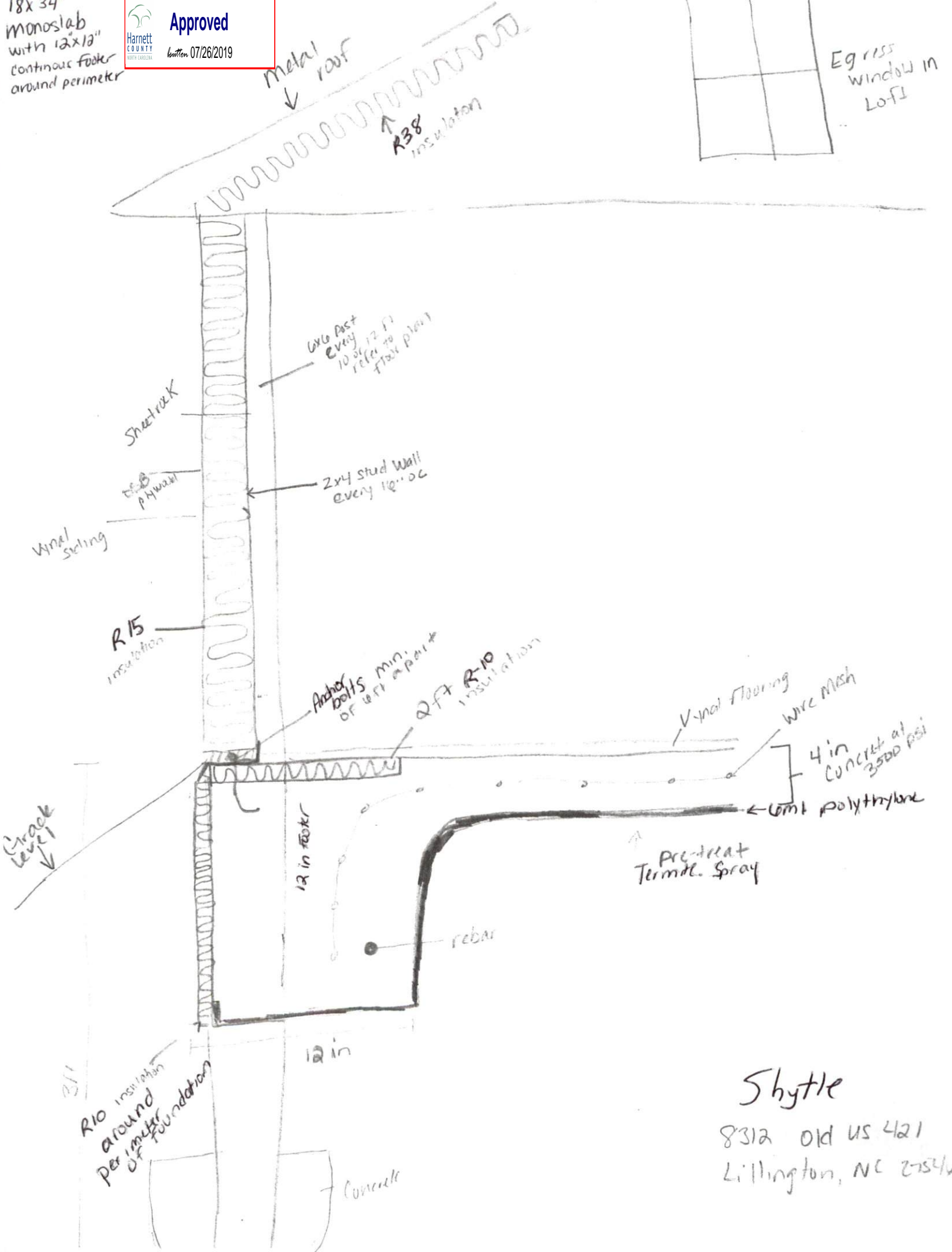


18x34'  
Monoslab  
with 12x12"  
continuous footer  
around perimeter



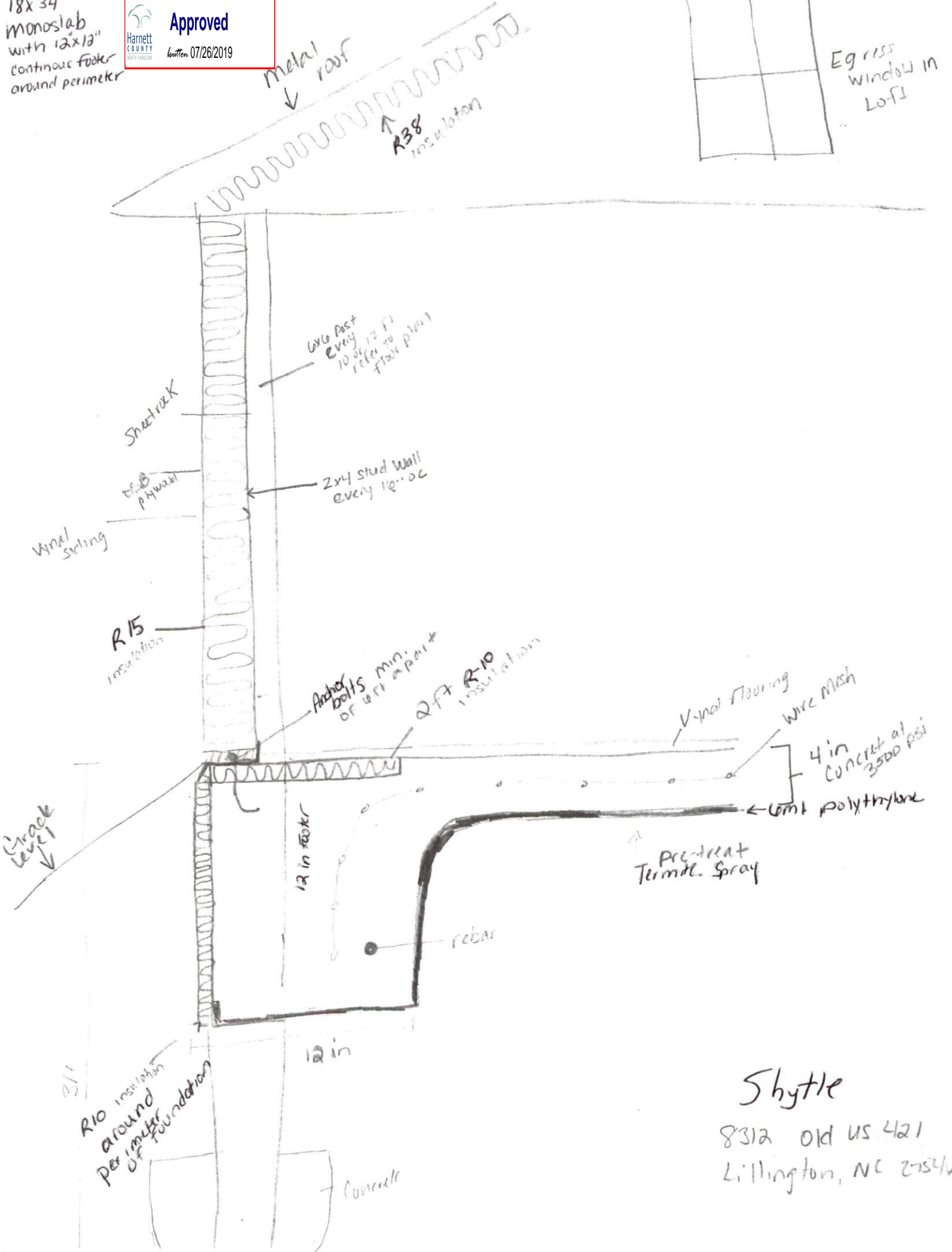
Egress window in Loft



18x34'  
Monoslab  
with 12x12"  
