HISTORIC
FRANKLIN
TENNESSEE

ACCESSORY STRUCTURE PLAN TEMPLATE*

Building and Neighborhood Services
109 3rd Avenue South, Franklin, TN 37064
615-794-7012 OFFICE

Date: _____

Applicant: _____

Project Address: _____

Scope of Work/ Description: _____

_____

_____

Construction details and specifications assist the Building and Neighborhood Services Department find problems before they occur in the field.

At a minimum, this package should include:

1. Cover Sheet ____
2. Plot Plan ____
3. Construction Details ____
4. Foundation Details ____
5. Floor Plan ____
6. Wall Construction inc. Headers ____
7. Conventional Roof Frame/ Truss Design Drawings ____

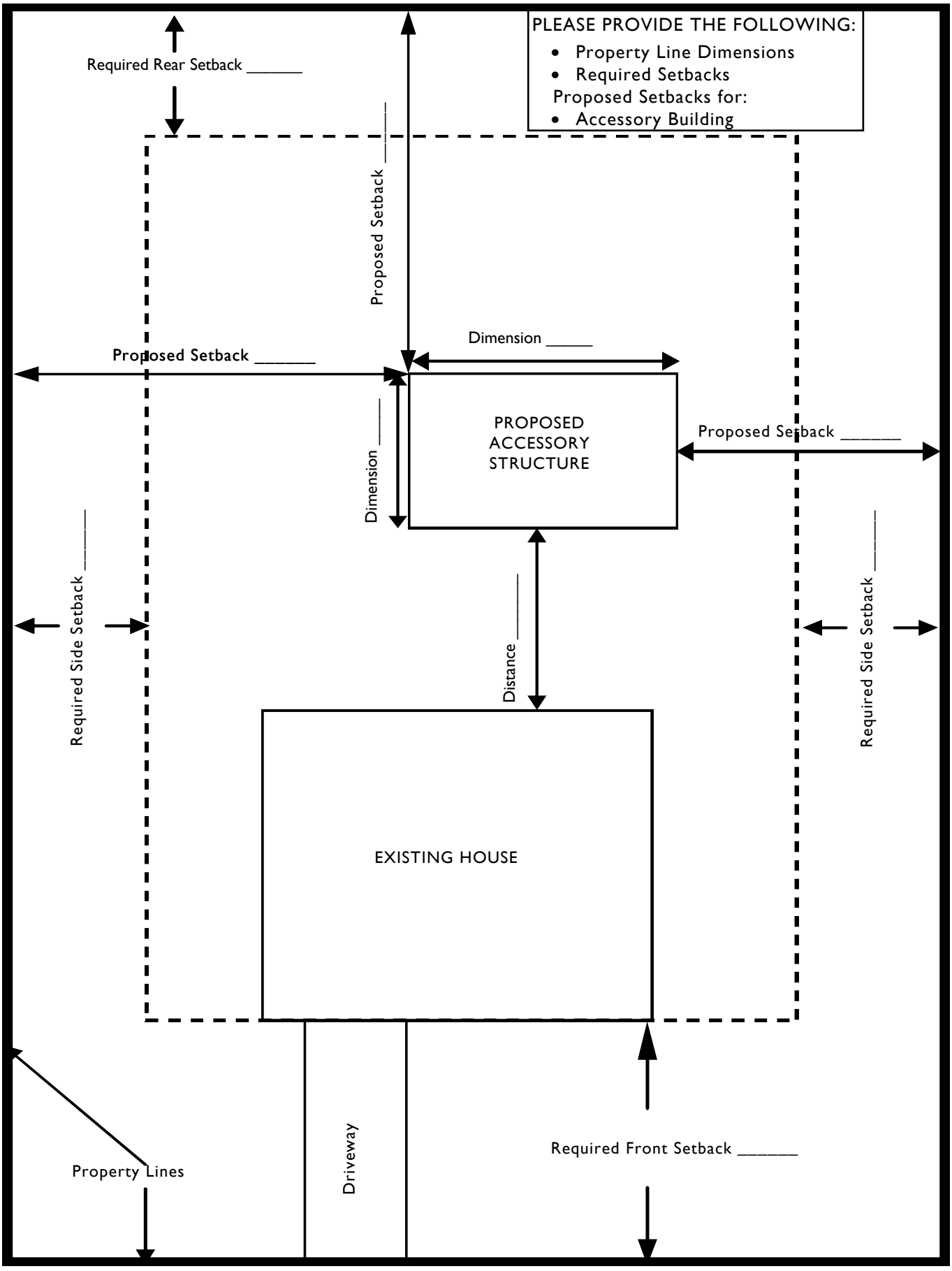
Permits are issued only after plan review. The time required to conduct this review will depend on the completeness of the information provided in the plans.

