

ADDRESS : 282 HEATHERWOOD DR SUBDIV: OAKMONT PH 2 SECT 1 30LTS
CONTRACTOR : H & H CONSTRUCTORS INC PHONE : (910) 486-4864
OWNER : H & H CONSTRUCTORS INC PHONE :
PARCEL : 03-9589-01- -1021- -18-
APPL NUMBER: 17-50042391 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : T/S: 09/26/2017 03:42 PM JBROCK ----
OAKMONT #185

STRUCTURE: 000 000 36X62 4BDR 2.5BA SLAB W/ GARAGE & DECK

FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 4000000.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : NEW TANK WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
A814 01	11/15/17 11/16/17	SB AP	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003052891 282 HEATHERWOOD DR LILLINGTON 27546 T/S: 11/16/2017 09:47 AM SBENNETT -----
P309 01	11/15/17 11/15/17	JH AP	R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 003052909 T/S: 11/14/2017 11:00 AM JBROCK -----
B114 01	11/20/17 11/20/17	KS AP	R*BLDG MONO SLAB/TEMP SVC POLE TIME: 17:00 VRU #: 003054681 T/S: 11/16/2017 11:11 AM JBROCK ----- T/S: 11/20/2017 01:55 PM KSLATTUM -----
B104 01	1/25/18 1/25/18	JB AP	R*FOUND & SETBACK VERIF SURVEY TIME: 17:00 VRU #: 003080967 T/S: 01/25/2018 11:33 AM JBROCK -----
R425 01	1/26/18 1/26/18	TSG DA	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 003080595 T/S: 01/25/2018 08:59 AM JBROCK ----- 1-NAIL ALL LVL 2-TWO BROKEN A0 TRUSS UP STAIRS BATH 3-BROKEN WIRE AT STAIRS FIRST FLOOR. OK TO INSULATE AND SIDE
I129 01	2/13/18	TI	R*INSULATION INSPECTION TIME: 17:00 VRU #: 003088317 T/S: 02/12/2018 10:51 AM JBROCK -----
R425 02	2/13/18	TI	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 003088309 T/S: 02/12/2018 10:51 AM JBROCK -----

COMMENTS AND NOTES

RE: 1258493 - H&H-NC/Biltmore/185/Oakmont

Trenco

818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: H and H Project Name: 1258493
Lot/Block: 185 Subdivision: Oakmont
Model:
Address:
City: LILLINGTON State: NC

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

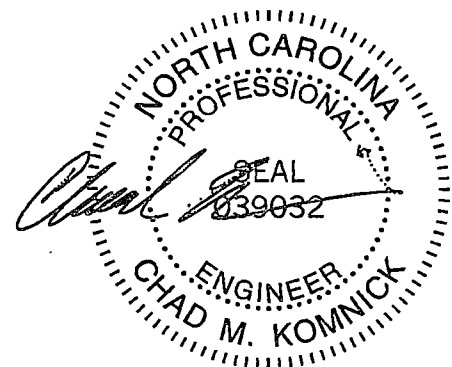
Design Code: IRC2009/TPI2007 Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-05 Wind Speed: 100 mph Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05
Roof Load: 40.0 psf Floor Load: N/A psf
Mean Roof Height (feet): 25 Exposure Category: C

No.	Seal#	Truss Name	Date
1	I32295865	A07	1/31/18

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Komnick, Chad
My license renewal date for the state of North Carolina is December 31, 2018.

