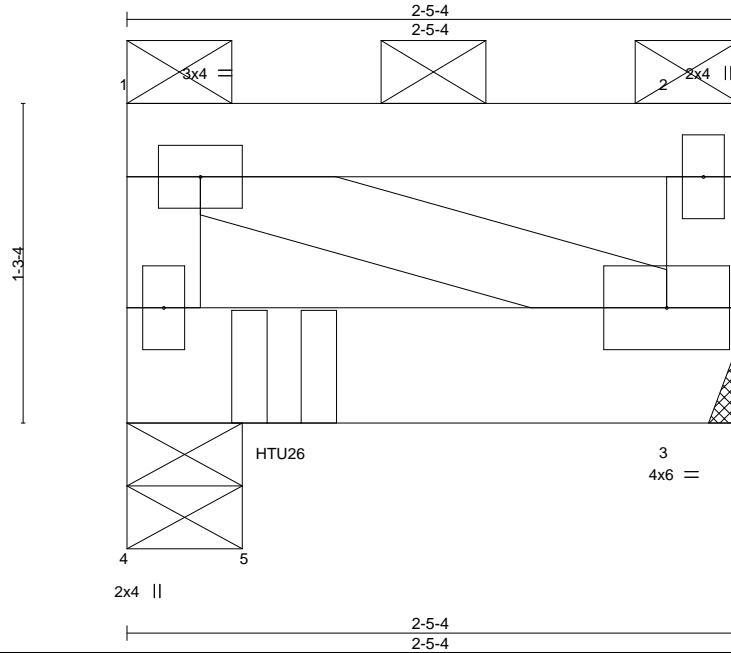
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J32	Truss Type Flat Girder	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810690
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:01 2019 Page 1

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Scale = 1:9.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00 3-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.01 3-4	>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 IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00 3-4	>999	240	Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=1128/0-5-8, 3=385/Mechanical
 Max Horz 4=-37(LC 4)
 Max Uplift 4=-133(LC 4), 3=-59(LC 5)

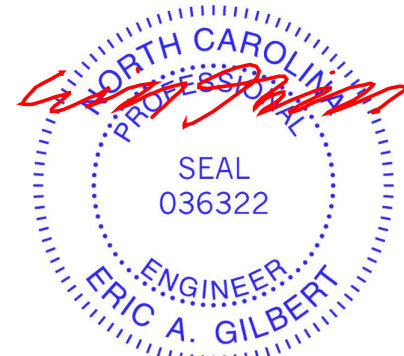
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=133.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 3-4=-20
 Concentrated Loads (lb)
 Vert: 5=-1342(F)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

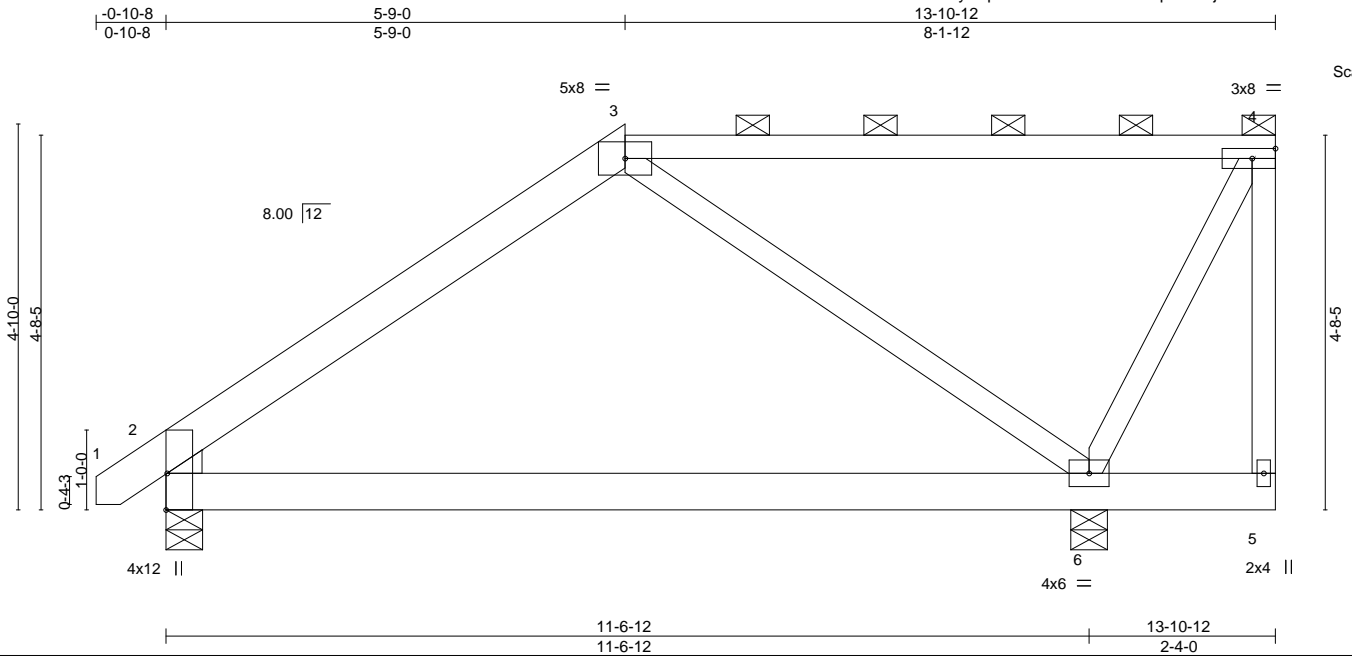
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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J33	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810691
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:02 2019 Page 1
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Scale = 1:28.9

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.09	6-9	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.17	6-9	>818	240	Weight: 87 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	-0.03	6-9	>999	240			

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 3-4: 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and
 2-0-0 oc purlins (6-0-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=491/0-5-8, 6=653/0-5-8
 Max Horz 2=188(LC 12)
 Max Uplift 2=-73(LC 12), 6=-160(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-417/140
 BOT CHORD 2-6=-184/318
 WEBS 3-6=-443/311

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=160.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J34	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810692
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:02 2019 Page 1
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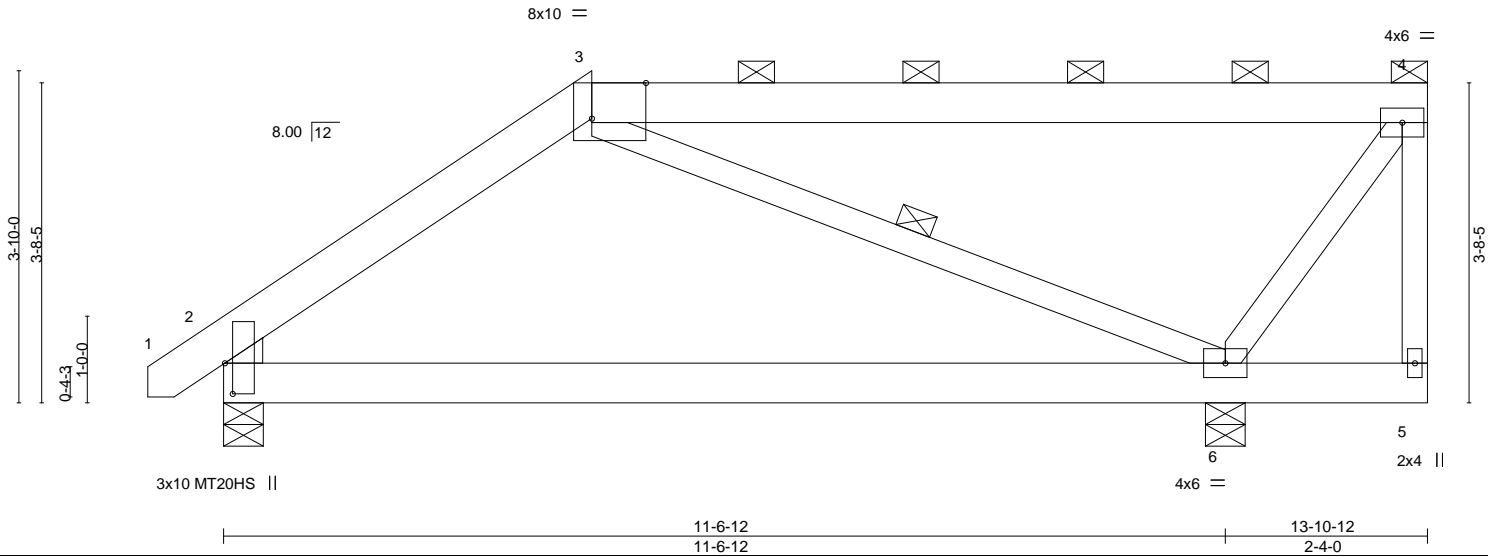


Plate Offsets (X,Y)--	[2:0-0-1,0-0-1], [2:0-0-2,0-3-11], [2:0-4-4,0-1-1], [3:0-7-8,Edge]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) -0.08	6-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.15	6-9	>916	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) -0.02	6-9	>999	240		
							Weight: 91 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-6
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=491/0-5-8, 6=653/0-5-8
Max Horz 2=141(LC 12)
Max Uplift 2=-73(LC 12), 6=-163(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-513/213
BOT CHORD 2-6=-228/430
WEBS 3-6=-566/370, 4-6=-284/283

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=163.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 1719437	Truss J35	Truss Type Half Hip	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810693
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:03 2019 Page 1

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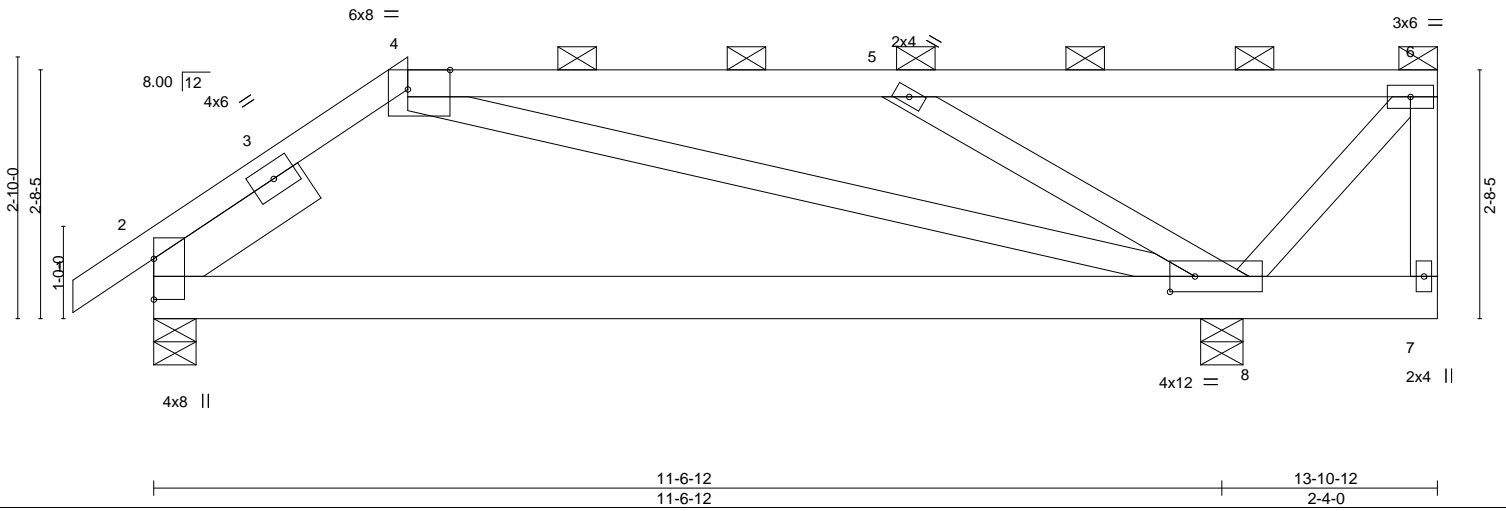


Plate Offsets (X,Y)--	[4:0-5-8,Edge], [8:0-3-4,0-2-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.08	8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.17	8-11	>863	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) -0.01	8-11	>999	240		
							Weight: 87 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=522/0-5-8, 8=630/0-5-8
 Max Horz 2=100(LC 12)
 Max Uplift 2=-74(LC 9), 8=-161(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-866/216, 4-5=-623/314
 BOT CHORD 2-8=-185/439
 WEBS 5-8=-742/483

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=161.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



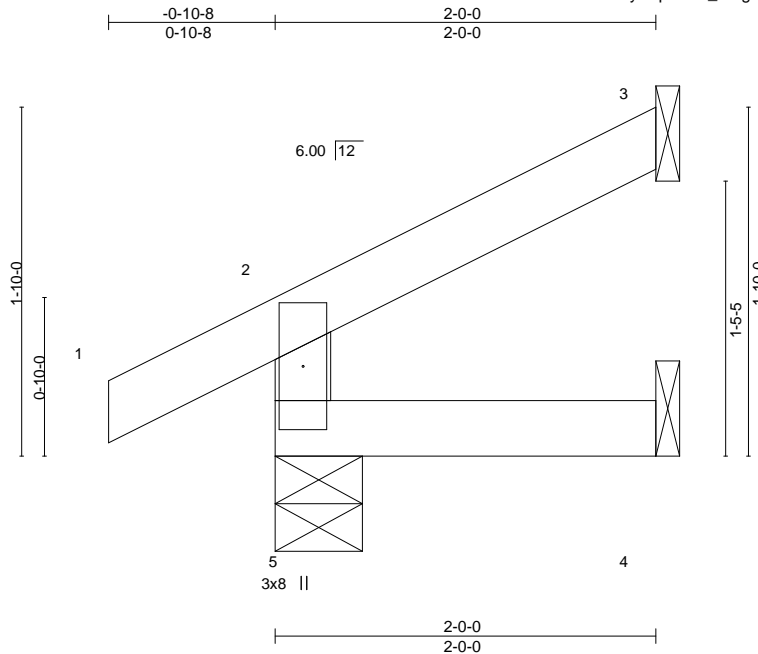
March 15, 2019

Job 1719437	Truss J37	Truss Type Jack-Open	Qty 54	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810694
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:04 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-5f0_mTgPgZyNLPEDuc9TY8aA9XOV_uSAiQES4WzajrP



Scale: 1"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	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	IRC2015/TPI2014	Matrix-MR	Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 5=152/0-5-8, 3=41/Mechanical, 4=16/Mechanical
 Max Horz 5=51(LC 12)
 Max Uplift 5=-27(LC 12), 3=-38(LC 12)
 Max Grav 5=152(LC 1), 3=41(LC 1), 4=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 3.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



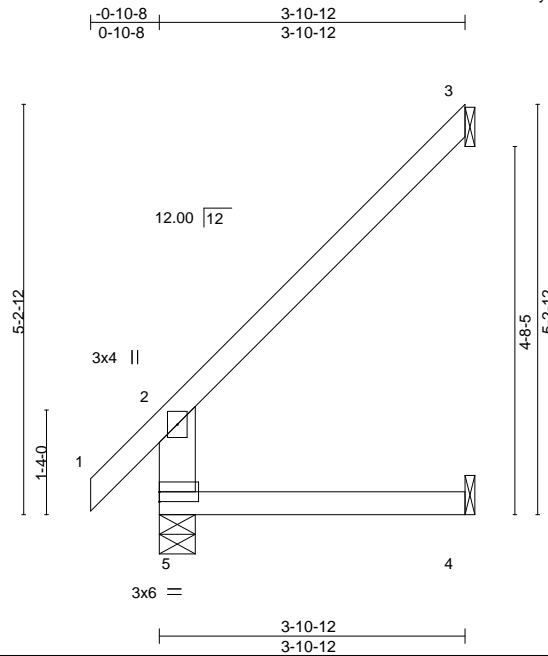
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J38	Truss Type Jack-Open	Qty 18	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810695
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:04 2019 Page 1

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Scale = 1:29.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	0.04	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.07	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=221/0-5-8, 3=92/Mechanical, 4=42/Mechanical
 Max Horz 5=184(LC 12)
 Max Uplift 3=-140(LC 12), 4=-30(LC 12)
 Max Grav 5=221(LC 1), 3=123(LC 19), 4=68(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=140.



March 15, 2019

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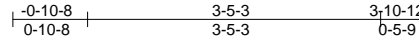
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J39	Truss Type HALF HIP	Qty 3	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810696
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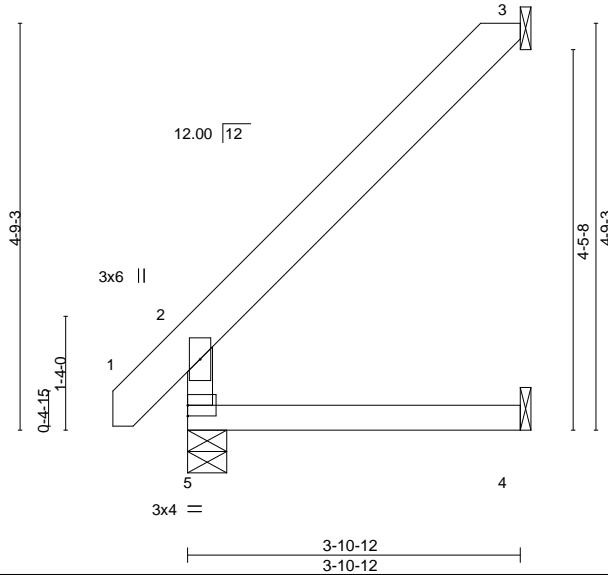
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:05 2019 Page 1

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Scale = 1:27.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	0.02	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.02	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

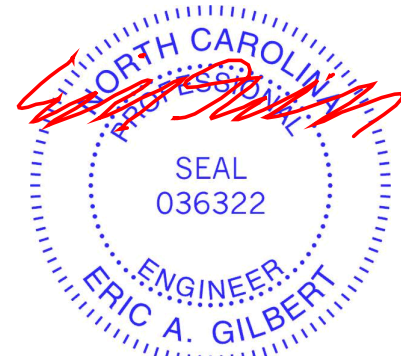
TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=105/Mechanical, 5=208/0-5-8, 4=36/Mechanical
 Max Horz 5=198(LC 12)
 Max Uplift 3=-162(LC 12), 4=-4(LC 12)
 Max Grav 3=138(LC 19), 5=208(LC 1), 4=67(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=162.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

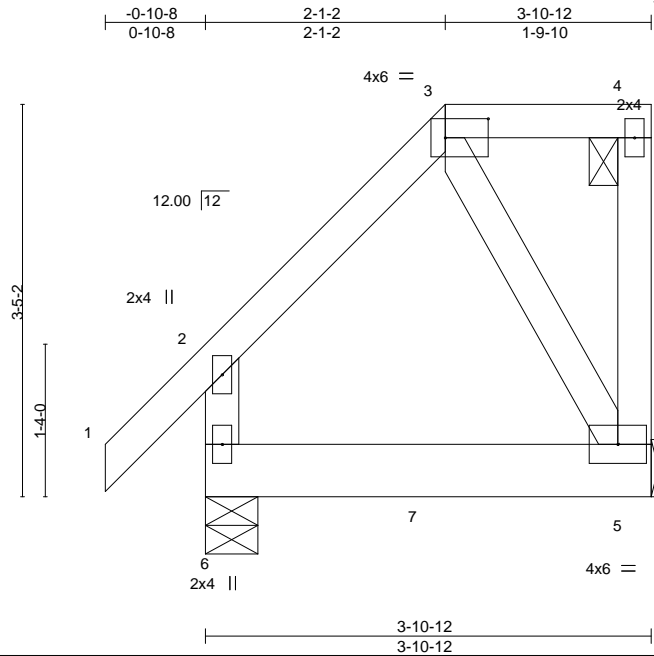


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J40	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810697
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:06 2019 Page 1
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Scale = 1:20.1

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.00	5-6	>999	240	Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=237/0-5-8, 5=161/Mechanical
Max Horz 6=112(LC 8)
Max Uplift 6=-43(LC 8), 5=-105(LC 8)

