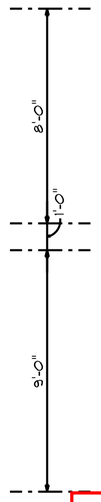
Front Elevation
Scale: 1/4"= 1'0"

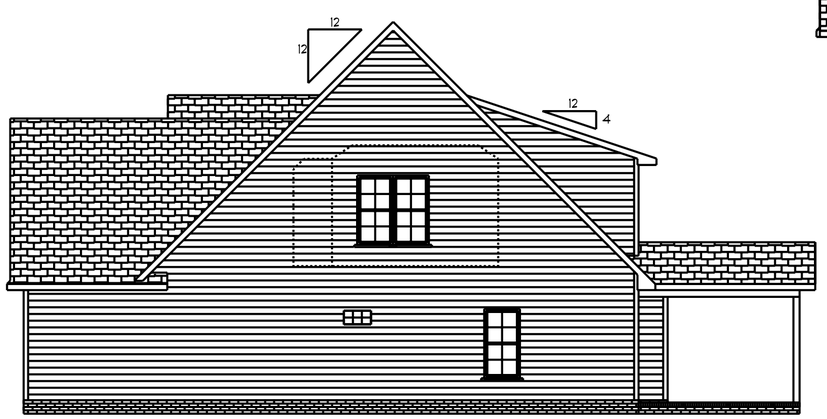


NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

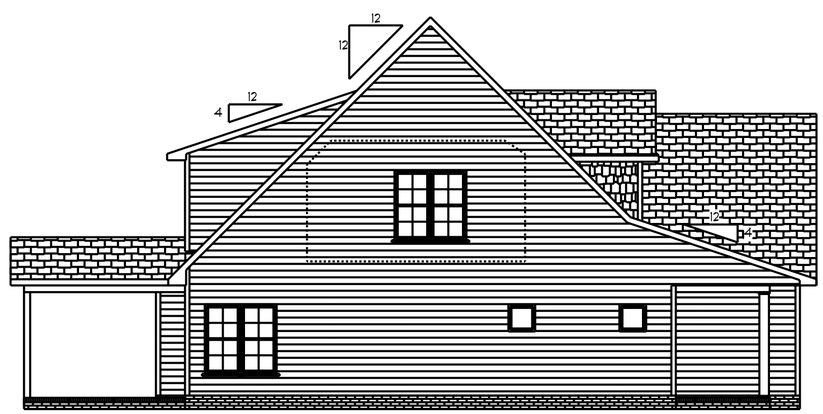
01/31/2023

Harnett COUNTY NORTH CAROLINA



Right Elevation
Scale: 1/8"= 1'0"

Rear Elevation
Scale: 1/8"= 1'0"



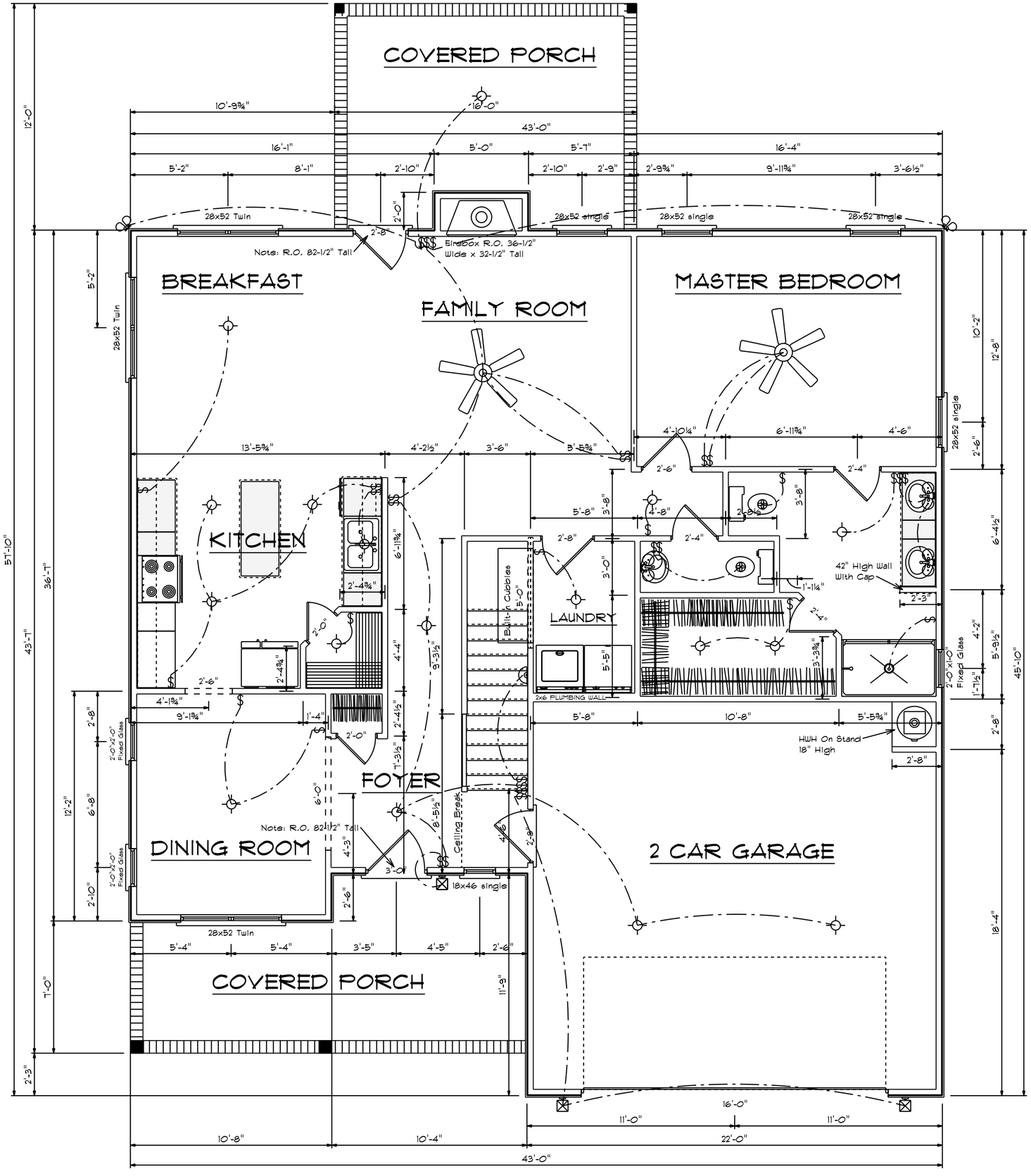
Left Elevation
Scale: 1/8"= 1'0"

DATE: Saturday, December 17, 2022
REVISED
DRAWING#

SCALE: 1/4"
DRAWN BY
APPROVED

Plan #7

Welleo Contractors Inc.



Areas

First Floor	1306
Second Floor	991
	======
Total Heated	2297
Garage	458
Front Porch	170
Rear Porch	191

First Floor Plan

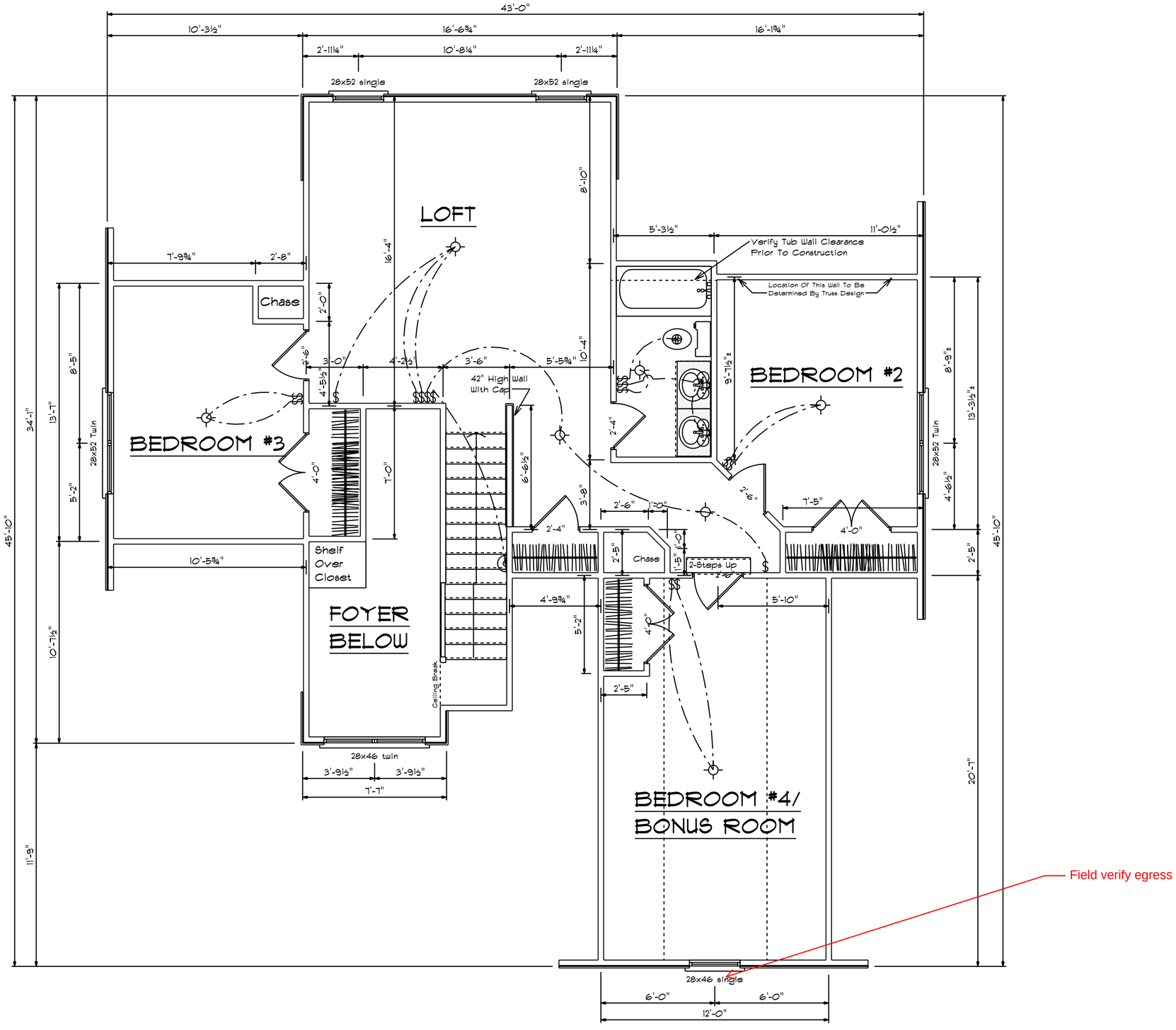
Scale: 1/4"= 1'-0"

DATE: Saturday, December 17, 2022
REVISED Revision 2
DRAWING#

SCALE: 1/4"
DRAWN BY
APPROVED

Plan #7

Welco Contractors Inc.



Second Floor Plan

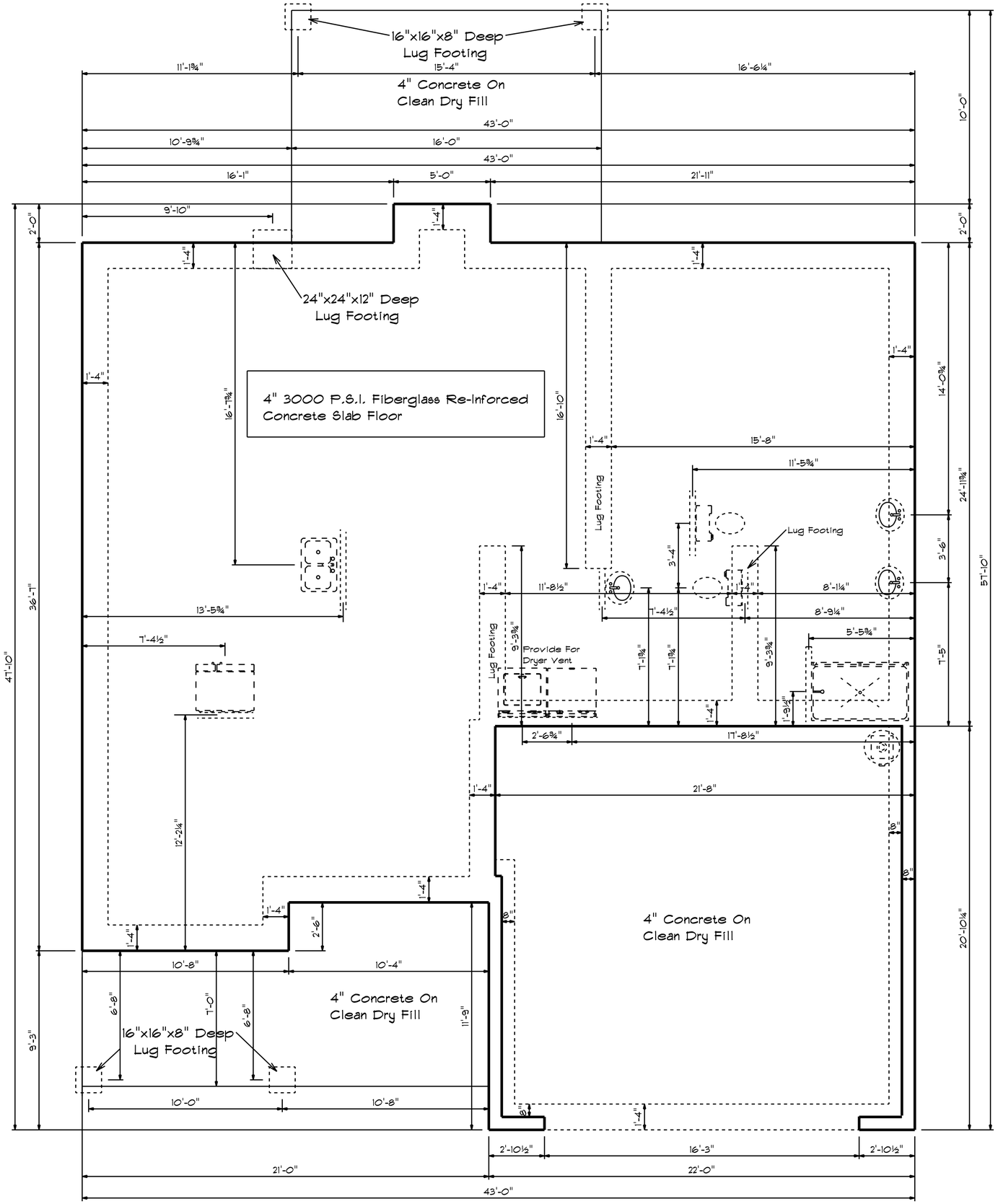
Scale: 1/4"= 1'-0"

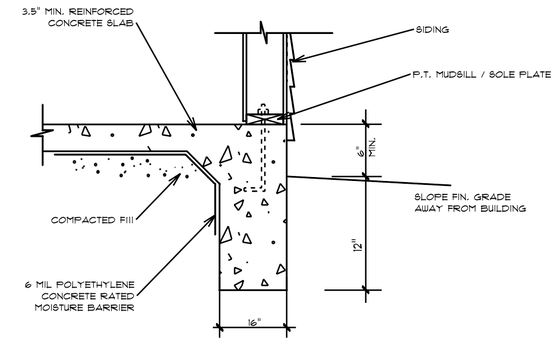
DATE: Saturday, December 17, 2022
REVISED Revision 2
DRAWING#

SCALE: 1/4"
DRAWN BY
APPROVED

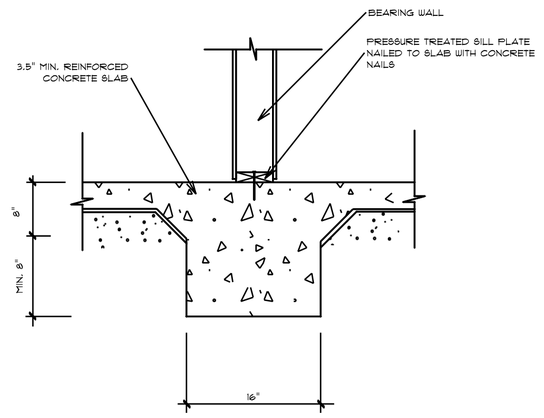
Plan #7

Welco Contractors Inc.





TURN-DOWN
FOOTING DETAIL



INTEGRAL SLAB FOOTING
DETAIL AT BEARING WALL

Foundation Plan

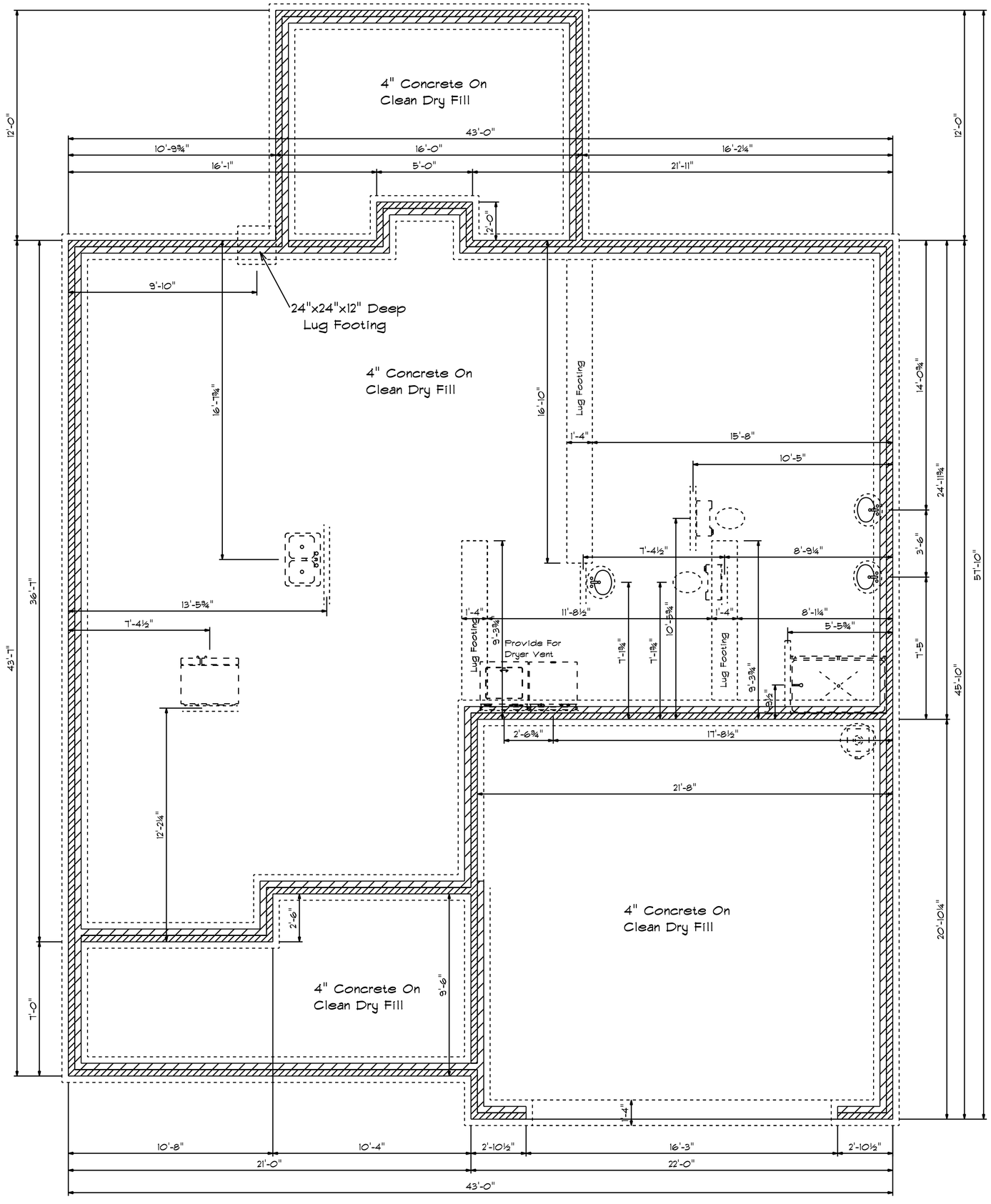
Scale: 1/4"= 1'-0"

DATE: Saturday, December 17, 2022
REVISED
DRAWING#

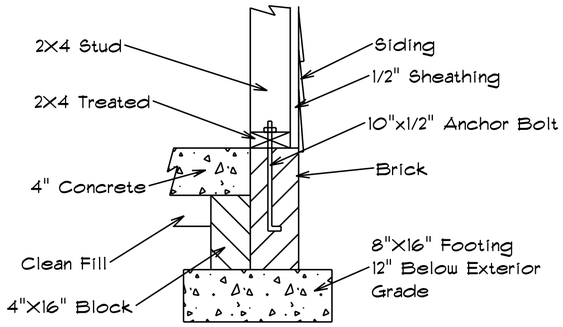
SCALE: 1/4"
DRAWN BY
APPROVED

Plan #7

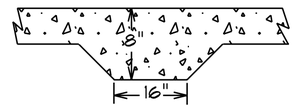
Welco Contractors Inc.



Foundation Detail
Siding



Lug Footing Detail



Foundation Plan

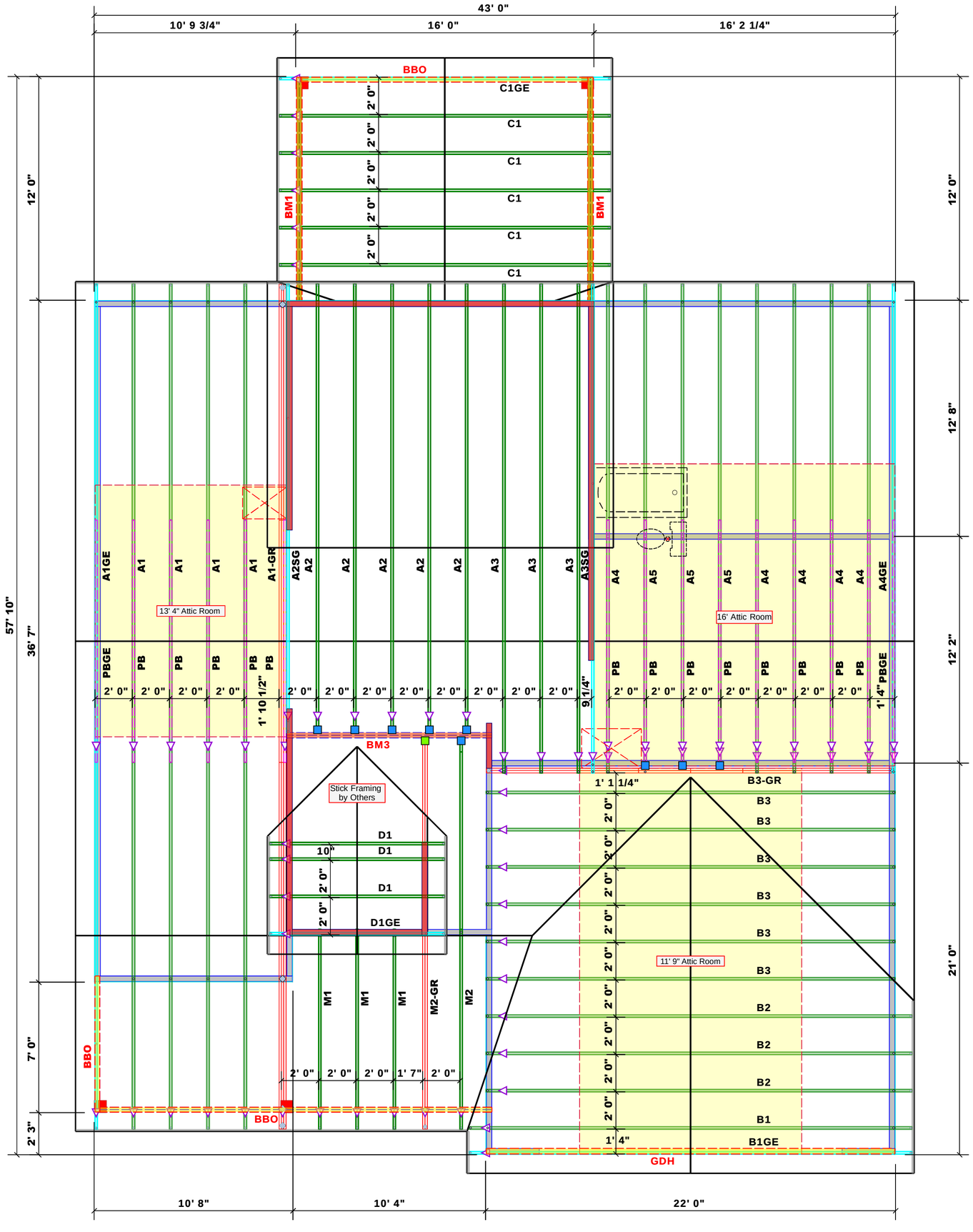
Scale: 1/4"= 1'-0"

DATE: Saturday, December 17, 2022
REVISED
DRAWING#

SCALE: 1/4"
DRAWN BY
APPROVED

Plan #7

Welco Contractors Inc.