continuous footer  
around perimeter

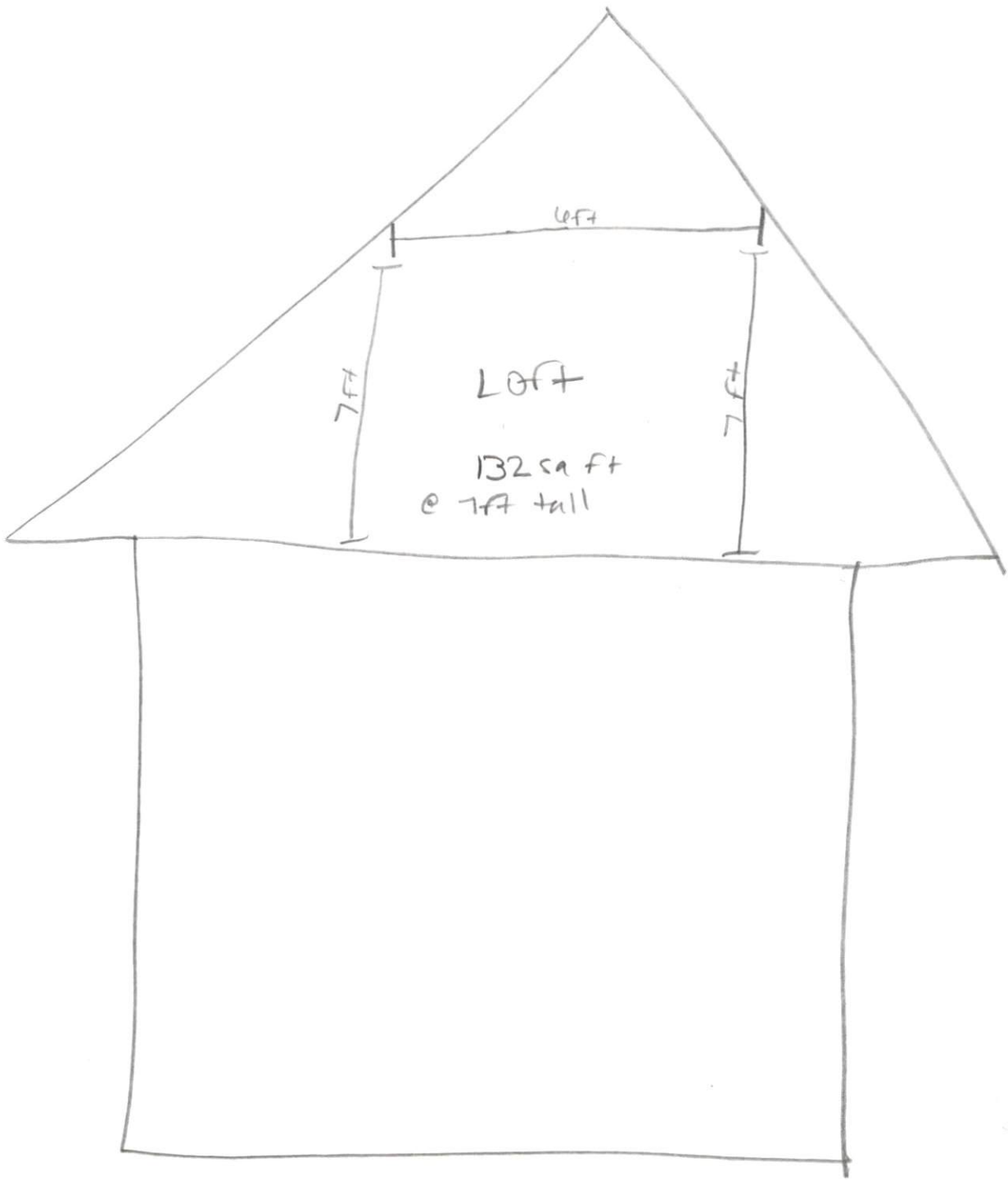


Egress window in Loft



Shuttle

8312 Old US 421  
Lillington, NC 27546

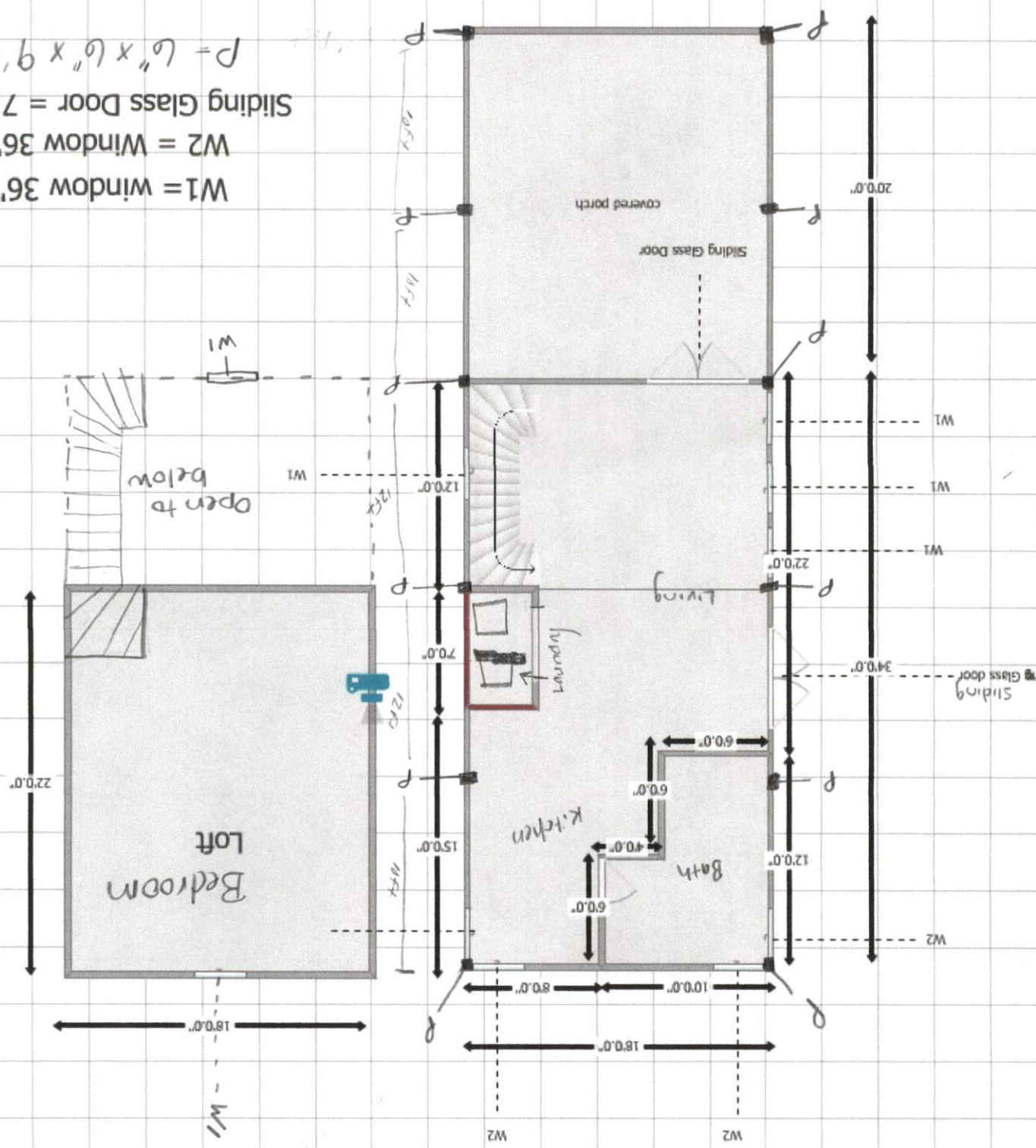


Shytle

8312 Old US 421  