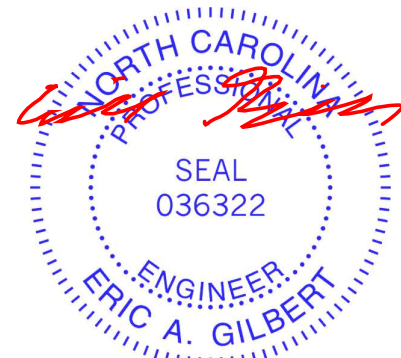
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=105.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 103 lb up at 2-1-2 on top chord, and 30 lb down and 23 lb up at 1-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 3=-30(F) 7=-18(F)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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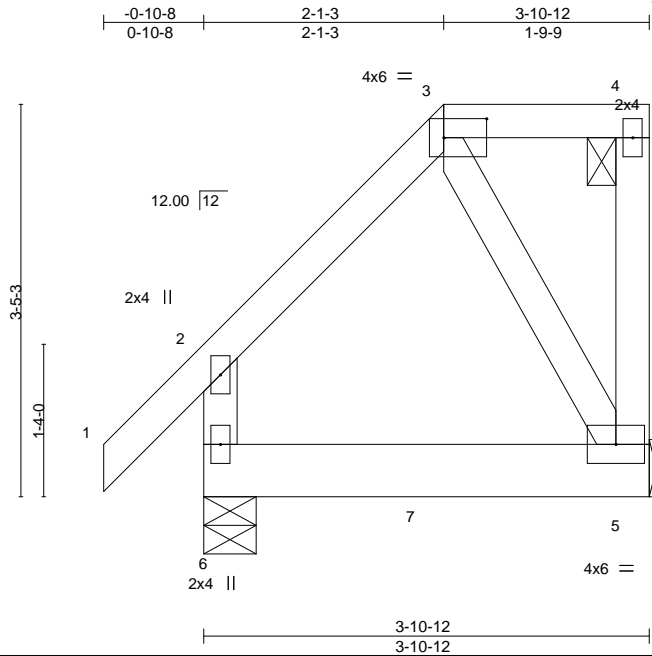
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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J41	Truss Type Half Hip Girder	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810698
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:06 2019 Page 1
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Scale = 1:20.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL) -0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT) -0.01	5-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL) 0.00	5-6	>999	240		
	Code IRC2015/TPI2014						Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=237/0-5-8, 5=161/Mechanical
Max Horz 6=112(LC 8)
Max Uplift 6=-42(LC 8), 5=-105(LC 8)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=105.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 103 lb up at 2-1-3 on top chord, and 30 lb down and 23 lb up at 1-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 3=-30(F) 7=-18(F)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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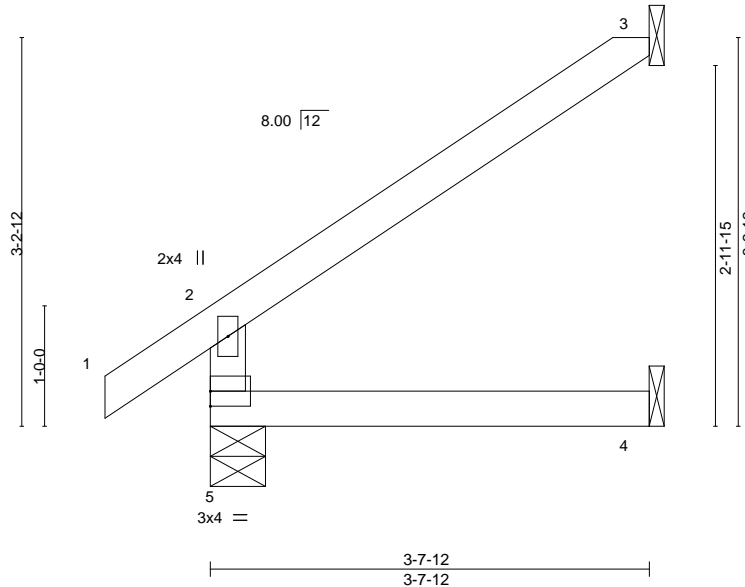
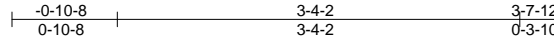
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J42	Truss Type Half Hip	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810699
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:07 2019 Page 1

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Scale = 1:19.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	0.01	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 14 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=90/Mechanical, 5=208/0-5-8, 4=38/Mechanical
 Max Horz 5=128(LC 12)
 Max Uplift 3=-88(LC 12), 5=-5(LC 12), 4=-3(LC 12)
 Max Grav 3=105(LC 19), 5=208(LC 1), 4=65(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 3, 5, 4.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



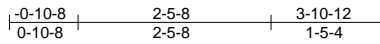
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J43	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810700
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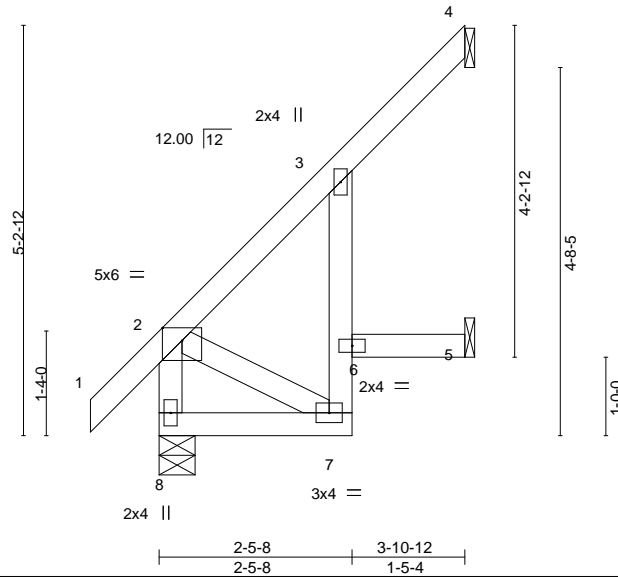
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:08 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-zQFVbrjwC2Dq0X_7RDPi_lmQ8mVwg7md2CfDHZajrL



Scale = 1:29.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	0.10	7	>449	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.09	7	>487		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.05	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP					Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

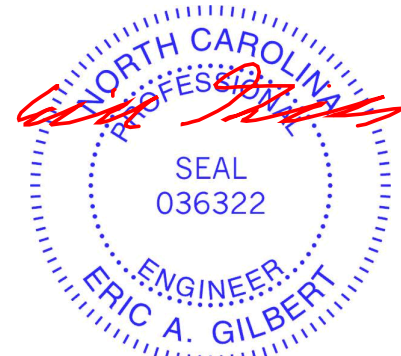
REACTIONS. (lb/size) 8=217/0-5-8, 4=124/Mechanical, 5=15/Mechanical
 Max Horz 8=185(LC 12)
 Max Uplift 4=179(LC 12)
 Max Grav 8=217(LC 1), 4=169(LC 19), 5=30(LC 3)

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

BOT CHORD 7-8=-250/198
 WEBS 2-7=-228/286

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) except (jt=lb) 4=179.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



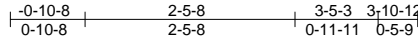
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J44	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810701
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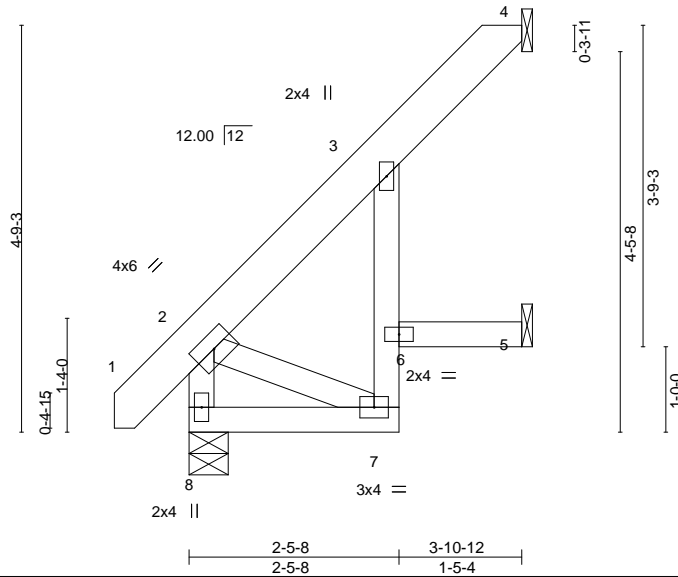
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:08 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-zQFVbrwjC2Dq0X_7RDPI_lqI8mWwgBmd2CfDHZajrL



Scale = 1:27.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.03	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.02	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.01	4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

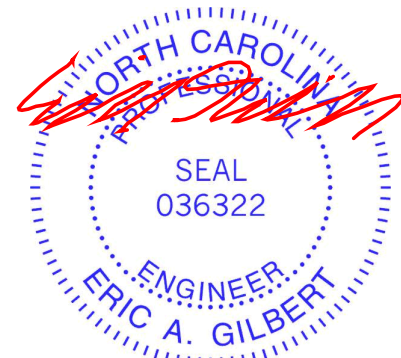
TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=126/Mechanical, 8=208/0-5-8, 5=15/Mechanical
 Max Horz 8=183(LC 12)
 Max Uplift 4=-174(LC 12)
 Max Grav 4=168(LC 19), 8=208(LC 1), 5=30(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-7=-219/273

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 100 lb uplift at joint(s) except (jt=lb) 4=174.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



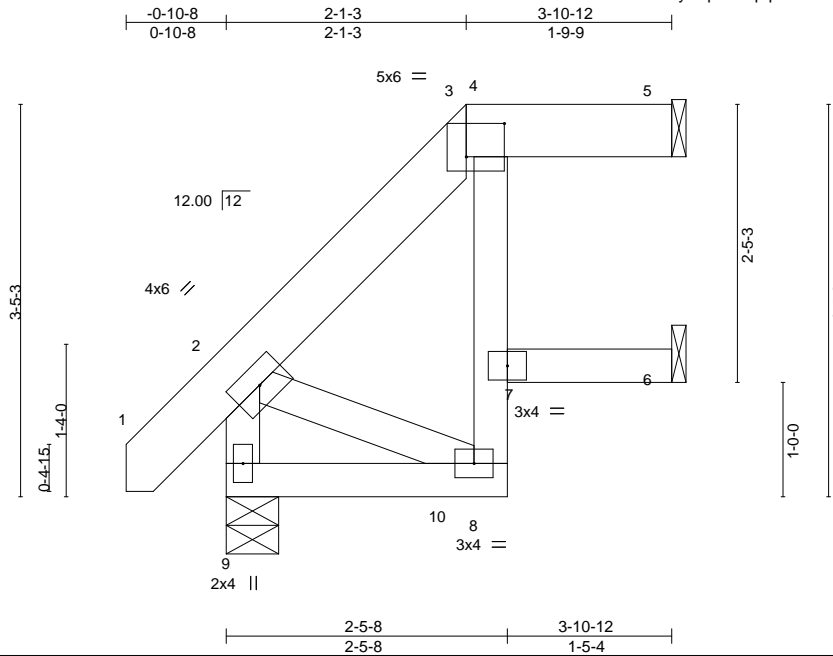
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J45	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810702
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:09 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUBvNvpB-RdtpBkYUVA4RA6Ah9keFBI0qY5df8OvrixCmjzajrK



Scale = 1:20.1

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

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) 0.01	8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.01	8	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) -0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 28 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=118/Mechanical, 9=232/0-5-8, 6=48/Mechanical
 Max Horz 9=110(LC 8)
 Max Uplift 5=-83(LC 5), 9=-41(LC 8), 6=-27(LC 8)
 Max Grav 5=118(LC 1), 9=232(LC 1), 6=53(LC 3)

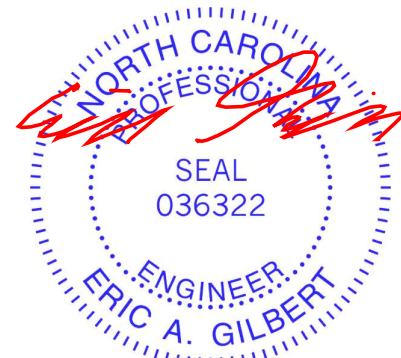
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 9, 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 103 lb up at 2-1-3 on top chord, and 30 lb down and 23 lb up at 1-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-5=-60, 8-9=-20, 6-7=-20
 Concentrated Loads (lb)
 Vert: 3=-30(B) 10=-18(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



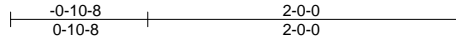
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J46	Truss Type Jack-Open	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810703
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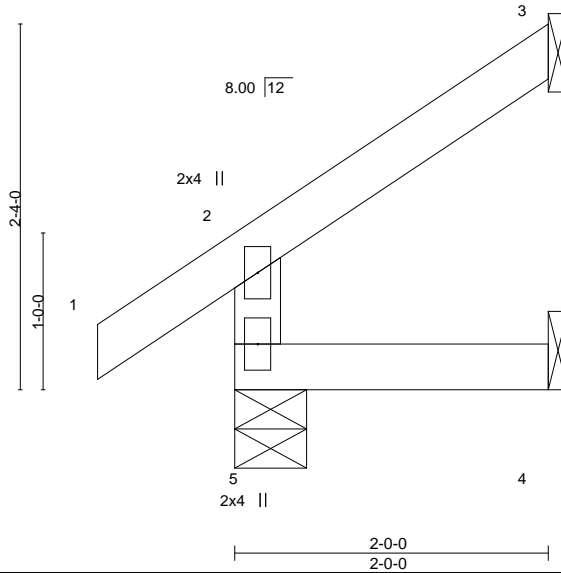
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:10 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-vpNG0XIAFplx3KhNFsGtnPqALyRbObx34MhmlAzajrJ



Scale = 1:14.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	0.00	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

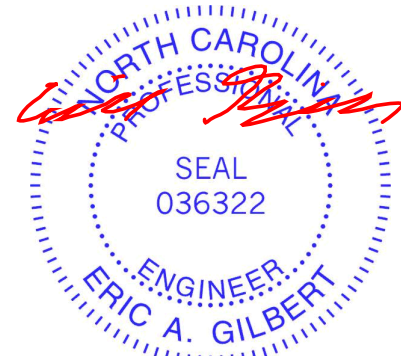
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=152/0-5-8, 3=41/Mechanical, 4=16/Mechanical
 Max Horz 5=69(LC 12)
 Max Uplift 5=-8(LC 12), 3=-50(LC 12), 4=-6(LC 12)
 Max Grav 5=152(LC 1), 3=52(LC 19), 4=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 3, 4.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



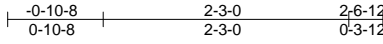
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J47	Truss Type Half Hip	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810704
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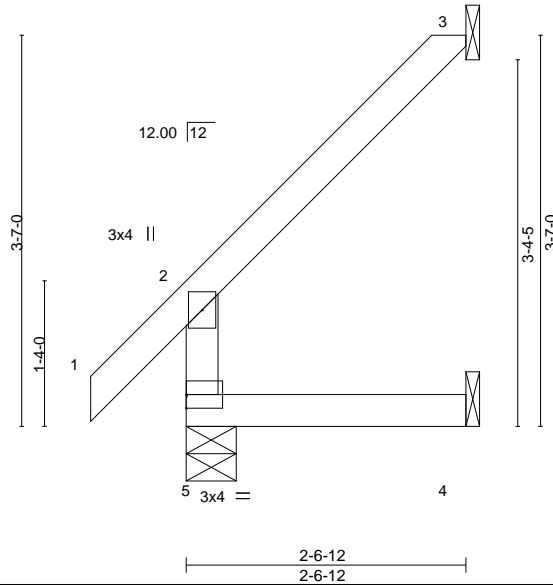
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:10 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-vpNG0XIAFplx3KhNFsGtnPq8RyPYObx34MhmlAzajrJ



Scale = 1:21.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	0.01	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

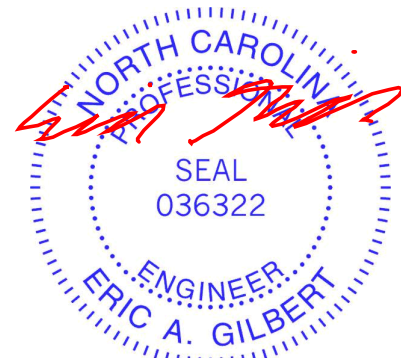
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=57/Mechanical, 5=169/0-5-8, 4=24/Mechanical
Max Horz 5=119(LC 12)
Max Uplift 3=-101(LC 12), 4=-24(LC 12)
Max Grav 3=80(LC 19), 5=169(LC 1), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=101.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



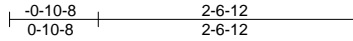
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss J48	Truss Type Jack-Open	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810705
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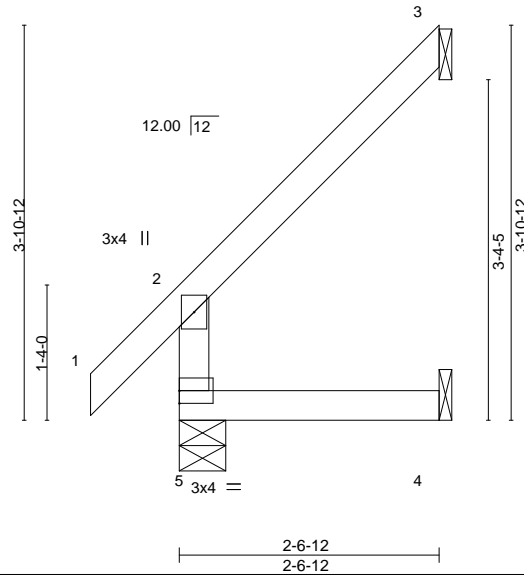
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:11 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-N?xeEtmo07QohUGZoan6KcNlVMkc72BCJOJqczajrl



Scale = 1:22.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	0.01	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=169/0-5-8, 3=57/Mechanical, 4=24/Mechanical
 Max Horz 5=126(LC 12)
 Max Uplift 3=-101(LC 12), 4=-25(LC 12)
 Max Grav 5=169(LC 1), 3=82(LC 19), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=101.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



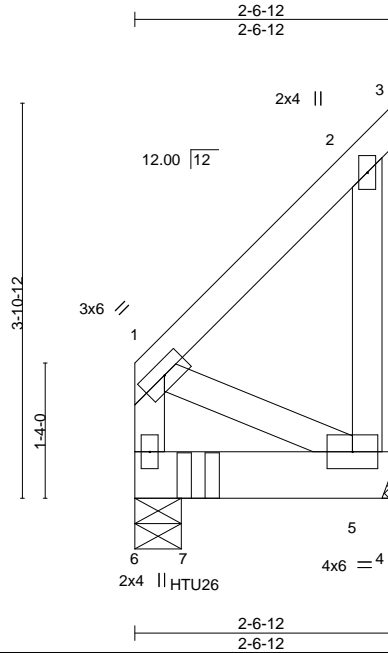
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J49	Truss Type Jack-Closed Girder	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810706
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:12 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-sCV0RCmRnQYflerIMHILsqwWcm0RsVwLXgAtM2zajrH



Scale = 1:22.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	5-6	>999	240	Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1042/0-5-8, 5=372/Mechanical
 Max Horz 6=142(LC 5)
 Max Uplift 6=-82(LC 4), 5=-121(LC 5)
 Max Grav 6=1060(LC 30), 5=417(LC 29)

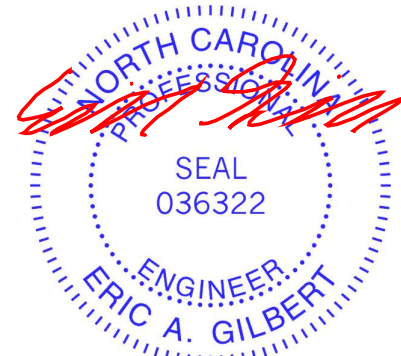
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) 6 except (jt=lb) 5=121.
- 6) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to back face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 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=-60, 2-3=-20, 4-6=-20
 Concentrated Loads (lb)
 Vert: 7=-1232(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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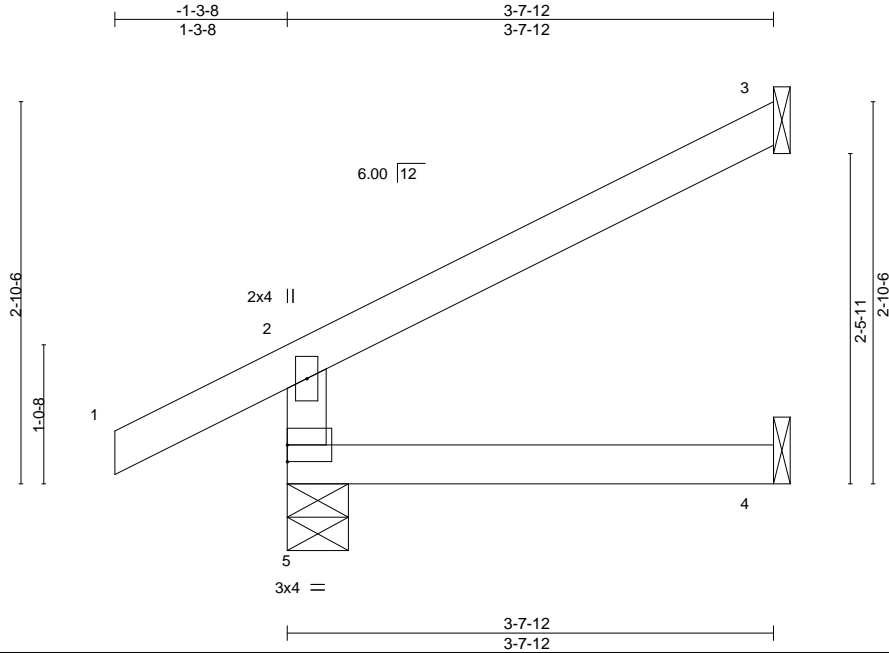


818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss J50	Truss Type Jack-Open	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810707
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:12 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-sCV0RCmRnQYflerlMHILsqwULm5TsVRLXgAtM2zajrH



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.01	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.01	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.01	4-5	>999	240	Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

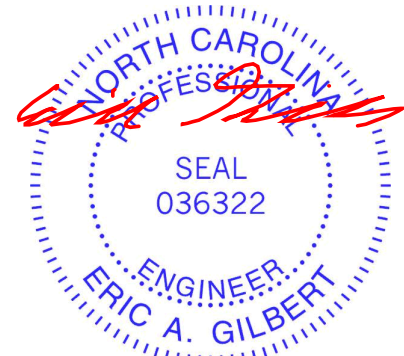
TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=242/0-5-8, 3=85/Mechanical, 4=34/Mechanical
Max Horz 5=91(LC 12)
Max Uplift 5=-41(LC 12), 3=-70(LC 12)
Max Grav 5=242(LC 1), 3=85(LC 1), 4=64(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 3.



