QTY = ~~2~~ 3

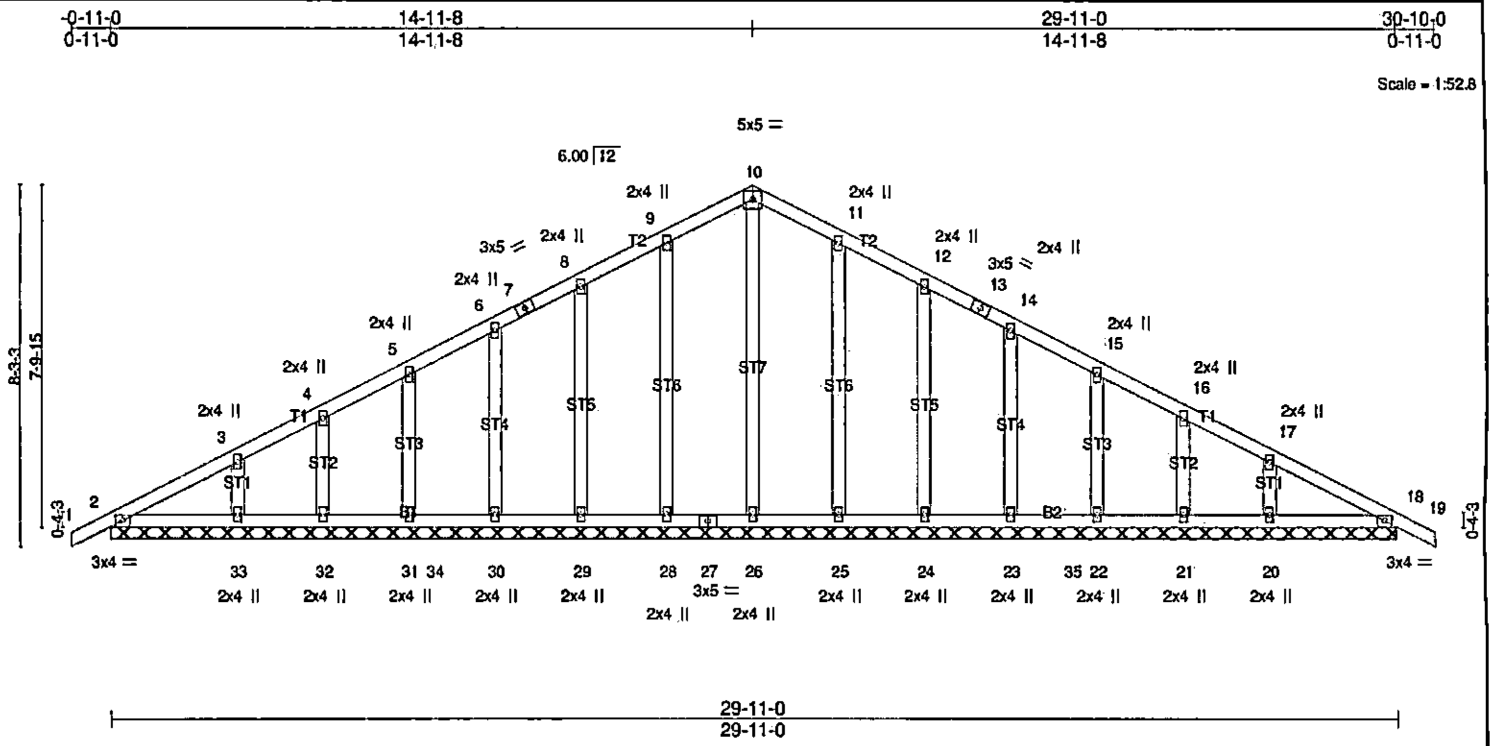
MCDONALD LUMBER FAY
CRAIG MATTHEWS REALTY MATTHEWS GARAGE

235068-2

A01GE Stud 24" oc

Truswood, Inc. NC 1-919-787-8787 / 1-800-473-8787 VA 1-757-833-5300 / 1-800-868-8787

11/14/18



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	18	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	0.00	19	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.01	18	n/a	n/a		
BCDL	10.0	CodeIBC2009/TPI2007		Matrix-SH							Weight: 176 lb	FT = 20%

Job ID
Job: 235068-2
ID: A01GE Stud 24" oc
Date: 11/14/18
Designer: John
Dwg#235068-2ZP214433
E-Counter:665198
SID: Mitek 8.22-JTvv.092618.404

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

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

REACTIONS. All bearings 29-11-0.
(lb) - Max Horz2=-105(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All

NOTES- (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 18, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20.
9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) If Southern Pine (SP or SPp) lumber is specified, the design values are those effective 06/01/2012 by ALSC or proposed by SPIB.