All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Attic Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Roof Area	= 3115.52 sq.ft.
Ridge Line	= 90.43 ft.
Hip Line	= 0 ft.
Horiz. OH	= 119.44 ft.
Raked OH	= 162.58 ft.
Decking	= 107 sheets

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Hatch Legend

- Second Floor Walls
- Drop Beam
- Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	9	NA	16d/3-1/2"	16d/3-1/2"
	THD26-2	USP	1	NA	16d/3-1/2"	10d/3"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4
BM2	13' 0"	1-3/4"x 16" LVL Kerto-S	2	2
GDH	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2
Products				
PlotID	Length	Product	Plies	Net Qty
BM3	11' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Wellco Contractors
JOB NAME	Lot 124 Hidden Lakes
PLAN	Plan 7
SEAL DATE	N/A
QUOTE #	
JOB #	J1122-5621
CITY / CO.	Clayton / Johnston
ADDRESS	41 Sugarberry Place
MODEL	Roof
DATE REV.	11/11/22
DRAWN BY	Jonathan Landry
SALES REP.	Lenny Norris

RE: J1122-5621
Lot 124 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Wellco Contractors Project Name: J1122-5621
Lot/Block: 124 Model: Plan 7
Address: 41 Sugarberry Place Subdivision: Hidden Lakes
City: Clayton State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-10 Wind Speed: 150 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I54203506	A1	9/14/2022	21	I54203526	M2	9/14/2022
2	I54203507	A1-GR	9/14/2022	22	I54203527	M2-GR	9/14/2022
3	I54203508	A1GE	9/14/2022	23	I54203528	PB	9/14/2022
4	I54203509	A2	9/14/2022	24	I54203529	PBGE	9/14/2022
5	I54203510	A2SG	9/14/2022				
6	I54203511	A3	9/14/2022				
7	I54203512	A3SG	9/14/2022				
8	I54203513	A4	9/14/2022				
9	I54203514	A4GE	9/14/2022				
10	I54203515	A5	9/14/2022				
11	I54203516	B1	9/14/2022				
12	I54203517	B1GE	9/14/2022				
13	I54203518	B2	9/14/2022				
14	I54203519	B3	9/14/2022				
15	I54203520	B3-GR	9/14/2022				
16	I54203521	C1	9/14/2022				
17	I54203522	C1GE	9/14/2022				
18	I54203523	D1	9/14/2022				
19	I54203524	D1GE	9/14/2022				
20	I54203525	M1	9/14/2022				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

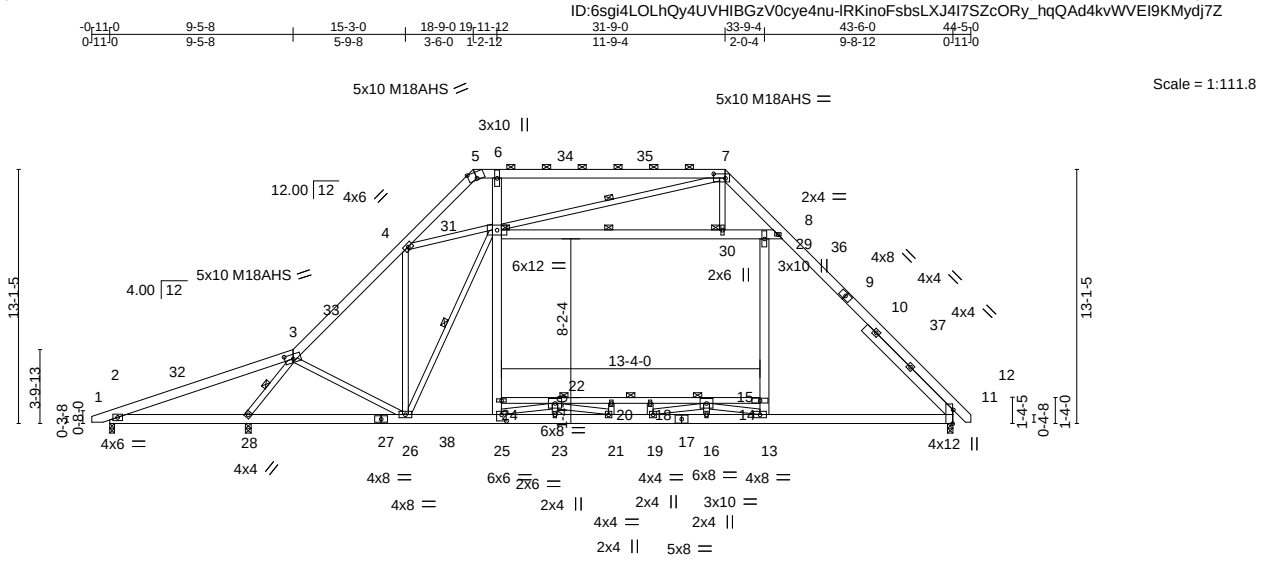
Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2022.
North Carolina COA: C-0844

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

September 14, 2022
Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A1	ATTIC	4	1	I54203506
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:02 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-IRKinoFsbsLXJ4I7SZcORy_hqQAd4kvWVEI9KMydj7Z



7-1-12	15-3-0	19-11-12	22-11-10	25-10-8	27-10-8	30-9-6	33-9-4	43-6-0
7-1-12	8-1-4	4-8-12	2-11-14	2-10-14	2-0-0	2-10-14	2-11-14	9-8-12

Plate Offsets (X,Y)-- [3:0-5-0,0-2-12], [5:0-5-0,Edge], [7:0-7-4,0-2-12], [11:0-8-9,Edge], [25:0-3-0,0-4-0]

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	0.77	Vert(LL)	-0.19	20-22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.37	20-22	>999	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.14	25	>999	240	Weight: 441 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
14-24: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
6-25,13-29,8-31: 2x6 SP No.1
SLIDER Right 2x6 SP No.1 6-4-14

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except
2-0-0 oc purlins (5-2-3 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-9-6 oc bracing: 2-28.
3-7-0 oc bracing: 14-24
WEBS 1 Row at midpt 3-28, 30-31, 7-31, 26-31
JOINTS 1 Brace at Jt(s): 30, 31

REACTIONS. (size) 2=0-3-0, 28=0-3-8 (req. 0-3-11), 11=0-3-8
Max Horz 2=409(LC 9)
Max Uplift 2=-474(LC 20), 28=-222(LC 9)
Max Grav 2=146(LC 9), 28=3126(LC 26), 11=2431(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-869/1846, 3-4=-2241/234, 4-5=-1222/151, 5-6=-926/180, 6-7=-954/244, 7-8=-1482/27, 8-11=-2938/138
BOT CHORD 2-28=-1664/444, 26-28=0/738, 25-26=0/1904, 23-25=0/3358, 21-23=0/3358, 19-21=0/4254, 16-19=0/3104, 13-16=0/3104, 11-13=0/1865, 22-24=-150/299, 20-22=-2583/0, 18-20=-2583/0, 15-18=-2583/0, 14-15=-82/440
WEBS 3-28=-3577/560, 3-26=-174/1036, 24-25=0/1012, 24-31=0/1247, 6-31=-323/602, 13-14=0/969, 14-29=0/1201, 30-31=-1204/445, 29-30=-1226/432, 8-29=-1208/433, 7-31=-550/186, 7-30=0/700, 4-26=-308/796, 26-31=-1197/226, 4-31=-1224/517, 18-19=-274/0, 20-21=-265/0, 22-25=-1859/0, 21-22=0/991, 13-15=-1901/0, 15-19=0/1211

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 18-10-2, Exterior(2) 18-10-2 to 23-2-15, Interior(1) 23-2-15 to 31-9-0, Exterior(2) 31-9-0 to 36-1-13, Interior(1) 36-1-13 to 44-3-6 zone; 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) 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 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 8-11, 30-31, 29-30, 8-29; Wall dead load (5.0psf) on member(s).24-31, 14-29
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 15-18, 14-15
9) WARNING: Required bearing size at joint(s) 28 greater than input bearing size.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=474, 28=222.

September 14,2022

Continued on page 2

TRENCO
818 Soundside Road
Edenton, NC 27932

NOTES-

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A1-GR	ATTIC	1	3	I54203507
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:07 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-5O7bqWJ_QP_qQrA4F7CZ8?hYqR_2l_4GfV0w?Zydj7U

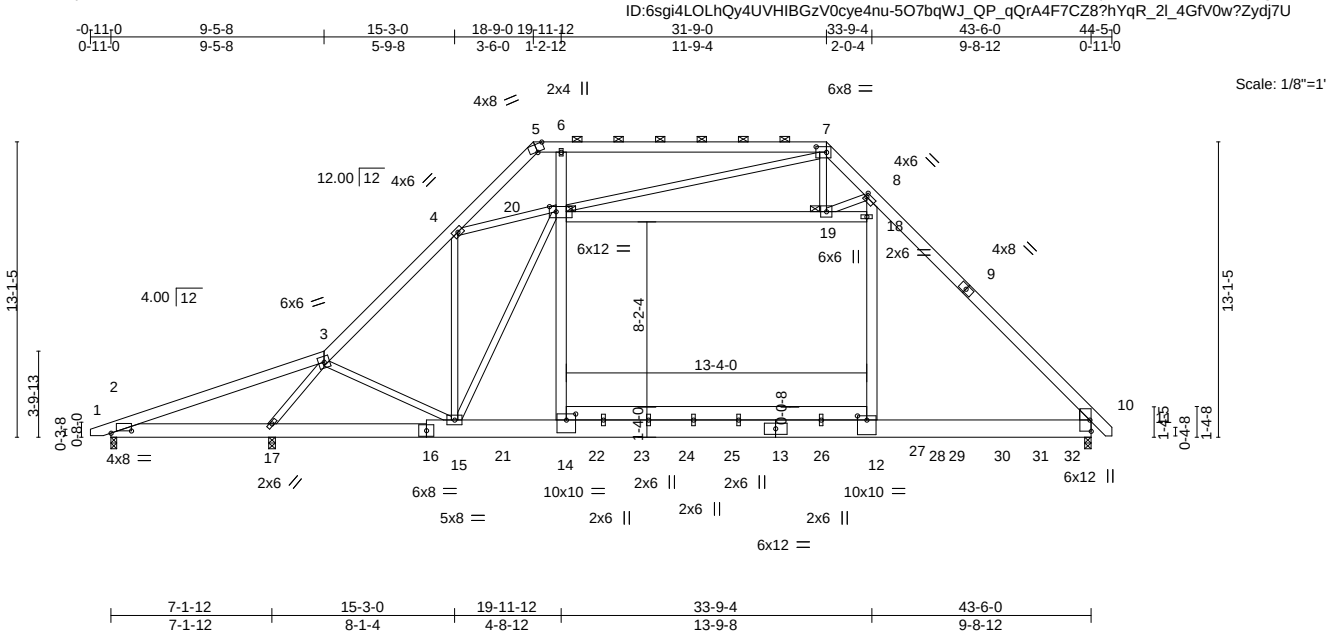


Plate Offsets (X,Y)-- [2:0-10-13,0-1-4], [5:0-4-0,Edge], [7:0-5-8,0-3-0], [8:0-1-0,0-2-0], [12:0-5-0,0-2-4], [14:0-5-0,0-3-4], [20:0-3-8,0-2-12]

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	0.69	Vert(LL)	-0.20	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.35	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	14	>999	240	Weight: 1460 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
10-13,13-16: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
6-14,8-12,18-20: 2x6 SP No.1
WEDGE
Right: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17.
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS. (size) 2=0-3-0, 17=0-3-8, 10=0-3-8
Max Horz 2=410(LC 7)
Max Uplift 2=-326(LC 16), 17=-177(LC 5)
Max Grav 2=622(LC 14), 17=4570(LC 22), 10=9370(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1517/1533, 3-4=-6050/42, 4-5=-1039/257, 5-6=-791/185, 6-7=-815/242, 7-8=-3081/0, 8-10=-10257/0
BOT CHORD 2-17=-1214/1396, 15-17=0/4311, 14-15=0/6814, 12-14=0/6880, 10-12=0/6907
WEBS 3-17=-5295/294, 3-15=-182/871, 14-20=0/4724, 6-20=-583/591, 12-18=0/7706, 8-18=0/7600, 19-20=-4305/324, 18-19=-161/292, 7-20=-2904/259, 7-19=0/2463, 4-15=-355/3608, 15-20=-5723/254, 4-20=-4547/444, 8-19=-5164/392

NOTES-
1) 3-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: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.

September 14,2022

Continued on page 2

TRENCO
818 Soundside Road
Edenton, NC 27932

NOTES-

6) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage; #4 Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #5 Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #8 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #9 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #11 Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #20 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf 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.
9) Ceiling dead load (10.0 psf) on member(s). 19-20, 18-19; Wall dead load (5.0psf) on member(s).14-20, 12-18
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 17=177.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 375 lb down at 21-4-4, 375 lb down at 23-4-4, 375 lb down at 25-4-4, 1103 lb down at 27-4-4, 1103 lb down at 29-4-4, 1103 lb down at 31-4-4, 1103 lb down at 33-4-4, 1103 lb down at 35-4-4, 1103 lb down at 37-4-4, and 1103 lb down at 39-4-4, and 1103 lb down at 41-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) Attic room checked for L/360 deflection.

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, 5-7=-60, 7-11=-60, 2-14=-20, 12-14=-40, 10-12=-20, 18-20=-20
   Drag: 14-20=-10, 12-18=-10
   Concentrated Loads (lb)
   Vert: 13=-450(F) 22=-251(F) 23=-251(F) 24=-251(F) 25=-450(F) 26=-450(F) 27=-450(F) 28=-450(F) 29=-450(F) 30=-450(F) 32=-450(F)

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A1GE	GABLE	1	1	I54203508
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:06 2022 Page 1
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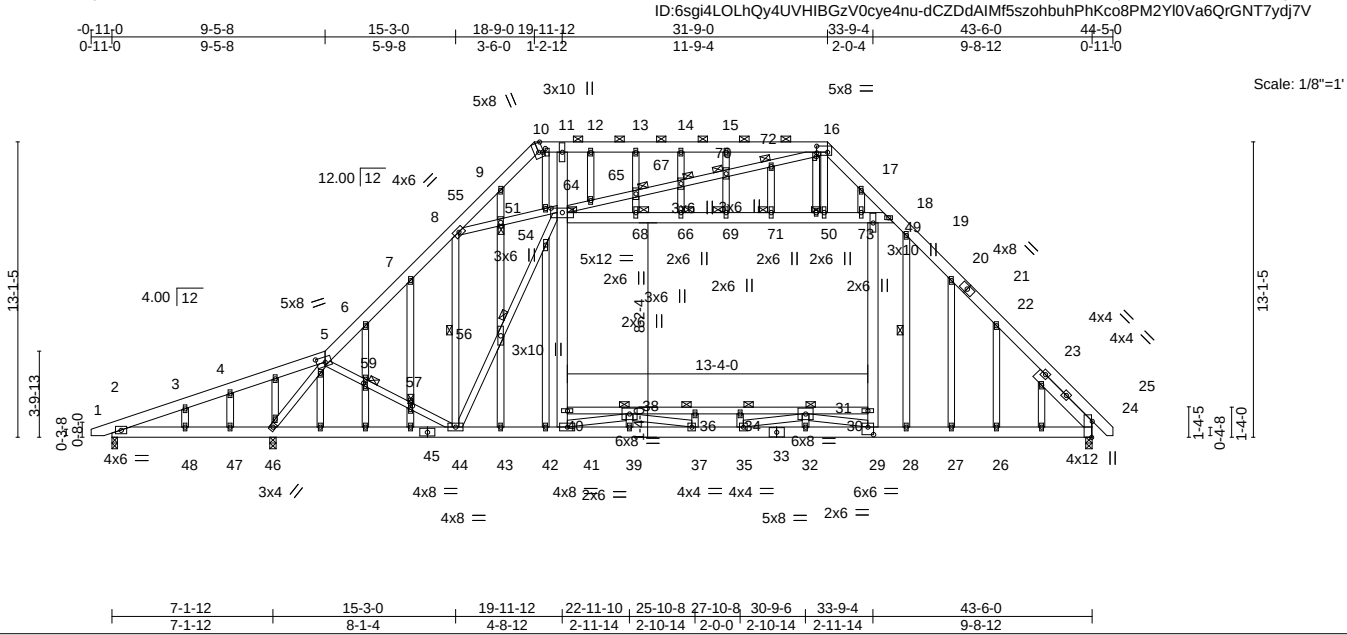

Plate Offsets (X,Y)-- [5:0-4-8,0-2-12], [10:0-4-15,Edge], [16:0-5-12,0-3-4], [16:0-2-0,0-0-4], [24:0-8-9,Edge], [29:0-3-0,0-4-0], [51:0-6-0,0-2-4], [53:0-2-0,0-1-8], [57:0-1-15,0-1-0], [59:0-1-15,0-1-0]

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	0.54	Vert(LL)	-0.17	34-36	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.35	36	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.06	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.16	26	>999	240	Weight: 548 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
30-40: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
11-41,29-49,18-51: 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Right 2x6 SP No.1 3-5-6

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 10-16.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-48,47-48,46-47.
3-7-0 oc bracing: 30-40
WEBS 1 Row at midpt 8-44, 19-28
JOINTS 1 Brace at Jt(s): 50, 51, 55, 56, 57, 59, 65, 66, 67, 68, 69, 70, 71, 72

REACTIONS. (size) 2=0-3-0, 46=0-3-8, 24=0-3-8
Max Horz 2=526(LC 9)
Max Uplift 2=-425(LC 8), 46=-374(LC 12), 24=-121(LC 13)
Max Grav 2=210(LC 9), 46=2865(LC 26), 24=2253(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-840/1353, 3-4=-810/1395, 4-5=-751/1386, 5-6=-2066/408, 6-7=-2057/425, 7-8=-1976/465, 8-9=-1596/548, 9-10=-1252/420, 10-11=-1070/430, 11-12=-1072/483, 12-13=-1072/483, 13-14=-1072/483, 14-15=-1072/483, 15-16=-1075/482, 16-17=-1561/427, 17-18=-1801/305, 18-19=-2556/291, 19-20=-2528/456, 20-22=-2495/367, 22-24=-2804/165
BOT CHORD 2-48=-1121/286, 47-48=-1121/286, 46-47=-1121/286, 44-46=-237/774, 43-44=0/1769, 42-43=0/1769, 41-42=0/1769, 39-41=0/3278, 37-39=0/3278, 35-37=0/4188, 32-35=0/3080, 29-32=0/3080, 28-29=0/1760, 27-28=0/1760, 26-27=0/1760, 24-26=0/1760, 38-40=-39/321, 36-38=-2643/0, 34-36=-2643/0, 31-34=-2643/0, 30-31=-73/367
WEBS 5-46=-2910/477, 5-59=-185/974, 57-59=-179/931, 44-57=-168/944, 40-41=0/691, 40-51=0/935, 11-51=-131/622, 29-30=0/1073, 30-49=0/1304, 51-68=-992/622, 66-68=-993/620, 66-69=-993/620, 69-71=-993/620, 50-71=-993/620, 50-73=-1017/613, 49-73=-1020/613, 18-49=-1005/629, 51-64=-547/407, 64-65=-544/412, 65-67=-532/404, 67-70=-535/407, 70-72=-520/399, 16-72=-542/409, 16-50=-115/776, 8-44=-389/739, 44-56=-982/323, 54-56=-994/319, 51-54=-835/273, 8-55=-1047/801, 51-55=-1050/799, 34-35=-272/0, 36-37=-268/0, 38-41=-2032/0, 37-38=0/988, 29-31=-1944/0, 31-35=0/1167, 9-55=-203/423, 55-56=-192/367, 43-56=-183/340, 4-47=-385/253, 17-73=0/350, 19-28=-304/172, 22-26=-35/322

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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
3) 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.

Continued on page 2

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TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A1GE	GABLE	1	1	I54203508 Job Reference (optional)

NOTES-

4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (10.0 psf) on member(s). 51-68, 66-68, 66-69, 69-71, 50-71, 50-73, 49-73, 18-49; Wall dead load (5.0psf) on member(s).40-51, 30-49
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 38-40, 36-38, 34-36, 31-34, 30-31
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=425, 46=374, 24=121.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A2	ROOF SPECIAL	5	1	I54203509
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:08 2022 Page 1
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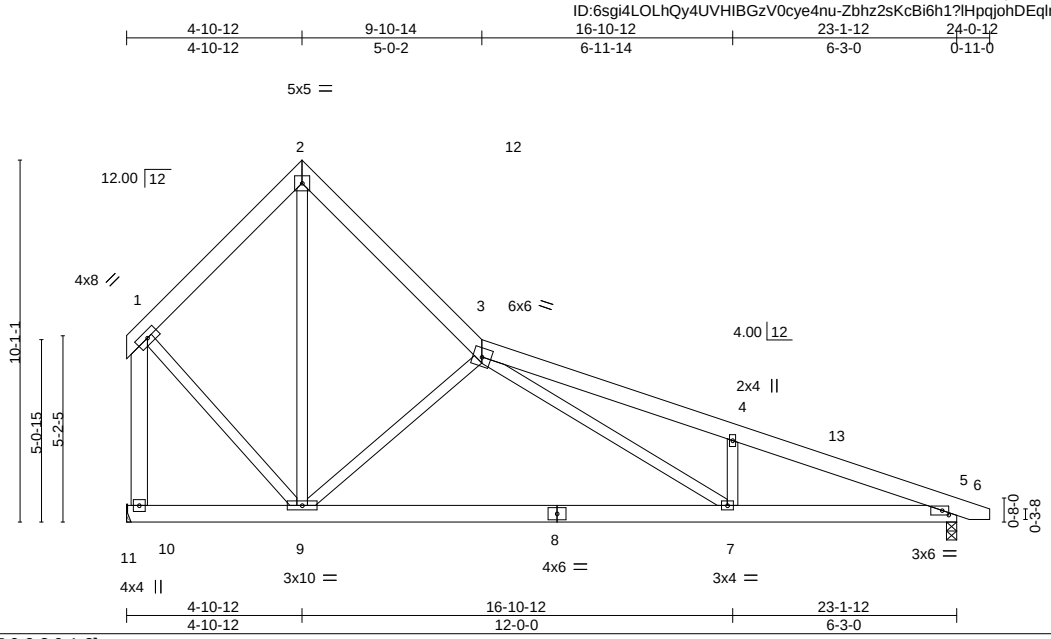

Plate Offsets (X,Y)-- [5:0-2-3,0-1-8]

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	0.23	Vert(LL)	-0.12	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.27	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.06	7-9	>999	240	Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-10: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.

REACTIONS. (size) 10=Mechanical, 5=0-3-8
Max Horz 10=-306(LC 8)
Max Uplift 10=-197(LC 13), 5=-211(LC 9)
Max Grav 10=912(LC 1), 5=953(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-643/311, 2-3=-638/308, 3-4=-2073/755, 4-5=-2087/626, 1-10=-926/373
BOT CHORD 9-10=-115/307, 7-9=-243/1074, 5-7=-503/1901
WEBS 2-9=-180/510, 3-7=-333/995, 4-7=-344/307, 1-9=-94/548, 3-9=-954/546

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 9-3-9, Interior(1) 9-3-9 to 23-9-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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) 10=197, 5=211.