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

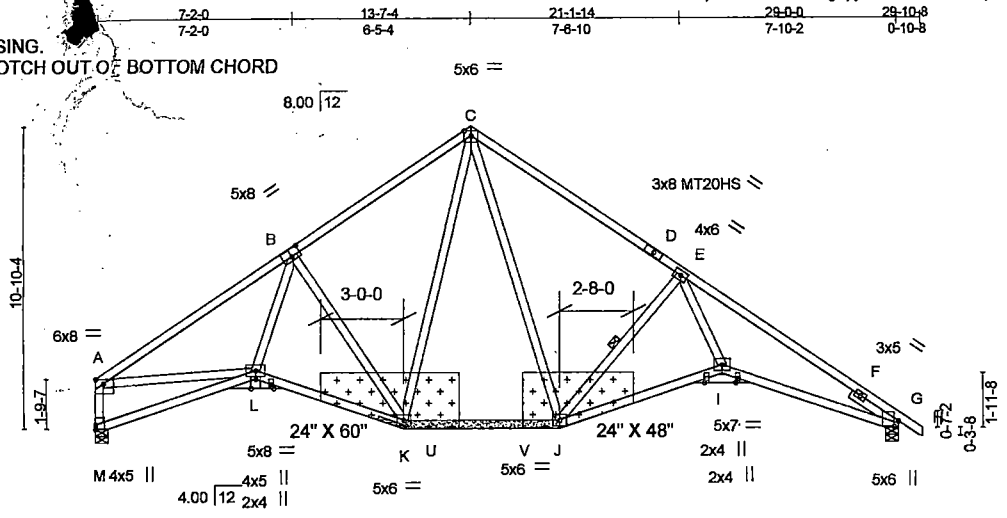


January 31, 2018

Job 1258493	Truss A07	Truss Type ROOF SPECIAL	Qty 3	Ply 1	H&H-NC/Biltmore/185/Oakmont 132295865
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Builders First Source, Sumter, SC 7.640 s Aug 16 2017 MiTek Industries, Inc. Wed Jan 31 10:41:56 2018 Page 1
 ID:h9G7FShkwdXsXwp5Zi0SN0zktN2-g3pjCQ?XfrGPxYHXpl4WwWpWmwM6lgrAUUFnzpsUf

REPAIR:
 BOTTOM CHORD K-J MISSING.
 1-1/2" TALL X 12" LONG NOTCH OUT OF BOTTOM CHORD
 STARTING AT JOINT K.



Scale = 1:83.2

INSTALL 2 X 4 SP NO.2 CUT TO FIT TIGHT.

ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE:
 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
 NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

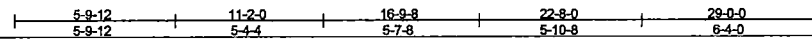


Plate Offsets (X,Y) - [A:Edge,0-1-14], [B:0-4-0,0-3-4], [G:0-2-5,0-1-12], [L:0-4-0,Edge], [M:0-1-14,Edge]

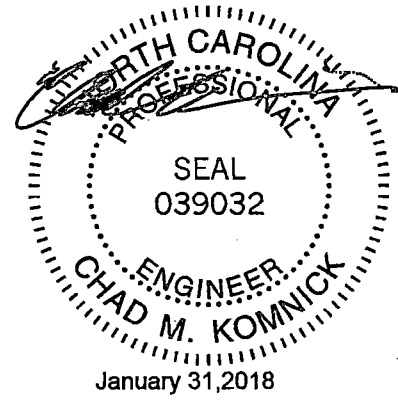
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.95	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.15 I-J >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.84	Vert(TL) -0.42 I-J >825 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Horz(TL) 0.26 G n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.14 I-J >999 240		
				Weight: 183 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt E-J
SLIDER Right 2x4 SP No.3 2-0-0	

REACTIONS. (lb/size) M=1153/0-5-8, G=1205/0-5-8
 Max Horz M=447(LC 6)
 Max Uplift M=302(LC 8), G=366(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=1898/527, B-C=1165/563, C-D=1138/581, D-E=1263/535, E-F=2799/776, F-G=905/124, A-M=1132/390
 BOT CHORD L-M=433/497, K-L=383/1399, K-U=52/802, U-V=52/802, J-V=52/802, I-J=407/1757, G-I=512/2354
 WEBS B-L=149/660, B-K=781/459, C-K=-205/375, C-J=249/512, E-J=-1144/520, E-I=248/1466, A-L=249/1364

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) M, G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=Ib) M=302, G=366.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

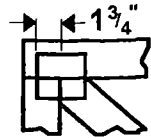


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

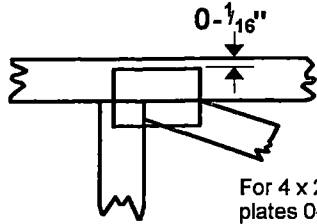
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

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

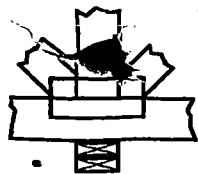
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

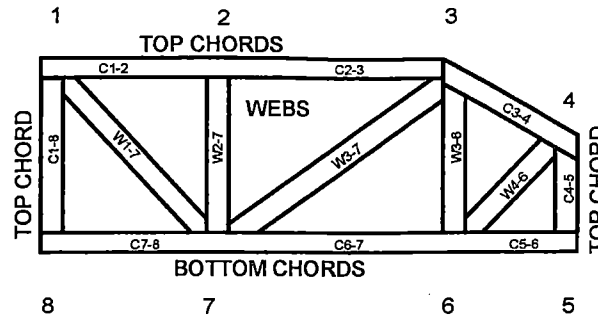
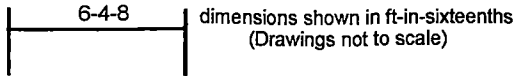


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.