LOAD CASE(S) Standard

Refer to sheet CS01 for general notes.

SEAL 032665
JEFFREY M. RUPPERT

11/14/18

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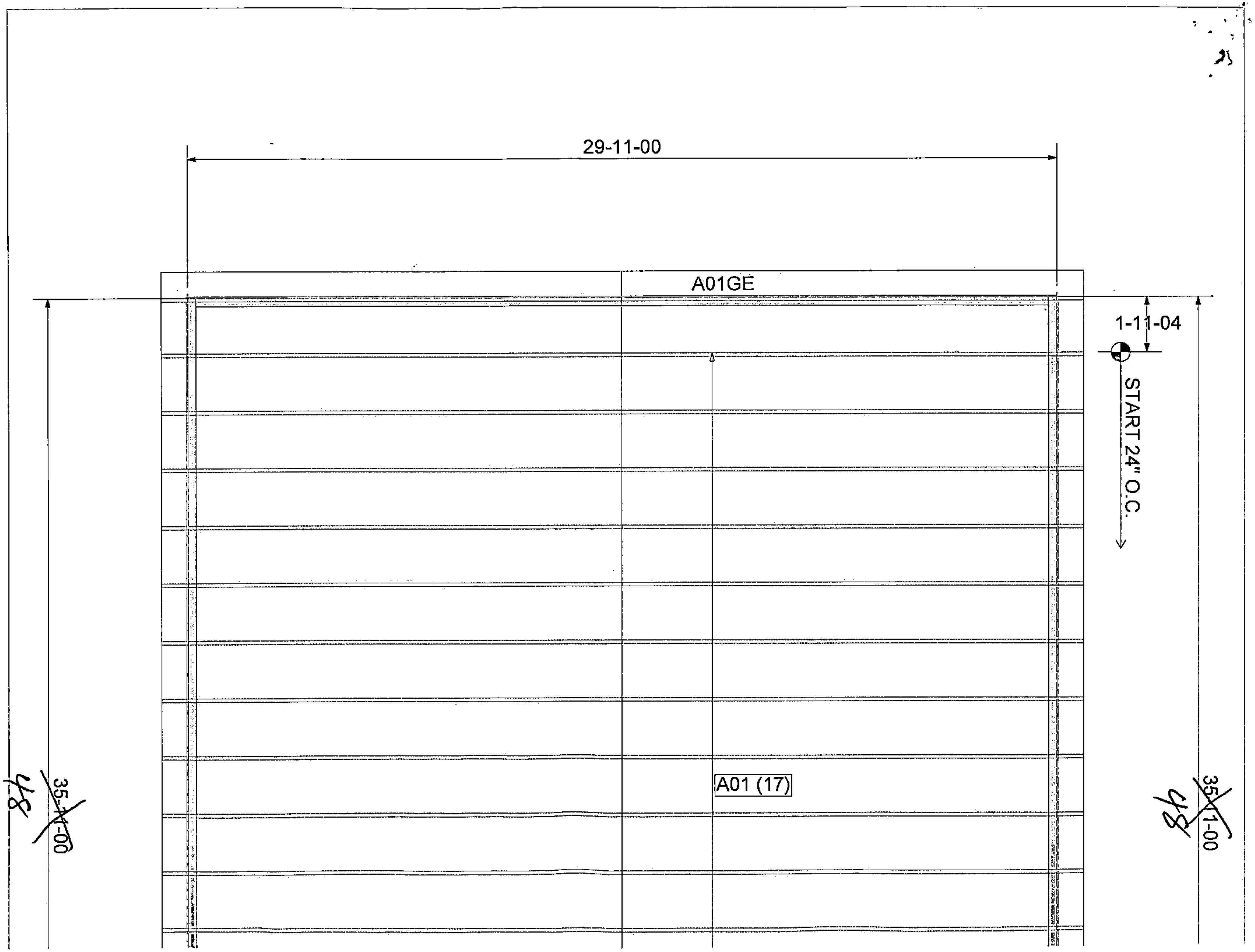
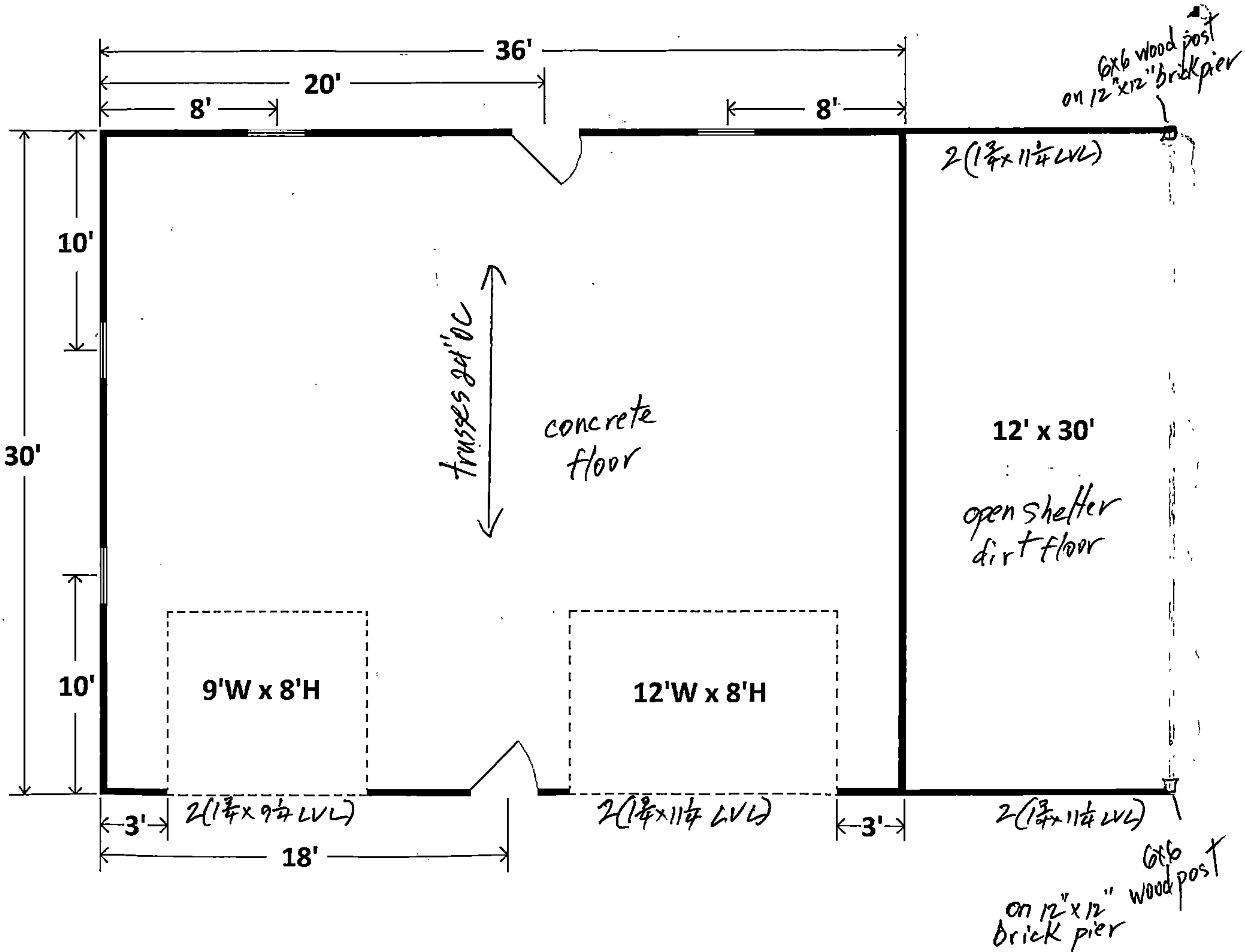