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TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A2SG	GABLE	1	1	I54203510
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:09 2022 Page 1
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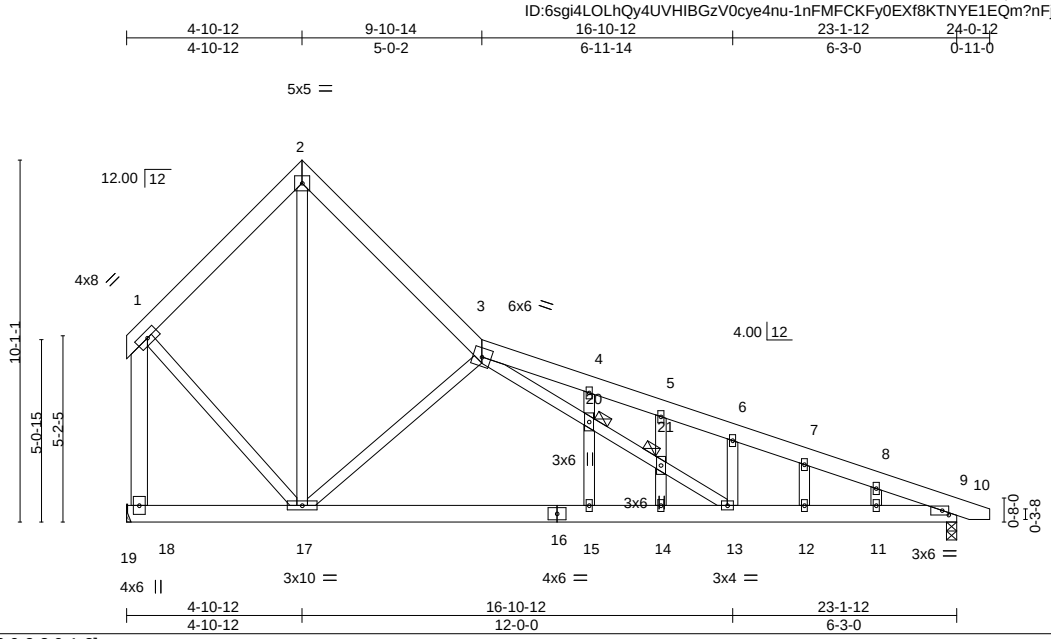

Plate Offsets (X,Y)-- [9:0-2-3,0-1-8]

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	0.21	Vert(LL)	-0.07	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.15	15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.10	15	>999	240	Weight: 192 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-18: 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-13 oc bracing.
JOINTS 1 Brace at Jt(s): 20, 21

REACTIONS. (size) 18=Mechanical, 9=0-3-8
Max Horz 18=-434(LC 13)
Max Uplift 18=-393(LC 13), 9=-402(LC 9)
Max Grav 18=912(LC 1), 9=953(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-631/382, 2-3=-630/375, 3-4=-1918/1122, 4-5=-1975/1080, 5-6=-1978/1048, 6-7=-1933/971, 7-8=-1959/937, 8-9=-2033/917, 1-18=-903/482
BOT CHORD 17-18=-111/426, 15-17=-321/1095, 14-15=-321/1095, 13-14=-321/1095, 12-13=-795/1834, 11-12=-795/1834, 9-11=-795/1834
WEBS 2-17=-270/501, 3-20=-578/911, 20-21=-555/859, 13-21=-568/890, 1-17=-205/530, 3-17=-1001/717, 15-20=0/293

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
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 30.0psf 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) 18=393, 9=402.

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TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A3	ROOF SPECIAL	3	1	I54203511
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:10 2022 Page 1
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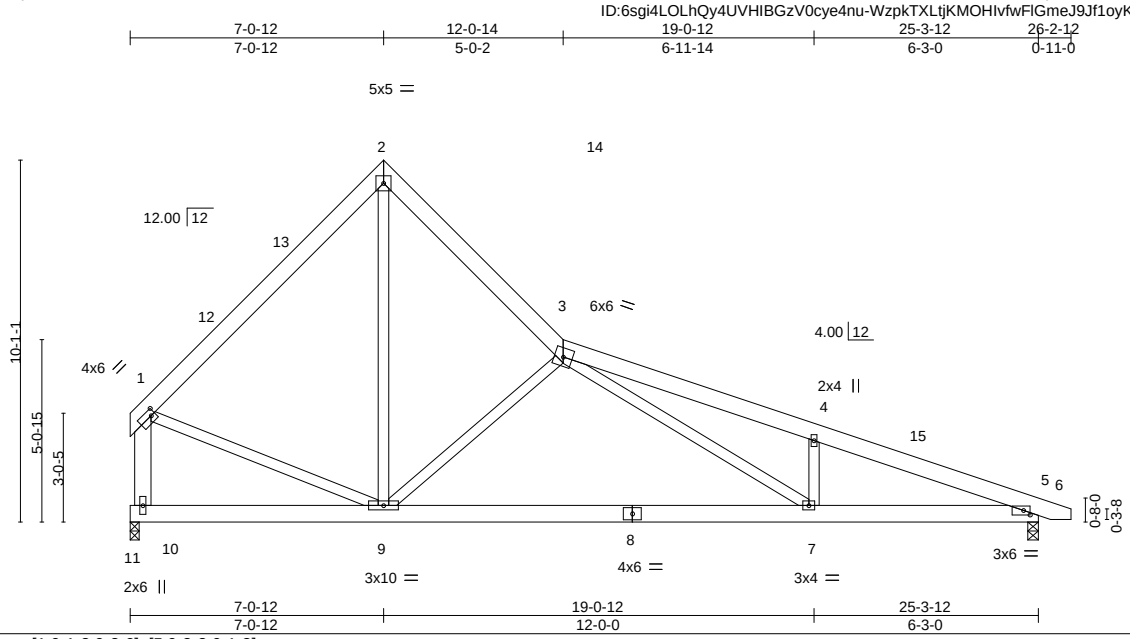

Plate Offsets (X,Y)-- [1:0-1-8,0-2-0], [5:0-2-3,0-1-8]

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	0.29	Vert(LL)	-0.13	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.29	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07	7-9	>999	240	Weight: 190 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-10: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.

REACTIONS. (size) 10=0-3-0, 5=0-3-8
Max Horz 10=-309(LC 8)
Max Uplift 10=-177(LC 13), 5=-220(LC 9)
Max Grav 10=999(LC 1), 5=1040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-911/395, 2-3=-917/435, 3-4=-2313/890, 4-5=-2330/762, 1-10=-970/406
BOT CHORD 9-10=-101/323, 7-9=-363/1317, 5-7=-631/2129
WEBS 2-9=-268/796, 3-9=-1070/588, 3-7=-326/979, 4-7=-336/303, 1-9=-41/531

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-0-12, Exterior(2) 7-0-12 to 11-5-9, Interior(1) 11-5-9 to 25-11-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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) except (jt=lb) 10=177, 5=220.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A3SG	GABLE	1	1	I54203512
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:11 2022 Page 1
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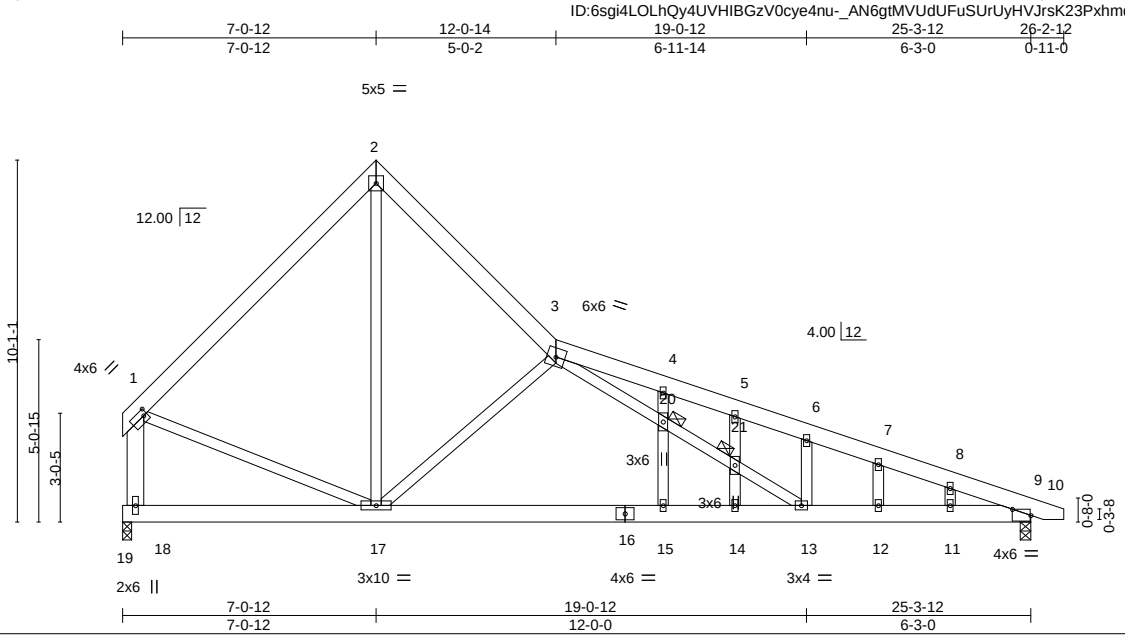

Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [9:0-6-3,Edge]

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	0.29	Vert(LL)	-0.08	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.17	15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	15	>999	240	Weight: 200 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-18: 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-6 oc bracing.
JOINTS 1 Brace at Jt(s): 20, 21

REACTIONS. (size) 18=0-3-0, 9=0-3-8
Max Horz 18=-401(LC 8)
Max Uplift 18=-370(LC 13), 9=-429(LC 13)
Max Grav 18=999(LC 1), 9=1040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-901/495, 2-3=-911/543, 3-4=-2152/1298, 4-5=-2209/1256, 5-6=-2211/1224, 6-7=-2169/1148, 7-8=-2195/1114, 8-9=-2274/1097, 1-18=-956/510
BOT CHORD 17-18=-173/426, 15-17=-499/1338, 14-15=-499/1338, 13-14=-499/1338, 12-13=-961/2056, 11-12=-961/2056, 9-11=-961/2056
WEBS 2-17=-407/788, 3-17=-1115/783, 3-20=-565/890, 20-21=-541/838, 13-21=-553/867, 1-17=-134/515, 15-20=0/286

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=370, 9=429.

September 14,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A4	ATTIC	5	1	I54203513
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-wYUs5ZOl0Fkz8mdEcNJzOGxhhs?D9ha81RTEDDydj7O

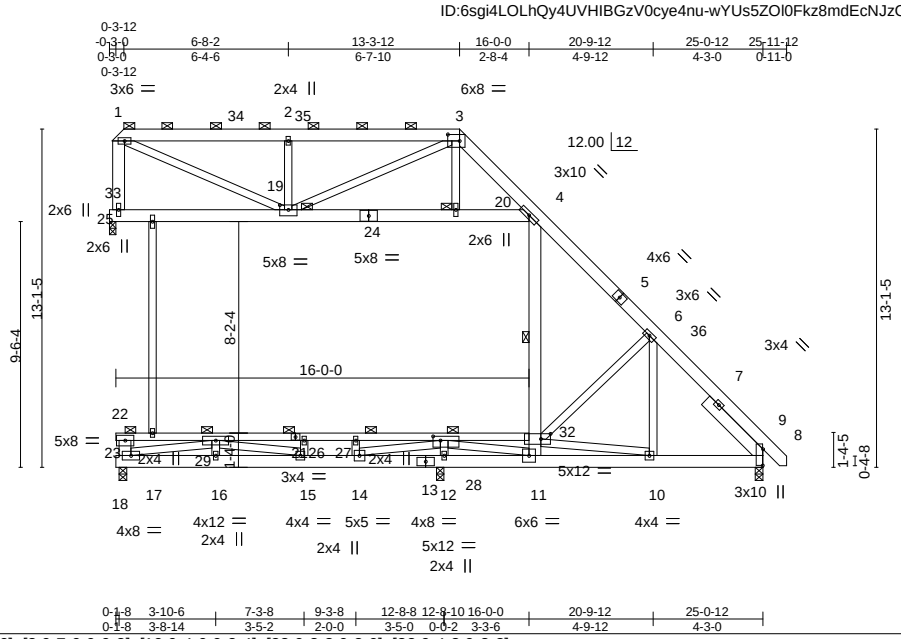

Plate Offsets (X,Y)-- [3:0-5-8,0-3-0], [8:0-7-9,0-0-2], [19:0-4-0,0-2-4], [28:0-3-8,0-2-0], [32:0-4-8,0-2-8]

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	0.21	Vert(LL)	-0.07	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.19	15-16	>763	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	-0.17	25	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.12	10-11	>999	240	Weight: 315 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-11,17-23,4-24,1-25,24-33: 2x6 SP No.1, 21-22,21-32: 2x4 SP No.1
SLIDER Right 2x6 SP No.1 3-1-0

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.): 1-3.
BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.
WEBS 1 Row at midpt 4-11
3-2-0 oc bracing: 23-32
JOINTS 1 Brace at Jt(s): 19, 1, 20, 23

REACTIONS. All bearings 0-3-8 except (jt=length) 25=0-3-0.
(lb) - Max Horz 17=-547(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 25
Max Grav All reactions 250 lb or less at joint(s) except 17=734(LC 3), 8=608(LC 1), 25=648(LC 1), 12=1988(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-908/330, 2-3=-909/328, 3-4=-811/231, 4-6=-404/315, 6-8=-660/0
BOT CHORD 16-17=0/2520, 15-16=0/2520, 14-15=0/2229, 12-14=-1722/318, 11-12=-1722/318, 10-11=-999/1711, 8-10=0/386
WEBS 1-19=-365/1005, 3-19=-100/407, 11-32=-1232/560, 4-32=-869/533, 23-29=-271/0, 26-29=-1571/0, 26-27=-1549/0, 27-28=-1569/0, 28-32=-2579/1848, 19-20=-240/561, 4-20=-247/557, 1-25=-590/280, 14-28=0/2344, 12-28=-1595/0, 11-28=-1510/3742, 17-29=-1852/0, 15-29=-973/0, 6-32=-892/580, 2-19=-457/357, 6-10=-285/628, 10-32=-1679/1257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 13-3-12, Exterior(2) 13-3-12 to 19-6-7, Interior(1) 19-6-7 to 25-10-2 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 30.0psf 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) 25.
7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Attic room checked for L/360 deflection.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

September 14,2022

LOAD CASE(S) Standard

Continued on page 2

TRENCO
818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-50, 3-9=-50, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-20, 3-9=-20, 8-18=-40, 22-32=-90(F), 4-25=-20(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-34=52, 3-34=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
   Horz: 3-5=59, 5-8=49, 8-9=-40
   Drag: 2-3=0
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-35=42, 3-35=52, 3-36=37, 8-36=47, 8-9=78, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
   Horz: 3-36=49, 8-36=59, 8-9=-90
   Drag: 2-35=0, 3-35=0
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
   Horz: 3-8=-49, 8-9=40
   Drag: 2-3=-0
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
   Horz: 3-8=-49, 8-9=-40
   Drag: 2-3=-0
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
   Horz: 3-8=30, 8-9=-21
   Drag: 2-3=0
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
   Horz: 3-8=-1, 8-9=-19
   Drag: 2-3=0
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
    Horz: 3-8=12, 8-9=-21
    Drag: 2-3=0
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
    Horz: 3-8=-19, 8-9=10
    Drag: 2-3=0
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
    Horz: 3-8=27, 8-9=-18
    Drag: 2-3=0
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
    Horz: 3-8=43, 8-9=-34
    Drag: 2-3=0
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
    Horz: 3-8=27, 8-9=-18
    Drag: 2-3=0
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
    Horz: 3-8=43, 8-9=-34
    Drag: 2-3=0
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
    Horz: 3-8=9, 8-9=-18
    Drag: 2-3=0
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=25, 8-9=-34
Drag: 2-3=0

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=9, 8-9=-16
Drag: 2-3=0

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-15, 8-9=8
Drag: 2-3=0

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=7, 8-9=-14
Drag: 2-3=0

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=19, 8-9=-26
Drag: 2-3=0

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-34=52, 3-34=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-5=59, 5-8=49, 8-9=-40
Drag: 2-3=0

29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-35=42, 3-35=52, 3-36=37, 8-36=47, 8-9=78, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-36=49, 8-36=59, 8-9=-90
Drag: 2-35=0, 3-35=0

30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-49, 8-9=40
Drag: 2-3=-0

31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-49, 8-9=-40
Drag: 2-3=-0

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=30, 8-9=-21
Drag: 2-3=0

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-1, 8-9=-19
Drag: 2-3=0

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=12, 8-9=-21
Drag: 2-3=0

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-19, 8-9=10
Drag: 2-3=0

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=9, 8-9=-18
Drag: 2-3=0

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=25, 8-9=-34
Drag: 2-3=0

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=9, 8-9=-16
Drag: 2-3=0

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-15, 8-9=8
Drag: 2-3=0

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=7, 8-9=-14
Drag: 2-3=0

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=19, 8-9=-26
Drag: 2-3=0

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A4GE	GABLE	1	1	I54203514
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:15 2022 Page 1
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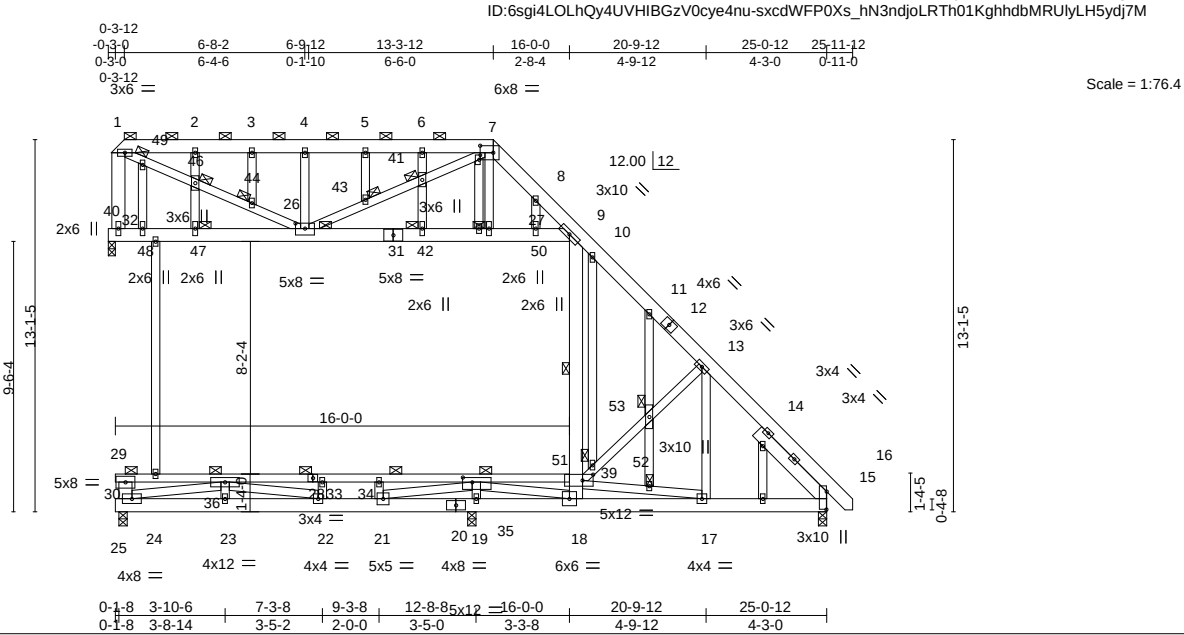

Plate Offsets (X,Y)-- [7:0-5-8,0-3-0], [7:0-2-0,0-0-8], [15:0-7-9,0-0-2], [26:0-4-0,0-2-4], [35:0-4-0,0-2-0], [39:0-4-8,0-2-8]

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	0.20	Vert(LL)	-0.07	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.68	Vert(CT)	-0.19	22-23	>762	240		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.74	Horz(CT)	-0.17	32	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.12	17-18	>999	240	Weight: 361 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-18,24-30,9-31,1-32,31-40: 2x6 SP No.1, 28-29,28-39: 2x4 SP No.1
OTHERS 2x4 SP No.2
SLIDER Right 2x6 SP No.1 3-5-0

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.): 1-7.
BOT CHORD Rigid ceiling directly applied or 5-4-0 oc bracing.
WEBS 1 Row at midpt 9-18
3-2-0 oc bracing: 30-39
JOINTS 1 Brace at Jt(s): 26, 1, 27, 30, 41, 42, 43, 44, 46, 47, 49, 51, 52, 53

REACTIONS. All bearings 0-3-8 except (jt=length) 32=0-3-0.
(lb) - Max Horz 24=-547(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 32
Max Grav All reactions 250 lb or less at joint(s) except 24=735(LC 3), 15=618(LC 1), 32=655(LC 1), 19=1969(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-917/401, 2-3=-917/401, 3-4=-917/401, 4-5=-917/401, 5-6=-917/401, 6-7=-919/400, 7-8=-854/375, 8-9=-799/222, 9-10=-254/174, 10-11=-322/235, 11-13=-476/382, 13-15=-677/0
BOT CHORD 23-24=0/2587, 22-23=0/2587, 21-22=0/2315, 19-21=-1697/390, 18-19=-1697/390, 17-18=-1066/1678, 15-17=0/384
WEBS 1-49=-460/1056, 46-49=-441/1008, 44-46=-437/997, 26-44=-449/1028, 26-43=-87/377, 41-43=-88/369, 7-41=-87/374, 18-39=-1206/612, 9-39=-650/410, 30-36=-271/0, 33-36=-1594/0, 33-34=-1572/0, 34-35=-1592/0, 35-39=-2538/1991, 26-42=-330/608, 27-42=-330/608, 27-50=-325/597, 9-50=-335/605, 1-32=-635/298, 21-35=0/2342, 19-35=-1582/0, 18-35=-1663/3675, 24-36=-1856/0, 22-36=-963/0, 39-51=-916/673, 51-53=-852/628, 13-53=-893/660, 13-17=-449/792, 39-52=-1638/1325, 17-52=-1690/1366, 52-53=-304/241, 4-26=-409/270

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-4 to 4-6-1, Exterior(2) 4-6-1 to 13-3-12, Corner(3) 13-3-12 to 17-8-9, Exterior(2) 17-8-9 to 25-10-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32.