March 15, 2019

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ENGINEERING BY
TRENCO
A MiTek Affiliate

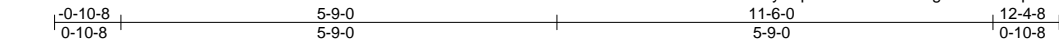
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss K01	Truss Type GABLE	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810708
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:13 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-KO3OeYn3YkgWwnQxw?paP1Sig9TTbywVmKvQvVzajrG



3x6 =

Scale = 1:30.4

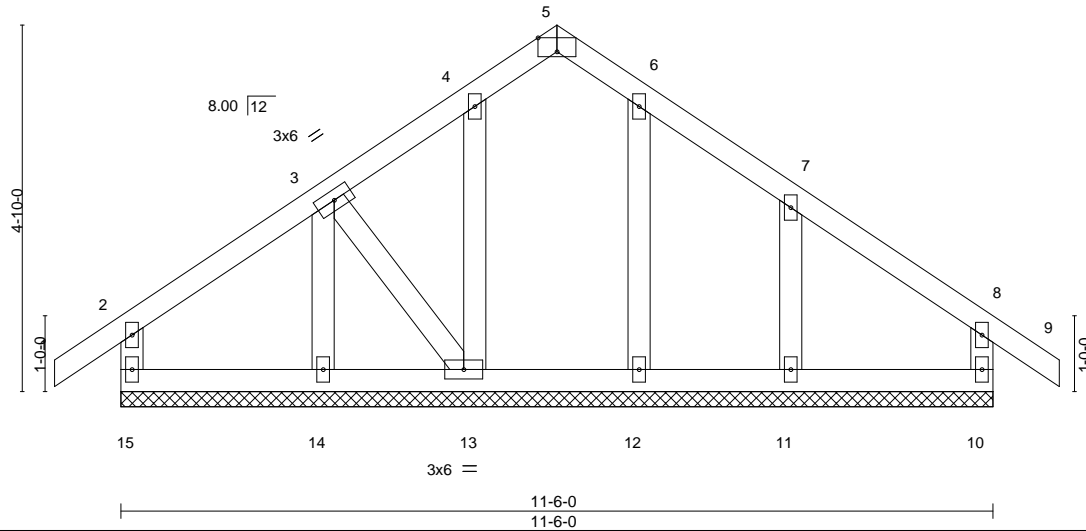


Plate Offsets (X,Y)-- [5:0-3:0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 64 lb	FT = 20%

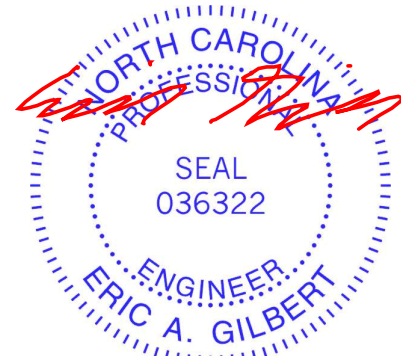
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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. All bearings 11-6-0.
 (lb) - Max Horz 15=158(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 10, 14 except 13=116(LC 9), 11=154(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 10, 13, 14, 12, 11

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 15, 10, 14 except (jt=lb) 13=116, 11=154.



March 15, 2019

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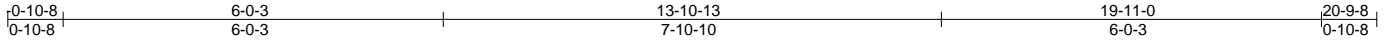
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss L01	Truss Type GABLE	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810709
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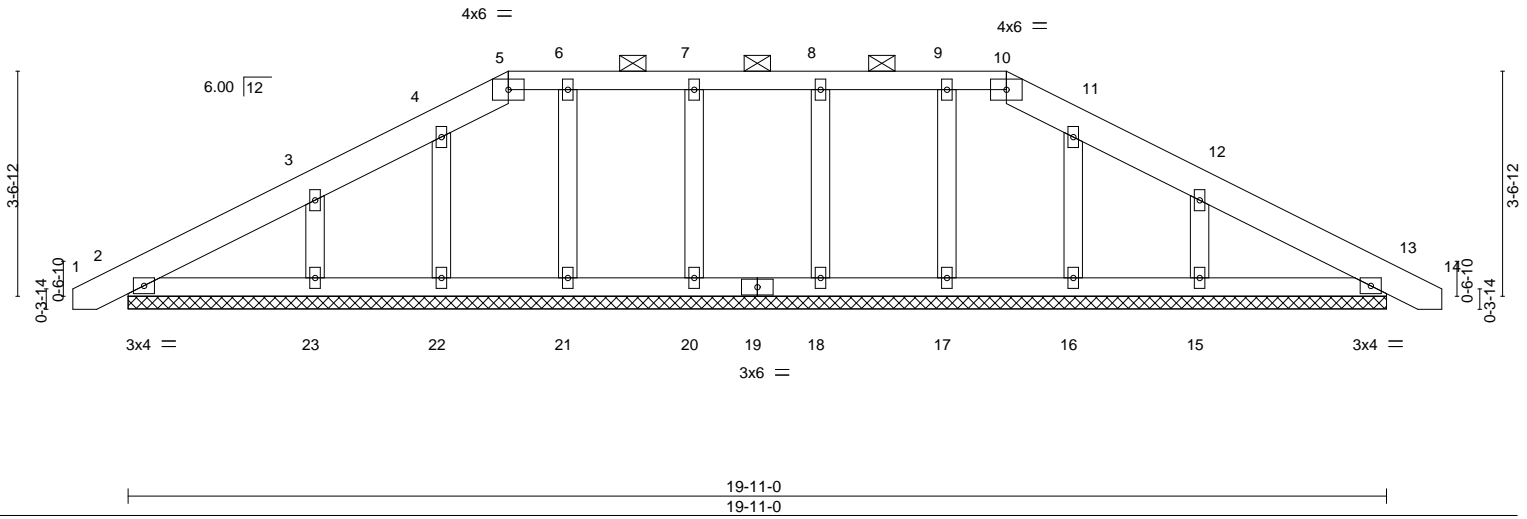
Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:14 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-oacmsuohJ2pNYx_8UikPyF?uhZpokPEe?_fzRxzajrF



Scale = 1:36.5



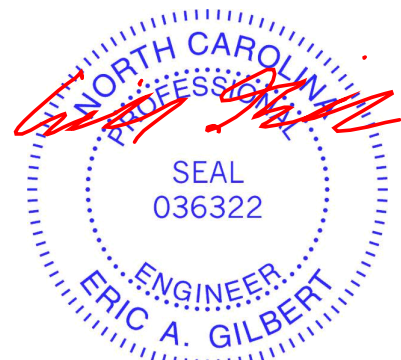
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	0.00	13	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	14	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	13	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 106 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 5-10: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 2=-66(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 18, 17, 16, 13 except 23=-101(LC 12), 15=-103(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 15, 13

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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 will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 18, 17, 16, 13 except (jt=lb) 23=101, 15=103.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



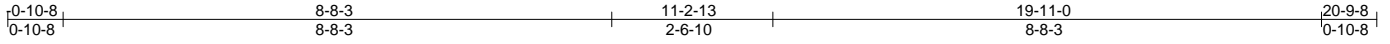
March 15, 2019

Job 1719437	Truss L02	Truss Type HIP	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810710
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:15 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-GnA93EpJ4LxD95ZK1Qr2U5YyhzyS3rcoEeOXzNzajrE



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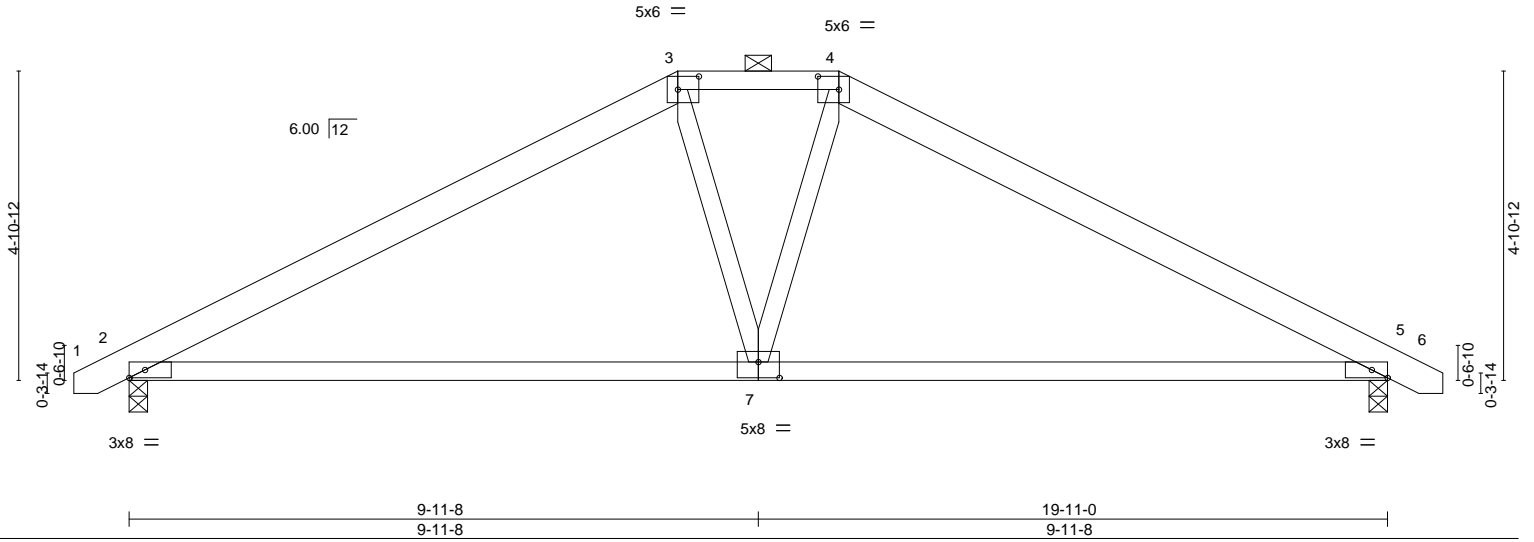


Plate Offsets (X,Y)-- [3:0-4-0,0-2-8], [4:0-4-0,0-2-8], [5:0-3-0,Edge], [7:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.13	7-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.28	7-13	>844	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.09	7-10	>999	240	Weight: 97 lb	FT = 20%

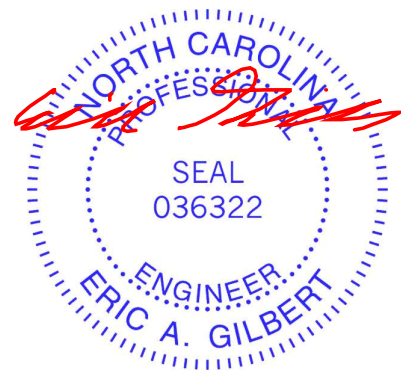
LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 3-4: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (5-6-2 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=838/0-3-8, 5=838/0-3-8
 Max Horz 2=-92(LC 13)
 Max Uplift 2=-151(LC 12), 5=-151(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1085/344, 3-4=-926/376, 4-5=-1085/344
 BOT CHORD 2-7=-156/895, 5-7=-156/895

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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 100 lb uplift at joint(s) except (jt=lb) 2=151, 5=151.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



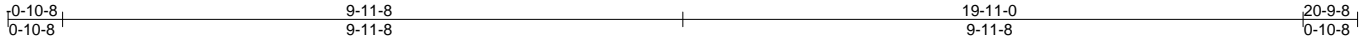
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss L03	Truss Type COMMON	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810711
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:16 2019 Page 1

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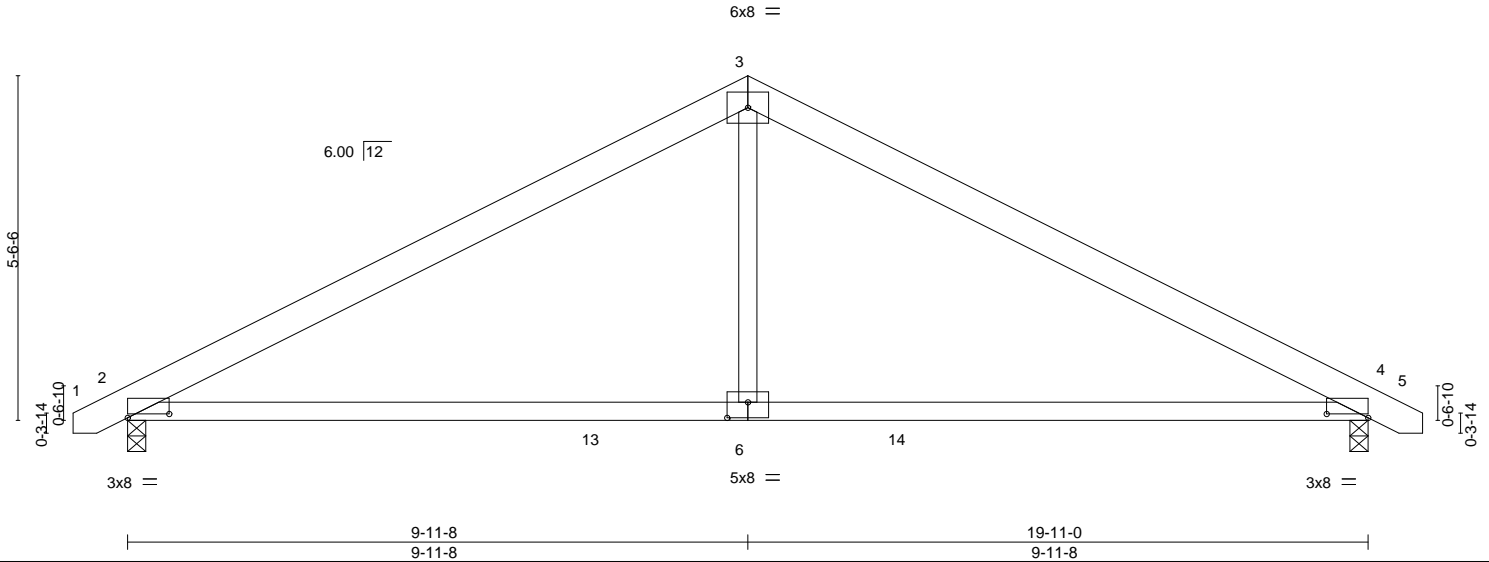


Plate Offsets (X,Y)--	[2:0-8-0,0-0-12], [4:0-8-0,0-0-12], [6:0-4-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.13 6-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.28 6-12 >842 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.02 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.12 6-9 >999 240	Weight: 94 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

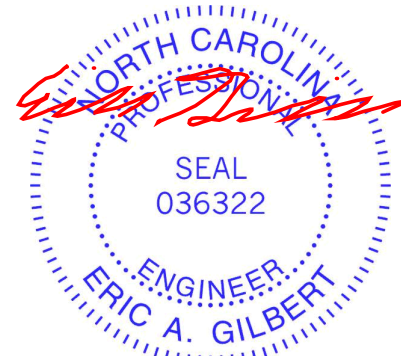
BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=838/0-3-8, 4=838/0-3-8
 Max Horz 2=-102(LC 13)
 Max Uplift 2=-161(LC 12), 4=-161(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1107/362, 3-4=-1107/362
 BOT CHORD 2-6=-168/934, 4-6=-168/934
 WEBS 3-6=0/409

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=161, 4=161.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

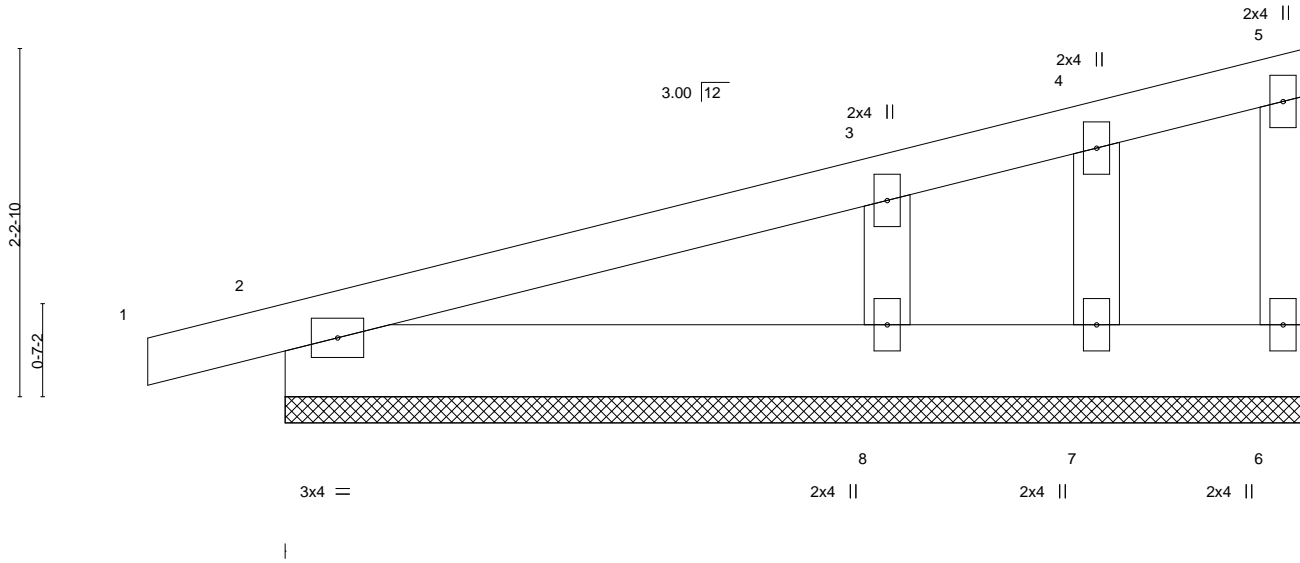
Job 1719437	Truss M01	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810712
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:17 2019 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-C9IvUwqZczBxPPIj9quXZtdN0nqbXld5hyte2GzajrC



Scale = 1:14.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P						Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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. All bearings 6-6-0.
(lb) - Max Horz 2=80(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=314(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 1-4-0 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 100 lb uplift at joint(s) 6, 2, 7, 8.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M02	Truss Type Monopitch	Qty 5	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810713
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:17 2019 Page 1

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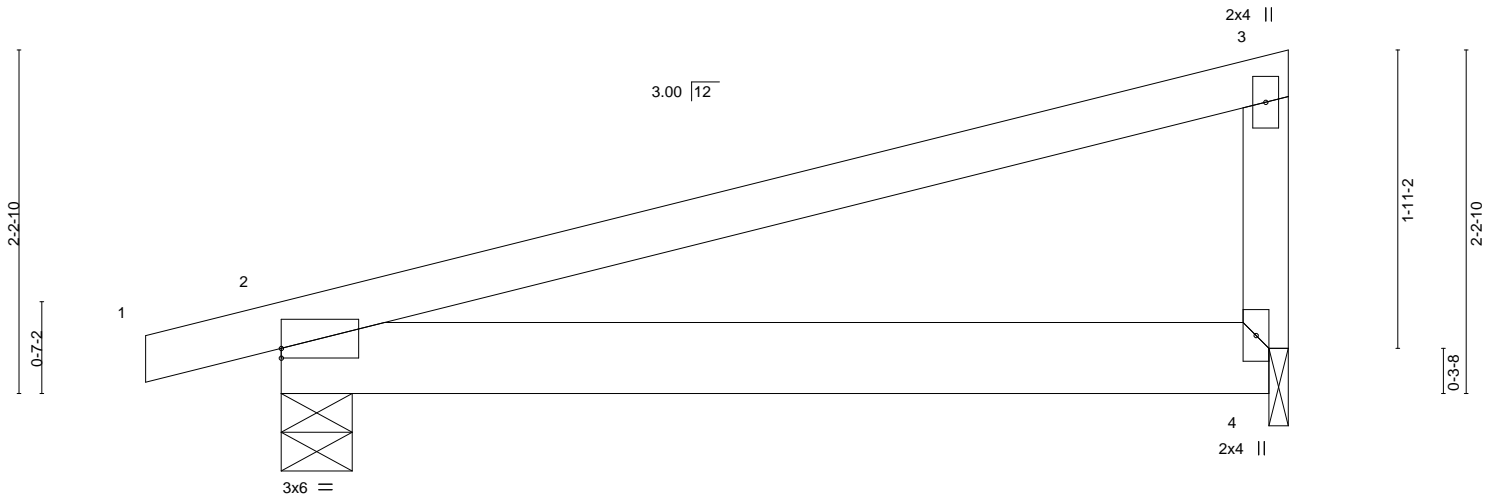