29-11-00
A01GE
1-11-04
START 24" O.C.
A01 (17)
~~35-11-00~~
48
~~35-11-00~~
48


36'
20'
8'
8'
6x6 wood post on 12"x12" brick pier
2(1¾x11¼ LVL)
10'
30'
trusses 24" OC
concrete floor
12' x 30'
open shelter dirt floor
10'
9'W x 8'H
12'W x 8'H
3'
2(1¾x 9¼ LVL)
2(1¾x11¼ LVL)
3'
2(1¾x11¼ LVL)
18'
6x6 wood post on 12"x12" brick pier

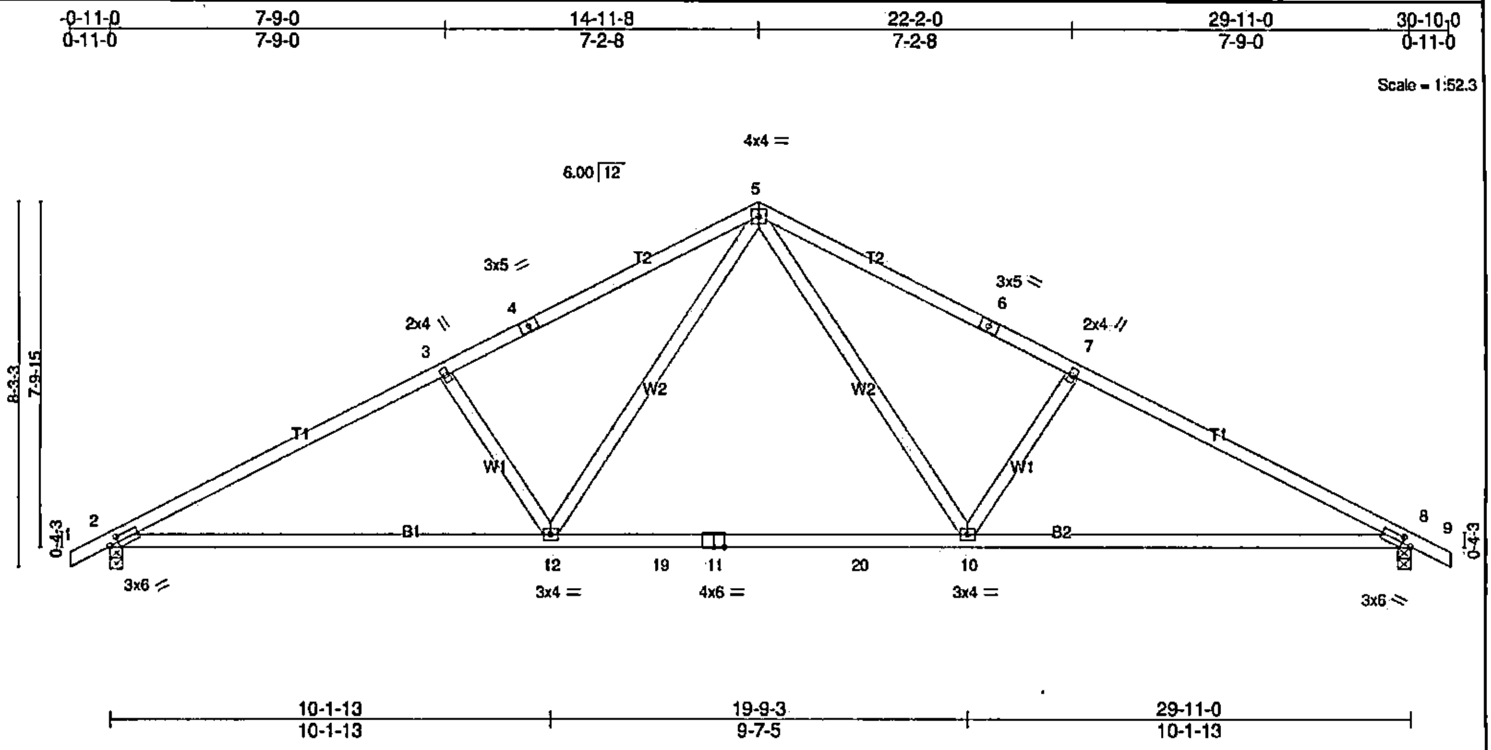
QTY = ~~10~~ 22

MCDONALD LUMBER FAY
CRAIG MATTHEWS REALTY MATTHEWS GARAGE

235068-1

A01

Truswood, Inc. NC 1-919-787-8787 / 1-800-473-8787 VA 1-757-833-5300 / 1-800-868-8787 11/14/18



LOADING (psf)		SPACING- 2-0-0		CSI.	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84
TCDL	10.0	Lumber DOL	1.15	BC	0.83
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33
BCDL	10.0	CodeIBC2009/TPI2007		Matrix-MSH	

DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
Vert(LL)	-0.43	10-12	>832	240	MT20	244/190
Vert(TL)	-0.70	10-12	>516	180		
Horz(TL)	0.08	8	n/a	n/a		

Weight: 136 lb FT = 20%

Job ID
Job: 235068-1
ID: A01
Date: 11/14/18
Designer: John
Dwg#235068-1WU736898
E-Counter:665197
SID: Mitek 8.22-JTvv.092618.404