Continued on page 2

September 14,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

NOTES-

10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
13) 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: 1-7=-60, 7-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-50, 7-16=-50, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-20, 7-16=-20, 15-25=-40, 29-39=-90(F), 9-32=-20(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-7=52, 7-15=47, 15-16=38, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
   Horz: 6-7=64, 7-15=59, 15-16=-50
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-7=52, 7-15=47, 15-16=78, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
   Horz: 6-7=64, 7-15=59, 15-16=-90
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-7=-39, 7-15=-69, 15-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
   Horz: 6-7=-19, 7-15=-49, 15-16=40
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-7=-39, 7-15=-69, 15-16=20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
   Horz: 6-7=-19, 7-15=-49, 15-16=-40
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-7=31, 7-15=18, 15-16=9, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
   Horz: 6-7=43, 7-15=30, 15-16=-21
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-7=31, 7-15=-13, 15-16=7, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
   Horz: 6-7=43, 7-15=-1, 15-16=-19
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=5, 7-15=-8, 15-16=1, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=25, 7-15=12, 15-16=-21
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=5, 7-15=-39, 15-16=-30, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=25, 7-15=-19, 15-16=10
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=27, 7-15=27, 15-16=-18
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=27, 7-15=43, 15-16=-34
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=27, 7-15=27, 15-16=-18
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=27, 7-15=43, 15-16=-34
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=-11, 7-15=-11, 15-16=-2, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=9, 7-15=9, 15-16=-18
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-7=-11, 7-15=5, 15-16=14, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    Horz: 6-7=9, 7-15=25, 15-16=-34
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-7=-20, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=-20, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-31, 7-15=-41, 15-16=-34, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=19, 7-15=9, 15-16=-16

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-31, 7-15=-65, 15-16=-58, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=19, 7-15=-15, 15-16=8

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-43, 7-15=-43, 15-16=-36, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=7, 7-15=7, 15-16=-14

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-43, 7-15=-31, 15-16=-24, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=7, 7-15=19, 15-16=-26

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-16=-50, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-15=47, 15-16=38, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=64, 7-15=59, 15-16=-50

29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-15=47, 15-16=78, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=64, 7-15=59, 15-16=-90

30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-39, 7-15=-69, 15-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=-19, 7-15=-49, 15-16=40

31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-39, 7-15=-69, 15-16=20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=-19, 7-15=-49, 15-16=-40

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=31, 7-15=18, 15-16=9, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=43, 7-15=30, 15-16=-21

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=31, 7-15=-13, 15-16=7, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=43, 7-15=-1, 15-16=-19

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=5, 7-15=-8, 15-16=1, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=25, 7-15=12, 15-16=-21

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=5, 7-15=-39, 15-16=-30, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=25, 7-15=-19, 15-16=10

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=27, 15-16=-18

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=43, 15-16=-34

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=27, 15-16=-18

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=43, 15-16=-34

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-11, 7-15=-11, 15-16=-2, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=9, 7-15=9, 15-16=-18

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-11, 7-15=5, 15-16=14, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=9, 7-15=25, 15-16=-34

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-31, 7-15=-41, 15-16=-34, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=19, 7-15=9, 15-16=-16

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-31, 7-15=-65, 15-16=-58, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=19, 7-15=-15, 15-16=8

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-43, 7-15=-43, 15-16=-36, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=7, 7-15=7, 15-16=-14

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-43, 7-15=-31, 15-16=-24, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=7, 7-15=19, 15-16=-26

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	A5	ATTIC	3	1	I54203515
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:17 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-oJkNxxRG3TEPdNx?rDNvY66NoTMy5Viky3RSM_ydj7K

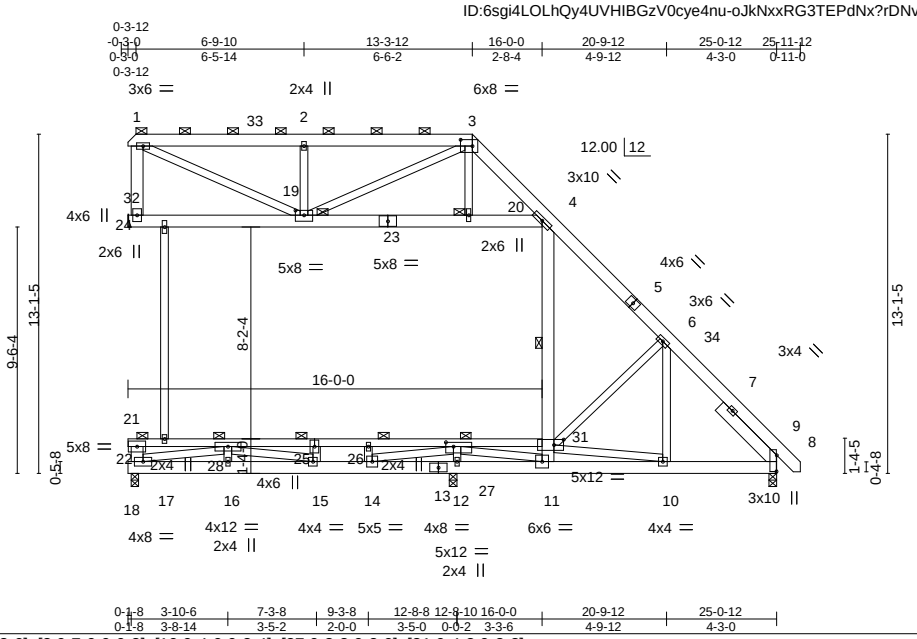

Plate Offsets (X,Y)-- [3:0-5-8,0-3-0], [8:0-7-9,0-0-2], [19:0-4-0,0-2-4], [27:0-3-8,0-2-0], [31:0-4-8,0-2-8]

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	0.21	Vert(LL)	-0.07	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.20	15-16	>749	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	-0.17	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	10-11	>999	240	Weight: 314 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-11,17-22,4-23,1-24,23-32: 2x6 SP No.1, 21-25,25-31: 2x4 SP No.1
SLIDER Right 2x6 SP No.1 3-1-0

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.): 1-3.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 1 Row at midpt 4-11
3-2-0 oc bracing: 22-31
JOINTS 1 Brace at Jt(s): 19, 1, 20, 22

REACTIONS. All bearings 0-3-8 except (jt=length) 24=Mechanical.
(lb) - Max Horz 17=-547(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 24
Max Grav All reactions 250 lb or less at joint(s) except 17=733(LC 3), 8=605(LC 1), 24=645(LC 1), 12=1981(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-878/325, 2-3=-879/323, 3-4=-795/229, 4-6=-404/315, 6-8=-655/0
BOT CHORD 16-17=0/2523, 15-16=0/2523, 14-15=0/2223, 12-14=-1735/303, 11-12=-1735/303, 10-11=-1002/1687, 8-10=0/383
WEBS 1-19=-361/976, 3-19=-97/388, 11-31=-1226/557, 4-31=-861/530, 22-28=-270/0, 25-28=-1568/0, 25-26=-1543/0, 26-27=-1563/0, 27-31=-2552/1851, 19-20=-238/549, 4-20=-245/546, 1-24=-581/277, 14-27=0/2354, 12-27=-1595/0, 11-27=-1498/3728, 17-28=-1855/0, 15-28=-974/0, 6-31=-888/581, 2-19=-448/354, 6-10=-286/623, 10-31=-1658/1260

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 13-3-12, Exterior(2) 13-3-12 to 19-6-7, Interior(1) 19-6-7 to 25-10-2 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 30.0psf 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) 24.
8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

September 14,2022

LOAD CASE(S) Standard

TRENCO
818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-50, 3-9=-50, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-20, 3-9=-20, 8-18=-40, 21-31=-90(F), 4-32=-20(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-33=52, 3-33=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
   Horz: 3-5=59, 5-8=49, 8-9=-40
   Drag: 2-3=0
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=42, 2-3=52, 3-34=37, 8-34=47, 8-9=78, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
   Horz: 3-34=49, 8-34=59, 8-9=-90
   Drag: 2-3=0
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
   Horz: 3-8=-49, 8-9=40
   Drag: 2-3=-0
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
   Horz: 3-8=-49, 8-9=-40
   Drag: 2-3=-0
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
   Horz: 3-8=30, 8-9=-21
   Drag: 2-3=0
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
   Horz: 3-8=-1, 8-9=-19
   Drag: 2-3=0
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
    Horz: 3-8=12, 8-9=-21
    Drag: 2-3=0
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
    Horz: 3-8=-19, 8-9=10
    Drag: 2-3=0
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
    Horz: 3-8=27, 8-9=-18
    Drag: 2-3=0
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
    Horz: 3-8=43, 8-9=-34
    Drag: 2-3=0
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
    Horz: 3-8=27, 8-9=-18
    Drag: 2-3=0
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
    Horz: 3-8=43, 8-9=-34
    Drag: 2-3=0
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
    Horz: 3-8=9, 8-9=-18
    Drag: 2-3=0
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=25, 8-9=-34
Drag: 2-3=0

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=9, 8-9=-16
Drag: 2-3=0

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-15, 8-9=8
Drag: 2-3=0

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=7, 8-9=-14
Drag: 2-3=0

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=19, 8-9=-26
Drag: 2-3=0

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-33=52, 3-33=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-5=59, 5-8=49, 8-9=-40
Drag: 2-3=0

29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=42, 2-3=52, 3-34=37, 8-34=47, 8-9=78, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-34=49, 8-34=59, 8-9=-90
Drag: 2-3=0

30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-49, 8-9=40
Drag: 2-3=-0

31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-49, 8-9=-40
Drag: 2-3=-0

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=30, 8-9=-21
Drag: 2-3=0

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-1, 8-9=-19
Drag: 2-3=0

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=12, 8-9=-21
Drag: 2-3=0

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-19, 8-9=10
Drag: 2-3=0

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=9, 8-9=-18
Drag: 2-3=0

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=25, 8-9=-34
Drag: 2-3=0

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=9, 8-9=-16
Drag: 2-3=0

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-15, 8-9=8
Drag: 2-3=0

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=7, 8-9=-14
Drag: 2-3=0

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=19, 8-9=-26
Drag: 2-3=0

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	B1	ATTIC	1	1	I54203516
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:19 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-lis8McSWb5V7sh5OyeQNdXBaKH_JZW31PNwZQtydj7I

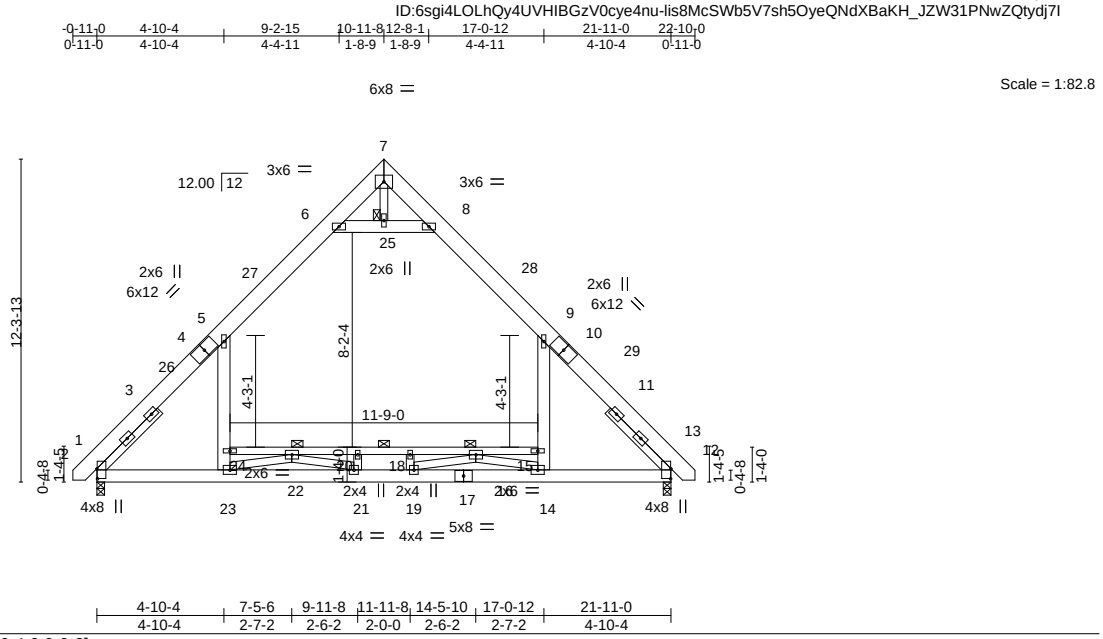

Plate Offsets (X,Y)-- [2:0-4-9,0-0-3], [12:0-4-9,0-0-3]

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	0.78	Vert(LL)	-0.18	19-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.35	18-20	>743	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	21-23	>999	240	Weight: 235 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
15-24: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
9-14,5-23,6-8: 2x6 SP No.1
SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
3-9-0 oc bracing: 16-22
6-0-0 oc bracing: 22-24, 15-16
JOINTS 1 Brace at Jt(s): 25, 16, 22

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=372(LC 9)
Max Grav 2=1606(LC 21), 12=1606(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-1910/6, 5-6=-1054/266, 6-7=-71/499, 7-8=-71/498, 8-9=-1055/266, 9-12=-1911/6
BOT CHORD 2-23=0/1167, 21-23=0/2844, 19-21=0/3367, 14-19=0/2649, 12-14=0/1078,
22-24=-460/330, 20-22=-2538/0, 18-20=-2538/0, 16-18=-2538/0, 15-16=-482/351
WEBS 14-15=0/797, 9-15=0/977, 23-24=0/797, 5-24=0/977, 6-25=-1802/438, 8-25=-1802/438,
18-19=-254/7, 20-21=-253/5, 16-19=0/840, 14-16=-1777/0, 21-22=0/841, 22-23=-1777/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 3-8-11, Interior(1) 3-8-11 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-7-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 4x6 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0psf) on member(s).9-15, 5-24
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 16-18, 15-16
8) Attic room checked for L/360 deflection.

September 14,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	B1GE	ATTIC	1	1	I54203517
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:20 2022 Page 1
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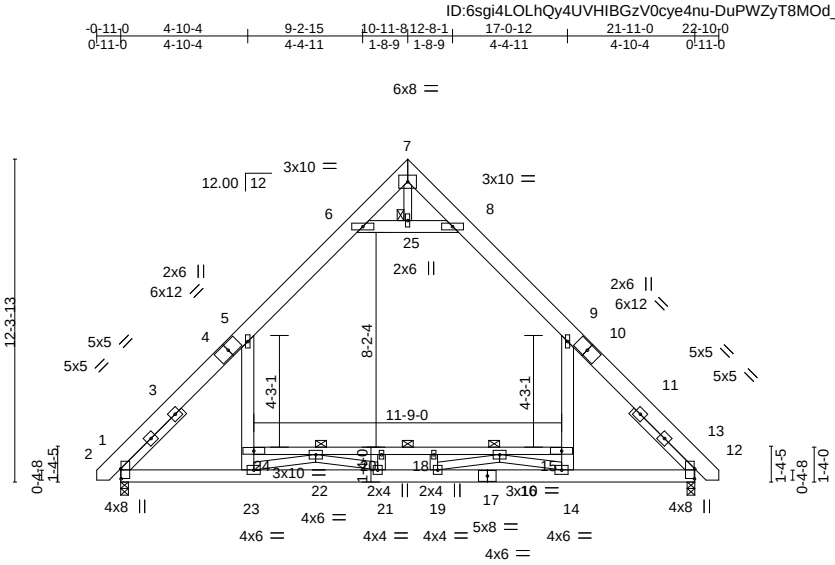

Plate Offsets (X,Y)-- [2:0-4-9,0-0-3], [12:0-4-9,0-0-3]

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	0.78	Vert(LL)	-0.18	19-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.35	18-20	>743	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.15	21-23	>999	240	Weight: 235 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
15-24: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
9-14,5-23,6-8: 2x6 SP No.1
SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
3-9-0 oc bracing: 16-22
6-0-0 oc bracing: 22-24, 15-16
JOINTS 1 Brace at Jt(s): 25, 16, 22

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=465(LC 9)
Max Uplift 2=-26(LC 13), 12=-26(LC 12)
Max Grav 2=1597(LC 21), 12=1597(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-1922/50, 5-6=-1061/309, 6-7=-115/511, 7-8=-114/510, 8-9=-1063/309, 9-12=-1922/50
BOT CHORD 2-23=-17/1211, 21-23=0/2908, 19-21=0/3367, 14-19=0/2649, 12-14=0/1099, 22-24=-539/433, 20-22=-2538/0, 18-20=-2538/0, 16-18=-2538/0, 15-16=-566/451
WEBS 14-15=0/797, 9-15=0/977, 23-24=0/797, 5-24=0/977, 6-25=-1802/571, 8-25=-1802/571, 18-19=-265/22, 20-21=-263/19, 16-19=-46/879, 14-16=-1777/0, 21-22=-47/880, 22-23=-1777/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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
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 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0psf) on member(s).9-15, 5-24
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 16-18, 15-16
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
8) Attic room checked for L/360 deflection.

September 14,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	B2	ATTIC	3	1	I54203518
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:22 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-9HXG_eVPu0thj8pzdmz4FAp4ZU??mtoT5L9D1Bydj7F

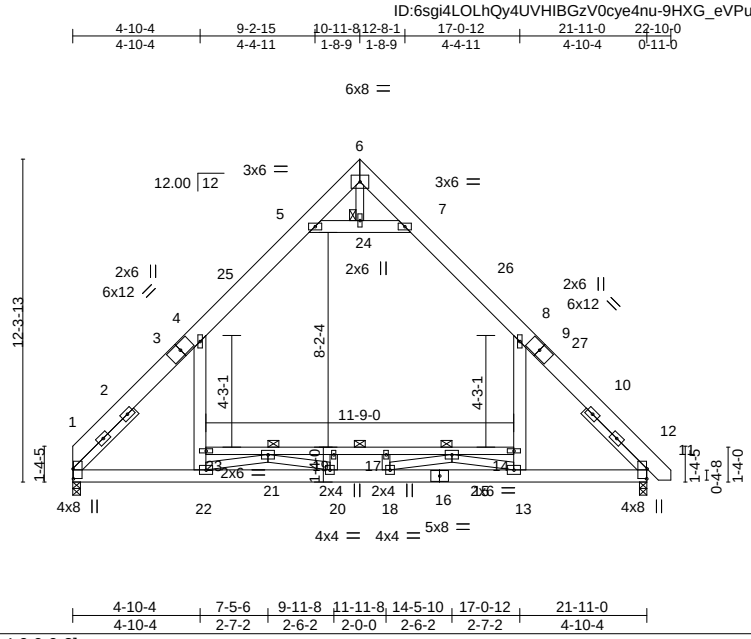

Plate Offsets (X,Y)-- [1:0-4-9,0-0-3], [11:0-4-9,0-0-3]

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	0.78	Vert(LL)	-0.18	18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.35	17-19	>743	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	20-22	>999	240	Weight: 232 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
14-23: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-13,4-22,5-7: 2x6 SP No.1
SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
3-9-0 oc bracing: 15-21
6-0-0 oc bracing: 21-23, 14-15
JOINTS 1 Brace at Jt(s): 24, 15, 21

REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=373(LC 9)
Max Grav 1=1582(LC 21), 11=1606(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1908/6, 4-5=-1054/268, 5-6=-72/500, 6-7=-74/498, 7-8=-1056/266, 8-11=-1912/6
BOT CHORD 1-22=0/1169, 20-22=0/2849, 18-20=0/3369, 13-18=0/2650, 11-13=0/1078,
21-23=-462/330, 19-21=-2540/0, 17-19=-2540/0, 15-17=-2540/0, 14-15=-482/351
WEBS 13-14=0/798, 8-14=0/977, 22-23=0/794, 4-23=0/974, 5-24=-1804/446, 7-24=-1804/446,
17-18=-255/8, 19-20=-252/5, 15-18=0/843, 13-15=-1778/0, 20-21=0/841, 21-22=-1778/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-7-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 4x6 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-24, 7-24; Wall dead load (5.0psf) on member(s).8-14, 4-23
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17, 14-15
8) Attic room checked for L/360 deflection.

September 14,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	B3	ATTIC	6	1	I54203519
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:23 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-dT5eB_V1fJ?YLIO9BUUJoNLFKuLDVK2cK?umZeydj7E

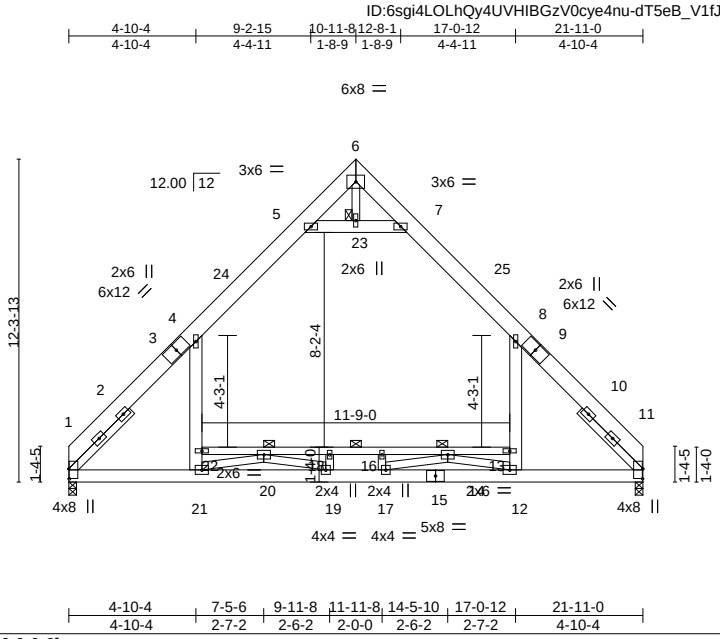

Plate Offsets (X,Y)-- [1:0-4-9,0-0-3], [11:0-4-9,0-0-3]

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	0.78	Vert(LL)	-0.18	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.35	16-18	>742	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	19-21	>999	240	Weight: 229 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
13-22: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-12,4-21,5-7: 2x6 SP No.1
SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
3-9-0 oc bracing: 14-20
6-0-0 oc bracing: 20-22, 13-14
JOINTS 1 Brace at Jt(s): 23, 14, 20

REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=-372(LC 8)
Max Grav 1=1583(LC 21), 11=1583(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1909/7, 4-5=-1054/268, 5-6=-75/500, 6-7=-75/499, 7-8=-1056/268, 8-11=-1910/7
BOT CHORD 1-21=0/1169, 19-21=0/2850, 17-19=0/3371, 12-17=0/2652, 11-12=0/1079,
20-22=-462/330, 18-20=-2542/0, 16-18=-2542/0, 14-16=-2542/0, 13-14=-484/352
WEBS 12-13=0/795, 8-13=0/974, 21-22=0/795, 4-22=0/974, 5-23=-1804/447, 7-23=-1804/447,
16-17=-254/8, 18-19=-253/5, 14-17=0/843, 12-14=-1779/0, 19-20=0/843, 20-21=-1779/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 21-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 4x6 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-23, 7-23; Wall dead load (5.0psf) on member(s).8-13, 4-22
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20, 16-18, 14-16, 13-14
8) Attic room checked for L/360 deflection.

September 14,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	B3-GR	ATTIC GIRDER	1	2	I54203520 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:24 2022 Page 1
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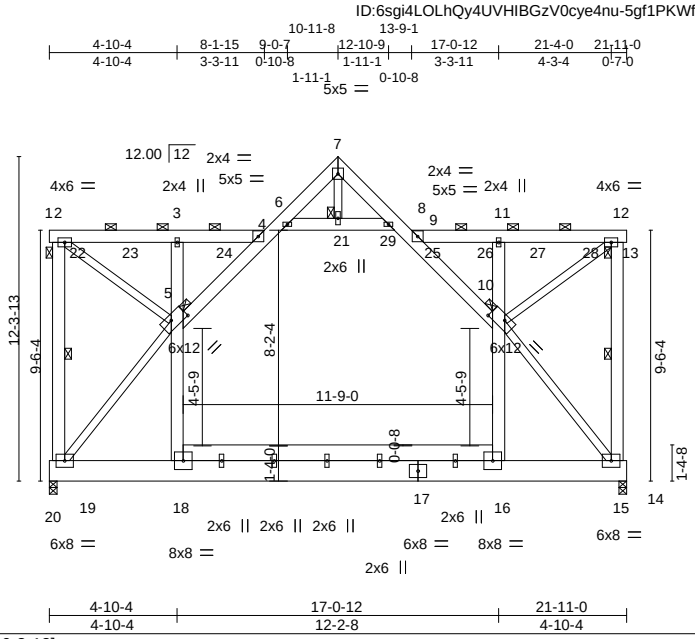

Plate Offsets (X,Y)-- [5:0-7-0,0-3-12], [10:0-7-0,0-3-12]

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	0.37	Vert(LL)	-0.06	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.12	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.03	16-18	>999	240	Weight: 652 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
16-18: 2x8 SP No.1
WEBS 2x6 SP No.1 *Except*
5-19,10-15,7-21,10-12,2-5: 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.): 1-4, 4-5, 9-10 , 9-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-19, 12-15
JOINTS 1 Brace at Jt(s): 2, 12, 5, 10, 21

REACTIONS. (size) 19=0-3-8, 15=0-3-8
Max Horz 19=-86(LC 6)
Max Grav 19=5394(LC 1), 15=4366(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-2094/386, 2-3=-1386/123, 3-4=-1379/143, 4-5=-2562/0, 4-6=-2760/0, 6-7=-563/0, 7-8=-692/0, 8-9=-2609/0, 9-10=-2297/0, 9-11=-1090/0, 11-12=-1102/0, 12-15=-1295/0
BOT CHORD 18-19=0/2634, 16-18=0/2639, 15-16=0/2631
WEBS 5-19=-4198/0, 5-18=-20/1000, 3-5=-2599/147, 6-21=-2388/0, 8-21=-2388/0, 10-16=0/1160, 10-11=-1517/0, 10-15=-4216/0, 7-21=0/701, 10-12=0/1326, 2-5=-143/1653

NOTES-
1) 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: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, Except member 6-8 2x6 - 2 rows staggered at 0-7-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 3-4, 4-6, 8-9, 9-11, 6-21, 8-21; Wall dead load (5.0psf) on member(s).5-18, 3-5, 10-16, 10-11
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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TRENCO
818 Soundside Road
Edenton, NC 27932

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 960 lb down and 205 lb up at 0-11-4, and 959 lb down and 208 lb up at 2-11-4, and 959 lb down and 208 lb up at 4-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) Attic room checked for L/360 deflection.