Lillington, NC 27546

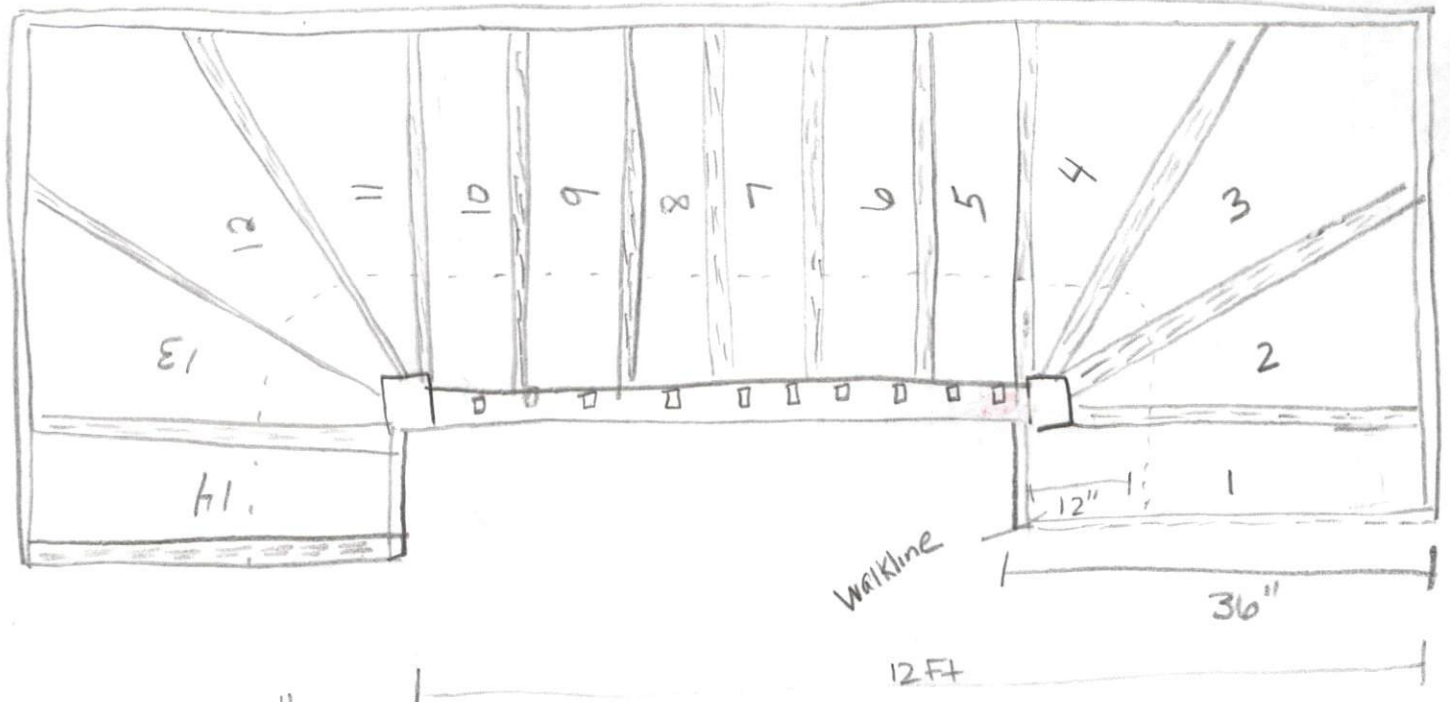
831a Old US 481  
 L: 111ington, NC 27546

W1 = window 36" x 54"  
 W2 = Window 36" x 36"  
 Sliding Glass Door = 71.5" x 80"  
 P = 6" x 6" x 9" - Post