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.03	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.06	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.03	4-7	>999	240	Weight: 29 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

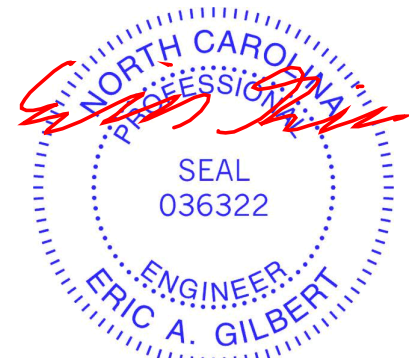
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=308/0-5-8, 4=252/0-1-8
 Max Horz 2=81(LC 11)
 Max Uplift 2=-103(LC 8), 4=-69(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=103.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

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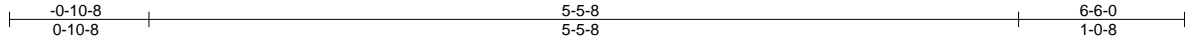
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M03	Truss Type HALF HIP SUPPORTED	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810714
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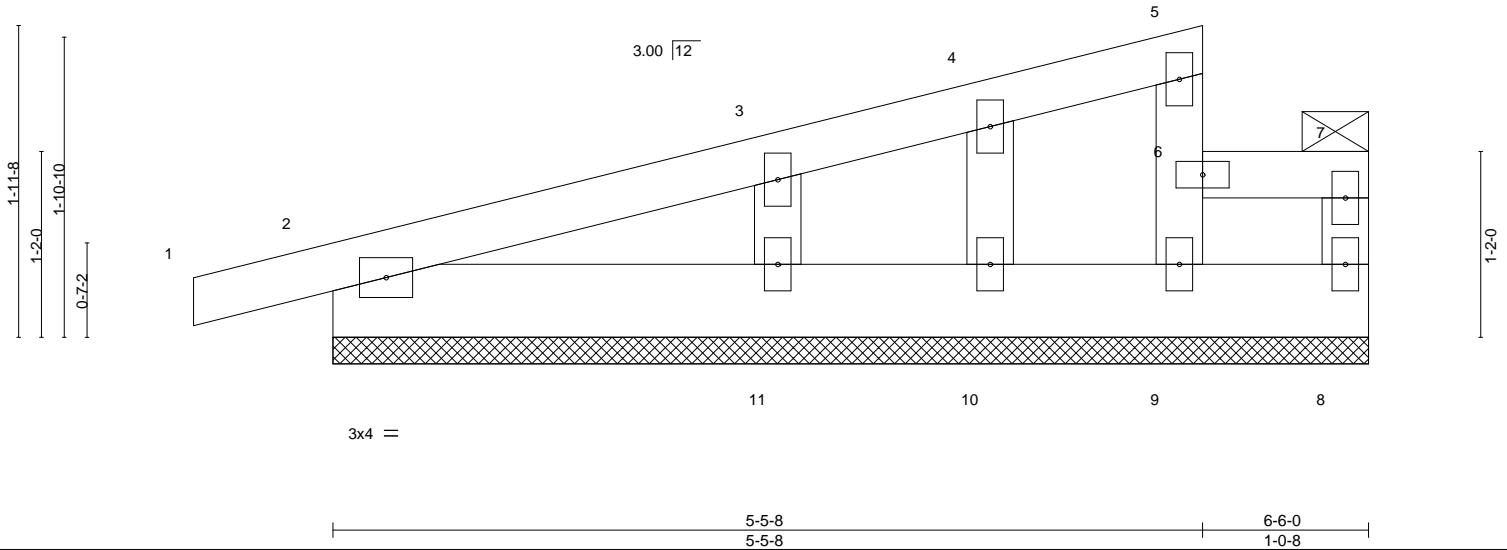
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:18 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-gLsHiGrBNGJo0ZlvjYPm65AZ3AABGDHEwcdBaizajrB



Scale = 1:14.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 8-9.

REACTIONS. All bearings 6-6-0.
(lb) - Max Horz 2=107(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 9, 8, 2, 10, 11
Max Grav All reactions 250 lb or less at joint(s) 9, 8, 2, 10, 11

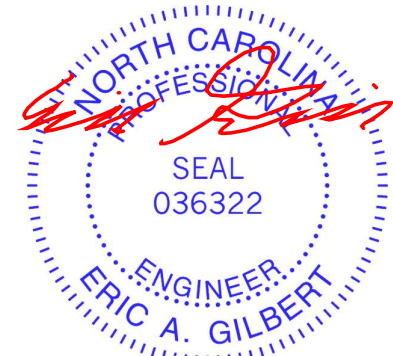
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 6-4-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 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 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) 9, 8, 2, 10, 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 6-7=-75, 2-8=-20



March 15, 2019

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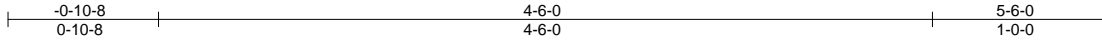
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M04	Truss Type Half Hip	Qty 20	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810715
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:19 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-9YQfvcsq8aRfeit5GFw?eli9aUT?fnN8GMk68zajrA



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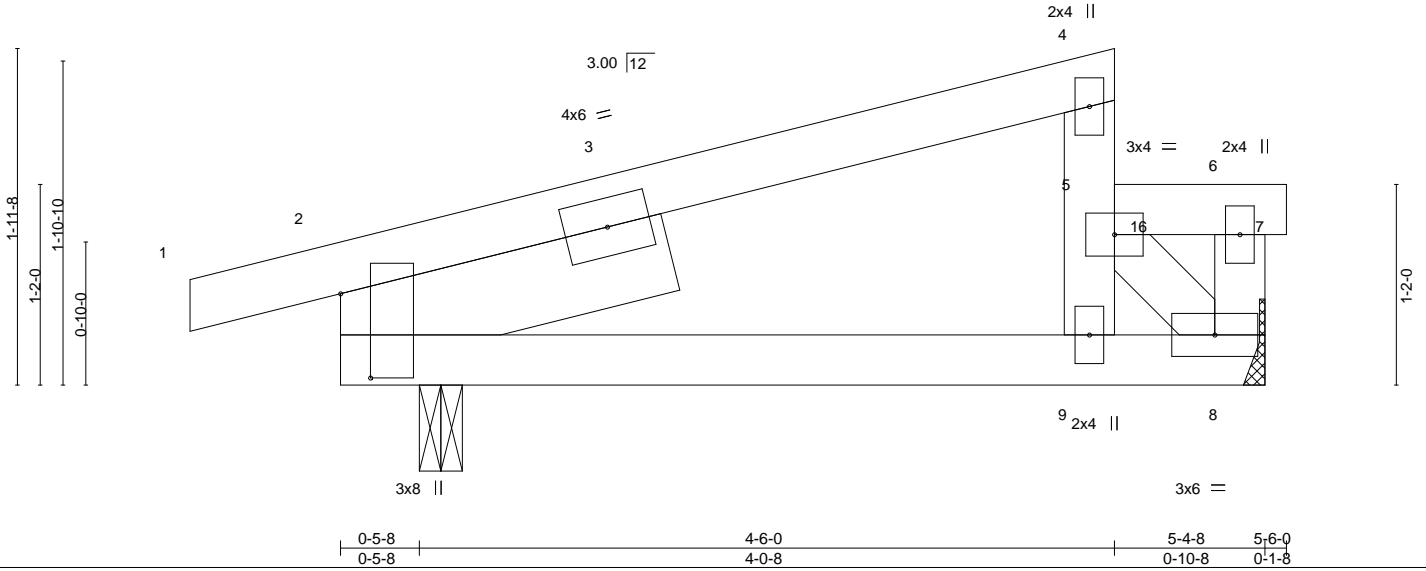


Plate Offsets (X,Y)-- [2:0-5-14,0-2-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.00	9-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	9-14	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.09	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	9-14	>999	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-9: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

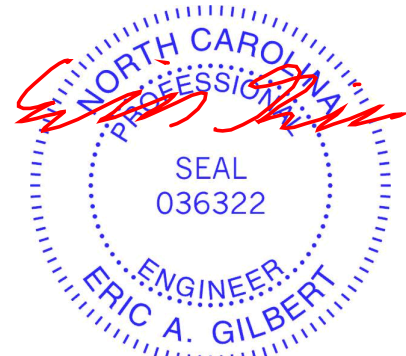
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 5-9, 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=555/Mechanical, 2=331/0-3-0
Max Horz 2=76(LC 12)
Max Uplift 2=-78(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-8=-250/0
BOT CHORD 8-9=-86/334
WEBS 5-8=-453/104

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 5-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 5-6=-60, 6-7=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 16=-410



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M05	Truss Type Half Hip	Qty 8	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810716
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:20 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-dk_27ytSvuZWGsSlqzREWBfFoz_nsk5sXNw6lfbzajr9



Scale = 1:13.0

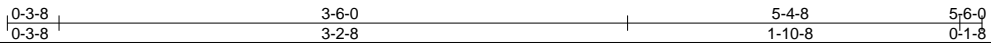
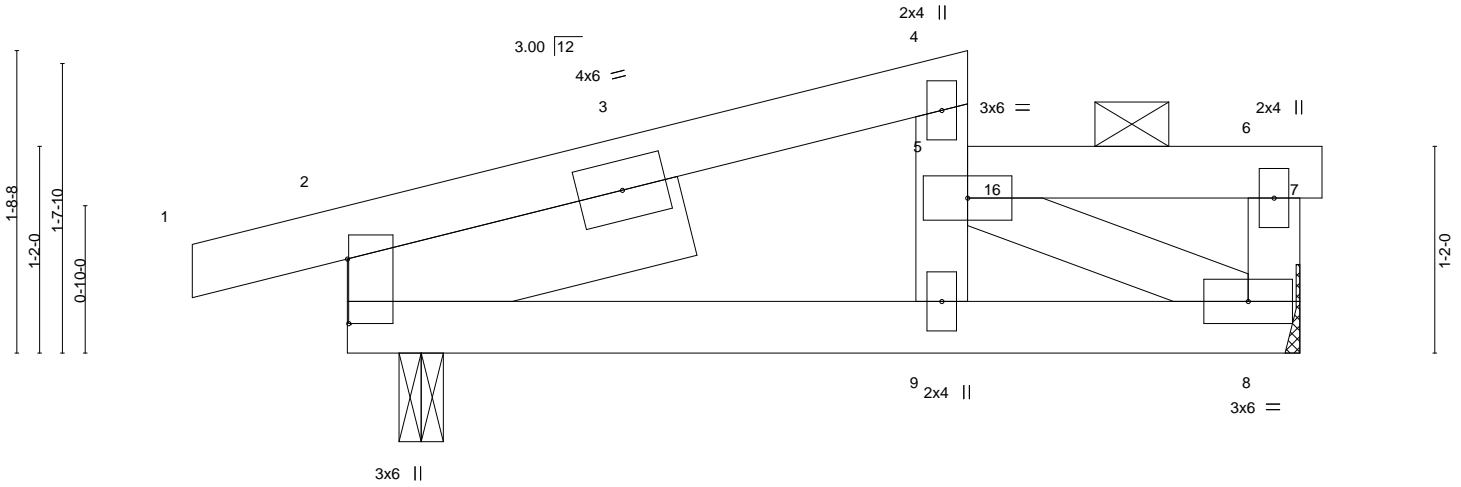


Plate Offsets (X,Y)-- [2:0-4-6,0-0-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.01	9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.02	9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.02	9	>999		
								Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 4-9: 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 5-9, 5-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 8=473/Mechanical, 2=413/0-3-0
 Max Horz 2=71(LC 12)
 Max Uplift 2=-102(LC 8)
 Max Grav 8=570(LC 2), 2=464(LC 2)

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

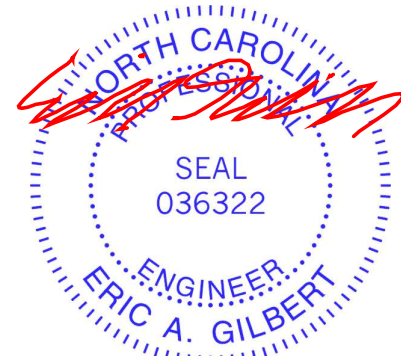
TOP CHORD 2-4=-455/187
 BOT CHORD 2-9=-209/420, 8-9=-320/659
 WEBS 5-8=-727/353

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 5-6-0 zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=102.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 5-6=-60, 6-7=-20, 8-10=-20
 Concentrated Loads (lb)
 Vert: 16=-410



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



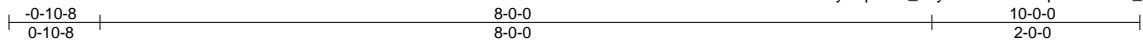
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M06	Truss Type HALF HIP	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810717
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:20 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-dk_27ytSvuZWGsSlqzREBWFoi_mLk4yXNw6lfbzajr9



Scale = 1:22.2

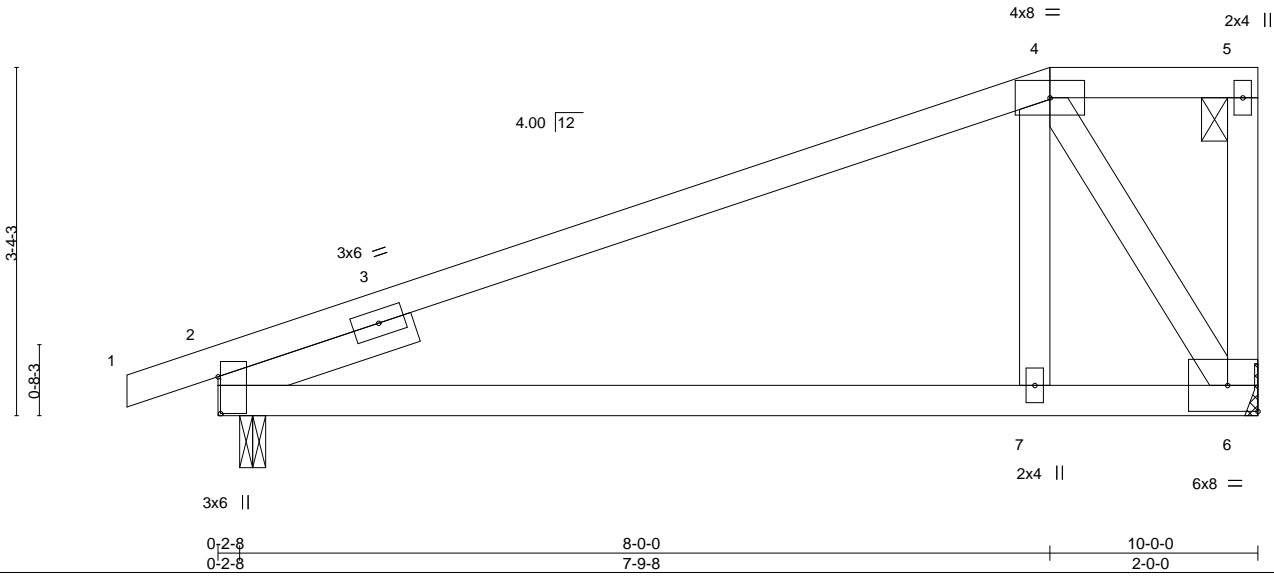


Plate Offsets (X,Y)-- [2:0-4-4,0-0-5]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	0.17	7-12	>704	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.13	7-12	>891		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	-0.03	2	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-AS						
								Weight: 48 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 6=376/Mechanical, 2=465/0-3-0
 Max Horz 2=136(LC 8)
 Max Uplift 6=-216(LC 8), 2=-235(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-313/344
 BOT CHORD 2-7=-390/297, 6-7=-371/287
 WEBS 4-7=-393/300, 4-6=-576/749

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 100 lb uplift at joint(s) except (jt=lb) 6=216, 2=235.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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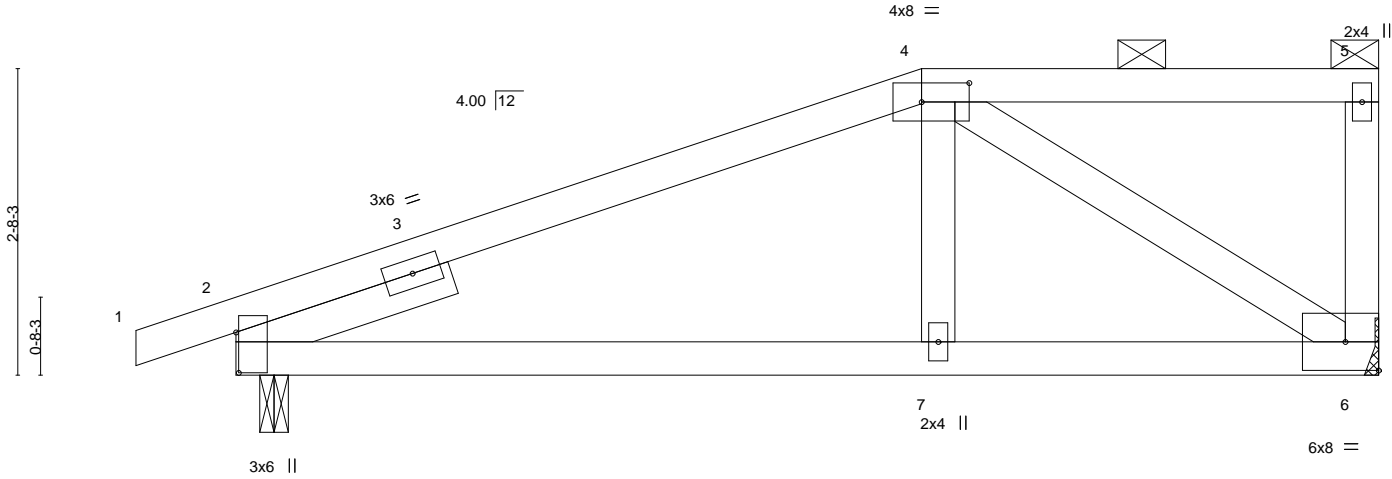
Job 1719437	Truss M07	Truss Type HALF HIP	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810718
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:21 2019 Page 1
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-5wXQKHt4fBhNu01UOgyTkjn2xO9ZTYrgcZrrB1zajr8



Scale = 1:20.2



0'-2'-8"	6'-0-0	10'-0-0
0'-2'-8"	5'-9-8	4'-0-0

Plate Offsets (X,Y)-- [2:0-4-4,0-0-5], [4:0-5-0,0-2-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) 0.05	7-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.04	7-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) -0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-AS					Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 6=376/Mechanical, 2=465/0-3-0
Max Horz 2=106(LC 8)
Max Uplift 6=-208(LC 8), 2=-243(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-432/502
BOT CHORD 2-7=-517/410, 6-7=-532/417
WEBS 4-7=-253/206, 4-6=-466/605

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 100 lb uplift at joint(s) except (jt=lb) 6=208, 2=243.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M08	Truss Type HALF HIP	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810719
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:22 2019 Page 1

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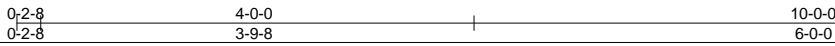
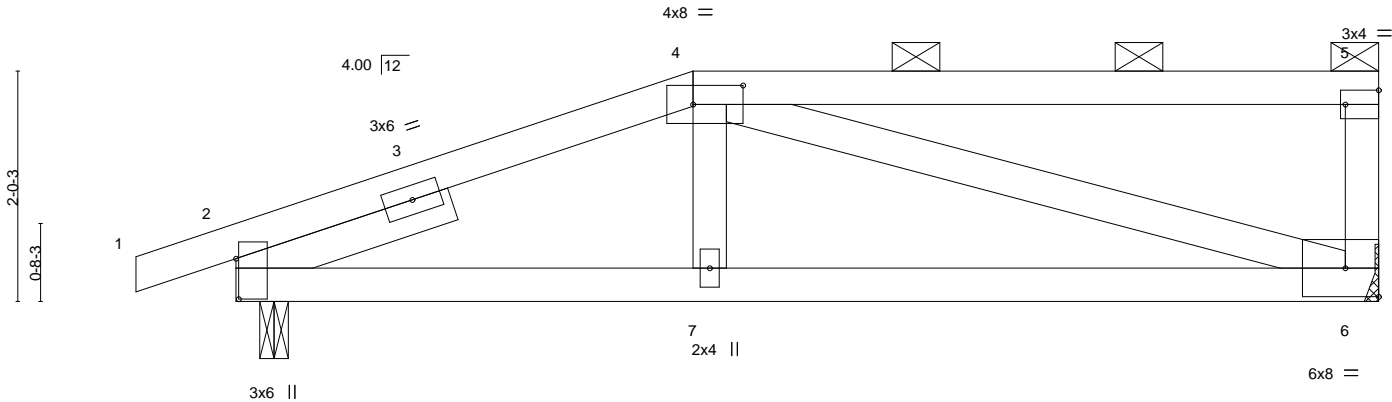