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=-80, 4-6=-80, 6-7=-60, 7-8=-60, 8-9=-80, 9-11=-80, 11-12=-60, 12-13=-60, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=-919(F) 6=-970(F) 21=-485(F) 22=-921(F) 23=-919(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-6=-70, 6-7=-50, 7-8=-50, 8-9=-70, 9-11=-70, 11-12=-50, 12-13=-50, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=-805(F) 6=-970(F) 21=-485(F) 22=-807(F) 23=-805(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 14-20=-40, 6-8=-20
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=-718(F) 6=-970(F) 21=-485(F) 22=-720(F) 23=-718(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=52, 2-3=31, 3-4=19, 4-6=-25, 6-7=-13, 7-8=18, 8-9=6, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
   Horz: 4-7=1, 7-9=30
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=155(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=6, 6-7=18, 7-8=-13, 8-9=-25, 9-11=19, 11-12=31, 12-13=52, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
   Horz: 4-7=-30, 7-9=-1
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-59, 6-7=-39, 7-8=-8, 8-9=-28, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
   Horz: 4-7=19, 7-9=12
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=192(F) 6=-970(F) 21=-485(F) 22=190(F) 23=192(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-28, 6-7=-8, 7-8=-39, 8-9=-59, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40,
   14-16=-20, 6-8=-20
   Horz: 4-7=-12, 7-9=-19
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=208(F) 6=-970(F) 21=-485(F) 22=205(F) 23=208(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F)
   29=-485(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24,
   14-16=-12, 6-8=-12
   Horz: 4-7=-43, 7-9=27
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=160(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F)
   29=-485(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24,
   14-16=-12, 6-8=-12
   Horz: 4-7=-27, 7-9=43
   Drag: 3-18=-10, 11-16=-10
   Concentrated Loads (lb)
   Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F)
   29=-485(F)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-43, 7-9=27
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=160(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-27, 7-9=43
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-15, 6-7=5, 7-8=-11, 8-9=-31, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-25, 7-9=9
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=192(F) 6=-970(F) 21=-485(F) 22=190(F) 23=192(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-31, 6-7=-11, 7-8=5, 8-9=-15, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=25
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=208(F) 6=-970(F) 21=-485(F) 22=205(F) 23=208(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-120, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-463(F) 6=-970(F) 21=-485(F) 22=-464(F) 23=-463(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

15) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-120, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-463(F) 6=-970(F) 21=-485(F) 22=-464(F) 23=-463(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-85, 6-7=-65, 7-8=-41, 8-9=-61, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=15, 7-9=9
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=78(F) 6=-970(F) 21=-485(F) 22=76(F) 23=78(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-61, 6-7=-41, 7-8=-65, 8-9=-85, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=-15
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=90(F) 6=-970(F) 21=-485(F) 22=88(F) 23=90(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-51, 6-7=-31, 7-8=-43, 8-9=-63, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-19, 7-9=7
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=78(F) 6=-970(F) 21=-485(F) 22=76(F) 23=78(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-63, 6-7=-43, 7-8=-31, 8-9=-51, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-7, 7-9=19
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=90(F) 6=-970(F) 21=-485(F) 22=88(F) 23=90(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

Continued on page 4

LOAD CASE(S) Standard

20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-6=-80, 6-7=-60, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-919(F) 6=-970(F) 21=-485(F) 22=-921(F) 23=-919(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-60, 8-9=-80, 9-11=-80, 11-12=-60, 12-13=-60, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-959(F) 6=-970(F) 21=-485(F) 22=-960(F) 23=-959(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-6=-70, 6-7=-50, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-805(F) 6=-970(F) 21=-485(F) 22=-807(F) 23=-805(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-50, 8-9=-70, 9-11=-70, 11-12=-50, 12-13=-50, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-835(F) 6=-970(F) 21=-485(F) 22=-836(F) 23=-835(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=52, 2-3=31, 3-4=19, 4-6=-25, 6-7=-13, 7-8=18, 8-9=6, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=1, 7-9=30
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-530(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=6, 6-7=18, 7-8=-13, 8-9=-25, 9-11=19, 11-12=31, 12-13=52, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-30, 7-9=-1
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-59, 6-7=-39, 7-8=-8, 8-9=-28, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=19, 7-9=12
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-493(F) 6=-970(F) 21=-485(F) 22=-495(F) 23=-493(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-28, 6-7=-8, 7-8=-39, 8-9=-59, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-12, 7-9=-19
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-477(F) 6=-970(F) 21=-485(F) 22=-479(F) 23=-477(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-43, 7-9=27
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-525(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-27, 7-9=43
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-43, 7-9=27
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-525(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-27, 7-9=43
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-15, 6-7=5, 7-8=-11, 8-9=-31, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-25, 7-9=9
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-493(F) 6=-970(F) 21=-485(F) 22=-495(F) 23=-493(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-31, 6-7=-11, 7-8=5, 8-9=-15, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=25
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-477(F) 6=-970(F) 21=-485(F) 22=-479(F) 23=-477(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-85, 6-7=-65, 7-8=-41, 8-9=-61, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=15, 7-9=9
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-734(F) 6=-970(F) 21=-485(F) 22=-737(F) 23=-734(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-61, 6-7=-41, 7-8=-65, 8-9=-85, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=-15
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-722(F) 6=-970(F) 21=-485(F) 22=-725(F) 23=-722(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-51, 6-7=-31, 7-8=-43, 8-9=-63, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-19, 7-9=7
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-734(F) 6=-970(F) 21=-485(F) 22=-737(F) 23=-734(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-63, 6-7=-43, 7-8=-31, 8-9=-51, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-7, 7-9=19
Drag: 3-18=-10, 11-16=-10
Concentrated Loads (lb)
Vert: 3=-722(F) 6=-970(F) 21=-485(F) 22=-725(F) 23=-722(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

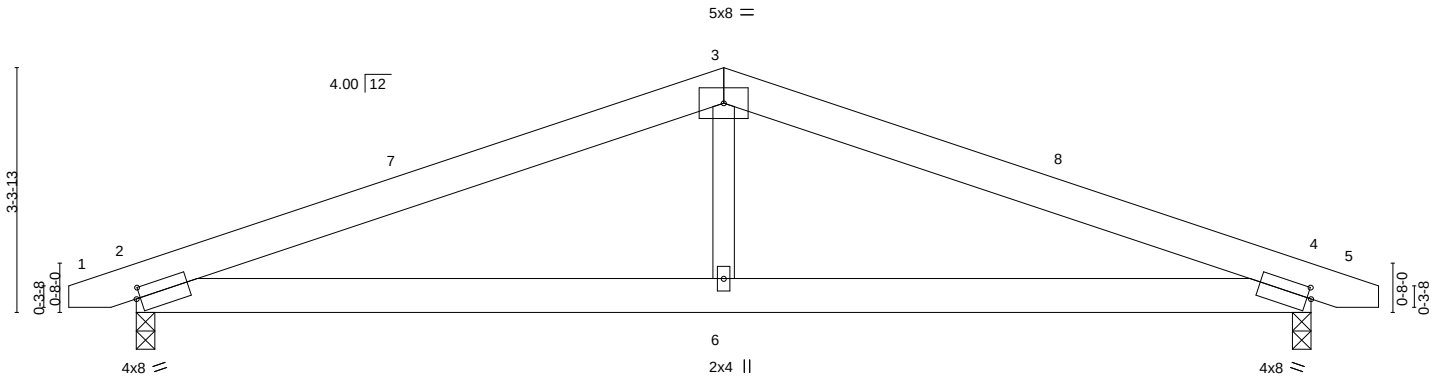
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	C1	COMMON	5	1	I54203521 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:26 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-22nnq0YvyEN7Cm7ksc21Q0ztb6Y_ikB30z7QAzydj7B

-0-11-0 / 0-11-0 | 7-11-8 / 7-11-8 | 15-11-0 / 7-11-8 | 16-10-0 / 0-11-0

Scale = 1:29.4



7-11-8 / 7-11-8 | 15-11-0 / 7-11-8

Plate Offsets (X,Y)-- [2:0-0-11,0-1-12], [4:0-0-11,0-1-12]

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	0.33	Vert(LL)	0.10	4-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.06	4-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 85 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-3-11 oc bracing.

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=-46(LC 13)
Max Uplift 2=-400(LC 8), 4=-400(LC 9)
Max Grav 2=672(LC 1), 4=672(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1126/1598, 3-4=-1126/1590
BOT CHORD 2-6=-1395/986, 4-6=-1395/986
WEBS 3-6=-656/375

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 7-11-8, Exterior(2) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 16-6-9 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf 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) except (jt=lb) 2=400, 4=400.

September 14,2022

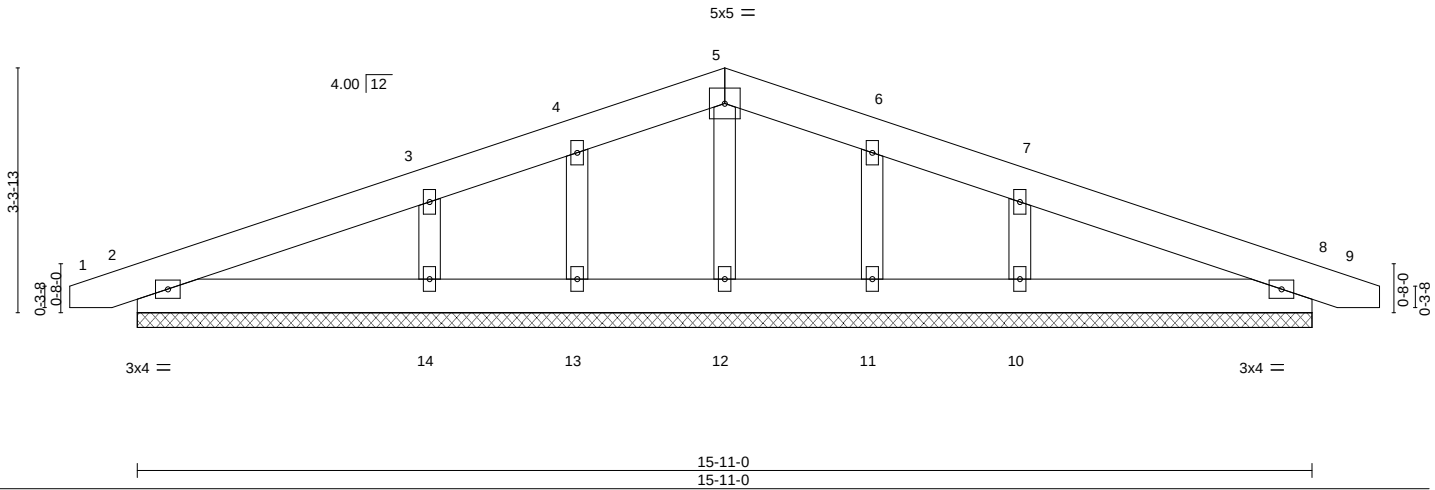
TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	C1GE	COMMON SUPPORTED GAB	1	1	I54203522 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:26 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-22nnq0YvyEN7Cm7ksc21Q0zyy6bJilw30z7QAzydj7B

-0-11-0 / 0-11-0 | 7-11-8 / 7-11-8 | 15-11-0 / 7-11-8 | 16-10-0 / 0-11-0

Scale = 1:29.4



15-11-0 / 15-11-0

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	0.05	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

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 15-11-0.
(lb) - Max Horz 2=77(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 13, 11 except 8=-106(LC 9), 14=-182(LC 12), 10=-181(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 11 except 14=313(LC 23), 10=313(LC 24)

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=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 13, 11 except (jt=lb) 8=106, 14=182, 10=181.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	D1	COMMON	3	1	I54203523
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:27 2022 Page 1
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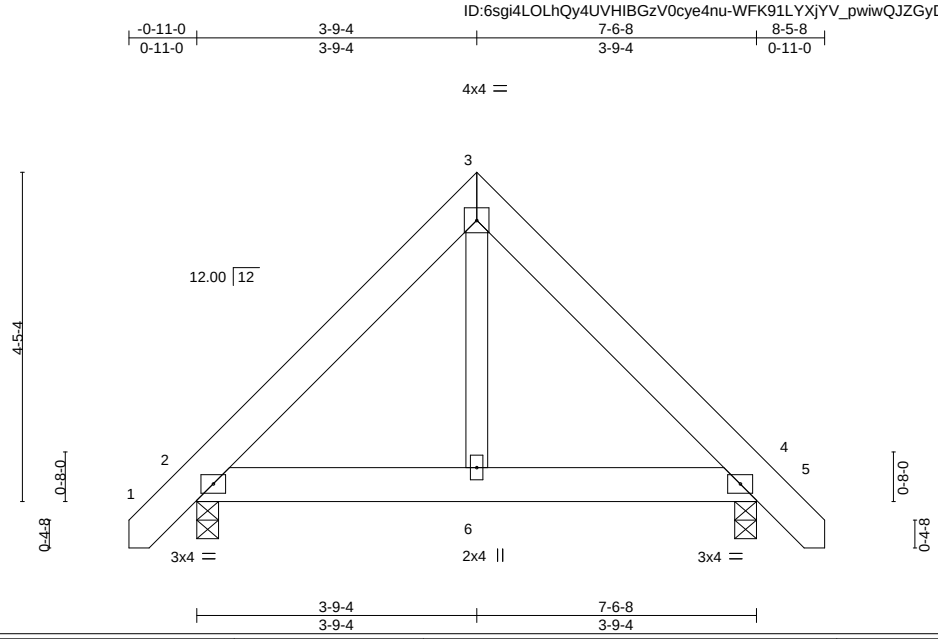

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	-0.00	6	>999	240	Weight: 55 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

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. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-145(LC 10)
Max Uplift 2=-61(LC 12), 4=-61(LC 13)
Max Grav 2=346(LC 1), 4=346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-285/104, 3-4=-284/105

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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) 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 30.0psf 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) 2, 4.

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	D1GE	GABLE	1	1	I54203524
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:28 2022 Page 1
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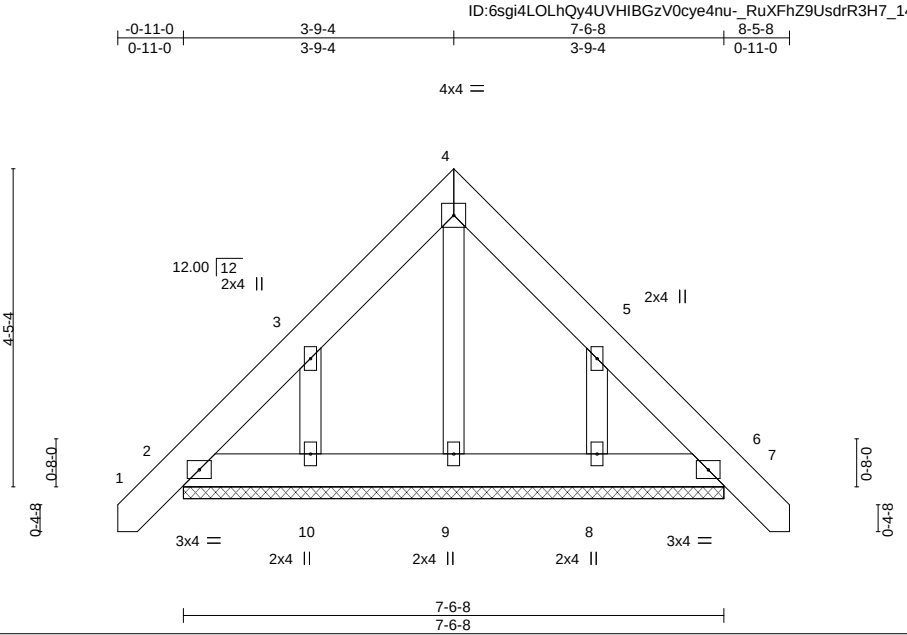

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 59 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

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 7-6-8.
(lb) - Max Horz 2=-182(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-218(LC 12), 8=-215(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-299/255, 5-8=-300/255

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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
3) 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.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=218, 8=215.

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	M1	MONOPITCH	3	1	I54203525 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:29 2022 Page 1
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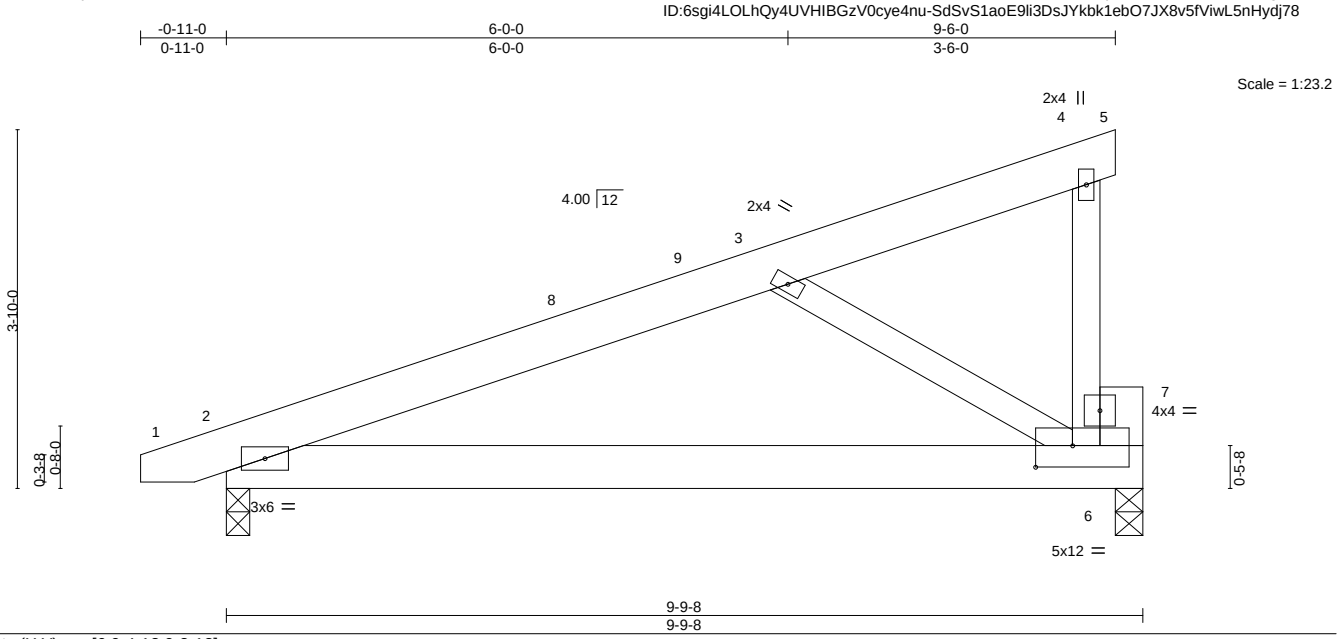

Plate Offsets (X,Y)-- [6:0-4-12,0-2-12]

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	0.37	Vert(LL)	0.17	2-6	>633	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.12	2-6	>942	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-15 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-0
Max Horz 2=146(LC 8)
Max Uplift 6=-253(LC 8), 2=-240(LC 8)
Max Grav 6=377(LC 1), 2=415(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-449/365
BOT CHORD 2-6=-518/386
WEBS 3-6=-410/485

NOTES-
1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 9-6-0 zone; 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=253, 2=240.

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	M2	ROOF SPECIAL	1	1	I54203526 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:30 2022 Page 1
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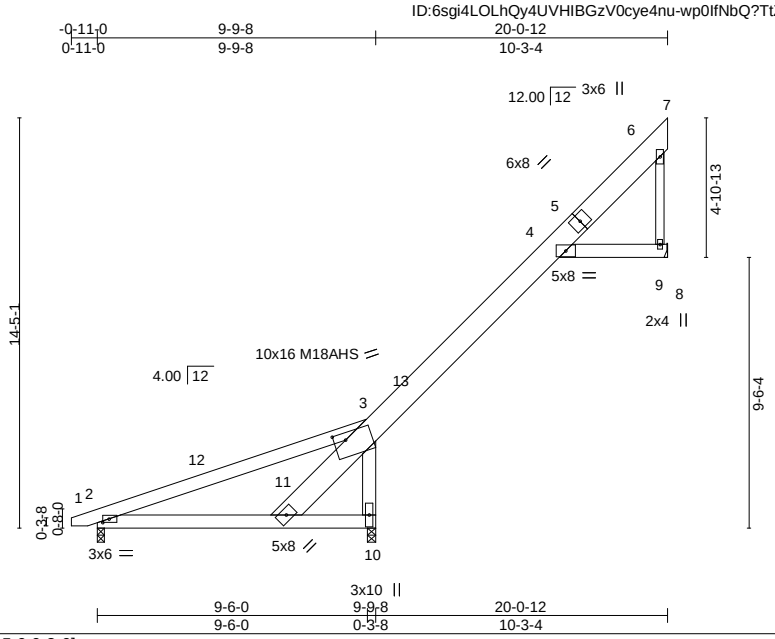

Plate Offsets (X,Y)-- [2:0-2-11,0-1-8], [3:0-5-0,0-3-0]

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	0.33	Vert(LL)	-0.04	4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.07	4	>999	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	4	>999	240	Weight: 146 lb	FT = 20%

LUMBER-
TOP CHORD 2x10 SP No.1 *Except*
1-3: 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
6-9: 2x4 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. (size) 9=Mechanical, 2=0-3-0, 10=0-3-8
Max Horz 2=589(LC 12)
Max Uplift 9=-295(LC 12), 2=-271(LC 8), 10=-317(LC 12)
Max Grav 9=409(LC 19), 2=354(LC 1), 10=830(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-751/772, 3-11=-496/321, 3-4=-424/307, 4-6=-293/308, 6-9=-483/386
BOT CHORD 2-11=-317/230
WEBS 3-10=-830/710

NOTES-
1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 20-0-12 zone; 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 30.0psf 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) 9=295, 2=271, 10=317.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	M2-GR	ROOF SPECIAL	1	2	I54203527 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:31 2022 Page 1
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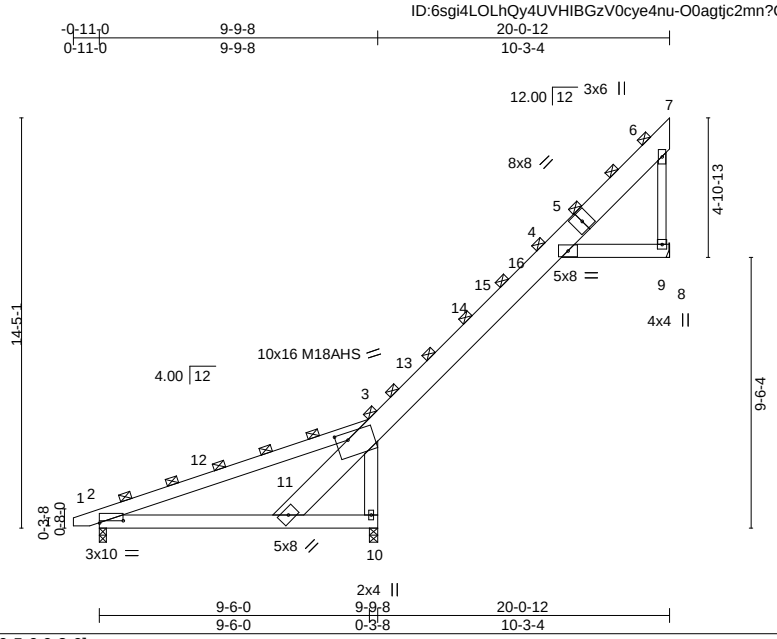

Plate Offsets (X,Y)-- [2:0-10-0,0-0-14], [3:0-5-0,0-3-0]

LOADING (psf)		SPACING-	5-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.05	4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.16	4	>779	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.20	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	4	>999	240	Weight: 292 lb	FT = 20%

LUMBER-
TOP CHORD 2x10 SP No.1 *Except*
1-3: 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
6-9: 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-11.