Floor Plan

dry walls



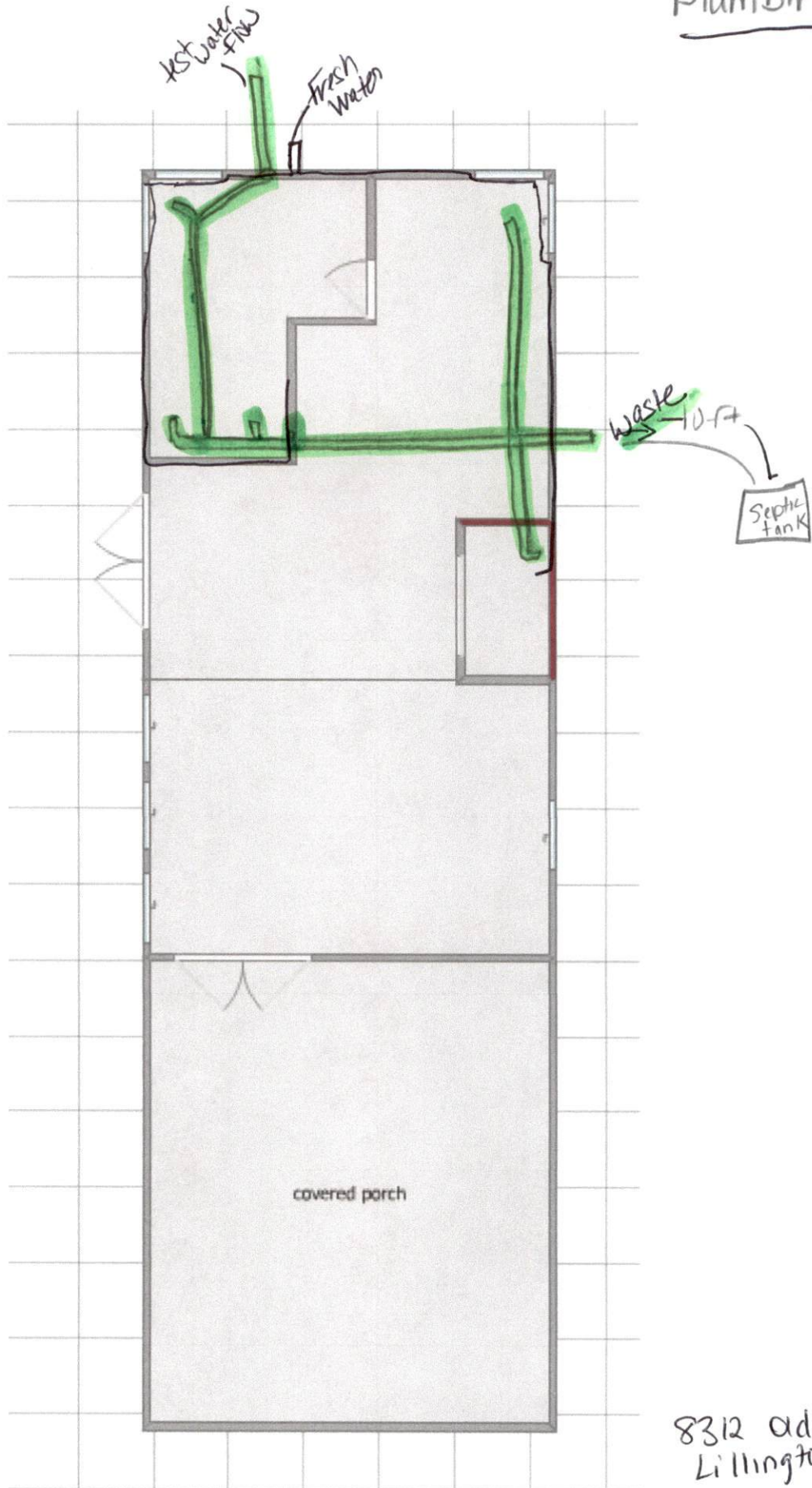
Handrail - 36"

Head clearance 6'8"

run 12"  
rise 7"