Plate Offsets (X,Y)-- [2:0-4-4,0-0-5], [4:0-5-4,0-2-0], [5:Edge,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.03	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) -0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.08	6-7	>999	240		
							Weight: 47 lb	FT = 20%

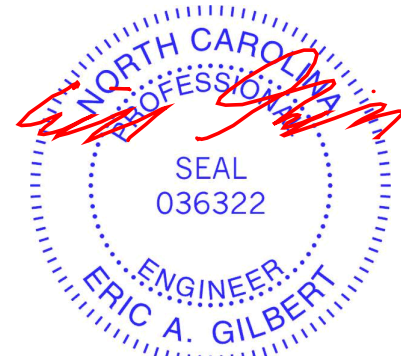
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 6=376/Mechanical, 2=465/0-3-0
 Max Horz 2=77(LC 8)
 Max Uplift 6=-201(LC 8), 2=-250(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-582/677
 BOT CHORD 2-7=-657/531, 6-7=-675/537
 WEBS 4-6=-443/575

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 100 lb uplift at joint(s) except (jt=lb) 6=201, 2=250.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M09	Truss Type HALF HIP GIRDER	Qty 6	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810720
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:23 2019 Page 1

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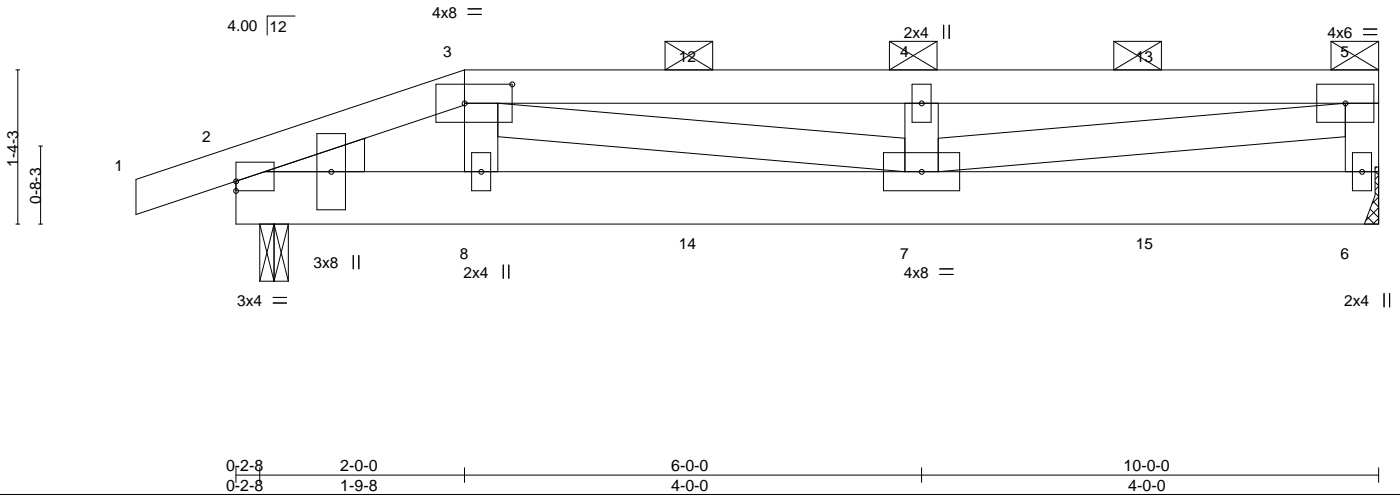


Plate Offsets (X,Y)--	[2:0-0-0,0-1-0], [3:0-5-0,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) 0.04 7-8 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.05 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.21	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 55 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-13 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

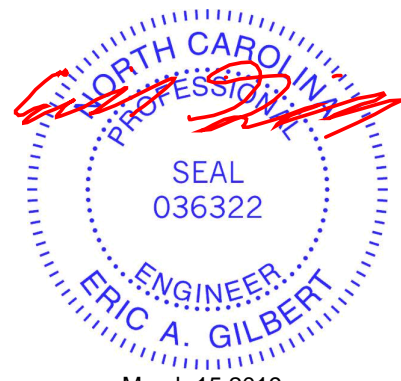
REACTIONS. (lb/size) 6=401/Mechanical, 2=457/0-3-0
 Max Horz 2=47(LC 19)
 Max Uplift 6=-215(LC 4), 2=-256(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-741/400, 3-4=-923/500, 4-5=-923/500, 5-6=-318/174
 BOT CHORD 2-8=-386/695, 7-8=-388/701
 WEBS 5-7=-457/843

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 100 lb uplift at joint(s) except (jt=lb) 6=215, 2=256.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 56 lb up at 2-0-0, 21 lb down and 36 lb up at 4-0-12, and 21 lb down and 36 lb up at 6-0-12, and 21 lb down and 36 lb up at 8-0-12 on top chord, and 6 lb down and 42 lb up at 2-0-0, 5 lb down and 22 lb up at 4-0-12, and 5 lb down and 22 lb up at 6-0-12, and 5 lb down and 22 lb up at 8-0-12 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: 1-3=-60, 3-5=-60, 6-9=-20
 Concentrated Loads (lb)
 Vert: 3=-0(B) 8=-3(B) 7=-4(B) 4=-0(B) 12=-0(B) 13=-0(B) 14=-4(B) 15=-4(B)

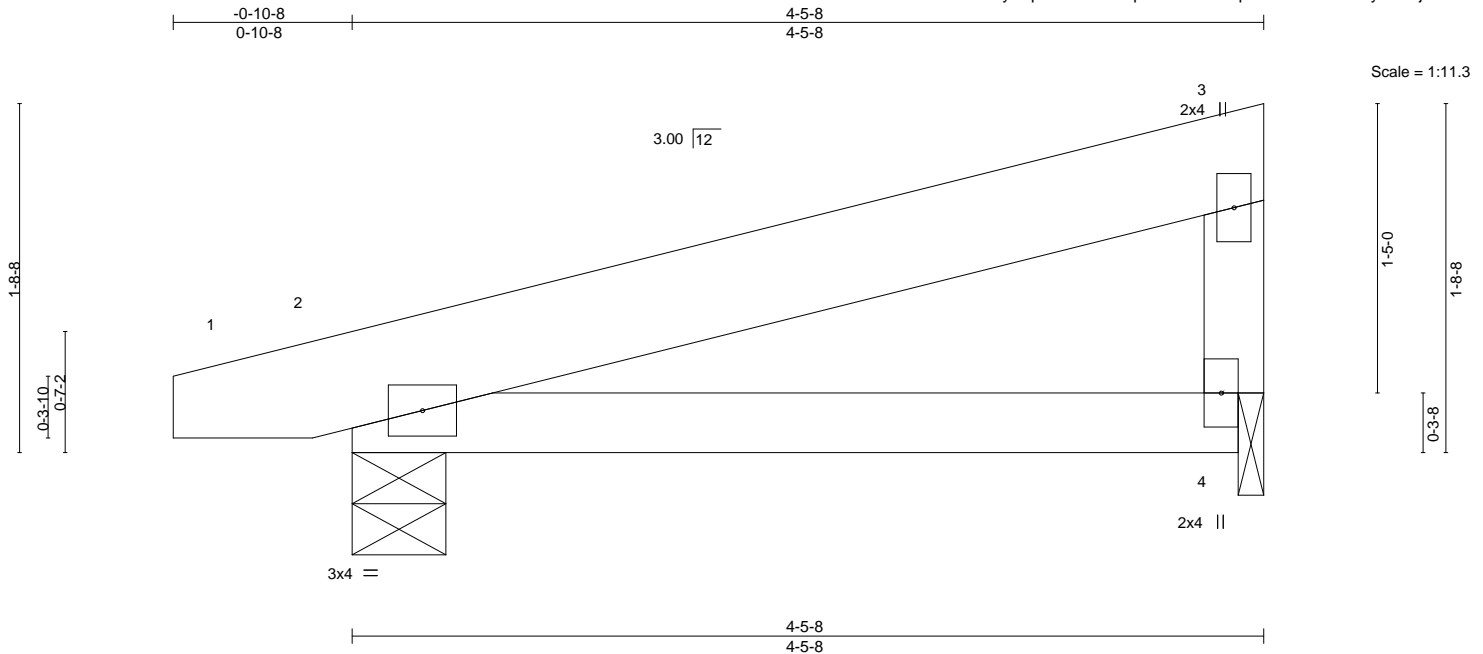


March 15, 2019

Job 1719437	Truss M10	Truss Type GABLE	Qty 8	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810721
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:23 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-1JfAlzvKBpx57KBsV5?xp8tPzBssxT9z3tKfWzajr6



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.14	Vert(LL) -0.01	4-7	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.12	Vert(CT) -0.02	4-7	>999	240			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	2	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.01	4-7	>999	240		Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(lb/size) 2=207/0-5-8, 4=171/0-1-8
Max Horz 2=60(LC 11)
Max Uplift 2=-67(LC 8), 4=-48(LC 12)

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

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable studs spaced at 2-0-0 oc.
- 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 will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



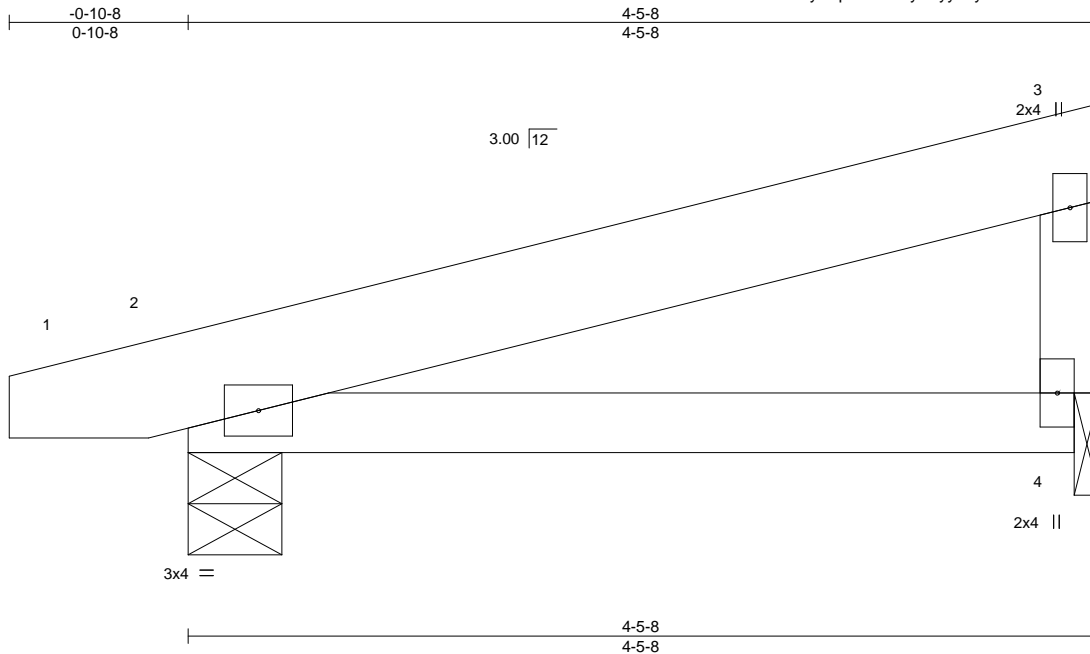
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M11	Truss Type MONOPITCH	Qty 30	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810722
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:24 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-VVDYyJwyy63yIU133oWALMPZibC5gwP6IX4VoMzajr5



Scale = 1:11.3

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.14	Vert(LL) -0.01	4-7	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.12	Vert(CT) -0.02	4-7	>999	240			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	2	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.01	4-7	>999	240		Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

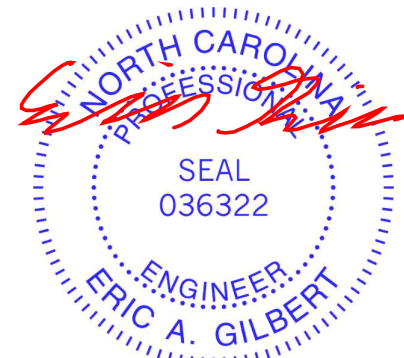
REACTIONS.

(lb/size) 2=207/0-5-8, 4=171/0-1-8
 Max Horz 2=56(LC 8)
 Max Uplift 2=-62(LC 8), 4=-52(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M12	Truss Type Monopitch	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810723
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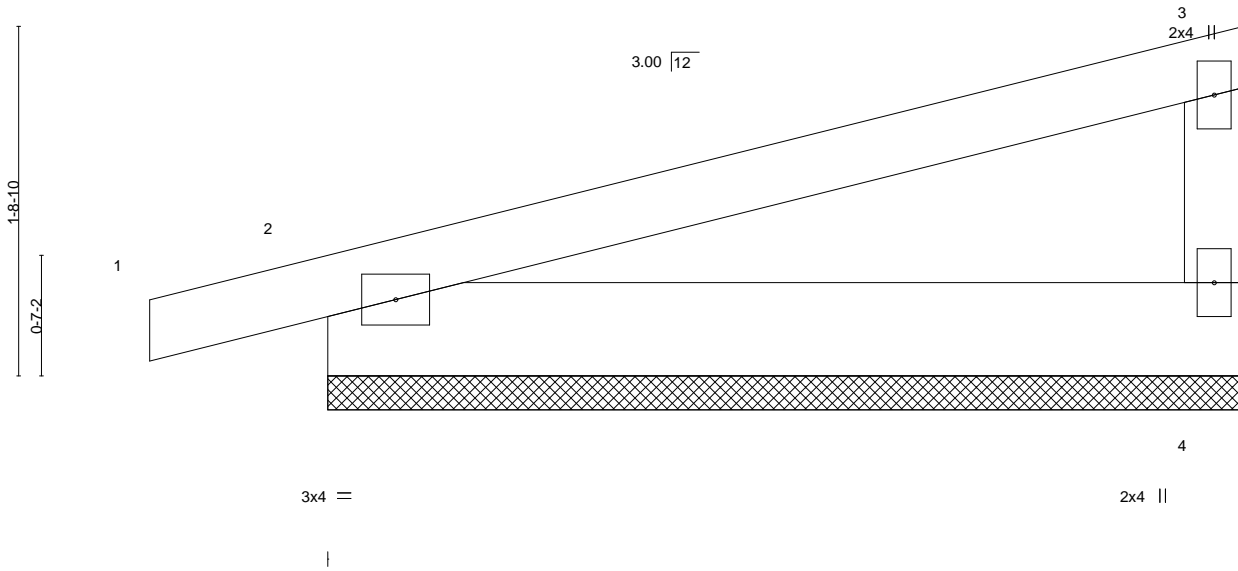
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:25 2019 Page 1

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Scale = 1:11.3



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.33	Vert(LL) -0.01	1	n/r	120		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.10	Vert(CT) 0.01	1	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	4	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 20 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

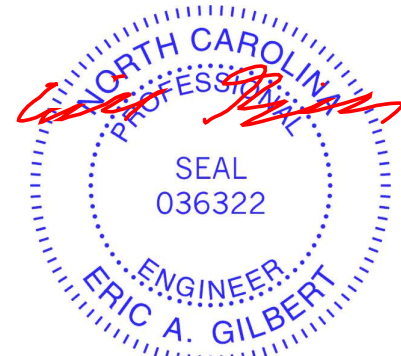
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=169/4-6-0, 2=232/4-6-0
 Max Horz 2=61(LC 9)
 Max Uplift 4=-47(LC 12), 2=-86(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 100 lb uplift at joint(s) 4, 2.



March 15, 2019

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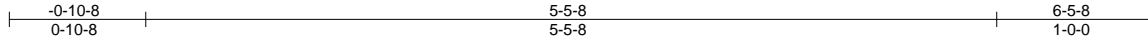
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M13	Truss Type Half Hip	Qty 10	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810724
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:25 2019 Page 1

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Scale = 1:14.8

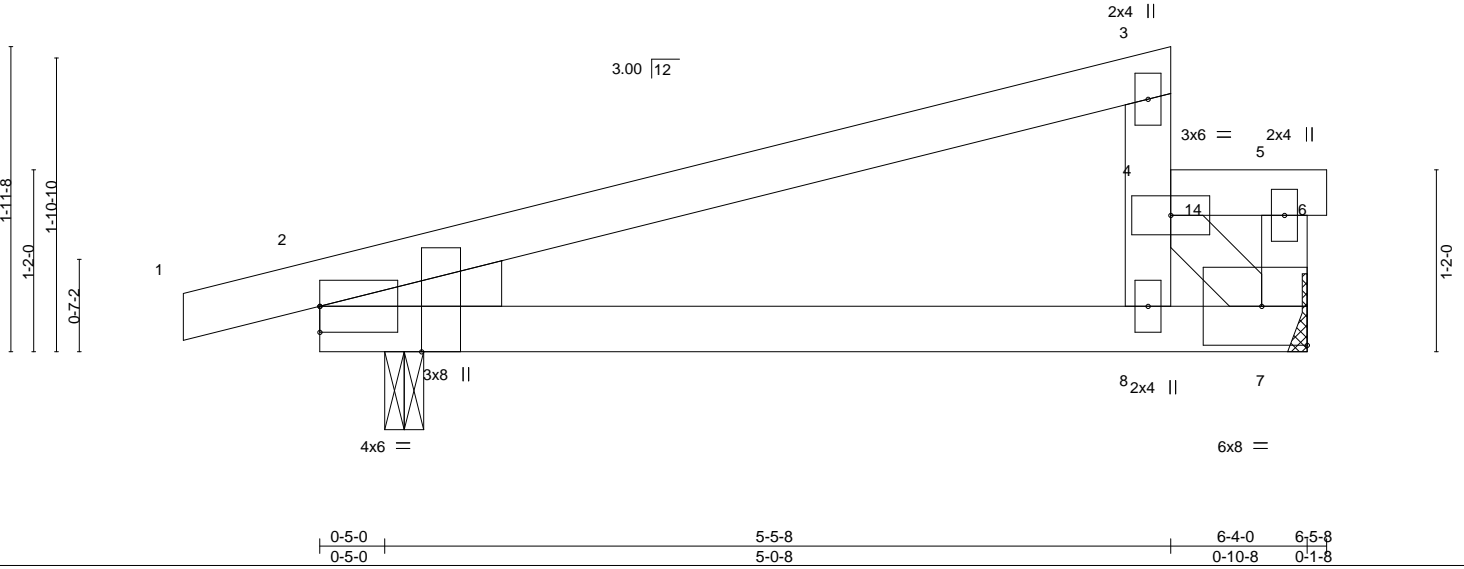


Plate Offsets (X,Y)-- [2:0-3-8,Edge]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	TC	BC	Vert(LL)	Vert(CT)	Horz(CT)	MT20	244/190	
TCLL 20.0	2-0-0	0.43	0.23	0.04	-0.03	-0.01			
TCDL 10.0	Plate Grip DOL 1.15	WB 0.16		8-13	8-13	2			
BCLL 0.0 *	Lumber DOL 1.15	Matrix-MP		>999	>999	n/a			
BCDL 10.0	Rep Stress Incr NO			n/a	n/a				
	Code IRC2015/TPI2014						Weight: 27 lb	FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-8: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-8, 4-6.
BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.