REACTIONS. (size) 9=Mechanical, 2=0-3-0, 10=0-3-8
Max Horz 2=1473(LC 12)
Max Uplift 9=-505(LC 12), 2=-469(LC 8)
Max Grav 9=1252(LC 19), 2=747(LC 1), 10=3019(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1805/2216, 3-11=-409/472, 3-4=-1620/925, 4-6=-589/894, 6-9=-1398/778
BOT CHORD 2-11=-644/148
WEBS 3-10=-3135/73

NOTES-
1) 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, 2x10 - 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: 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 20-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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) except (jt=lb) 9=505, 2=469.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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) 346 lb down at 11-6-0, and 346 lb down at 13-6-0, and 346 lb down at 14-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-150, 3-6=-150, 6-7=-150, 2-10=-50, 4-8=-50
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-125, 3-6=-125, 6-7=-125, 2-10=-50, 4-8=-50
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-3=-50, 3-6=-50, 6-7=-50, 2-10=-100, 4-8=-100
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=244, 2-12=142, 3-12=92, 3-6=92, 6-7=194, 2-10=-30, 4-8=-30
      Horz: 1-2=-274, 2-12=-172, 3-12=-122, 3-6=-122, 6-7=-224
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=70, 2-3=92, 3-16=92, 6-16=117, 6-7=95, 2-10=-30, 4-8=-30
      Horz: 1-2=-100, 2-3=-122, 3-16=-122, 6-16=-147, 6-7=-125
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=-13, 2-3=-110, 3-6=-172, 6-7=50, 2-10=-50, 4-8=-50
      Horz: 1-2=-37, 2-3=60, 3-6=122, 6-7=-100
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=-87, 2-3=-110, 3-6=-172, 6-7=-150, 2-10=-50, 4-8=-50
      Horz: 1-2=37, 2-3=60, 3-6=122, 6-7=100
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=130, 2-3=78, 3-6=-34, 6-7=-56, 2-10=-30, 4-8=-30
      Horz: 1-2=-160, 2-3=-108, 3-6=4, 6-7=26
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=28, 2-3=51, 3-6=46, 6-7=98, 2-10=-30, 4-8=-30
      Horz: 1-2=-58, 2-3=-81, 3-6=-76, 6-7=-128
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=36, 2-3=14, 3-6=-99, 6-7=-76, 2-10=-50, 4-8=-50
      Horz: 1-2=-86, 2-3=-64, 3-6=49, 6-7=26
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=8, 2-3=-14, 3-6=-19, 6-7=4, 2-10=-50, 4-8=-50
      Horz: 1-2=-58, 2-3=-36, 3-6=-31, 6-7=-54
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=56, 2-3=78, 3-6=78, 6-7=56, 2-10=-30, 4-8=-30
      Horz: 1-2=-86, 2-3=-108, 3-6=-108, 6-7=-86
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=16, 2-3=39, 3-6=39, 6-7=16, 2-10=-30, 4-8=-30
      Horz: 1-2=-46, 2-3=-69, 3-6=-69, 6-7=-46
   Concentrated Loads (lb)
      Vert: 13=-346(F) 14=-346(F) 15=-346(F)

Continued on page 3

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=56, 2-3=78, 3-6=78, 6-7=56, 2-10=-30, 4-8=-30
Horz: 1-2=-86, 2-3=-108, 3-6=-108, 6-7=-86
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-3=39, 3-6=39, 6-7=16, 2-10=-30, 4-8=-30
Horz: 1-2=-46, 2-3=-69, 3-6=-69, 6-7=-46
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=36, 2-3=14, 3-6=14, 6-7=36, 2-10=-50, 4-8=-50
Horz: 1-2=-86, 2-3=-64, 3-6=-64, 6-7=-86
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-3=-26, 3-6=-26, 6-7=-4, 2-10=-50, 4-8=-50
Horz: 1-2=-46, 2-3=-24, 3-6=-24, 6-7=-46
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-50, 3-6=-50, 6-7=-50, 2-10=-50, 4-8=-50
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-77, 3-6=-161, 6-7=-145, 2-10=-50, 4-8=-50
Horz: 1-2=-65, 2-3=-48, 3-6=36, 6-7=20
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-81, 2-3=-98, 3-6=-102, 6-7=-85, 2-10=-50, 4-8=-50
Horz: 1-2=-44, 2-3=-27, 3-6=-23, 6-7=-40
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-77, 3-6=-77, 6-7=-60, 2-10=-50, 4-8=-50
Horz: 1-2=-65, 2-3=-48, 3-6=-48, 6-7=-65
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-107, 3-6=-107, 6-7=-90, 2-10=-50, 4-8=-50
Horz: 1-2=-35, 2-3=-18, 3-6=-18, 6-7=-35
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	PB	GABLE	13	1	I54203528
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:31 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-O0agtjc2mn?QIX?if9eC73hnj7GrN_VoAEqBsAydj76

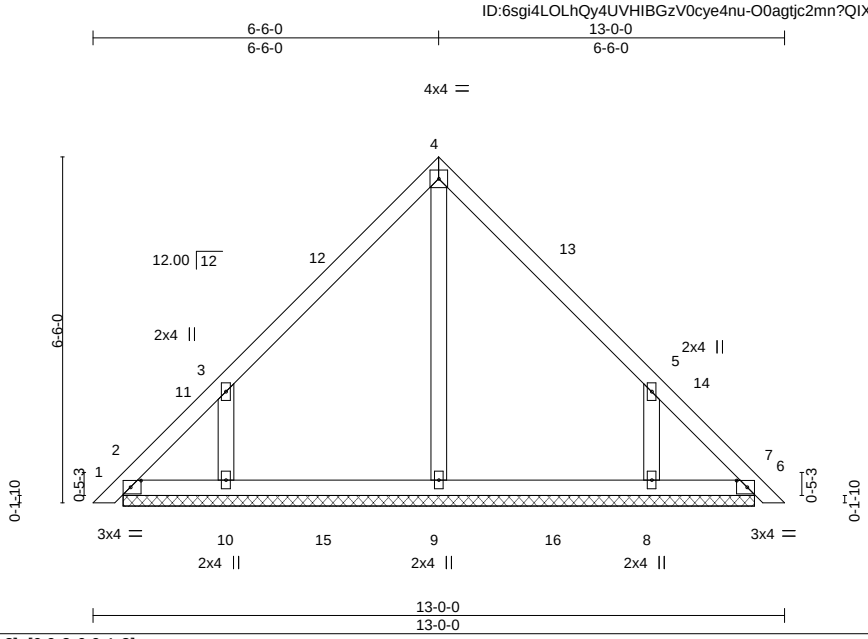

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [6:0-2-6,0-1-8]

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	0.18	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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 11-10-6.
(lb) - Max Horz 2=-201(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-246(LC 12), 8=-245(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=384(LC 19), 10=394(LC 19), 8=392(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-455/412, 5-8=-455/412

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-8 to 4-7-4, Interior(1) 4-7-4 to 6-6-0, Exterior(2) 6-6-0 to 10-10-13, Interior(1) 10-10-13 to 12-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=246, 8=245.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

September 14,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5621	PBGE	GABLE	2	1	I54203529
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:32 2022 Page 1
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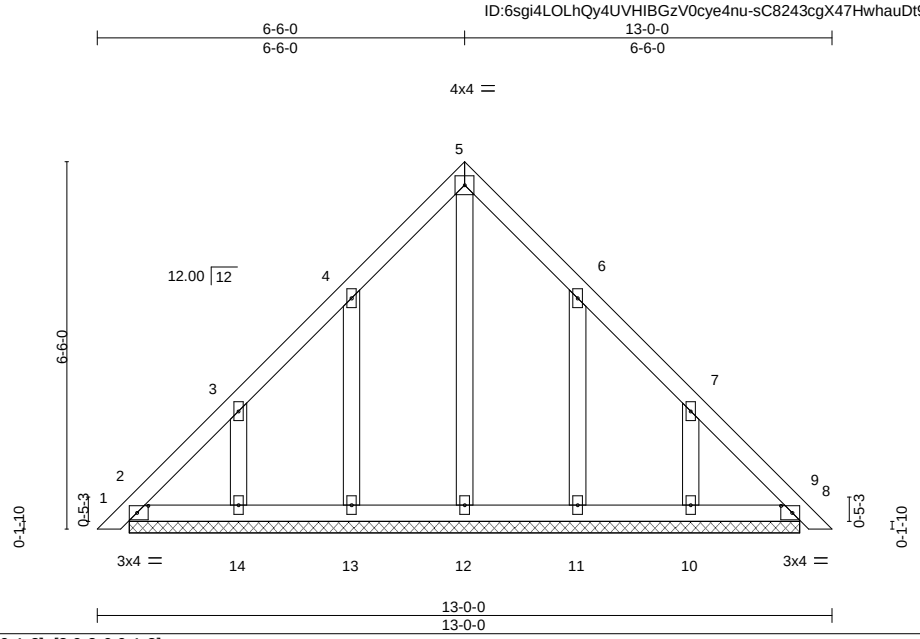


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [8:0-2-6,0-1-8]

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	0.07	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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 11-10-6.
(lb) - Max Horz 2=-251(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-204(LC 12), 14=-230(LC 12), 11=-202(LC 13), 10=-230(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-269/190
WEBS 3-14=-264/243, 7-10=-264/243

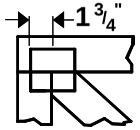
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=204, 14=230, 11=202, 10=230.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

September 14,2022

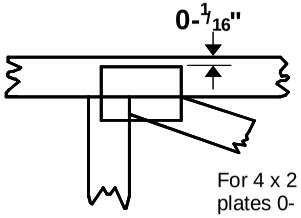
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

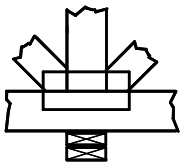
4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

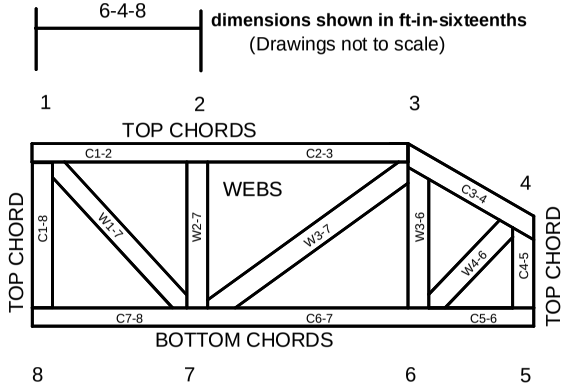


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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.

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5621
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
41 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 124 Hidden Lakes **LOT #** 124 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 7 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY / PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	4	4.00	0.00	ATTIC A1	43-06-00 43-06-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 145.7 lbs. -474.0 lbs. Joint 11 2430.7 lbs. 233.9 lbs. Joint 28 3125.6 lbs. -221.8 lbs.
	1 / 3 Ply	4.00	0.00	ATTIC A1-GR	43-06-00 43-06-00	2 X 6	2 X 8	00-11-00	00-11-00	Joint 2 619.2 lbs. -326.5 lbs. Joint 10 9329.7 lbs. 53.8 lbs. Joint 17 4556.6 lbs. -176.9 lbs.
	1	4.00	0.00	GABLE A1GE	43-06-00 43-06-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 209.6 lbs. -424.9 lbs. Joint 24 2252.6 lbs. -121.4 lbs. Joint 46 2865.1 lbs. -373.8 lbs.
	5	12.00	0.00	ROOF A2	23-01-12 23-01-12	2 X 6	2 X 6		00-11-00	Joint 5 953.1 lbs. -210.7 lbs. Joint 10 912.2 lbs. -196.9 lbs.
	1	12.00	0.00	GABLE A2SG	23-01-12 23-01-12	2 X 6	2 X 6		00-11-00	Joint 9 953.1 lbs. -402.4 lbs. Joint 18 912.2 lbs. -392.9 lbs.
	3	12.00	0.00	ROOF A3	25-03-12 25-03-12	2 X 6	2 X 6		00-11-00	Joint 5 1039.7 lbs. -220.3 lbs. Joint 10 998.9 lbs. -177.1 lbs.
	1	12.00	0.00	GABLE A3SG	25-03-12 25-03-12	2 X 6	2 X 6		00-11-00	Joint 9 1039.7 lbs. -428.8 lbs. Joint 18 998.9 lbs. -369.7 lbs.
	5	**.**	0.00	ATTIC A4	25-00-12 25-00-12	2 X 6	2 X 6	00-03-00	00-11-00	Joint 8 608.4 lbs. 121.9 lbs. Joint 12 1987.5 lbs. 700.2 lbs. Joint 17 734.0 lbs. 584.9 lbs. Joint 25 647.9 lbs. -96.7 lbs.
	1	**.**	0.00	GABLE A4GE	25-00-12 25-00-12	2 X 6	2 X 6	00-03-00	00-11-00	Joint 15 617.7 lbs. 123.2 lbs. Joint 19 1969.2 lbs. 710.2 lbs. Joint 24 735.0 lbs. 587.0 lbs. Joint 32 654.8 lbs. -100.0 lbs.
	3	**.**	0.00	ATTIC A5	25-00-12 25-00-12	2 X 6	2 X 6	00-03-00	00-11-00	Joint 8 605.0 lbs. 121.1 lbs. Joint 12 1981.4 lbs. 701.8 lbs. Joint 17 733.1 lbs. 584.4 lbs. Joint 24 645.0 lbs. -88.2 lbs.

Reaction Summary of Order

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Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

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ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
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Clayton, NC 27527

JOB NAME: Lot 124 Hidden Lakes **LOT #** 124 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 7 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY / PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	1	12.00	0.00	ATTIC B1	21-11-00 21-11-00	2 X 8	2 X 6	00-11-00	00-11-00	Joint 2 1605.7 lbs. 130.7 lbs. Joint 12 1605.7 lbs. 130.7 lbs.
	1	12.00	0.00	ATTIC B1GE	21-11-00 21-11-00	2 X 8	2 X 6	00-11-00	00-11-00	Joint 2 1597.0 lbs. -26.1 lbs. Joint 12 1597.0 lbs. -26.1 lbs.
	3	12.00	0.00	ATTIC B2	21-11-00 21-11-00	2 X 8	2 X 6		00-11-00	Joint 1 1582.3 lbs. 135.1 lbs. Joint 11 1606.3 lbs. 130.5 lbs.
	6	12.00	0.00	ATTIC B3	21-11-00 21-11-00	2 X 8	2 X 6			Joint 1 1582.9 lbs. 134.9 lbs. Joint 11 1582.9 lbs. 134.9 lbs.
	1 2 Ply	12.00	0.00	ATTIC GIRDER B3-GR	21-11-00 21-11-00	2 X 6	2 X 10			Joint 15 4365.9 lbs. 2626.5 lbs. Joint 19 5393.6 lbs. 1424.7 lbs.
	5	4.00	0.00	COMMON C1	15-11-00 15-11-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 671.9 lbs. -399.9 lbs. Joint 4 671.9 lbs. -399.9 lbs.
	1	4.00	0.00	COMMON C1GE	15-11-00 15-11-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 176.1 lbs. -96.6 lbs. Joint 8 176.1 lbs. -106.0 lbs. Joint 10 312.8 lbs. -181.0 lbs. Joint 11 105.4 lbs. -60.3 lbs. Joint 12 165.1 lbs. -6.5 lbs.
	3	12.00	0.00	COMMON D1	07-06-08 07-06-08	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 345.6 lbs. -61.4 lbs. Joint 4 345.6 lbs. -61.4 lbs.
	1	12.00	0.00	GABLE D1GE	07-06-08 07-06-08	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 143.4 lbs. -45.4 lbs. Joint 6 138.7 lbs. -21.9 lbs. Joint 8 218.0 lbs. -215.5 lbs. Joint 9 116.4 lbs. 27.7 lbs. Joint 10 220.3 lbs. -217.5 lbs.
	3	4.00	0.00	MONOPITCH M1	09-06-00 09-06-00	2 X 6	2 X 6	00-11-00	00-03-08	Joint 2 415.4 lbs. -240.5 lbs. Joint 6 376.6 lbs. -253.1 lbs.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5621
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
41 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 124 Hidden Lakes **LOT #** 124 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 7 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ROOF TRUSSES

LOADING INFORMATION

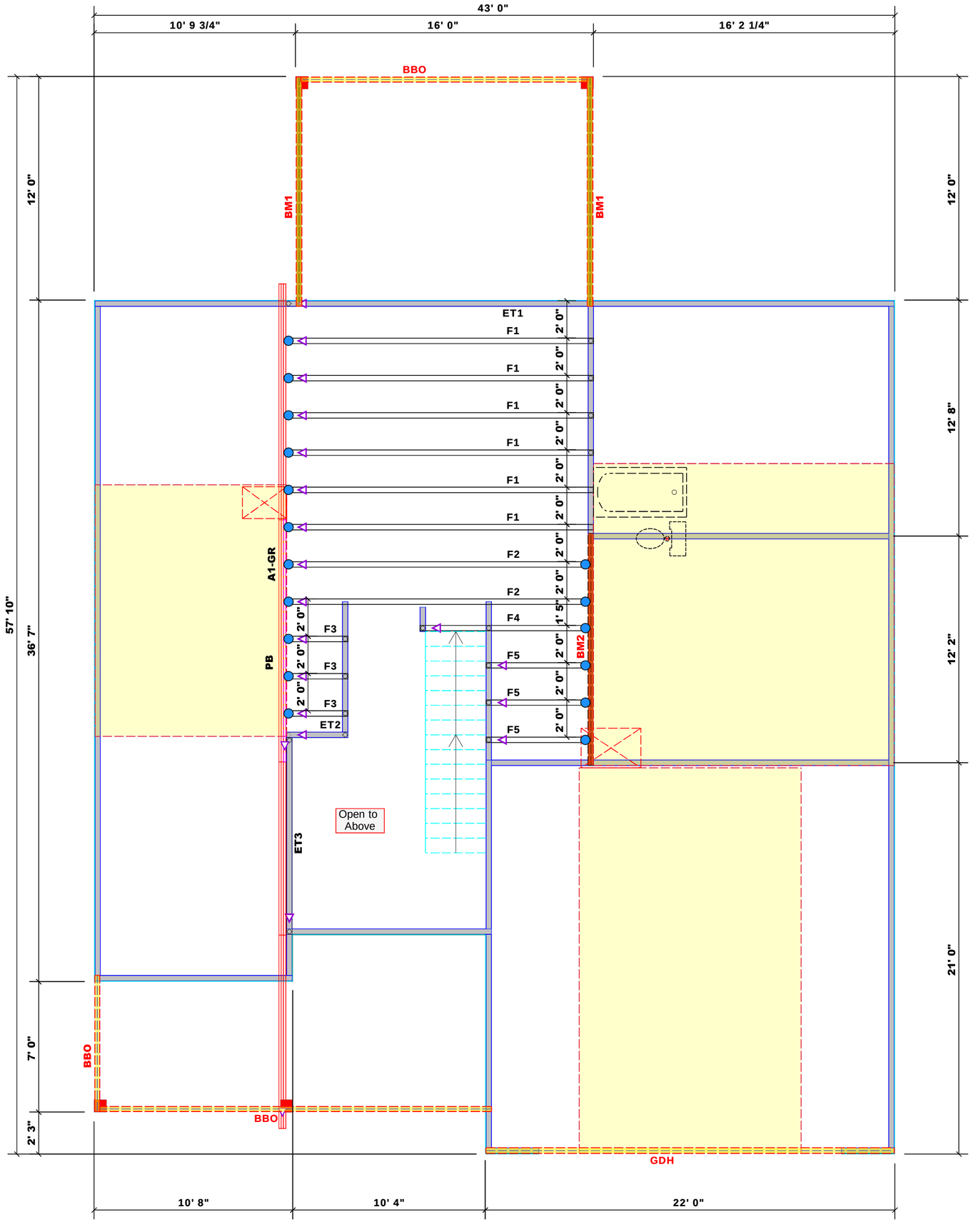
TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY / PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	1	4.00	0.00	ROOF M2	20-00-12 20-00-12	2 X 6	2 X 6	00-11-00		Joint 2 354.2 lbs. -271.2 lbs. Joint 9 409.0 lbs. -295.0 lbs. Joint 10 829.8 lbs. -317.4 lbs.
	1 2 Ply	4.00	0.00	ROOF M2-GR	20-00-12 20-00-12	2 X 6	2 X 6	00-11-00		Joint 2 746.9 lbs. -469.5 lbs. Joint 9 1252.4 lbs. -505.1 lbs. Joint 10 3019.0 lbs. 150.7 lbs.
	13	12.00	0.00	GABLE PB	11-10-06 11-10-06	2 X 4	2 X 4			Joint 2 148.9 lbs. -73.0 lbs. Joint 6 123.3 lbs. -40.4 lbs. Joint 8 392.4 lbs. -245.1 lbs. Joint 9 383.6 lbs. 51.6 lbs. Joint 10 393.8 lbs. -246.0 lbs.
	2	12.00	0.00	GABLE PBGE	11-10-06 11-10-06	2 X 4	2 X 4			Joint 2 166.0 lbs. -72.0 lbs. Joint 8 142.5 lbs. -30.7 lbs. Joint 10 227.6 lbs. -230.0 lbs. Joint 11 213.1 lbs. -202.1 lbs. Joint 12 181.7 lbs. 18.7 lbs.