8312 Old US 421  
Lillington NC 27546

# Plumbing

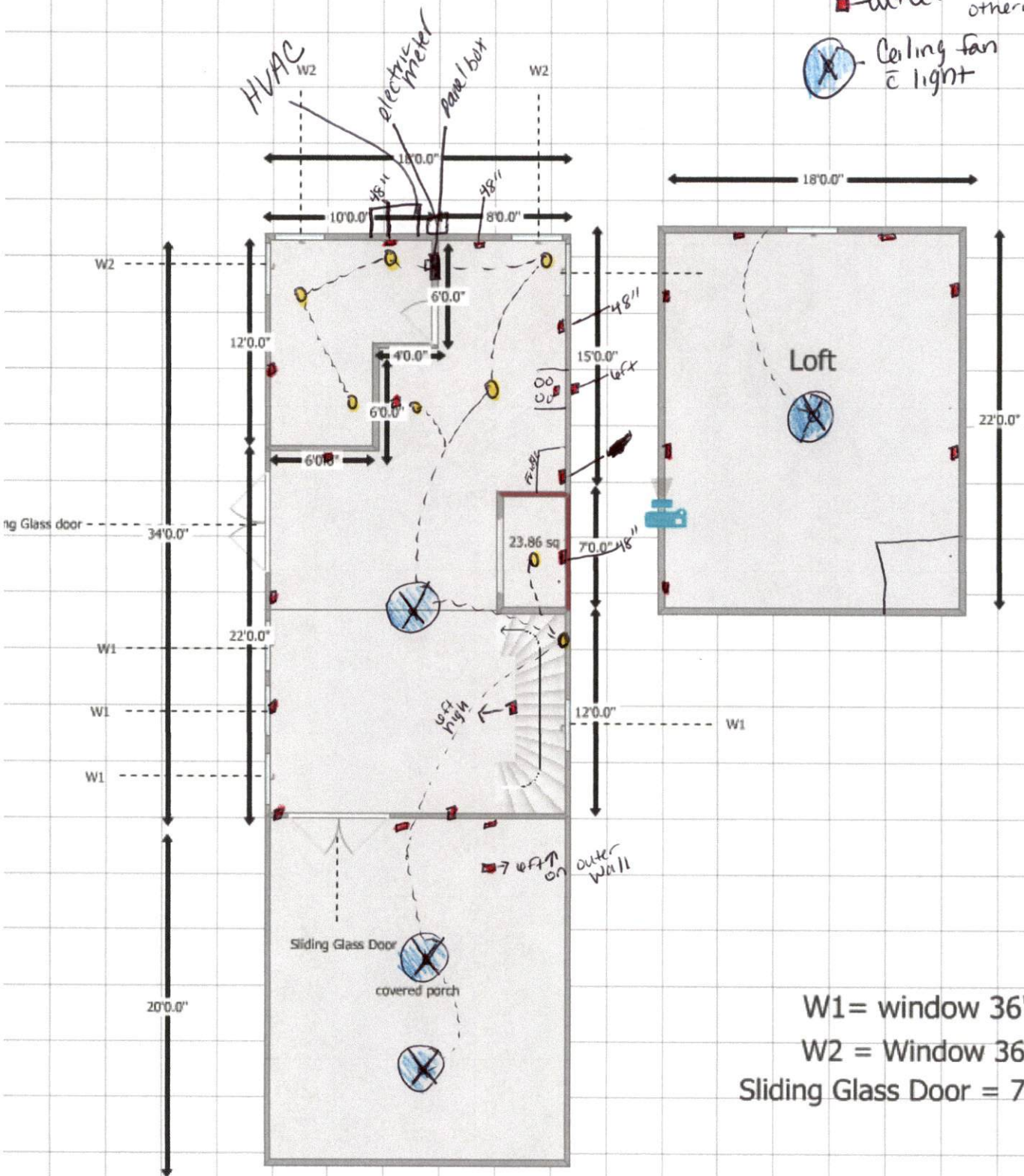


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Lillington, NC 27546

# Electric

○ = light  
 ■ = outlet - 12 in unless otherwise noted

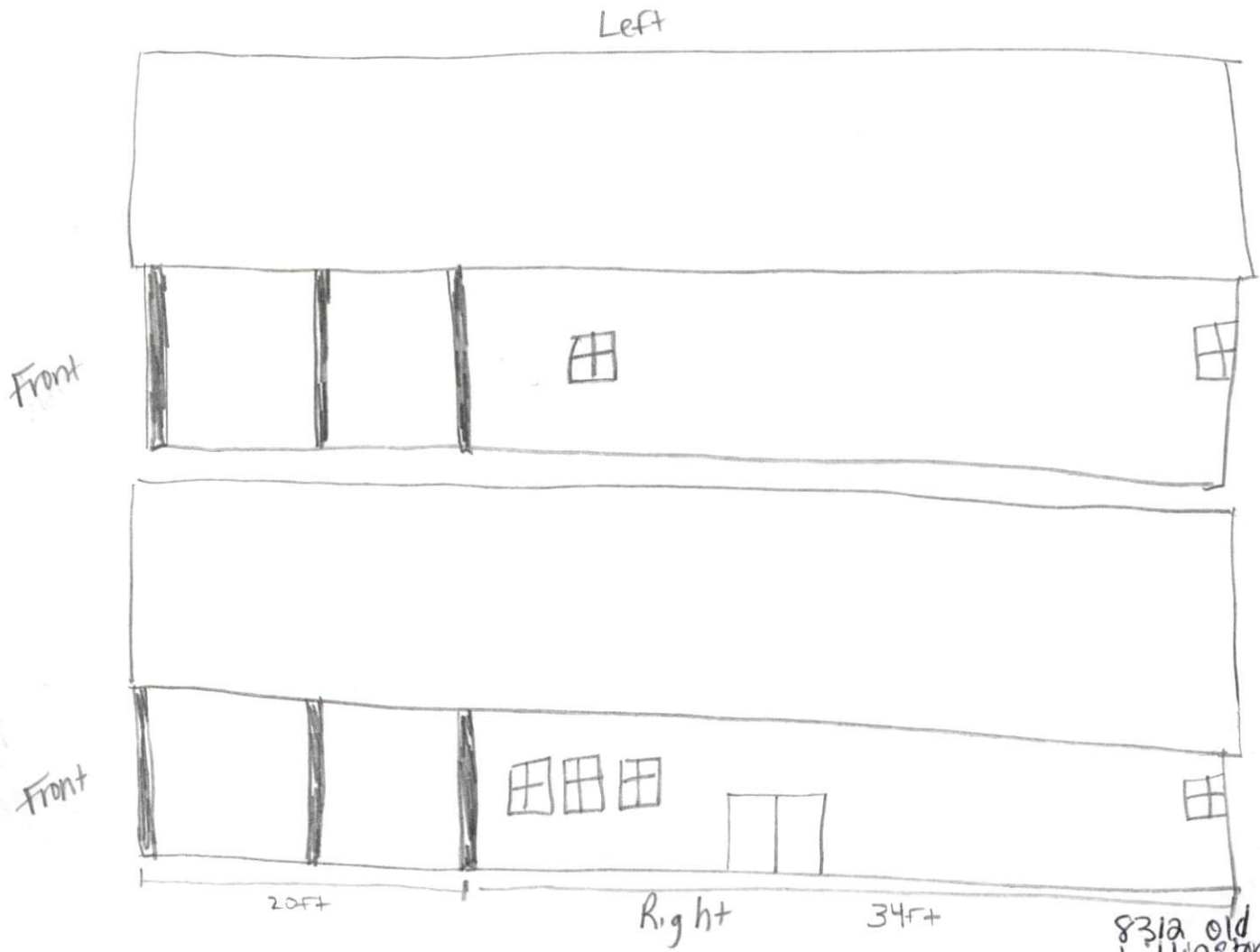
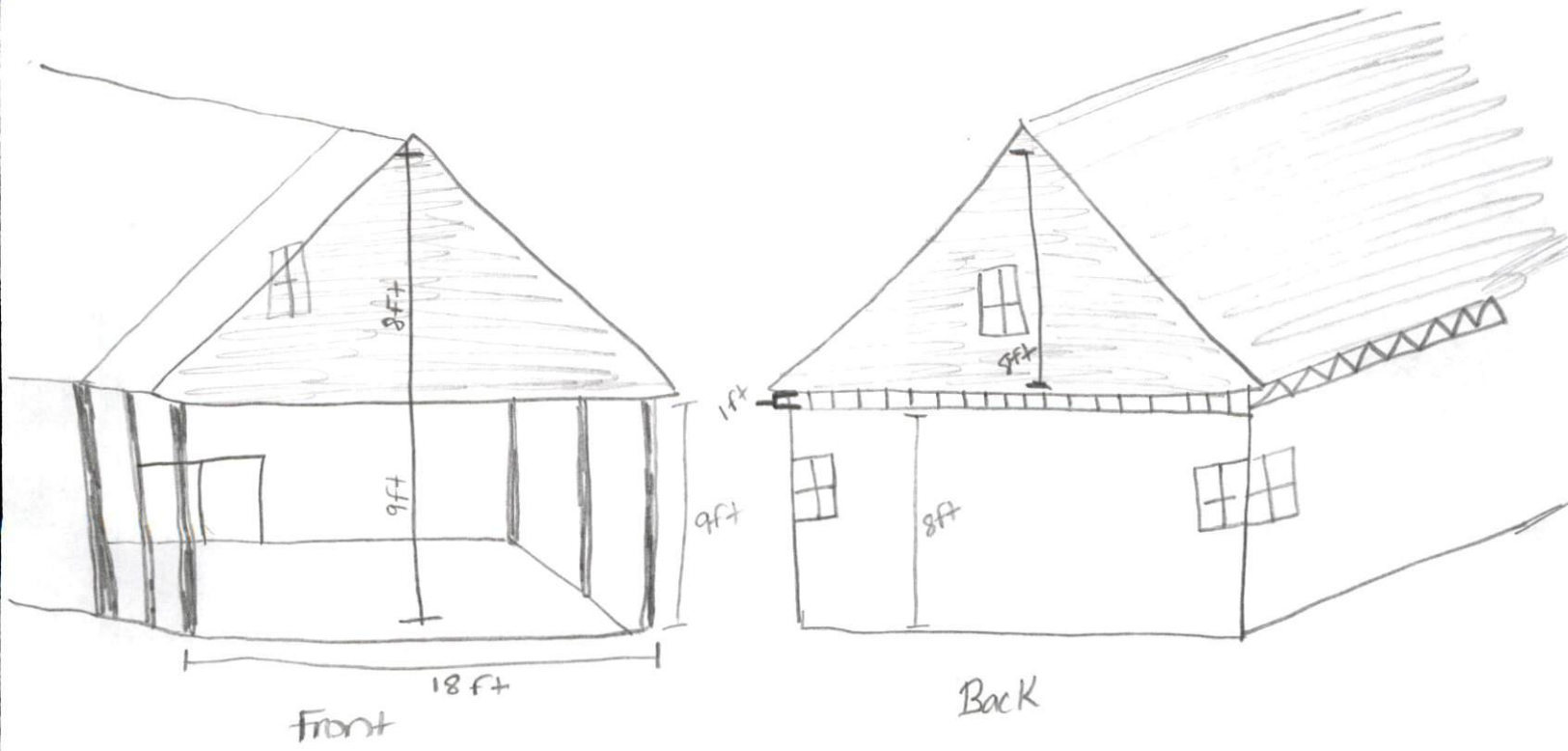
⊗ = Ceiling fan  
 ⊕ = light



W1 = window 36" x 54"  
 W2 = Window 36" x 36"  
 Sliding Glass Door = 71.5" x 80"