WEDGE
Left: 2x4 SP No.3

REACTIONS. (lb/size) 7=605/Mechanical, 2=358/0-3-0
Max Horz 2=105(LC 12)
Max Uplift 2=162(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-264/182, 4-8=-307/169
BOT CHORD 7-8=-382/415
WEBS 4-7=-588/541

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 6-5-8 zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=162.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-60, 5-6=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 14=-410



March 15, 2019

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M14	Truss Type Monopitch	Qty 7	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810725
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:26 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-RuLJN?xDUKJg_nvRBDYeRnVr6PsD8qvPlrZcsEzajr3



Scale: 3/4"=1'

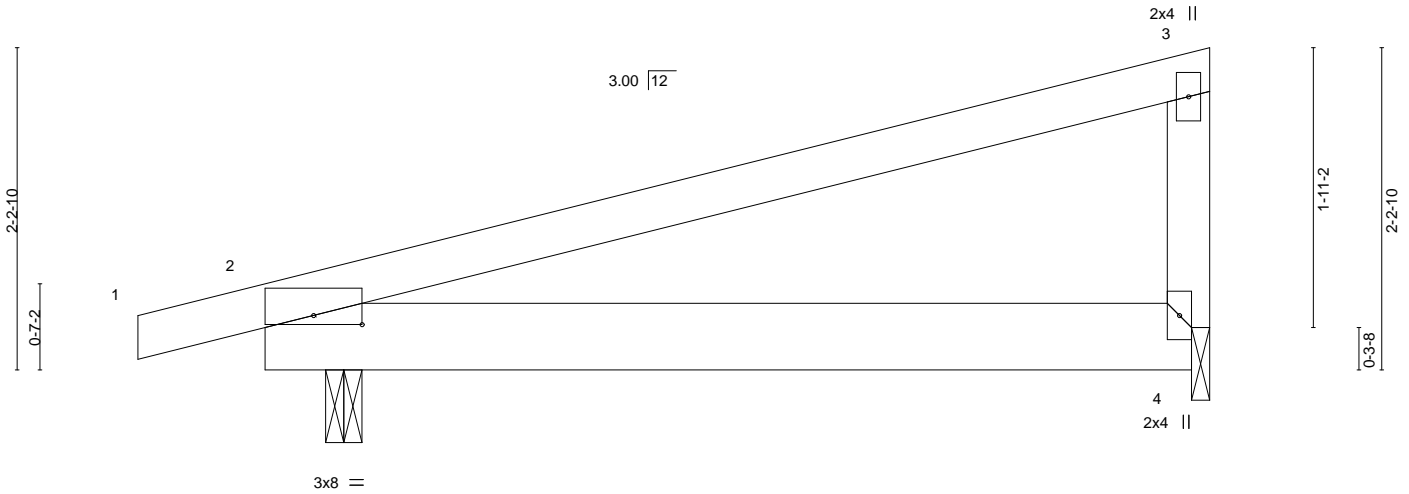


Plate Offsets (X,Y)-- [2:0-4-0,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) 0.05	4-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.03	4-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS						
							Weight: 29 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

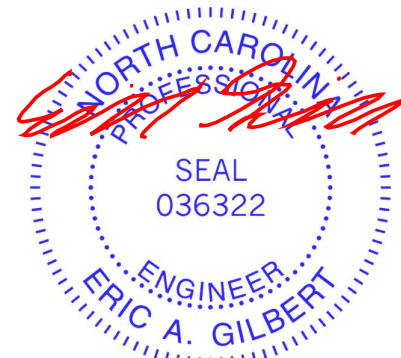
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=337/0-3-0, 4=223/0-1-8
 Max Horz 2=87(LC 8)
 Max Uplift 2=-179(LC 8), 4=-126(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 4=126.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M15	Truss Type MONOPITCH	Qty 10	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810726
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:27 2019 Page 1
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Scale = 1:24.3

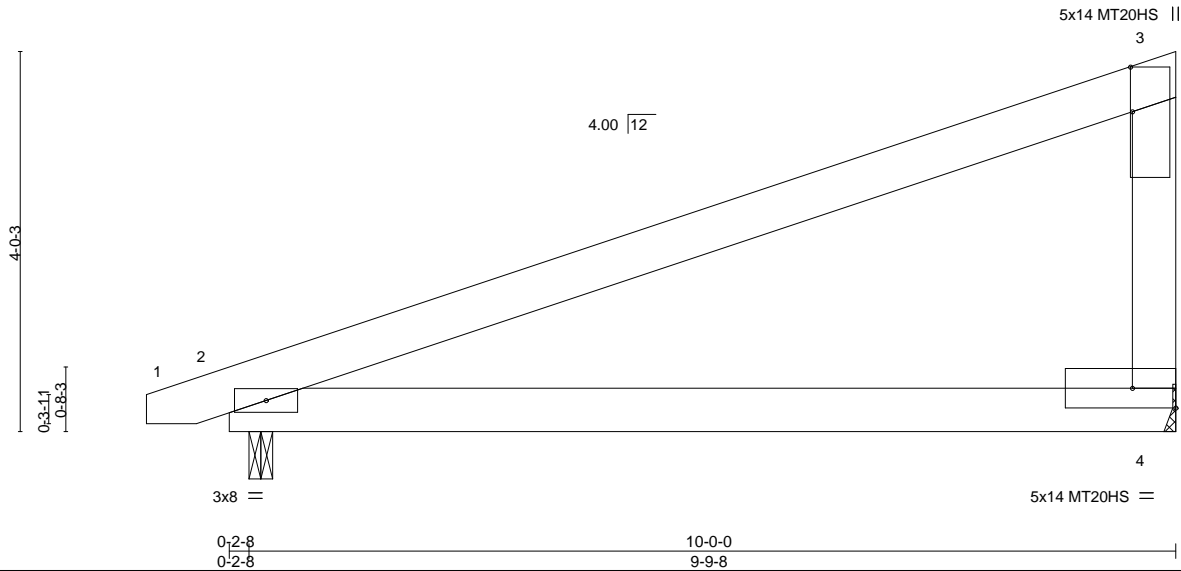


Plate Offsets (X,Y)-- [3:0-5-11,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) 0.17	4-7	>689	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.14	4-7	>867	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS						
							Weight: 58 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 4=390/Mechanical, 2=429/0-3-0
Max Horz 2=157(LC 8)
Max Uplift 4=-230(LC 8), 2=-205(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) except (jt=lb) 4=230, 2=205.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

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818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss M16	Truss Type GABLE	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810727
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:27 2019 Page 1
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Scale = 1:15.7

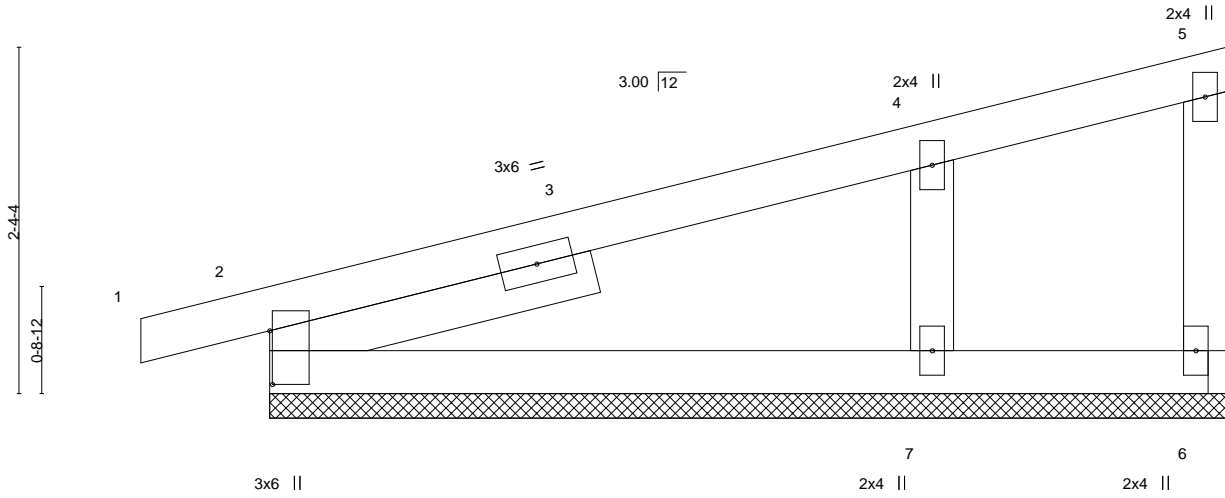


Plate Offsets (X,Y)-- [2:0-4-6,0-0-3]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 29 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 2-3-5

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. (lb/size) 6=4/6-6-0, 2=209/6-6-0, 7=348/6-6-0
 Max Horz 2=82(LC 12)
 Max Uplift 6=-2(LC 3), 2=-64(LC 8), 7=-109(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-7=-255/259

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 6, 2 except (jt=lb) 7=109.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M17	Truss Type Monopitch	Qty 5	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810728
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:28 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-OHT3ohzT0LZND53qlea6WCa9wCVVckPiD92jx7zajr1



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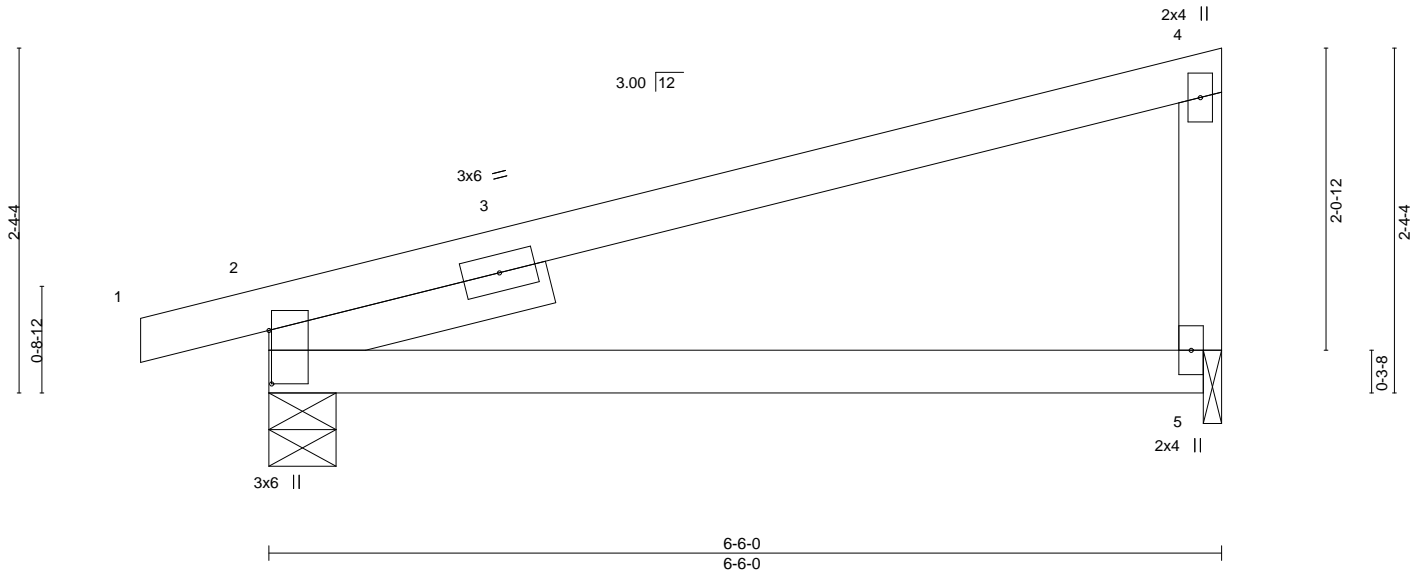


Plate Offsets (X,Y)-- [2:0-4-6,0-0-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.06	5-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.15	5-8	>516	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.08	5-8	>912	240	Weight: 26 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=310/0-5-8, 5=251/0-1-8
 Max Horz 2=84(LC 8)
 Max Uplift 2=-95(LC 8), 5=-77(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-355/34

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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) 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 15, 2019

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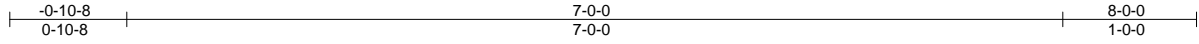
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M18	Truss Type Half Hip	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810729
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:29 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-sTOR?0_5nfhErFe0sM5L2P7JMcoxL9BsSpnGTZzajr0



Scale = 1:17.2

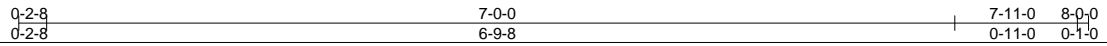
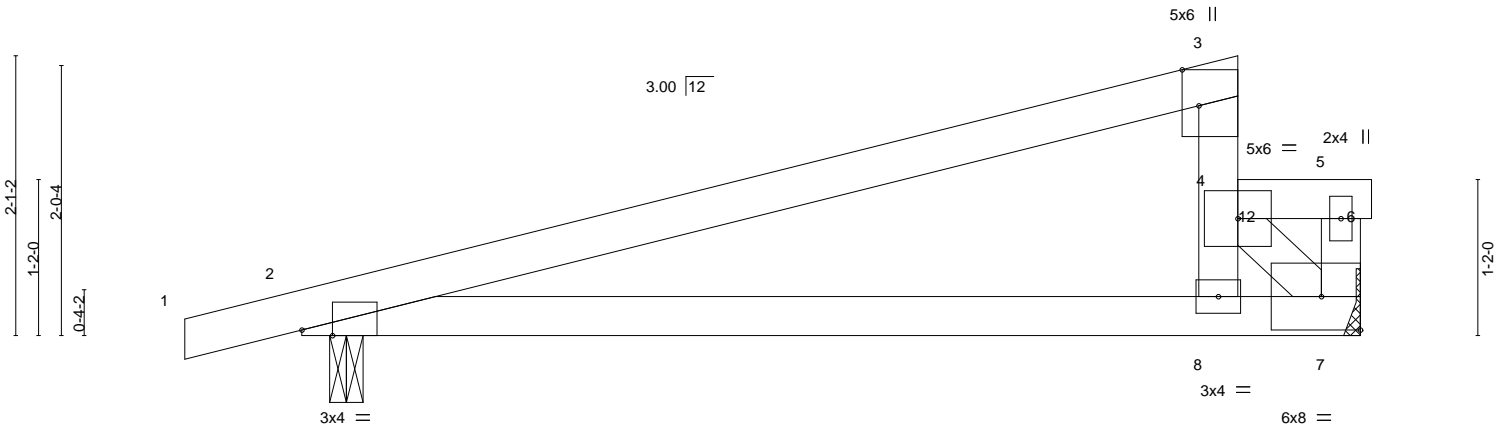


Plate Offsets (X,Y)-- [2:0-2-12,Edge], [3:0-3-4,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) 0.16	8-11	>583	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.14	8-11	>678	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.16	Horz(CT) -0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 30 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 3-8: 2x4 SP No.2

BRACING-
 TOP 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.): 4-8, 4-6.
 BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.

REACTIONS. (lb/size) 7=692/Mechanical, 2=397/0-3-0
 Max Horz 2=129(LC 12)
 Max Uplift 2=-185(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-469/369, 4-8=-410/280, 5-7=-322/149
 BOT CHORD 2-8=-410/428, 7-8=-402/538
 WEBS 4-7=-661/530

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 8-0-0 zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-5=-60, 5-6=-20, 7-9=-20
 Concentrated Loads (lb)
 Vert: 12=-410



March 15, 2019

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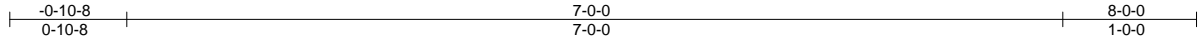
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss M19	Truss Type Half Hip	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810730
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:30 2019 Page 1

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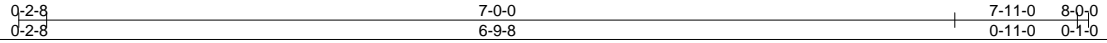
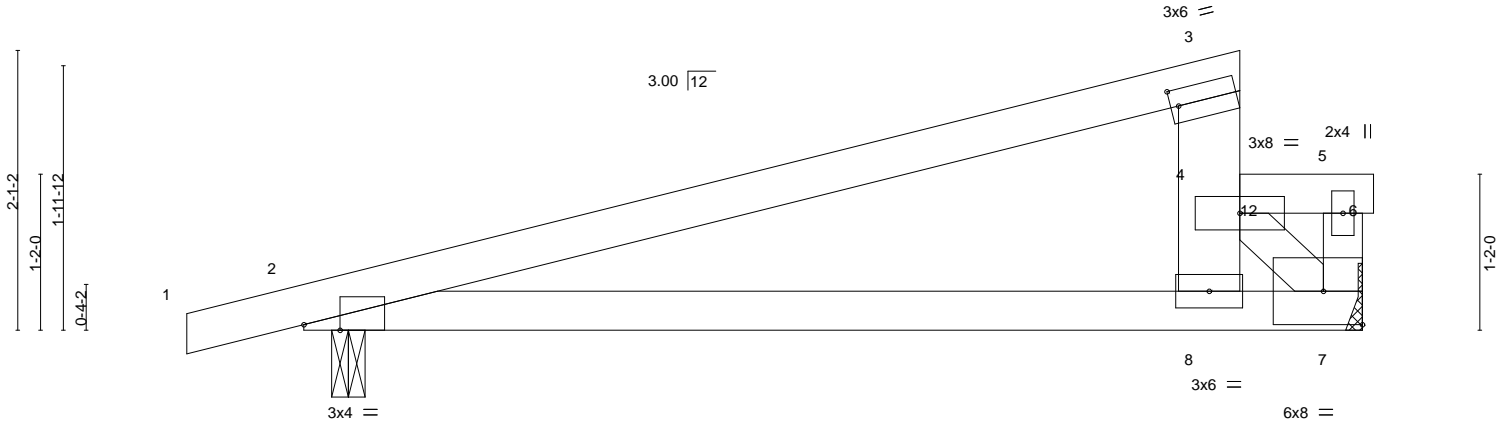


Plate Offsets (X,Y)--	[2:0-3-4,Edge], [3:0-0-11,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) 0.14	8-11	>664	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.12	8-11	>772	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.14	Horz(CT) -0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 31 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 3-8: 2x6 SP No.2

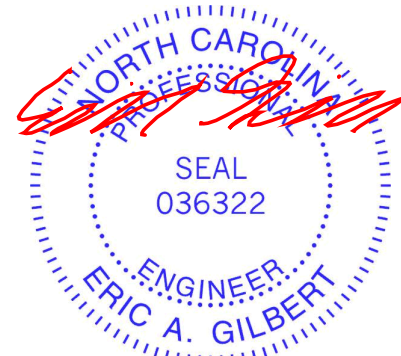
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8, 4-6.
 BOT CHORD Rigid ceiling directly applied or 8-0-6 oc bracing.

REACTIONS. (lb/size) 7=692/Mechanical, 2=397/0-3-0
 Max Horz 2=127(LC 12)
 Max Uplift 2=-185(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-492/398, 4-8=-297/204, 5-7=-272/86
 BOT CHORD 2-8=-438/451, 7-8=-374/551
 WEBS 4-7=-647/469

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 8-0-0 zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) except (jt=lb) 2=185.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-5=-60, 5-6=-20, 7-9=-20
 Concentrated Loads (lb)
 Vert: 12=-410



March 15, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

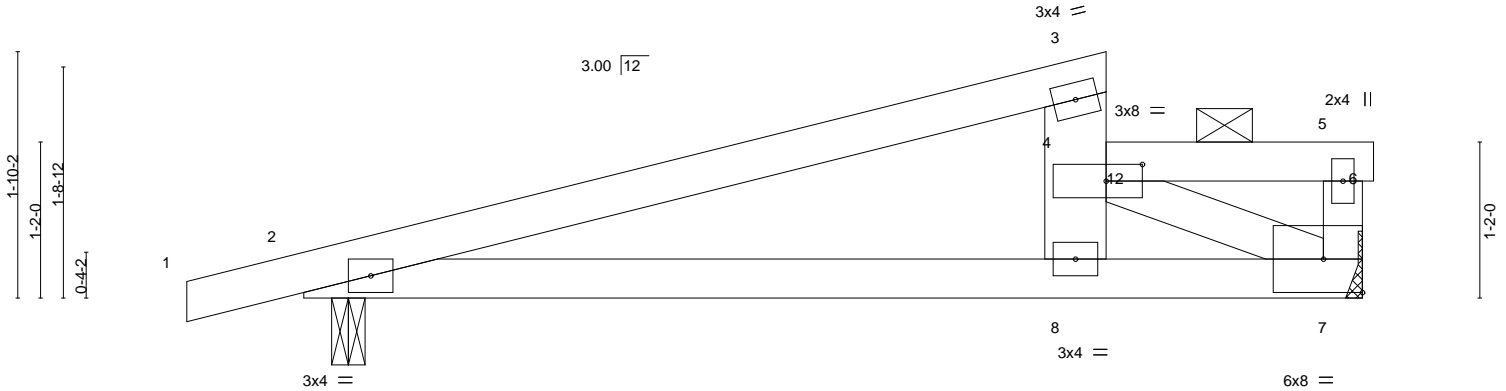
Job 1719437	Truss M20	Truss Type Half Hip	Qty 8	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810731
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:30 2019 Page 1
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Scale = 1:17.2



0-2-8	6-0-0	7-11-0	8-0-0
0-2-8	5-9-8	1-11-0	0-1-0

Plate Offsets (X,Y)-- [4:0-3-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL) 0.09	8-11	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT) -0.08	8-11	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Horz(CT) 0.01	7	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS					Weight: 32 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 3-8: 2x6 SP No.2

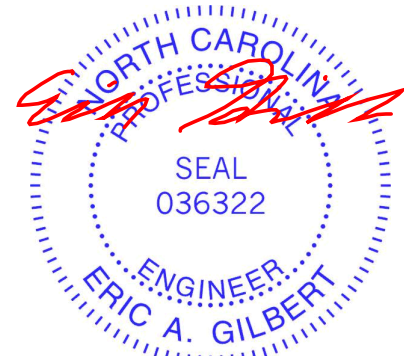
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8, 4-6.
 BOT CHORD Rigid ceiling directly applied or 7-5-9 oc bracing.