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

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

REACTIONS. (lb/size) 2=1344/0-3-8 (min. 0-1-9), 8=1344/0-3-8 (min. 0-1-9)
Max Horz2=-106(LC 7)
Max Uplift2=-222(LC 6), 8=-222(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All
TOP CHORD 2-3=-2251/549, 3-4=-2016/521, 4-5=-1910/557, 5-6=-1910/557, 6-7=-2016/521, 7-8=-2251/549
BOT CHORD 2-12=-355/1932, 12-19=-107/1291, 11-19=-107/1291, 11-20=-107/1291, 10-20=-107/1291, 8-10=-355/1932
WEBS 5-10=-161/790, 7-10=-426/298, 5-12=-161/790, 3-12=-426/298

NOTES- (7-8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=222, 8=222.
6) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) If Southern Pine (SP or SPp) lumber is specified, the design values are those effective 06/01/2012 by ALSC or proposed by SPIB.

LOAD CASE(S) Standard

Refer to sheet CS01 for general notes.

NORTH CAROLINA PROFESSIONAL SEAL 032665 ENGINEER JEFFREY M. RUPPERT

11/14/18

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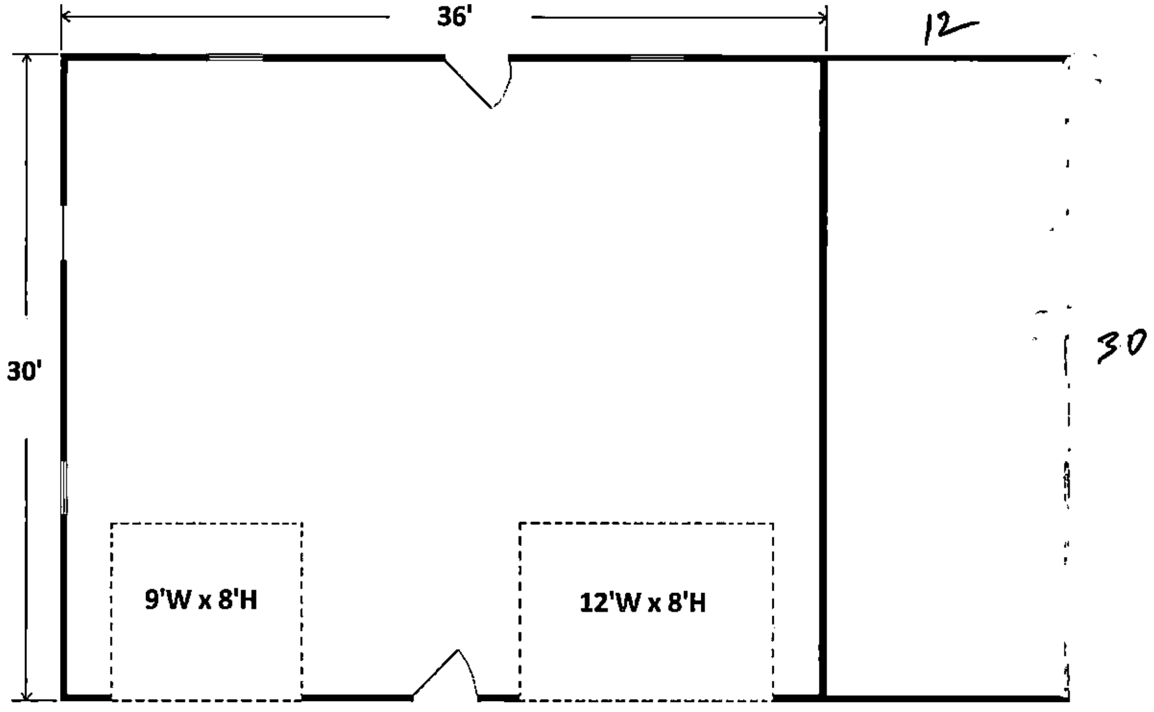
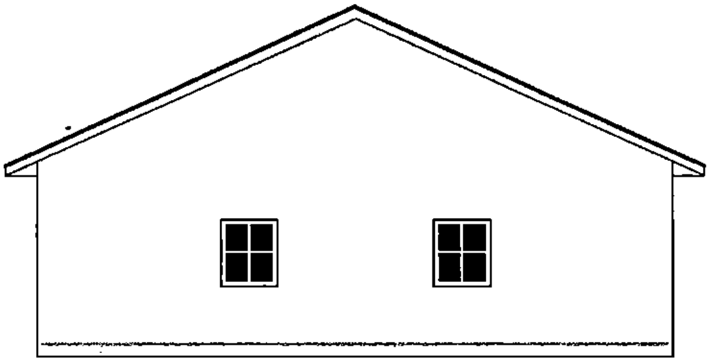
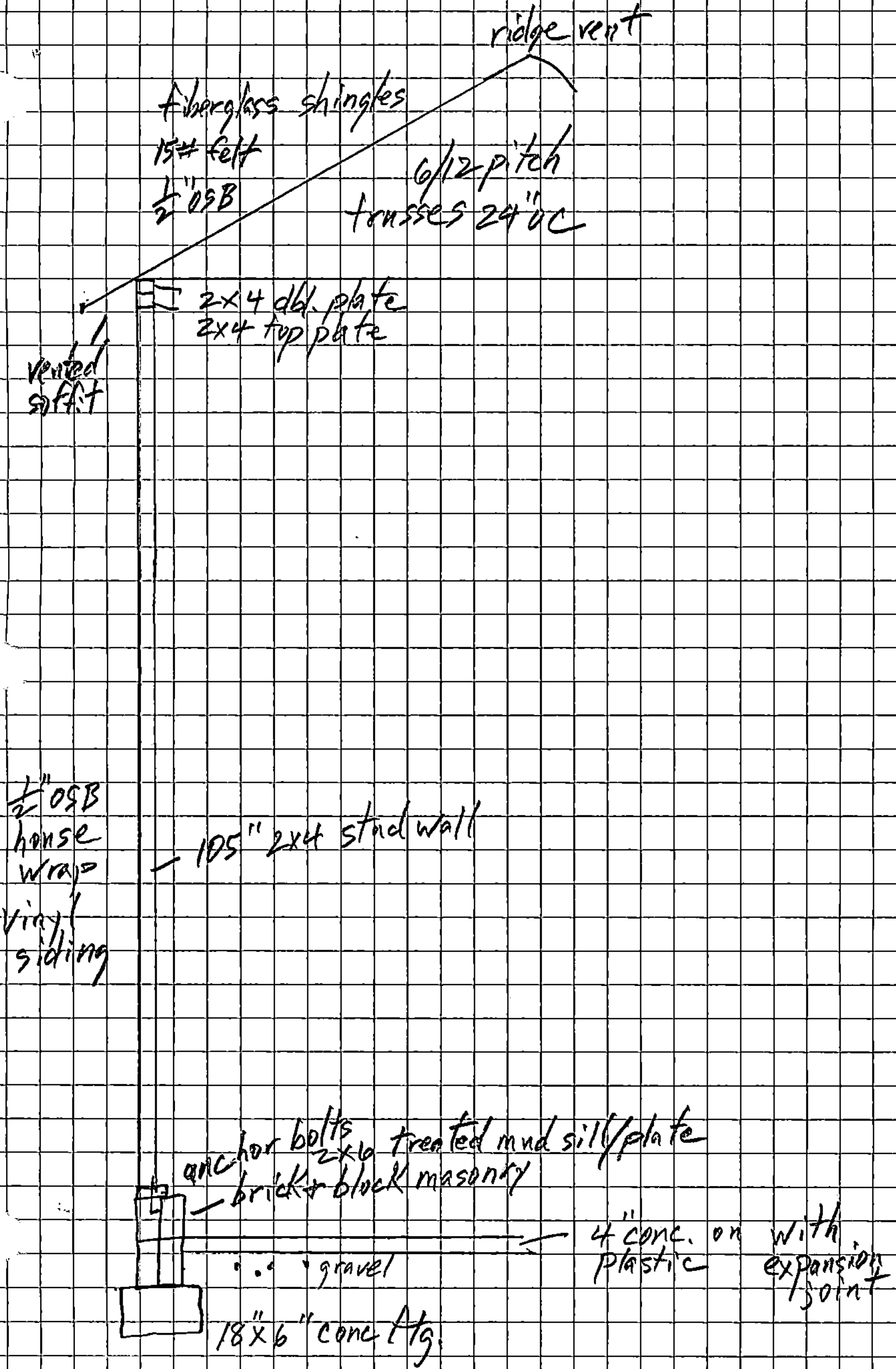

36'
12
30'
30
9'W x 8'H
12'W x 8'H




ridge vent
fiberglass shingles
15# felt
1/2" OSB
6/12 pitch
trusses 24" oC
2x4 dbl. plate
2x4 top plate
vented soffit
1/2" OSB
house wrap
vinyl siding
105" 2x4 stud wall
anchor bolts
2x6 treated mud sill/plate
brick + block masonry
4" conc. on plastic with expansion joint
gravel
18"x6" conc ftg.