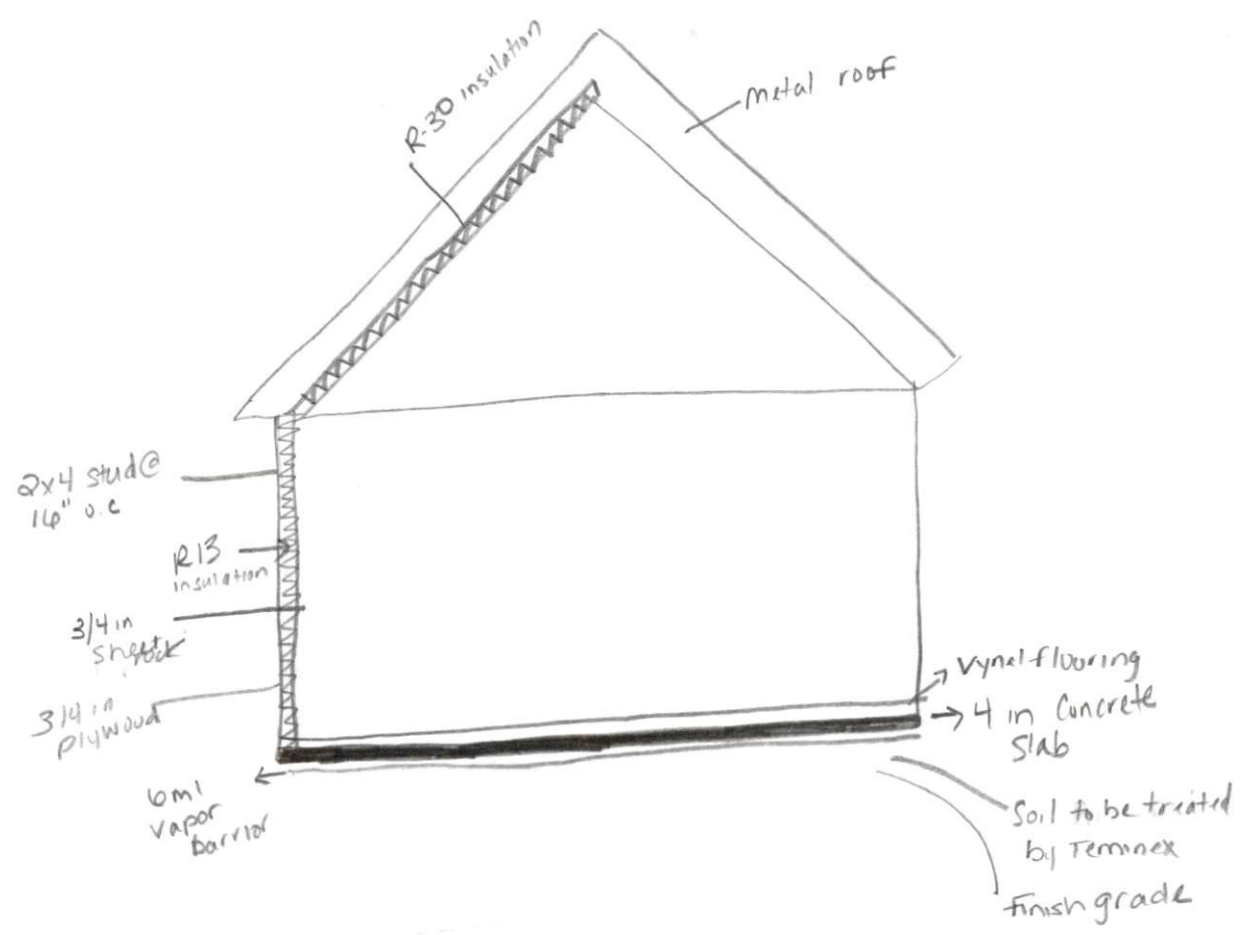
8312 Old US 421  
 Lillington, NC 27546

# Elevations



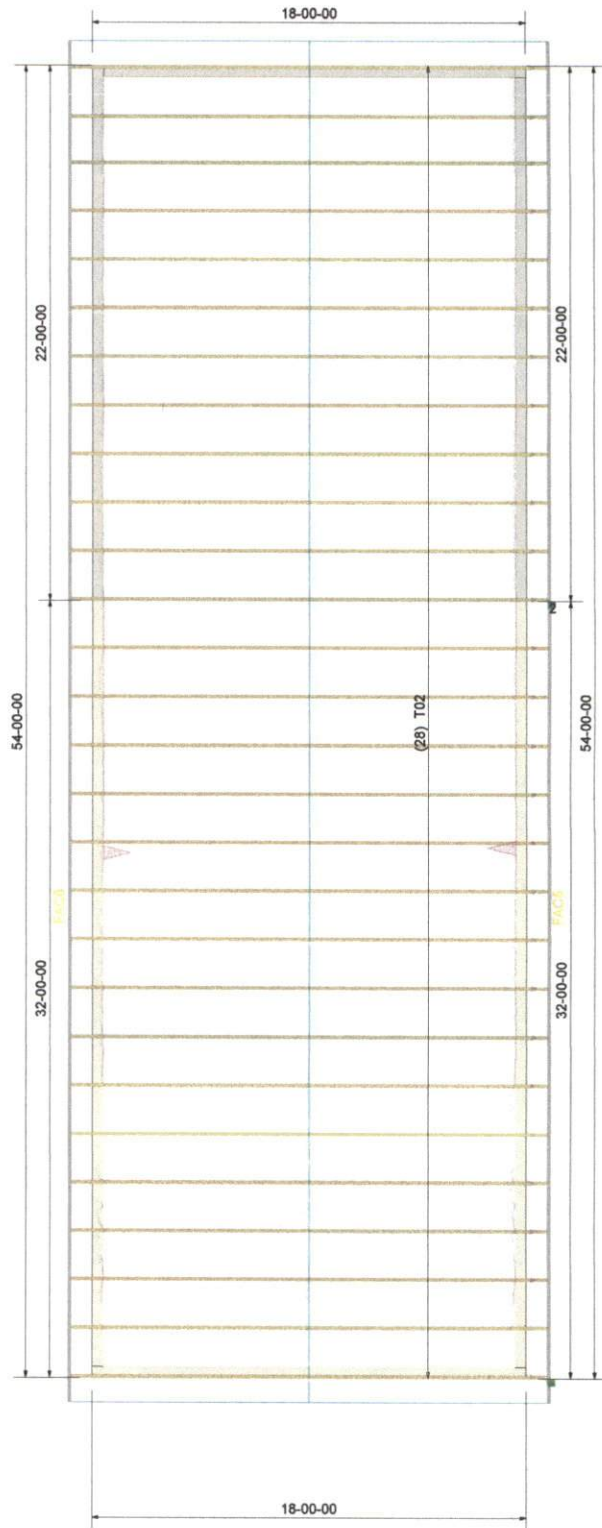
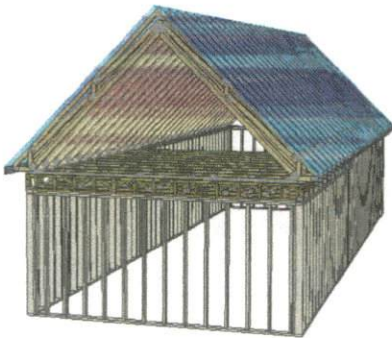
831a old us 421  
Lillington, NC 27526