REACTIONS. (lb/size) 7=639/Mechanical, 2=450/0-3-0
 Max Horz 2=104(LC 12)
 Max Uplift 2=-161(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-803/517
 BOT CHORD 2-8=-549/758, 7-8=-576/1054
 WEBS 4-7=-1020/575

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 8-0-0 zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=161.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-5=-60, 5-6=-20, 7-9=-20
 Concentrated Loads (lb)
 Vert: 12=-410



March 15, 2019

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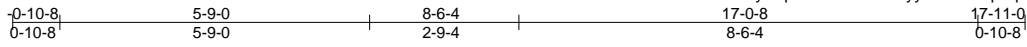
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss N01	Truss Type KINGPOST	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810732
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:31 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-os8CQi?LJGyy4YoPzn8p8qCfvQWHP2u8v7GNXSzajr_



4x6 =

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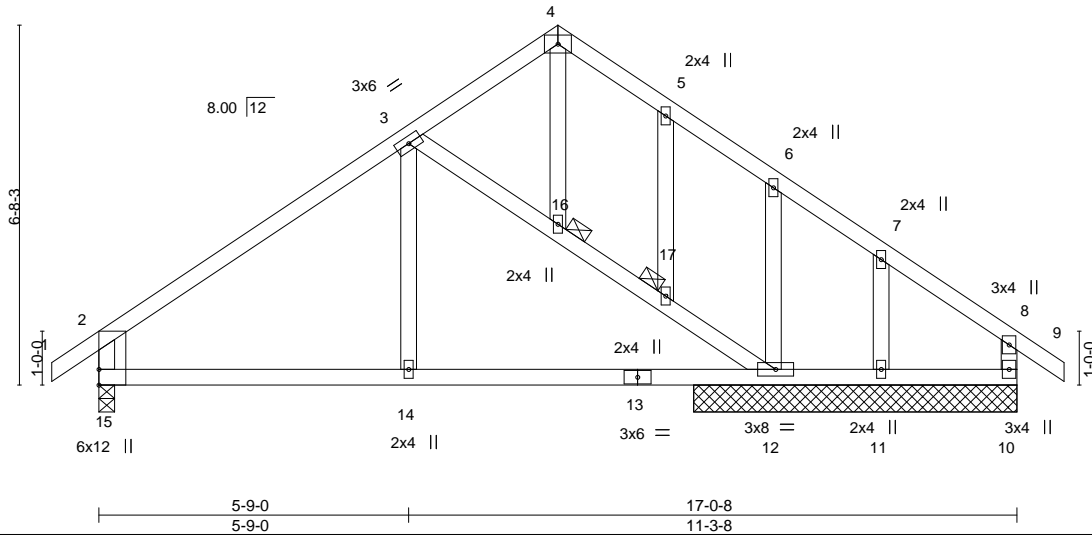


Plate Offsets (X,Y)-- [2:0-1-3,0-1-12], [15:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.04	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.10	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.21	Horz(CT) 0.01	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.01	12-14	>999	240		
							Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-15: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS.

All bearings 6-0-0 except (jt=length) 15=0-3-8.
 (lb) - Max Horz 15=-210(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 12 except 15=-123(LC 12), 11=-169(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 11 except 15=658(LC 1), 12=667(LC 1), 10=390(LC 1)

FORCES.

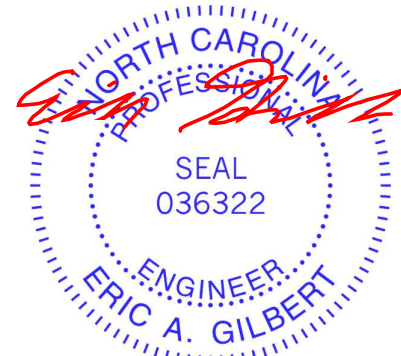
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-689/144, 3-4=-304/150, 5-6=-325/89, 7-8=-331/14, 2-15=-585/203, 8-10=-321/31
 BOT CHORD 14-15=-78/574, 12-14=-78/574
 WEBS 3-16=-431/192, 16-17=-399/171, 12-17=-428/190, 6-12=-284/136

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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) 12 except (jt=lb) 15=123, 11=169.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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=-60, 2-4=-60, 4-8=-60, 8-9=-60, 10-15=-20, 3-12=-30(F)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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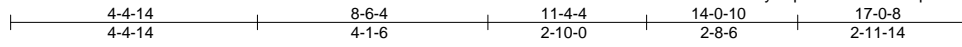
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss N02	Truss Type Common Girder	Qty 4	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810733
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:32 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-G2iae20z4a4piiNbXUf2g2lxWqL_YSpI8n0w3uzajqz



Scale = 1:41.1

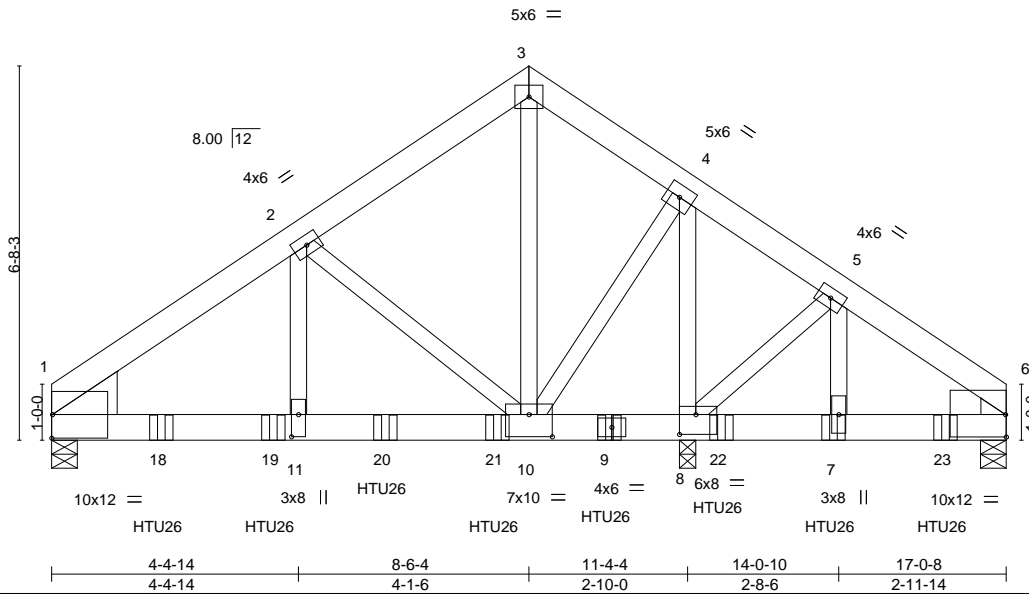


Plate Offsets (X,Y)-- [1:0-0-1,0-0-1], [1:0-3-11,0-0-2], [1:Edge,0-5-1], [6:Edge,0-4-13], [6:0-3-11,0-0-2], [6:0-0-1,0-0-1], [8:0-3-8,0-4-4], [10:0-5-0,0-4-12], [11:0-4-12,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.04 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.08 10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03 10-11	>999	240		
								Weight: 270 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x10 SP DSS, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-10.

REACTIONS. (lb/size) 8=7951/0-3-8 (req. 0-4-11), 1=3886/0-5-8, 6=1903/0-5-8
 Max Horz 1=162(LC 26)
 Max Uplift 8=-613(LC 9), 1=-527(LC 8), 6=-272(LC 9)
 Max Grav 8=7951(LC 1), 1=3886(LC 1), 6=1907(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4563/566, 2-3=-1791/242, 3-4=-1800/254, 4-5=-48/534, 5-6=-1233/145
 BOT CHORD 1-11=-507/3701, 10-11=-507/3701, 8-10=-442/123, 7-8=-87/1054, 6-7=-87/1054
 WEBS 2-11=-384/3254, 2-10=-2912/546, 3-10=-178/1697, 4-10=-271/3437, 4-8=-4232/373, 5-8=-2008/278, 5-7=-141/2014

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 8 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=613, 1=527, 6=272.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-8 from the left end to 15-11-8 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

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. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss N02	Truss Type Common Girder	Qty 4	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810733
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:33 2019 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-kEGyrO1crtCgKsxn5BAHDFH6GD5DHv3RMRIUbKzajqy

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 9=-1547(B) 7=-1547(B) 18=-1546(B) 19=-1547(B) 20=-1547(B) 21=-1547(B) 22=-1547(B) 23=-1547(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



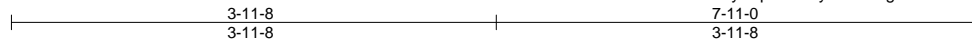
818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss PB01	Truss Type GABLE	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810734
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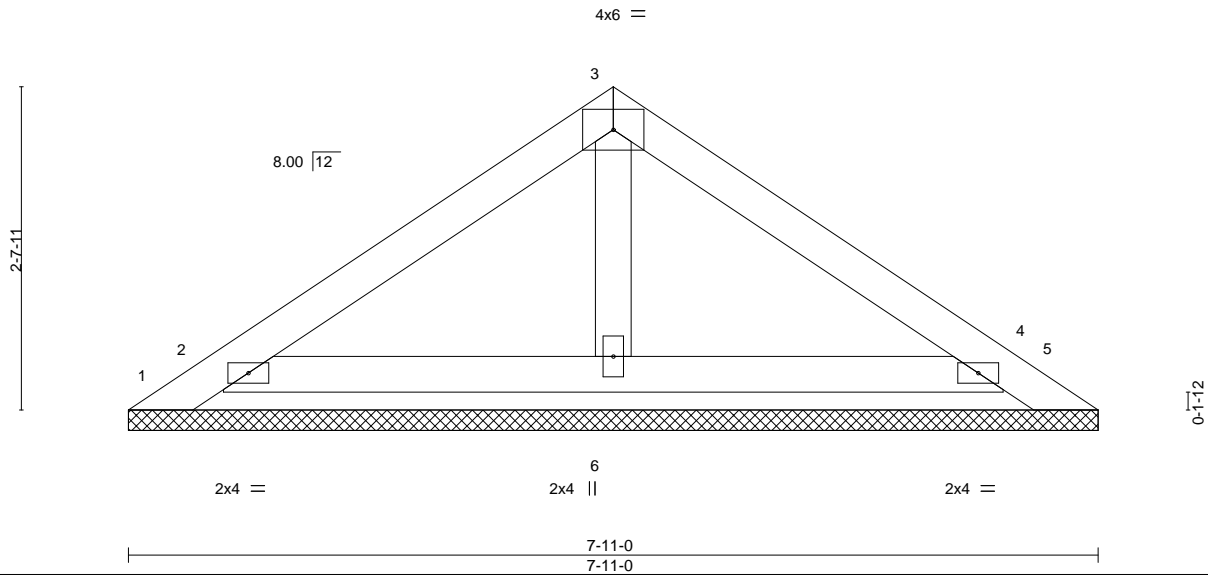
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:33 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-kEGyrO1crtCgKsxn5BAHDFH6BDHYH?DRMRIUbKzajqy



Scale = 1:18.8



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

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

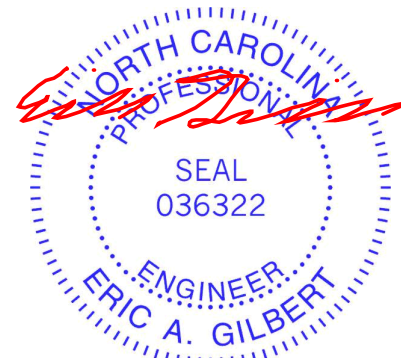
REACTIONS.

All bearings 7-11-0.
 (lb) - Max Horz 1=70(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=153(LC 19), 5=123(LC 20), 2=197(LC 12), 4=180(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=339(LC 19), 4=320(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 1, 123 lb uplift at joint 5, 197 lb uplift at joint 2 and 180 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 15, 2019

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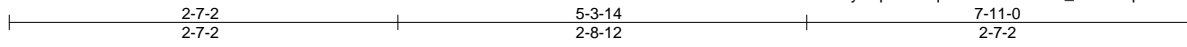
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss PB02	Truss Type GABLE	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810735
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:34 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-CQqK3k1EcBKXx0W_fvhWITq1ddw0SPbb5V17nzajqx



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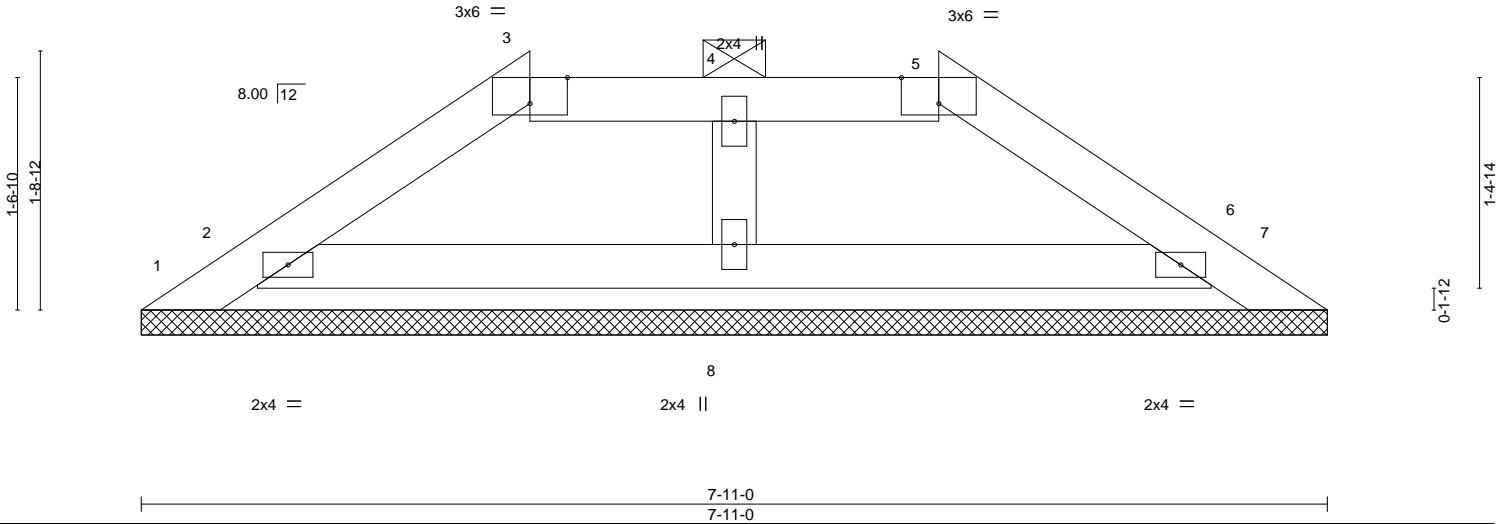


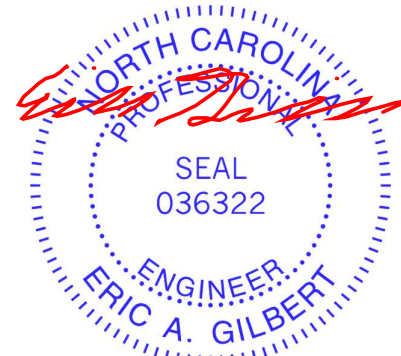
Plate Offsets (X,Y)--	[3:0-3-0,Edge], [5:0-3-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 24 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-5.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-11-0.
 (lb) - Max Horz 1=42(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 1, 7, 2, 6, 8.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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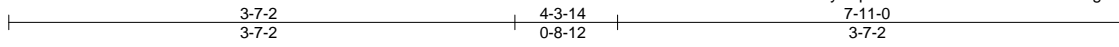


Job 1719437	Truss PB03	Truss Type GABLE	Qty 1	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810736
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:35 2019 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUBynvpB-hdOIG42sMVSOZA5ACcClgNT81zClvikqIEbgDzajqw



Scale = 1:16.4

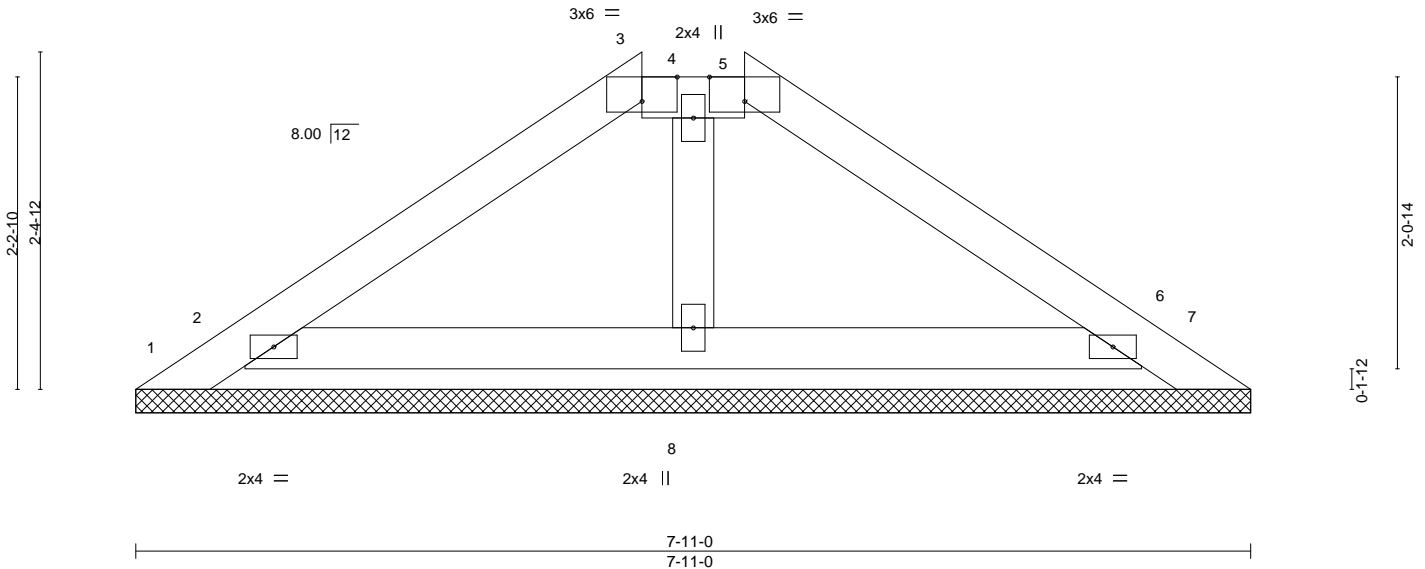


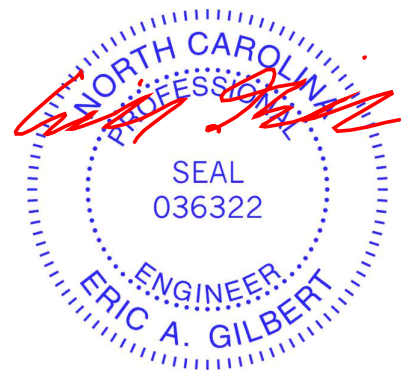
Plate Offsets (X,Y)--	[3:0-3-0,Edge], [5:0-3-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-5.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-11-0.
 (lb) - Max Horz 1=61(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=114(LC 19), 2=141(LC 12), 6=125(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8 except 2=299(LC 19), 6=281(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 7 except (jt=lb) 1=114, 2=141, 6=125.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

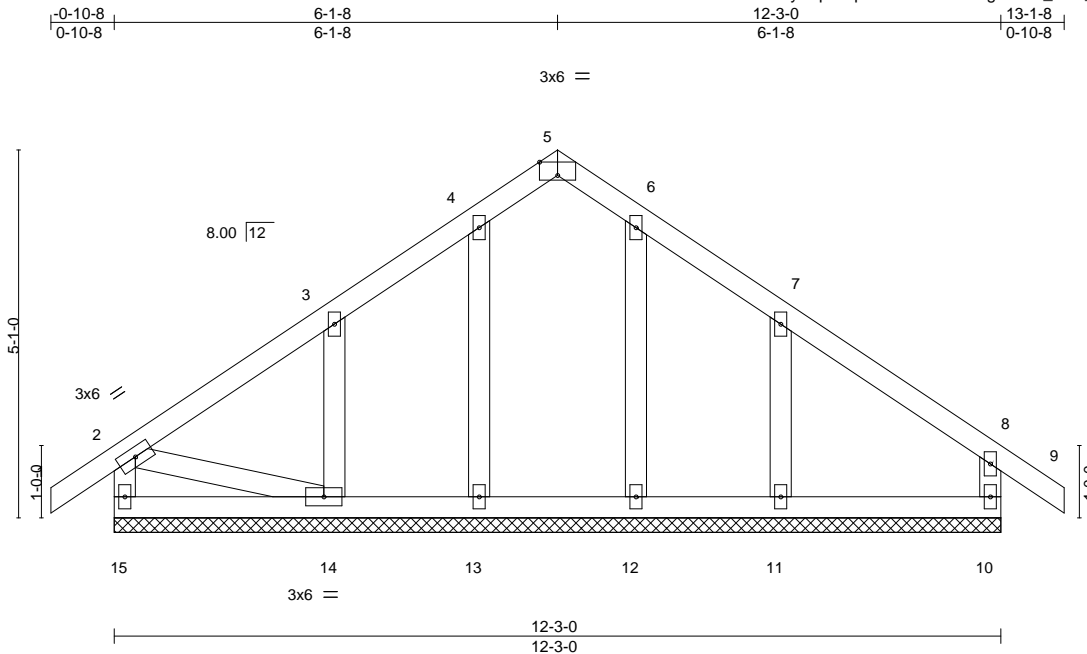


Job 1719437	Truss R01	Truss Type GABLE	Qty 4	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810737
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:36 2019 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-9px5TQ3U7oaFBKgmMkK_ruve_RlqUMYU3P_8Cfzajqv



Scale: 3/8"=1'

Plate Offsets (X,Y)-- [5:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 68 lb	FT = 20%

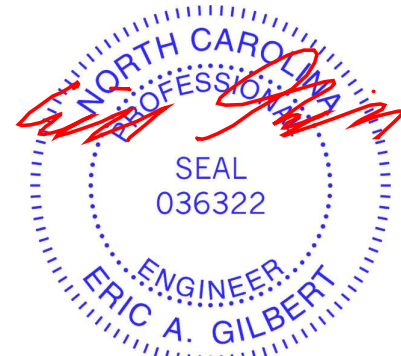
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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. All bearings 12-3-0.
 (lb) - Max Horz 15=165(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 10, 13 except 14=150(LC 12), 11=165(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 10, 13, 12 except 14=250(LC 19), 11=252(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 15, 10, 13 except (jt=lb) 14=150, 11=165.