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
9	Hangers, USP	HUS 26			SIMPSON (HUS26)
2	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	11-00-00		BM3
1	Hangers, USP	THD26-2			SIMPSON (HHUS26-2)



All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Attic Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Roof Area	= 3115.52 sq.ft.
Ridge Line	= 90.43 ft.
Hip Line	= 0 ft.
Horiz. OH	= 119.44 ft.
Raked OH	= 162.58 ft.
Decking	= 107 sheets

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Hatch Legend

- Second Floor Walls
- Drop Beam
- Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	17	NA	16d/3-1/2"	16d/3-1/2"

Products

PlotID	Length	Product	Plies	Net Qty
BM1	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4
BM2	13' 0"	1-3/4"x 16" LVL Kerto-S	2	2
GDH	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Wellco Contractors
JOB NAME	Lot 124 Hidden Lakes
PLAN	Plan 7
SEAL DATE	N/A
QUOTE #	
JOB #	J1122-5622
CITY / CO.	Clayton / Johnston
ADDRESS	41 Sugarberry Place
MODEL	Floor
DATE REV.	11/11/22
DRAWN BY	Jonathan Landry
SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

RE: J1122-5622
Lot 124 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Wellco Contractors Project Name: J1122-5622
Lot/Block: 124 Model: Plan 7
Address: 41 Sugarberry Place Subdivision: Hidden Lakes
City: Clayton State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 8 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I54203641	ET1	9/14/2022
2	I54203642	ET2	9/14/2022
3	I54203643	ET3	9/14/2022
4	I54203644	F1	9/14/2022
5	I54203645	F2	9/14/2022
6	I54203646	F3	9/14/2022
7	I54203647	F4	9/14/2022
8	I54203648	F5	9/14/2022

The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2022.
North Carolina COA: C-0844

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

September 14, 2022
Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	ET1	GABLE	1	1	I54203641
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:24 2022 Page 1
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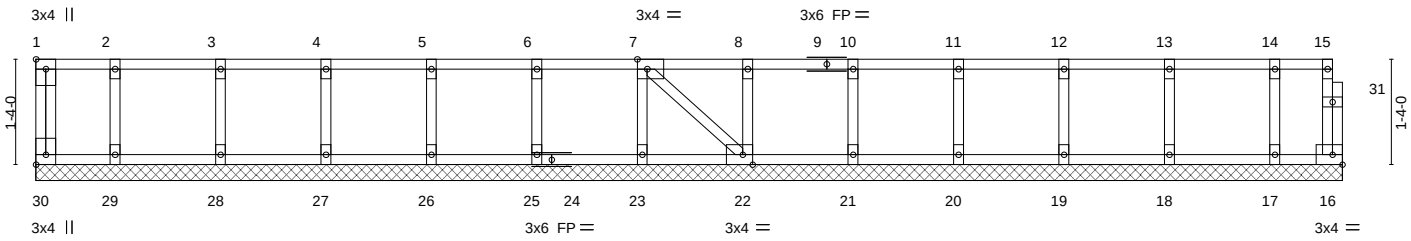

1-0-0	2-4-0	3-8-0	5-0-0	6-4-0	7-8-0	9-0-0	10-4-0	11-8-0	13-0-0	14-4-0	15-8-0	16-6-4
1-0-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-4

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [22:0-1-8,Edge], [30:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 77 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 16-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

September 14,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	ET2	GABLE	1	1	I54203642
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:25 2022 Page 1
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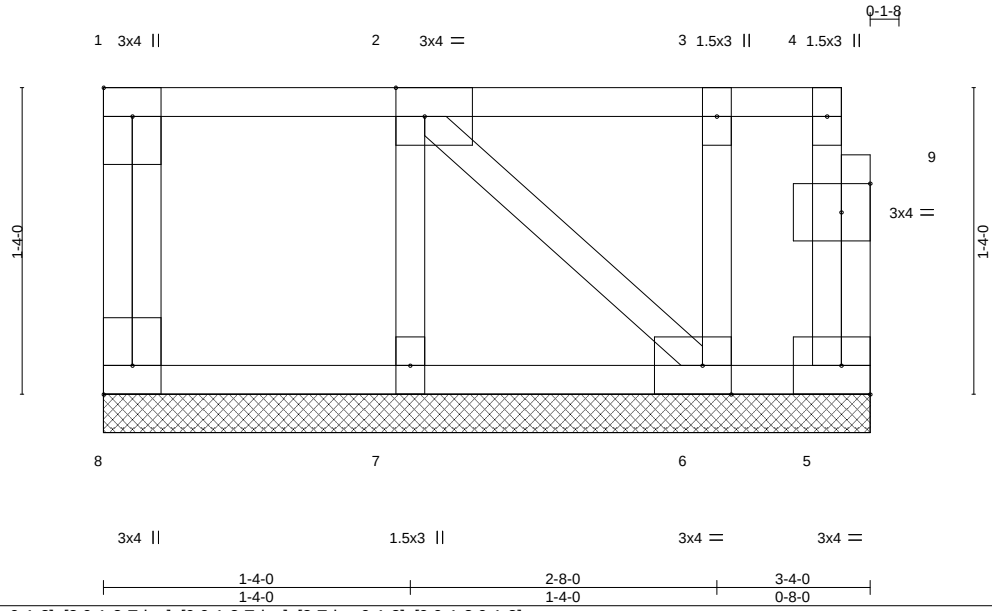

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [6:0-1-8,Edge], [8:Edge,0-1-8], [9:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 3-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-
1) Plates checked for a plus or minus 1 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

September 14,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	ET3	GABLE	1	1	I54203643
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:26 2022 Page 1
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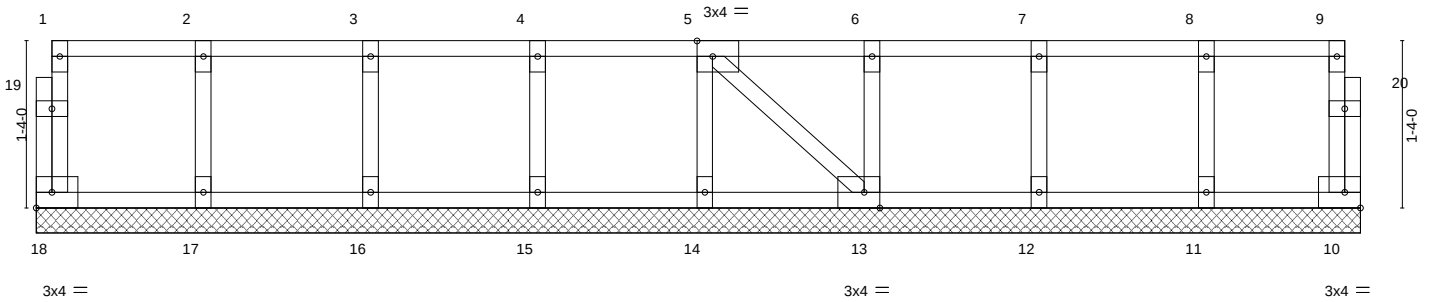

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-6-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-12

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 10-6-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

September 14,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	F1	FLOOR	6	1	I54203644
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:26 2022 Page 1
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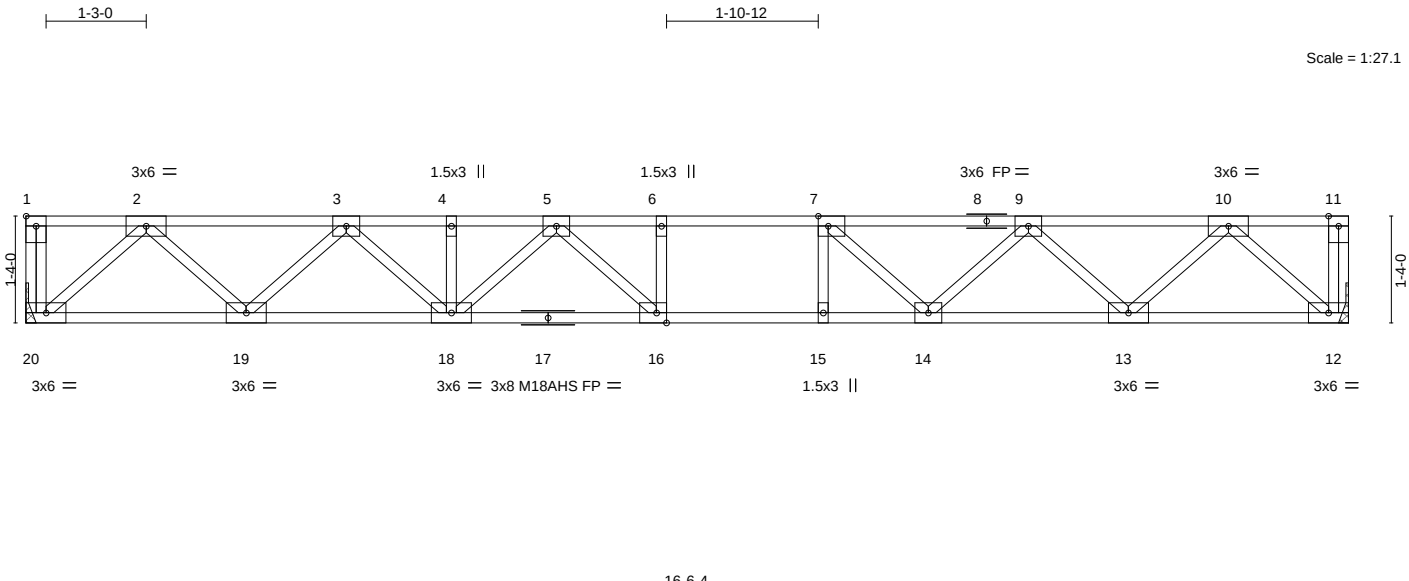

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.20	16-18	>973	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.27	16-18	>719	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.05	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 12=Mechanical
Max Grav 20=1120(LC 1), 12=1120(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-263/0, 11-12=-269/0, 2-3=-1600/0, 3-4=-2621/0, 4-5=-2621/0, 5-6=-2964/0, 6-7=-2964/0, 7-9=-2572/0, 9-10=-1605/0
BOT CHORD 19-20=0/960, 18-19=0/2214, 16-18=0/2888, 15-16=0/2964, 14-15=0/2964, 13-14=0/2215, 12-13=0/960
WEBS 2-20=-1278/0, 2-19=0/889, 3-19=-855/0, 3-18=0/553, 10-12=-1278/0, 10-13=0/897, 9-13=-849/0, 9-14=0/539, 7-14=-672/0, 5-18=-363/0, 5-16=-167/429

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 0-1-8, and 225 lb down at 16-4-12 on top 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)

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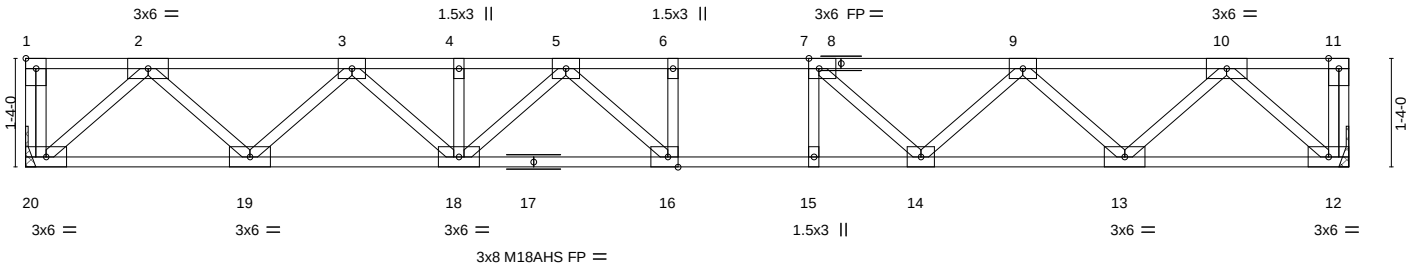
Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	F2	FLOOR	2	1	I54203645
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:27 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-X3QPFkqMMlgTAk3HrjZHIgzmv39AcWuiedTU1zydj4M

1-3-0 1-7-4

Scale = 1:26.6



16-2-12
16-2-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.17	16-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.23	16-18	>824	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.05	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 12=Mechanical
Max Grav 20=1104(LC 1), 12=1104(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-263/0, 11-12=-269/0, 2-3=-1565/0, 3-4=-2551/0, 4-5=-2551/0, 5-6=-2865/0, 6-7=-2865/0, 7-9=-2502/0, 9-10=-1570/0
BOT CHORD 19-20=0/942, 18-19=0/2162, 16-18=0/2804, 15-16=0/2865, 14-15=0/2865, 13-14=0/2167, 12-13=0/941
WEBS 2-20=-1254/0, 2-19=0/866, 3-19=-831/0, 3-18=0/528, 10-12=-1253/0, 10-13=0/875, 9-13=-829/0, 9-14=0/508, 7-14=-621/0, 5-18=-344/0, 5-16=-177/391

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 0-1-8, and 225 lb down at 16-5-8 on top 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	F3	Floor	3	1	I54203646
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:28 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-0FznS3r_72pKoudUPQ4WruW2iTimL33rtHC2ZPydj4L

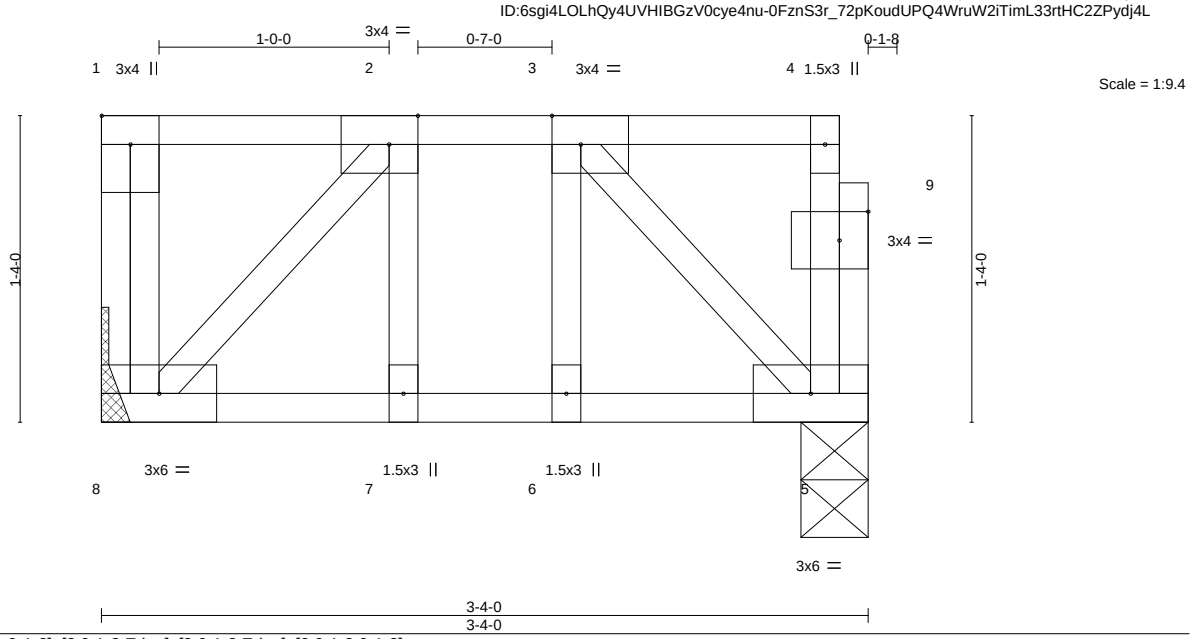

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	-0.00	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 24 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=395(LC 1), 5=163(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-279/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 1=-225(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 1=-225(F)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-100, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-225(F)

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LOAD CASE(S) Standard

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-2=-20, 2-4=-100
   Concentrated Loads (lb)
      Vert: 1=-225(F)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-3=-100, 3-4=-20
   Concentrated Loads (lb)
      Vert: 1=-225(F)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-2=-20, 2-4=-100
   Concentrated Loads (lb)
      Vert: 1=-225(F)

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	F4	FLOOR	1	1	I54203647
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:30 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-ye5YtlsFef321BnsWr6_wJbNSHNcpyo8Kbh9dlydj4J

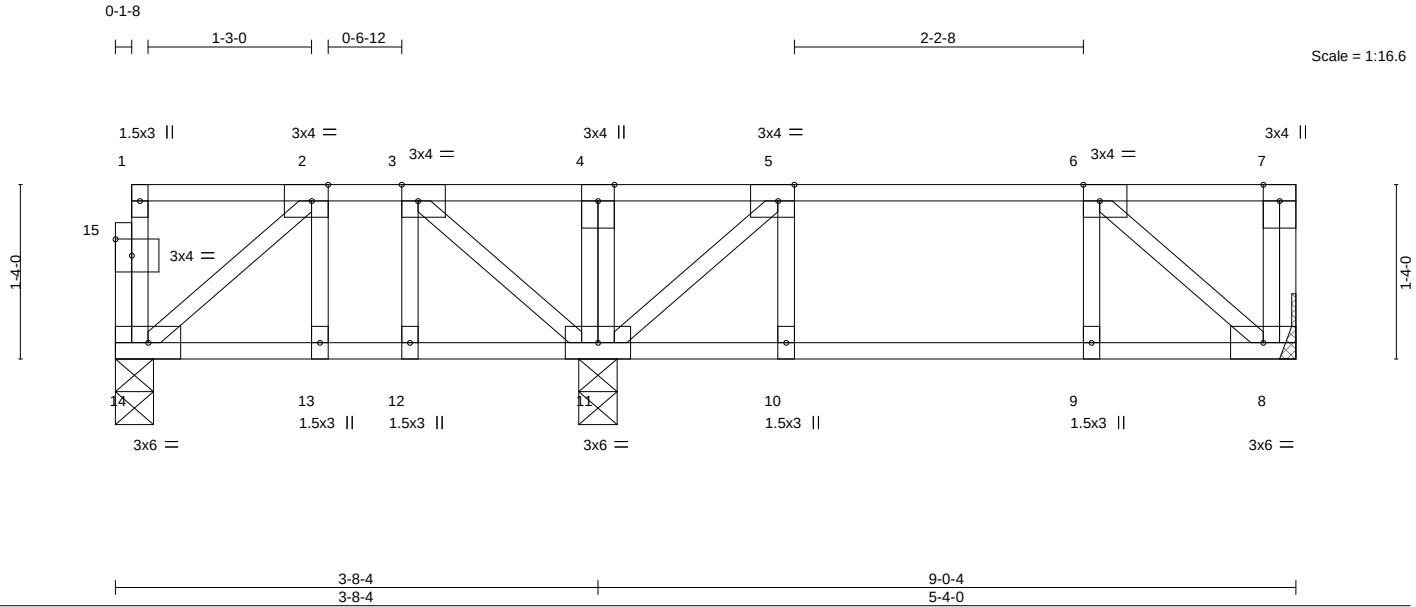

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [15:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.01	9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.01	9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 11=0-3-8, 8=Mechanical
Max Grav 14=207(LC 10), 11=512(LC 9), 8=511(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-273/0, 5-6=-278/0
BOT CHORD 10-11=0/278, 9-10=0/278, 8-9=0/278
WEBS 5-11=-365/0, 6-8=-363/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 9-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-7=-20

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 7=-225(F)

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-7=-20
Concentrated Loads (lb)
Vert: 7=-225(F)

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-3=-100, 3-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-2=-20, 2-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-6=-100, 6-7=-20
Concentrated Loads (lb)
Vert: 7=-225(F)

10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-5=-20, 5-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-3=-100, 3-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-2=-20, 2-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-6=-100, 6-7=-20
Concentrated Loads (lb)
Vert: 7=-225(F)

14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-5=-20, 5-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)

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Job	Truss	Truss Type	Qty	Ply	Lot 124 Hidden Lakes
J1122-5622	F5	FLOOR	3	1	I54203648
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:31 2022 Page 1
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-Qqfw55ttPzBvfLM34ZdDTW8YAgjSYP0HZFRiAkydj4I

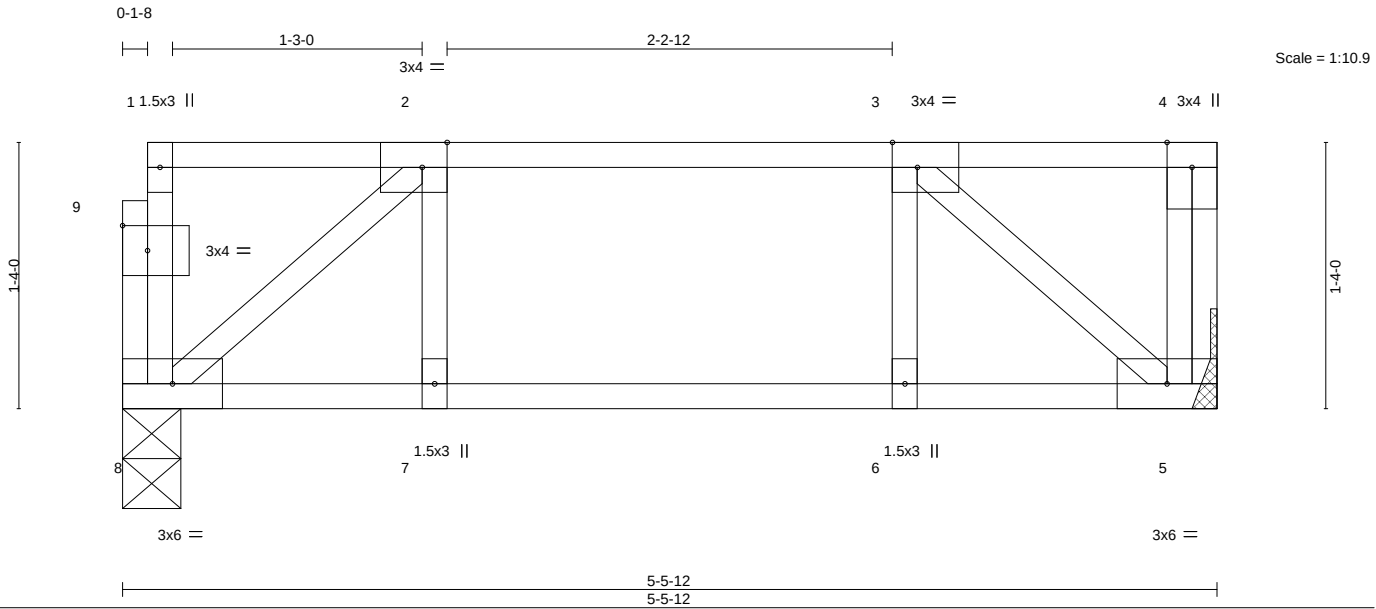

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.01	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 30 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Grav 8=281(LC 1), 5=288(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-282/0
BOT CHORD 7-8=0/282, 6-7=0/282, 5-6=0/282
WEBS 2-8=-366/0, 3-5=-369/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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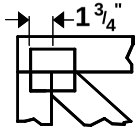
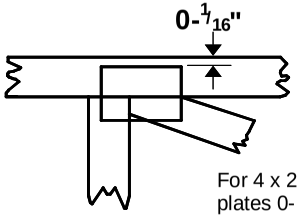
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

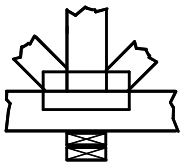
4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

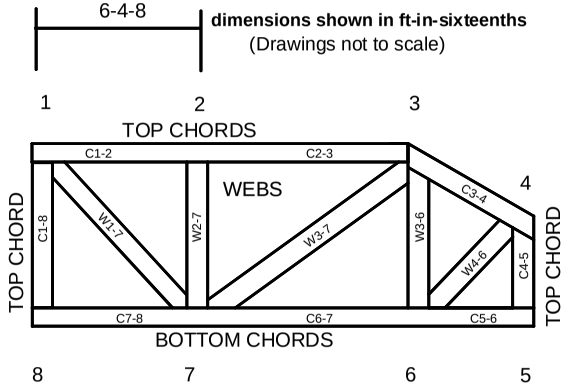


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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.

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

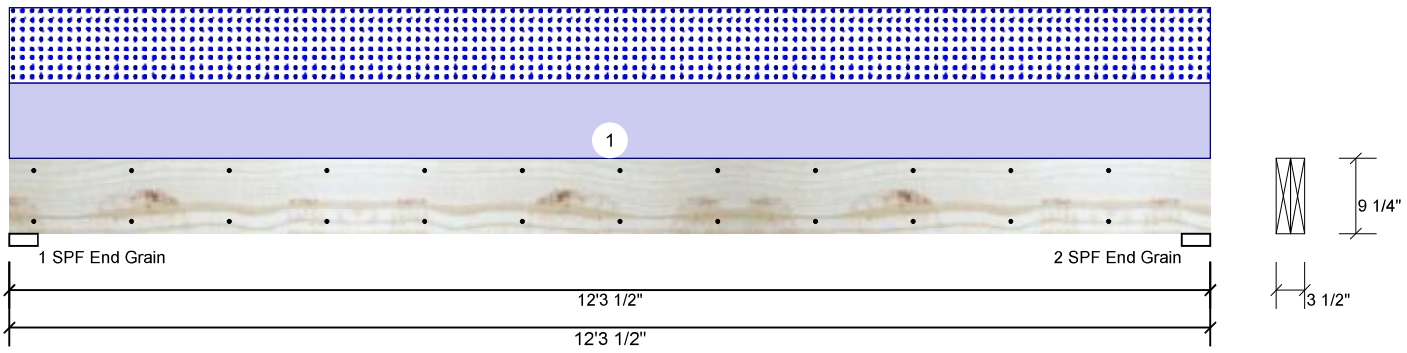
Failure to Follow Could Cause Property Damage or Personal Injury

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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Client:	Wellco Contractors	Date:	11/11/2022
Project:	Plan 7	Input by:	Jonathan Landry
Address:	41 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 124 Hidden Lakes
		Project #:	J1122-5622

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1077	1033	0	0
2	Vertical	0	1077	1033	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	20%	1077 / 1033	2109	L	D+S
2 - SPF End Grain	3.500"	Vert	20%	1077 / 1033	2109	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6007 ft-lb	6'1 3/4"	14423 ft-lb	0.416 (42%)	D+S	L
Unbraced	6007 ft-lb	6'1 3/4"	6421 ft-lb	0.936 (94%)	D+S	L
Shear	1750 lb	11'2 3/4"	7943 lb	0.220 (22%)	D+S	L
LL Defl inch	0.171 (L/830)	6'1 3/4"	0.296 (L/480)	0.578 (58%)	S	L
TL Defl inch	0.349 (L/406)	6'1 3/4"	0.592 (L/240)	0.590 (59%)	D+S	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top loads must be supported equally by all plies.
6 Top must be laterally braced at end bearings.
7 Bottom must be laterally braced at end bearings.
8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	168 PLF	0 PLF	168 PLF	0 PLF	0 PLF	C1
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
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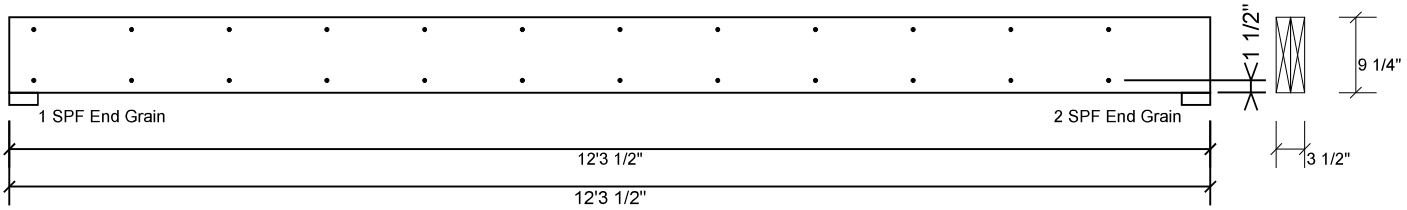
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	11/11/2022
Project:	Plan 7	Input by:	Jonathan Landry
Address:	41 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 124 Hidden Lakes
		Project #:	J1122-5622