8312 old us 421  
Lillington, NC 27546





8312 Old us 421  
 Lillington, NE 27548



**ROOF LAYOUT**  
 DRAWING SCALE : NTS

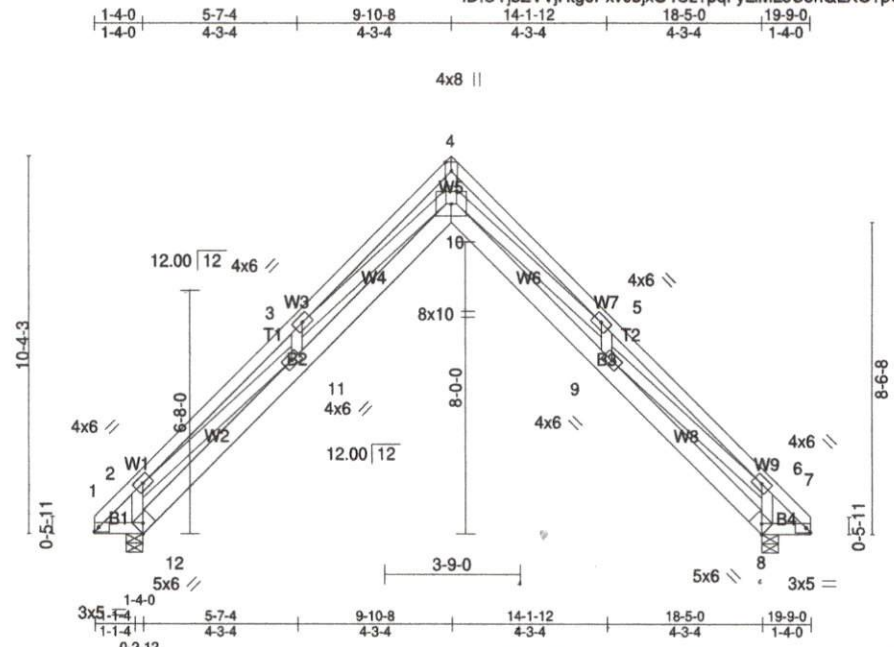
PROJECT NUMBER <b>18060015</b>	REVISIONS	
SHEET NUMBER <b>1 / 1</b>	DATE	BY
	7/3/19	KH

**Memaw's Cabin**  
**FLOOR TRUSS LAYOUT**



Job	Truss	Truss Type	Qty	Ply	Memaws Cabin
CASH-MEMAWS-ENGR	T02	Roof Special	28	1	

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Scale = 1:61.5

Plate Offsets (X,Y)-- [8:0-2-8,Edge], [12:0-2-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) -0.23 10 >881 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.46 10 >441 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.98 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 146 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Sheathed or 4-5-14 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
B2,B3: 2x6 SP 2400F 2.0E	
WEBS 2x4 SP No.2 *Except*	
W7,W9,W3,W1: 2x4 SP No.3	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 12=669/0-5-8 (min. 0-1-8), 8=669/0-5-8 (min. 0-1-8)  
 Max Horz 12=195(LC 10)  
 Max Grav 12=790(LC 2), 8=790(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2614/125, 3-4=-3157/0, 4-5=-3180/0, 5-6=-2400/0  
 BOT CHORD 11-12=-318/290, 10-11=-298/2540, 9-10=0/2159  
 WEBS 4-10=0/4156, 5-10=-303/905, 5-9=-310/61, 6-9=0/2003, 6-8=-618/175, 3-10=-250/820,  
 3-11=-335/61, 2-11=-23/2161, 2-12=-672/175

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- \* 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

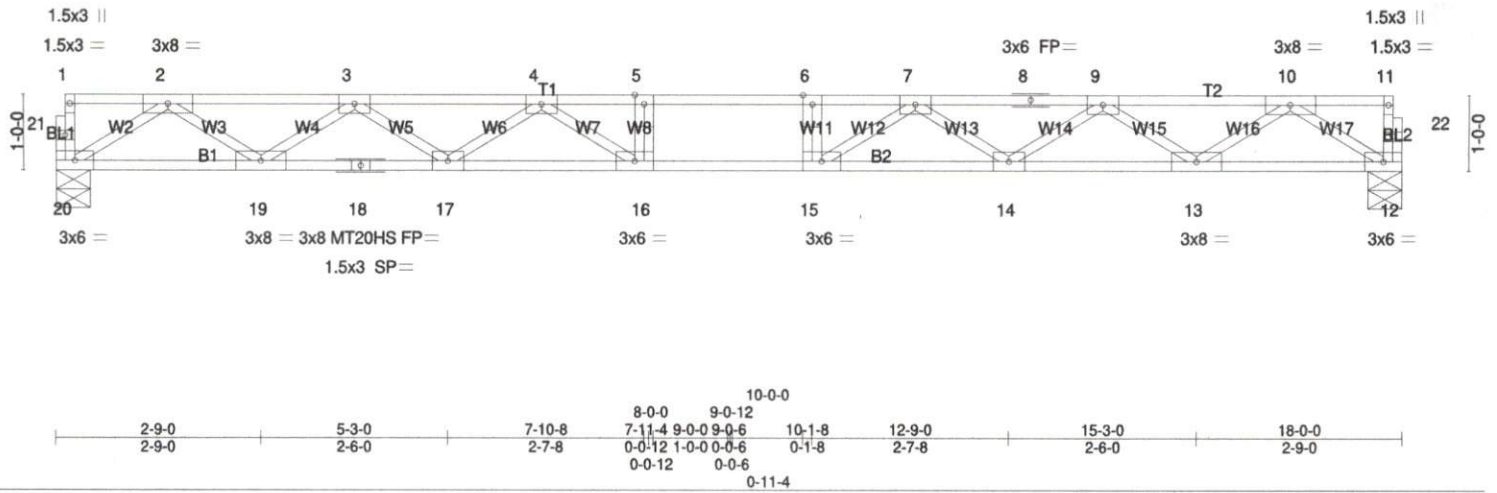
**LOAD CASE(S)** Standard

8312 Old US 421  
 Lillington, NC 27546

Job	Truss	Truss Type	Qty	Ply	Memaws Cabin
CASH-MEMAWS-ENGR	F01	Floor	11	1	Job Reference (optional)

Carter Components - Sanford, Sanford, NC

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.97	Vert(LL) -0.41 15-16 >520 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.59	Vert(CT) -0.56 15-16 >378 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.09 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 88 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 (flat) *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
B2: 2x4 SP No.1 (flat)	
WEBS 2x4 SP No.3 (flat)	

**REACTIONS.** (lb/size) 20=970/0-5-8 (min. 0-1-8), 12=970/0-5-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2451/0, 3-4=-4008/0, 4-5=-4878/0, 5-6=-4878/0, 6-7=-4878/0, 7-8=-4008/0, 8-9=-4008/0, 9-10=-2451/0  
 BOT CHORD 19-20=0/1442, 18-19=0/3421, 17-18=0/3421, 16-17=0/4561, 15-16=0/4878, 14-15=0/4560, 13-14=0/3421, 12-13=0/1442  
 WEBS 10-12=-1705/0, 2-20=-1705/0, 10-13=0/1232, 2-19=0/1232, 9-13=-1185/0, 3-19=-1184/0, 9-14=0/717, 3-17=0/717,  
 7-14=-674/0, 4-17=-674/0, 7-15=-73/765, 4-16=-73/765, 5-16=-301/0, 6-15=-301/0

- 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 3x5 MT20 unless otherwise indicated.
  - 4) The Fabrication Tolerance at joint 18 = 11%
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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.

