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Builders FirstSource**Fax**

24404

To:	Randy Jones	From:	Woody Lewis
Fax:	386-758-2160	Date:	July 26, 2006
Phone:		Pages:	3 including cover
Re:	Amy Baker Residence	CC:	

☐ **Urgent** ☒ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

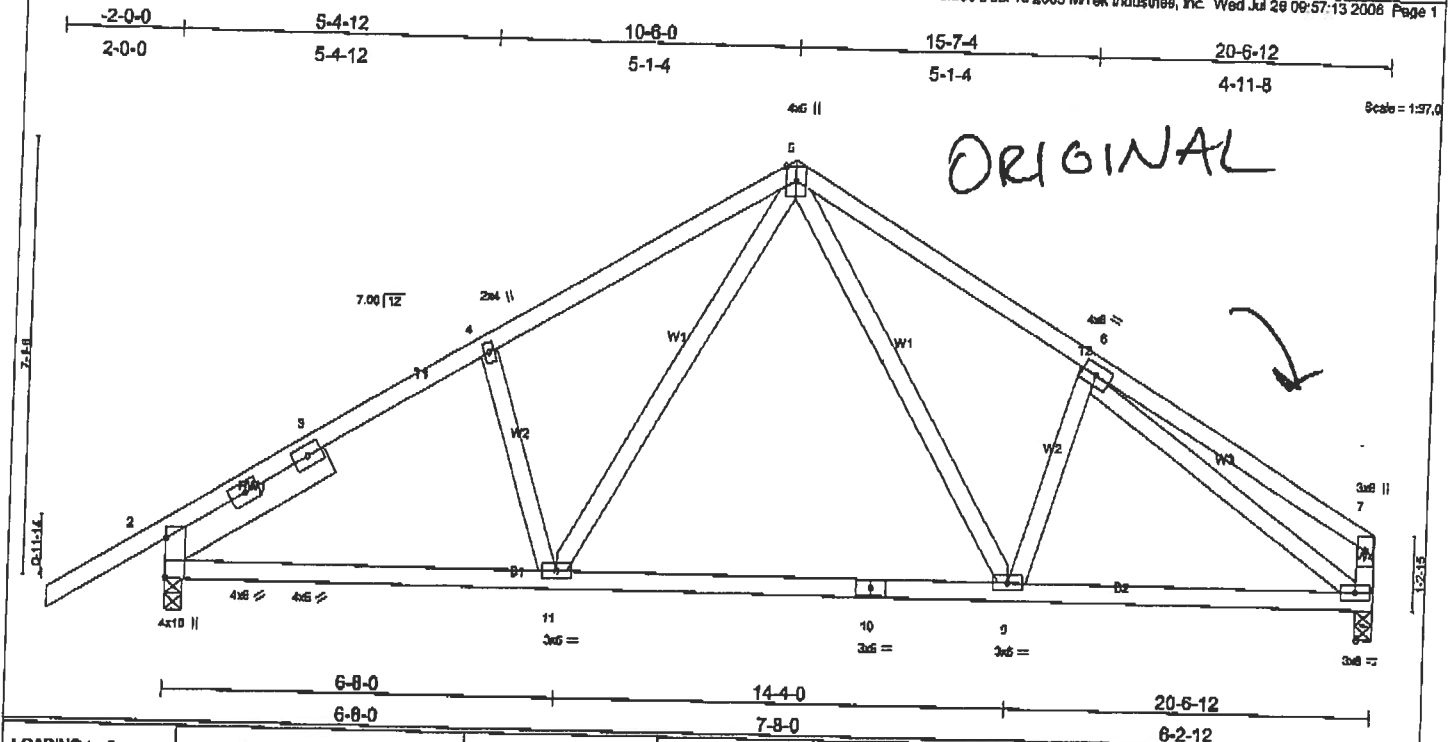
Randy,

Terry Aderholt has informed me that there are problems with trusses that are hung into a ledger in the garage. Originally the truss was designed to sit on a wall but that was an error in design. It should have been designed to hang into a ledger board that is attached to the inside of the garage wall. I have attached two drawings; one is the original and the other shows it being hung. Note that there aren't any changes to the reactions, uplifts, plate sizes, or material to the truss when designed this way. If there is a problem with the ledger and the way it is attached to the garage wall then that would be a structural issue. We didn't provide the structural's for this home. I hope this will be sufficient enough evidence to show that the way Terry has it framed is structurally sound. Please don't hesitate to contact me with any further concerns, I will gladly try to help

Sincerely,

Woody Lewis

Job L150001	Truss T20	Truss Type COMMON	Qty 5	Ply 1	AMY BAKER RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 MTEK Industries, Inc. Wed Jul 26 09:57:13 2006 Page 1



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	In (loc) I/def L/d	MT20	244/180
TCDL 7.0	Plates Increase 1.25	BC 0.85	Ver(LL) -0.28 9-11 >890 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.79	Ver(TL) -0.45 9-11 >548 180		
BCDL 5.0	Rep Stress Incr NO	(Maltrb)	Horz(TL) 0.05 8 n/a n/a		
	Code FBC2004/TP2002				
				Weight: 121 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3
 SLIDER Left 2 X 6 SYP No.1D 3-2-12

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-9-1 oc bracing.

REACTIONS (lb/size) 2=1160/0-3-8, 8=1053/0-3-8
 Max Horz 2=243/load case 4)
 Max Uplift 2=453/load case 5), 8=345/load case 8)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/28, 2-3=1518/502, 3-4=1441/523, 4-5=1388/580, 5-6=1363/580, 6-7=241/148, 7-8=225/155
 BOT CHORD 2-11=414/1173, 10-11=224/851, 9-10=224/851, 8-9=358/1132
 WEBS 4-11=110/185, 5-11=250/833, 6-9=253/581, 6-9=90/187, 6-8=1258/382

JOINT STRESS INDEX
 2 = 0.81, 2 = 0.28, 2 = 0.28, 3 = 0.00, 4 = 0.34, 5 = 0.65, 6 = 0.38, 7 = 0.38, 8 = 0.44, 9 = 0.47, 10 = 0.80 and 11 = 0.51

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=17ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 483 lb uplift at joint 2 and 345 lb uplift at joint 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (p/l)
 Vert: 1-5=54, 5-7=54, 2-11=30, 8-11=80(F=50), 8-9=30