March 15, 2019

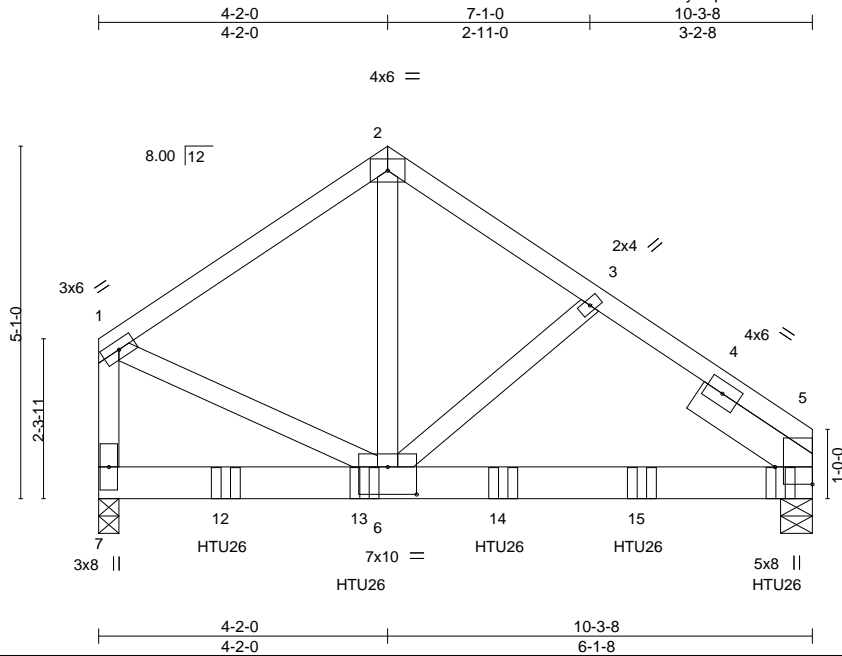
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss R02	Truss Type Common Girder	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810738
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:37 2019 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-d?VThm46u6i6oTFZK1FDN5SJRtBdK81H3jkh6zajqu



Scale = 1:33.2

Plate Offsets (X,Y)-- [5:Edge,0-6-8], [6:0-5-0,0-4-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.06	6-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.11	6-10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.35	Horz(CT) -0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.05	6-10	>999	240		
							Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-11-12

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.

(lb/size) 5=3891/0-5-8, 7=3258/0-3-8
Max Horz 7=-155(LC 6)
Max Uplift 5=-652(LC 9), 7=-428(LC 9)

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

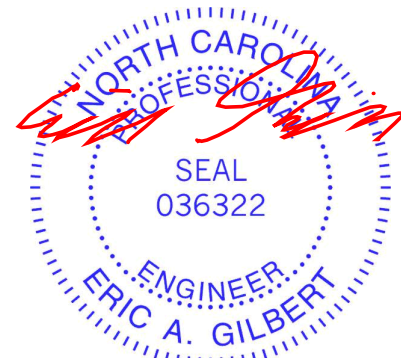
TOP CHORD 1-2=-2786/456, 2-3=-2782/448, 3-5=-3217/583, 1-7=-2711/423
BOT CHORD 5-6=-359/2491
WEBS 2-6=-423/2864, 3-6=-323/184, 1-6=-345/2422

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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) except (jt=lb) 5=652, 7=428.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-0 from the left end to 9-10-0 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-5=-60, 7-8=-20
Concentrated Loads (lb)
Vert: 10=-1231(B) 12=-1327(B) 13=-1327(B) 14=-1226(B) 15=-1226(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss R03	Truss Type Common Girder	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810739
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:38 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-5C3ru54kfQzQdqulmSwJ?wqEpuYBbAWjTFGYzajt

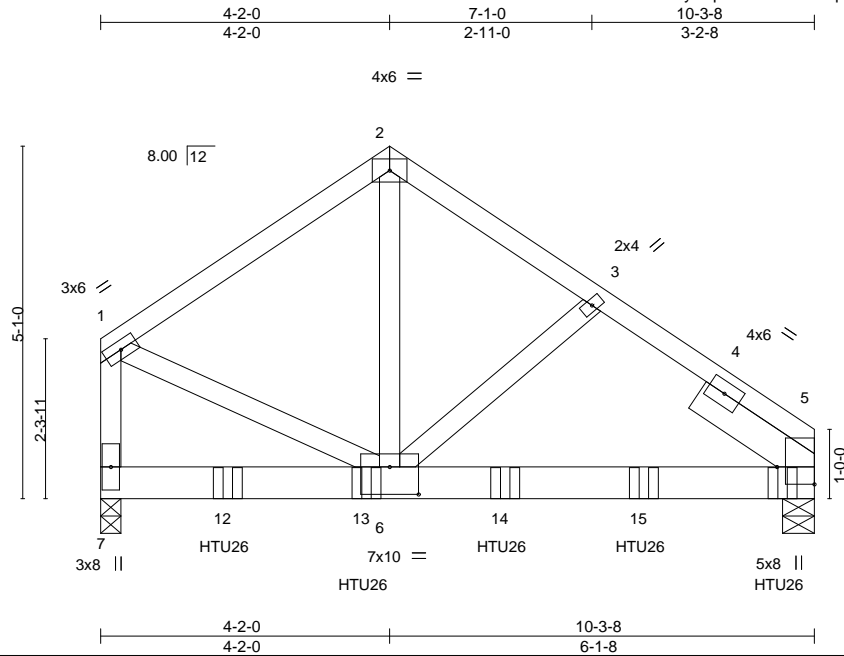


Plate Offsets (X,Y)-- [5:Edge,0-6-8], [6:0-5-0,0-4-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.06	6-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.11	6-10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.34	Horz(CT) -0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.06	6-10	>999	240		
							Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Right 2x6 SP No.2 1-11-12

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.

(lb/size) 5=3834/0-5-8, 7=3102/0-3-8
 Max Horz 7=-155(LC 6)
 Max Uplift 5=-704(LC 9), 7=-571(LC 9)

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

TOP CHORD 1-2=-2689/545, 2-3=-2688/536, 3-5=-3212/587, 1-7=-2622/505
 BOT CHORD 5-6=-423/2422
 WEBS 2-6=-519/2761, 3-6=-338/170, 1-6=-418/2343

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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) except (jt=lb) 5=704, 7=571.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-0 from the left end to 9-10-0 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-5=-60, 7-8=-20
 Concentrated Loads (lb)
 Vert: 10=-1231(B) 12=-1221(B) 13=-1221(B) 14=-1226(B) 15=-1226(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss S01	Truss Type GABLE	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810740
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:39 2019 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-ZOdD6R5NQjyq2nPxRSHhSWX7GeJ6gickINCop_zajqs

0-10-8 5-9-0 11-6-0 12-4-8
0-10-8' 5-9-0 5-9-0 0-10-8'

Scale = 1:43.4

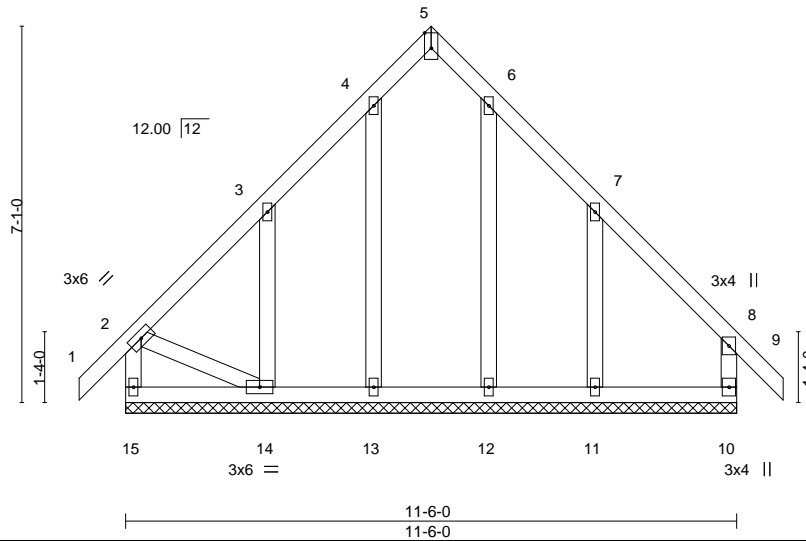


Plate Offsets (X,Y)-- [5:0-3-7,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 79 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS. All bearings 11-6-0.
 (lb) - Max Horz 15=235(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 15=-117(LC 8), 14=-256(LC 12), 11=-290(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 10, 13, 12 except 15=258(LC 20), 14=266(LC 19), 11=267(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-14=-268/221, 7-11=-296/281

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2'-0" oc.
 - 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" tall by 2'-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 except (jt=lb) 15=117, 14=256, 11=290.



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

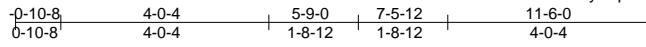
818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss S02	Truss Type Common Girder	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810741
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:40 2019 Page 1

ID:PFhEekZM06?Kz1KM4J4YUByNvpB-1aBbJn6?B14gfx_8?Aow?k4G?2VUP6eTz1yLLQzajqr



3x6 =

Scale = 1:44.5

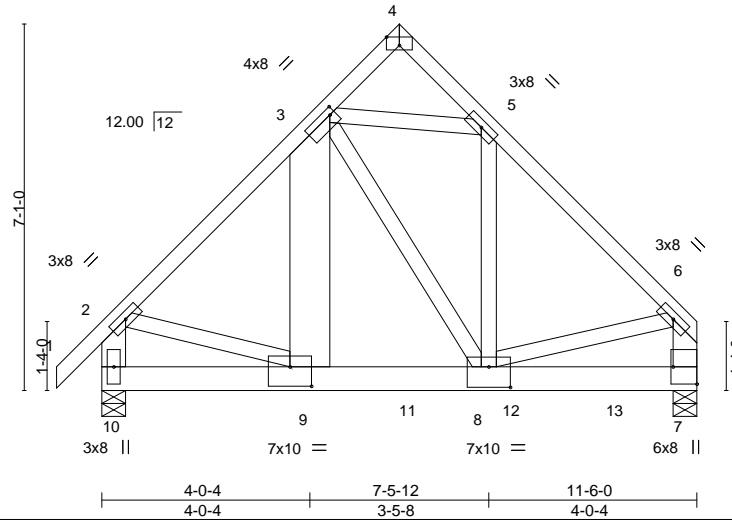


Plate Offsets (X,Y)-- [3:0-1-4,0-1-8], [4:0-3-0,Edge], [7:Edge,0-5-8], [8:0-5-0,0-4-12], [9:0-5-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.02	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.05	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.30	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03	8-9	>999		
								Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 3-9: 2x10 SP DSS, 2-10,6-7: 2x6 SP No.2

BRACING-

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

REACTIONS.

(lb/size) 10=3352/0-5-8, 7=4514/0-5-8
 Max Horz 10=225(LC 5)
 Max Uplift 10=1517(LC 8), 7=1270(LC 8)

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

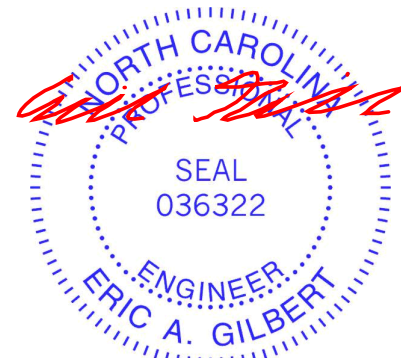
TOP CHORD 2-3=-3533/1667, 5-6=-3775/1225, 2-10=-3313/1506, 6-7=-3329/1075
 BOT CHORD 9-10=-286/307, 8-9=-1177/2438, 7-8=-150/540
 WEBS 3-8=-249/634, 5-8=-824/2471, 3-9=-1532/1936, 2-9=-1093/2380, 6-8=-736/2157,
 3-5=-2608/976

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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) except (jt=lb) 10=1517, 7=1270.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2146 lb down and 1855 lb up at 4-0-4, 1587 lb down and 237 lb up at 5-11-8, and 1596 lb down and 273 lb up at 7-11-8, and 1587 lb down and 306 lb up at 9-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-4=-60, 4-6=-60, 7-10=-20



March 15, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss S02	Truss Type Common Girder	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810741
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:40 2019 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-2146(B) 11=-1587(B) 12=-1596(B) 13=-1587(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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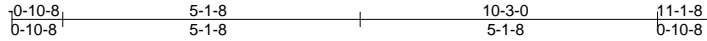


818 Soundside Road
Edenton, NC 27932

Job 1719437	Truss T01	Truss Type GABLE	Qty 2	Ply 1	H&H/Dogwood/ Job Reference (optional)	E12810742
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:41 2019 Page 1
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-Vnl_X77dyLCXH5ZKZtJ9YxcSiS?k8bNdChvttzajqq



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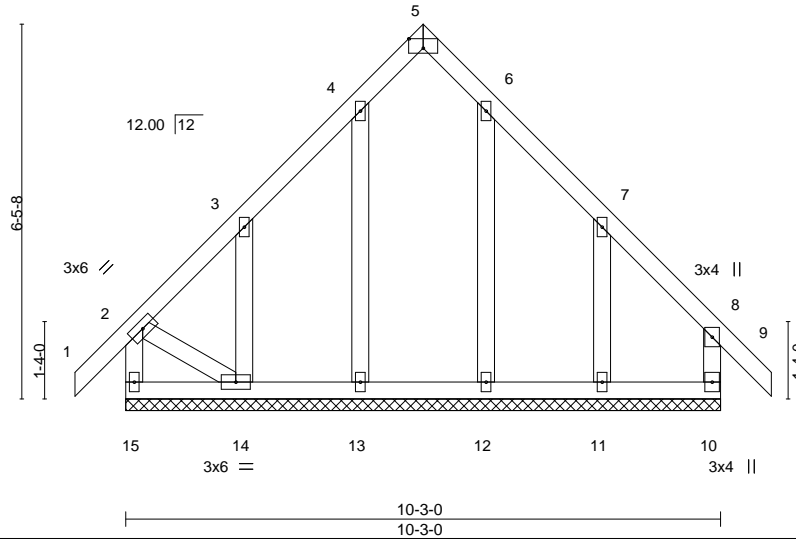


Plate Offsets (X,Y)-- [5:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 70 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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, Except: 6-0-0 oc bracing: 14-15.

REACTIONS. All bearings 10-3-0.
 (lb) - Max Horz 15=217(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 13 except 15=-114(LC 8), 14=-241(LC 12), 11=-269(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 10, 13, 14, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 7-11=-259/255

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 10, 13 except (jt=lb) 15=114, 14=241, 11=269.



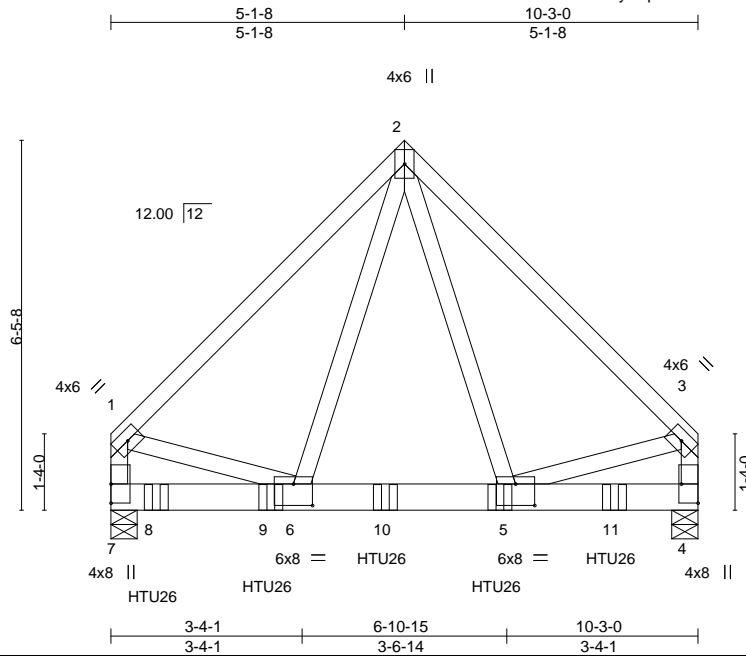
March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 1719437	Truss T02	Truss Type Common Girder	Qty 2	Ply 2	H&H/Dogwood/ Job Reference (optional)	E12810743
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Builders FirstSource (Albemarle), Albemarle, NC - 28001, 8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 15 09:48:42 2019 Page 1
 ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-zzJMkT8FjeKOvF7W7aqQ499ZusF8t04mRLRSPJzajqp



Scale = 1:40.2

Plate Offsets (X,Y)-- [4:Edge,0-3-8], [5:0-4-0,0-4-8], [6:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.02	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.05	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.24	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.02	5-6	>999		
								Weight: 150 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 1-7,3-4: 2x4 SP No.3

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. (lb/size) 7=3870/0-5-8, 4=3363/0-5-8
 Max Horz 7=185(LC 26)
 Max Uplift 7=452(LC 9), 4=509(LC 8)

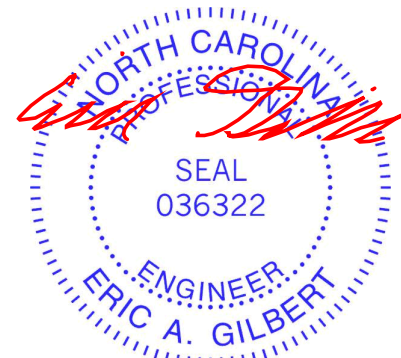
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2928/413, 2-3=-2895/472, 1-7=-2724/356, 3-4=-2699/408
 BOT CHORD 6-7=-242/371, 5-6=-207/1418, 4-5=-138/253
 WEBS 2-5=-331/1895, 2-6=-190/1974, 1-6=-272/1843, 3-5=-308/1837

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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) except (jt=lb) 7=452, 4=509.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-9-8 from the left end to 8-9-8 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 4-7=-20
 Concentrated Loads (lb)
 Vert: 5=-1226(B) 8=-1330(B) 9=-1327(B) 10=-1327(B) 11=-1226(B)



March 15, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

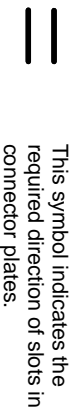
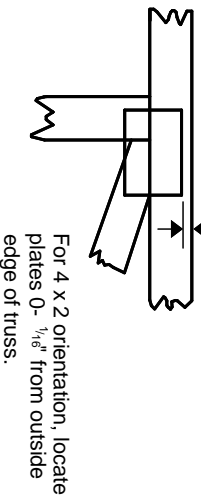
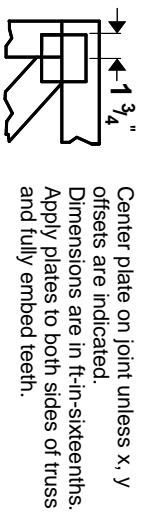
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

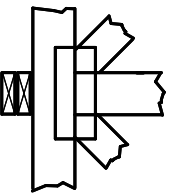
4 X 4

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

LATERAL BRACING LOCATION



BEARING

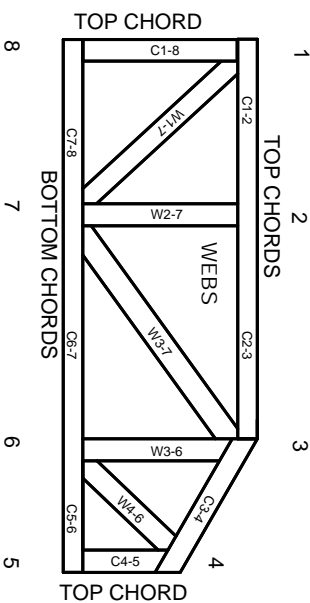


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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