**LOAD CASE(S)** Standard

8312 Old US 421  
 Lillington, NC 27546

Job	Truss	Truss Type	Qty	Ply	Memaws Cabin
CASH-MEMAWS-ENGR	F01KW	Floor Supported Gable	1	1	Job Reference (optional)

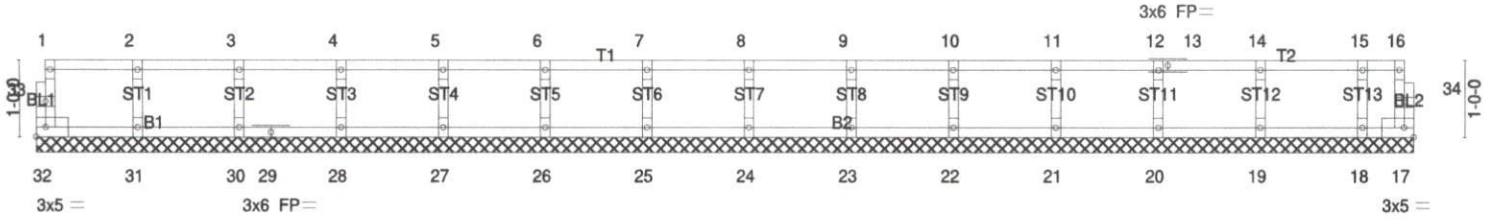
Carter Components - Sanford, Sanford, NC

8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 11:41:39 2019 Page 1  
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0-1-8

0-1-8

Scale = 1:29.1



18-0-0  
18-0-0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	17	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 72 lb	FT = 20%F, 11%E

**LUMBER-**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(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.

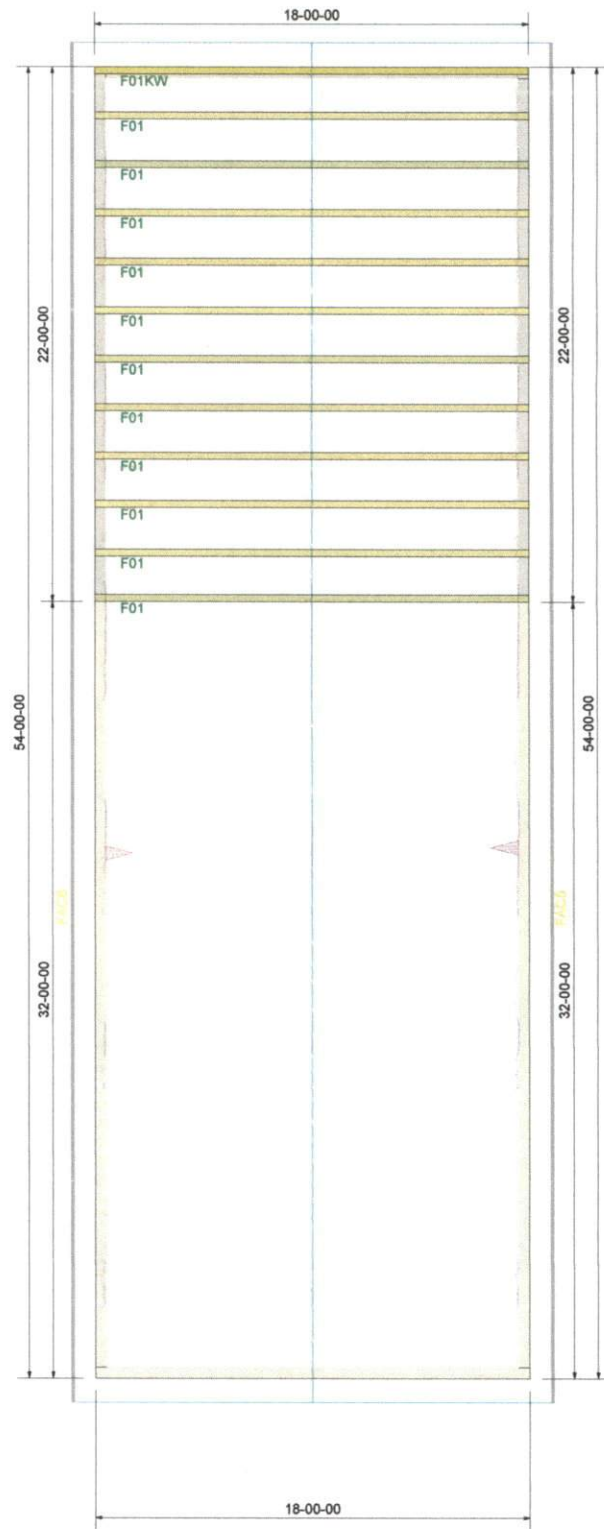
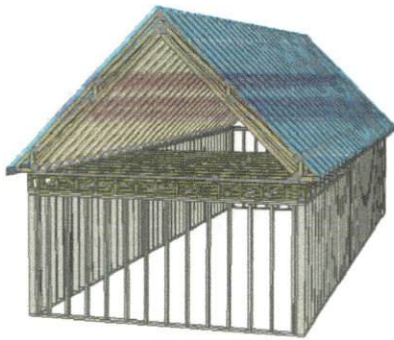
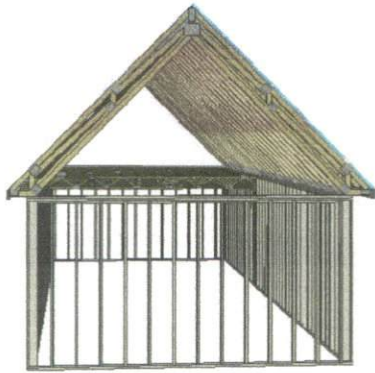
**REACTIONS.** All bearings 18-0-0.  
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

**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) 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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.

**LOAD CASE(S)** Standard

8312 Old US 421  
 Lillington, NE 27546



8312 old US 421  
Lillington, Nc 27546

**FLOOR LAYOUT**  
DRAWING SCALE : NTS

PROJECT NUMBER <b>18060015</b>	REVISIONS
SHEET NUMBER <b>1 / 1</b>	DATE BY 7/3/19 KH

<b>Memaw's Cabin</b>
<b>FLOOR TRUSS LAYOUT</b>