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

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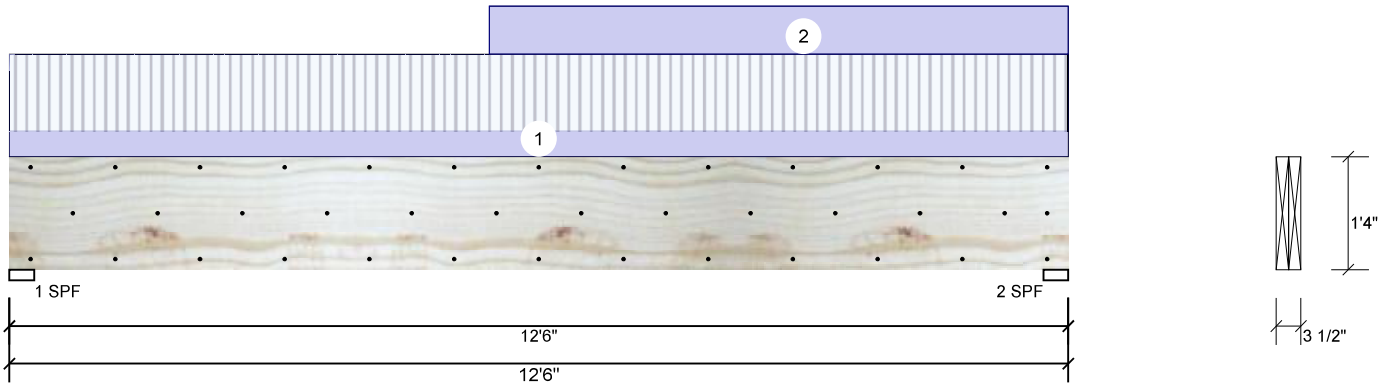
Client:	Wellco Contractors	Date:	11/11/2022
Project:	Plan 7	Input by:	Jonathan Landry
Address:	41 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 124 Hidden Lakes
		Project #:	J1122-5622

BM2 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1200	695	0	0	0
2	Vertical	1200	1080	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	36%	695 / 1200	1895	L	D+L
2 - SPF	3.500"	Vert	44%	1080 / 1200	2280	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6203 ft-lb	6'7 9/16"	34565 ft-lb	0.179 (18%)	D+L	L
Unbraced	6203 ft-lb	6'7 9/16"	10419 ft-lb	0.595 (60%)	D+L	L
Shear	2007 lb	10'10 1/2"	11947 lb	0.168 (17%)	D+L	L
LL Defl inch	0.045 (L/3184)	6'3"	0.302 (L/480)	0.151 (15%)	L	L
TL Defl inch	0.080 (L/1808)	6'4 9/16"	0.603 (L/240)	0.133 (13%)	D+L	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top loads must be supported equally by all plies.
6 Top must be laterally braced at end bearings.
7 Bottom must be laterally braced at end bearings.
8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Far Face	64 PLF	192 PLF	0 PLF	0 PLF	0 PLF	F4
2	Part. Uniform	5-8-0 to 12-6-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
	Self Weight				12 PLF					

Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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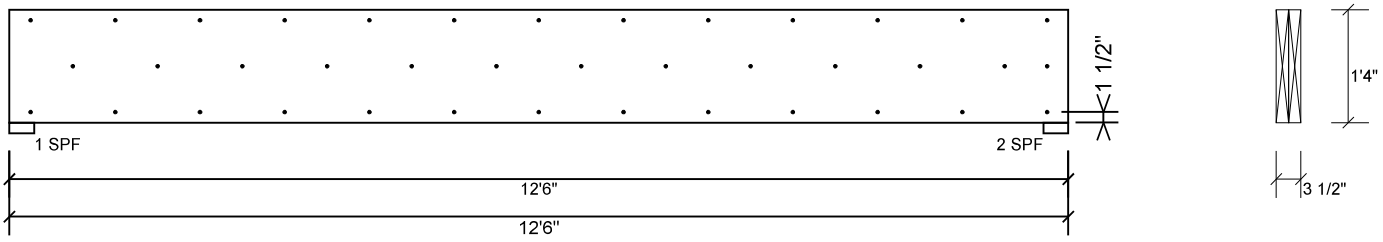
Project:	Plan 7	Input by:	Jonathan Landry
Address:	41 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 124 Hidden Lakes
		Project #:	J1122-5622

BM2 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	52.1 %
Load	128.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
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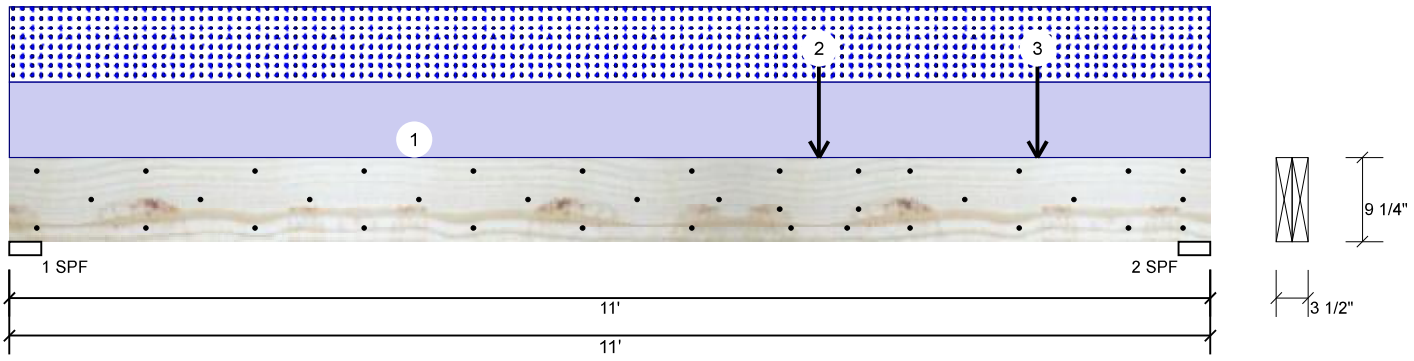
		Project #:	J1122-5622

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1482	1443	0	0
2	Vertical	0	1821	1781	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	56%	1482 / 1443	2925	L	D+S
2 - SPF	3.500"	Vert	69%	1821 / 1781	3602	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8580 ft-lb	6'3 13/16"	14423 ft-lb	0.595 (59%)	D+S	L
Unbraced	8580 ft-lb	6'3 13/16"	8605 ft-lb	0.997 (100%)	D+S	L
Shear	3467 lb	9'11 1/4"	7943 lb	0.436 (44%)	D+S	L
LL Defl inch	0.198 (L/639)	5'8 1/16"	0.264 (L/480)	0.751 (75%)	S	L
TL Defl inch	0.400 (L/316)	5'8"	0.527 (L/240)	0.760 (76%)	D+S	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
5 Girders are designed to be supported on the bottom edge only.
6 Top must be laterally braced at a maximum of 8'2 13/16" o.c.
7 Bottom must be laterally braced at end bearings.
8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Far Face	228 PLF	0 PLF	228 PLF	0 PLF	0 PLF	A2
2	Point	7-5-0		Near Face	511 lb	0 lb	511 lb	0 lb	0 lb	M2-GR
3	Point	9-5-0		Near Face	205 lb	0 lb	205 lb	0 lb	0 lb	M2
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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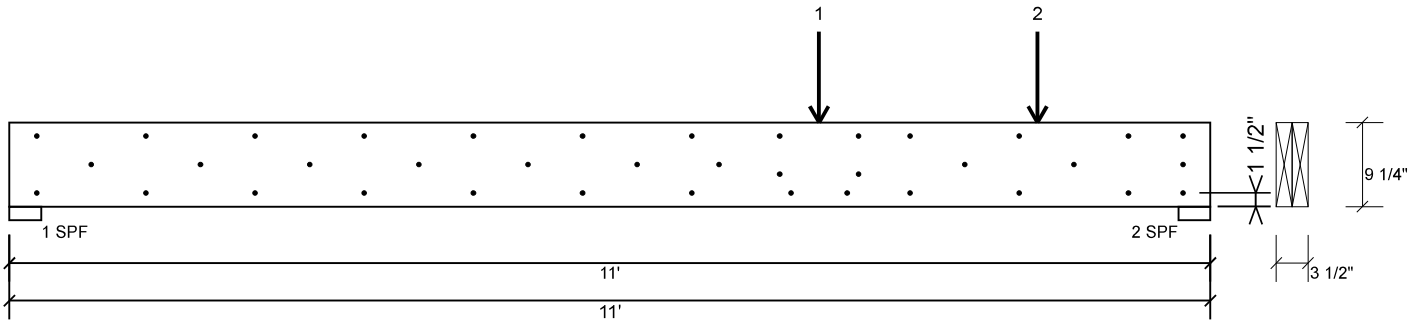
BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6".

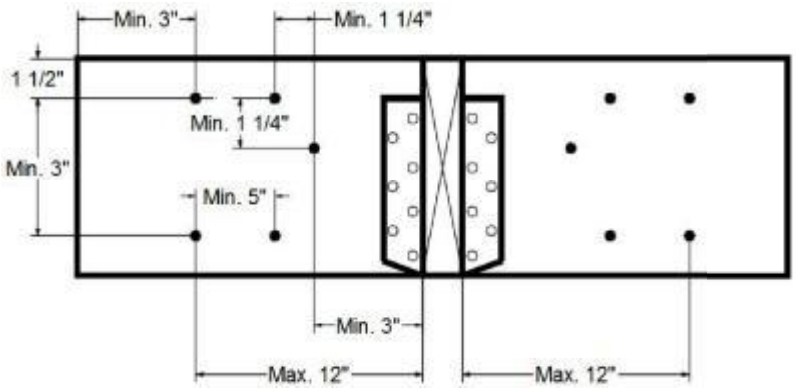
Capacity	80.7 %
Load	228.0 PLF
Yield Limit per Foot	282.4 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

Concentrated Load

Fasten at concentrated side load at 7-5-0 with a minimum of (6) – 10d Box nails (.128x3") in the pattern shown.

Capacity	90.5 %
Load	511.0lb.
Total Yield Limit	564.8 lb.
Cg	1.0000
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Load Combination	D+S
Duration Factor	1.15

Min/Max fastener distances for Concentrated Side Loads



Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

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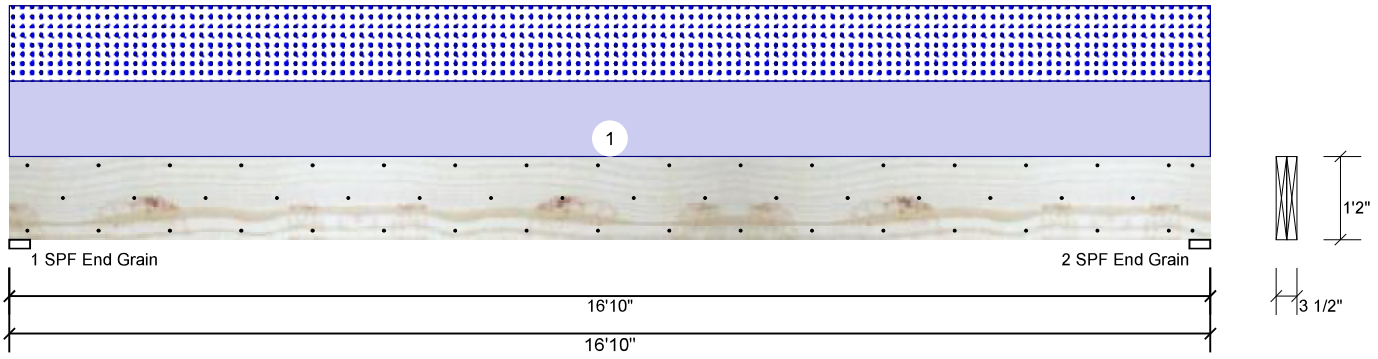
Address:	41 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 124 Hidden Lakes
		Project #:	J1122-5622

GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1733	1641	0	0
2	Vertical	0	1733	1641	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	33%	1733 / 1641	3374	L	D+S
2 - SPF End Grain	3.500"	Vert	33%	1733 / 1641	3374	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13437 ft-lb	8'5"	31049 ft-lb	0.433 (43%)	D+S	L
Unbraced	13437 ft-lb	8'5"	13481 ft-lb	0.997 (100%)	D+S	L
Shear	2802 lb	1'5 1/2"	12021 lb	0.233 (23%)	D+S	L
LL Defl inch	0.212 (L/925)	8'5 1/16"	0.409 (L/480)	0.519 (52%)	S	L
TL Defl inch	0.437 (L/450)	8'5 1/16"	0.819 (L/240)	0.533 (53%)	D+S	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3. Refer to last page of calculations for fasteners required for specified loads.
4. Girders are designed to be supported on the bottom edge only.
5. Top loads must be supported equally by all plies.
6. Top must be laterally braced at a maximum of 7'7 3/4" o.c.
7. Bottom must be laterally braced at end bearings.
8. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	195 PLF	0 PLF	195 PLF	0 PLF	0 PLF	B1GE
	Self Weight				11 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

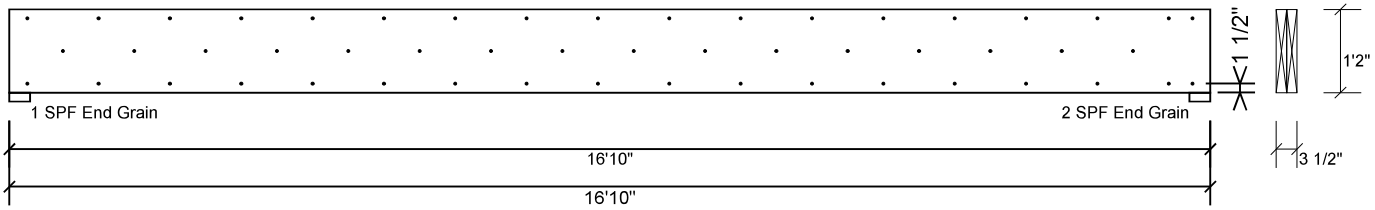
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	11/11/2022
Project:	Plan 7	Input by:	Jonathan Landry
Address:	41 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 124 Hidden Lakes
		Project #:	J1122-5622

GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5622
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
41 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 124 Hidden Lakes **LOT #** 124 **SUBDIV:** Hidden Lakes
MODEL: Floor **TAG:** Plan 7 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Floor Order

OVERHANG INFO		HEEL HEIGHT	00-04-05	REQ. LAYOUTS				REQ. ENGINEERING					BY	DATE
END CUT	RETURN											QUOTE	JL	11/11/22
PLUMB	NO	GABLE STUDS	16 IN. OC			JOBSITE	1			JOBSITE	1	LAYOUT	JL	11/11/22
												CUTTING	JL	11/11/22

FLOOR TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
40.0,10.0,0.0,5.0	1.00

FLOOR TRUSS SPACING: 24.0 IN. O.C. (TYP.)

FLOOR PROFILE	QTY / PLY	DEPTH ID	BASE SPAN	O/A SPAN	END TYPE LEFT	END TYPE RIGHT	INT BEARING SIZE	INT BEARING LOCATION	REACTIONS
	1	01-04-00 ET1	16-06-04	16-06-04					Joint 16 18.8 lbs. Joint 17 124.6 lbs. Joint 18 151.5 lbs. Joint 19 145.4 lbs. Joint 20 147.0 lbs.
	1	01-04-00 ET2	03-04-00	03-04-00					Joint 5 3.5 lbs. Joint 6 117.1 lbs. Joint 7 161.7 lbs. Joint 8 50.6 lbs.
	1	01-04-00 ET3	10-06-12	10-06-12					Joint 10 42.8 lbs. Joint 11 144.9 lbs. Joint 12 147.6 lbs. Joint 13 146.7 lbs. Joint 14 146.4 lbs.
	6	01-04-00 F1	16-06-04	16-06-04					Joint 12 1119.9 lbs. 706.8 lbs. Joint 20 1119.9 lbs. 644.9 lbs.
	2	01-04-00 F2	16-02-12	16-02-12					Joint 12 1103.9 lbs. 692.6 lbs. Joint 20 1103.9 lbs. 631.6 lbs.
	3	01-04-00 F3	03-04-00	03-04-00					Joint 5 163.4 lbs. 91.6 lbs. Joint 8 394.5 lbs. 317.8 lbs.
	1	01-04-00 F4	09-00-04	09-00-04					Joint 8 510.6 lbs. 302.3 lbs. Joint 11 511.7 lbs. 276.1 lbs. Joint 14 207.2 lbs. 47.6 lbs.
	3	01-04-00 F5	05-05-12	05-05-12					Joint 5 287.6 lbs. 188.4 lbs. Joint 8 281.4 lbs. 187.2 lbs.

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5622
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
41 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 124 Hidden Lakes **LOT #** 124 **SUBDIV:** Hidden Lakes
MODEL: Floor **TAG:** Plan 7 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

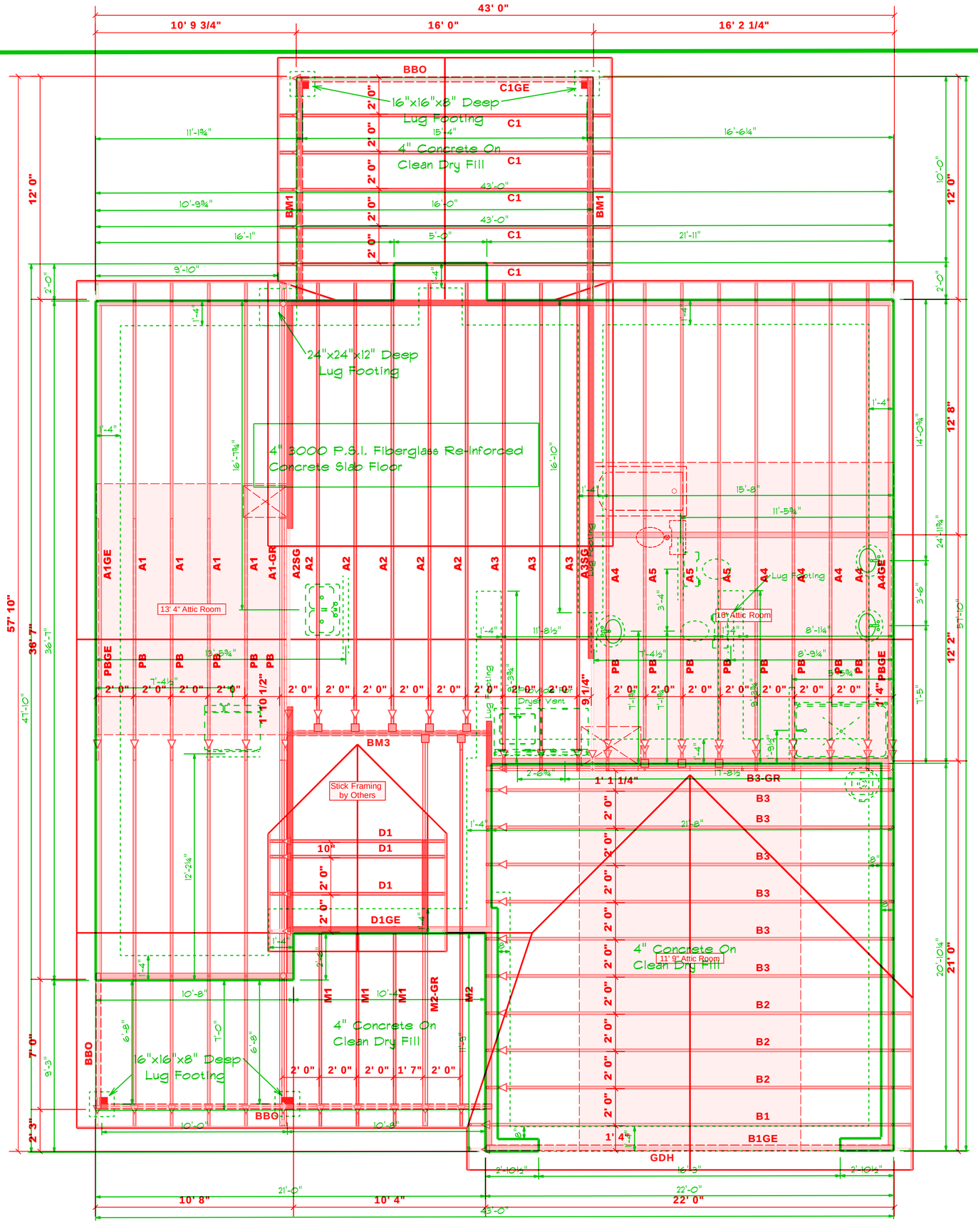
PLAN SEAL DATE: N/A

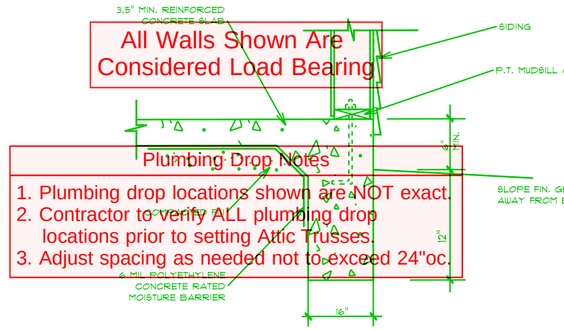
BUILDING DEPARTMENT
Floor Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
17	Hangers, USP	HUS 410			SIMPSON (HUS410)
4	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	13-00-00		BM1
2	LVL Beams (Sized)	LVL, 1-3/4" x 14" (S)	22-00-00		GDH
2	LVL Beams (Sized)	LVL, 1-3/4" x 16" (S)	13-00-00		BM2





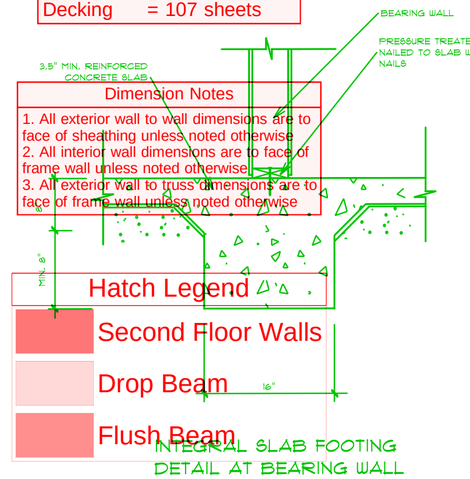
All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Attic Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Roof Area	= 3115.52 sq.ft.
Ridge Line	= 90.43 ft.
Hip Line	= 0 ft.
Horiz. OH	= 119.44 ft.
Raked OH	= 162.58 ft.
Decking	= 107 sheets

TURN-DOWN FOOTING DETAIL



Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise.
2. All interior wall dimensions are to face of frame wall unless noted otherwise.
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise.

Hatch Legend

- Second Floor Walls
- Drop Beam
- Flush Beam

INTEGRAL SLAB FOOTING DETAIL AT BEARING WALL

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	9	NA	16d/3-1/2"	16d/3-1/2"
	THD26-2	USP	1	NA	16d/3-1/2"	10d/3"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4
BM2	13' 0"	1-3/4"x 16" LVL Kerto-S	2	2
GDH	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2
Products				
PlotID	Length	Product	Plies	Net Qty
BM3	11' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2

1 **Truss Placement Plan**
Scale: 1/4"=1'

Foundation Plan

Scale: 1/4" = 1'-0"

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Trusses Backwards

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry
David Landry

LOAD CHART FOR JACK STUDS
(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	NO. OF STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	NO. OF STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	NO. OF STUDS FOR (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

CITY / CO.	Clayton / Johnston
ADDRESS	41 Sugarberry Place
MODEL	Roof
DATE REV.	11/11/22
DRAWN BY	Jonathan Landry
SALES REP.	Lenny Norris
BUILDER	Wellco Contractors
JOB NAME	Lot 124 Hidden Lakes
PLAN	Plan 7
SEAL DATE	N/A
QUOTE #	
JOB #	J1122-5621

DATE: Saturday, December 17, 2022
SCALE: 1/4"

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. The trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com