***This template package is provided to assist applicants to prepare plans for review by the City of Franklin.**

PLOT PLAN TEMPLATE

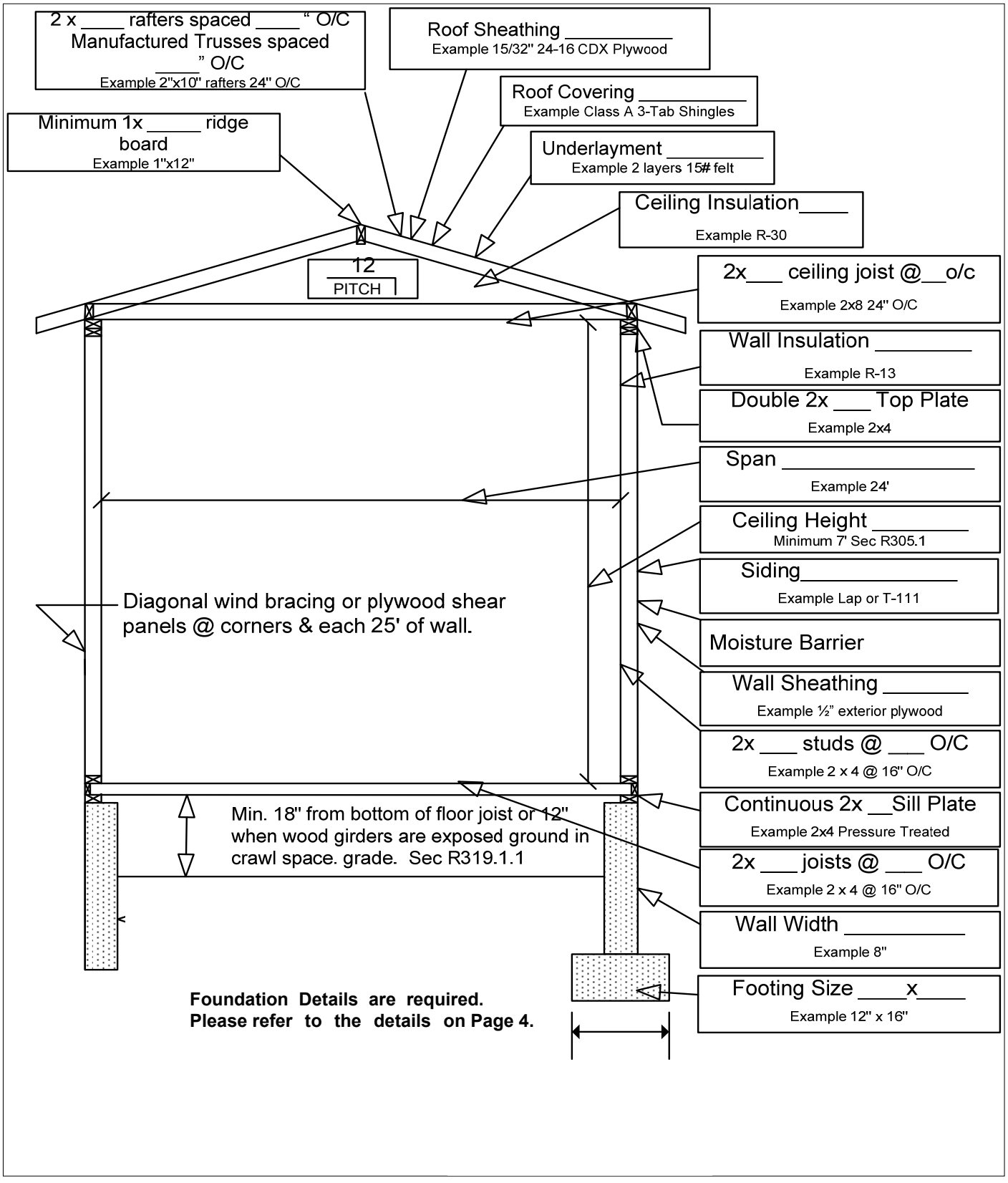
Accessory Structure

Project Address _____



STREET _____

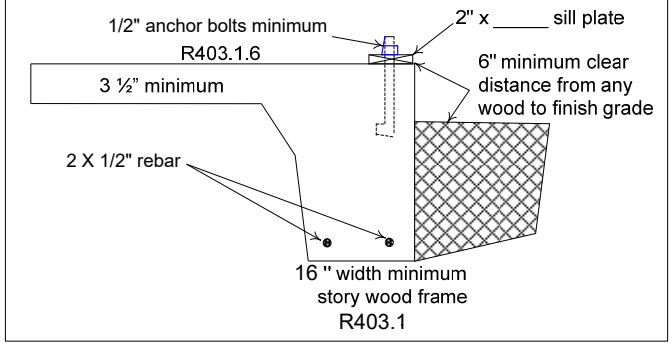
Construction Details



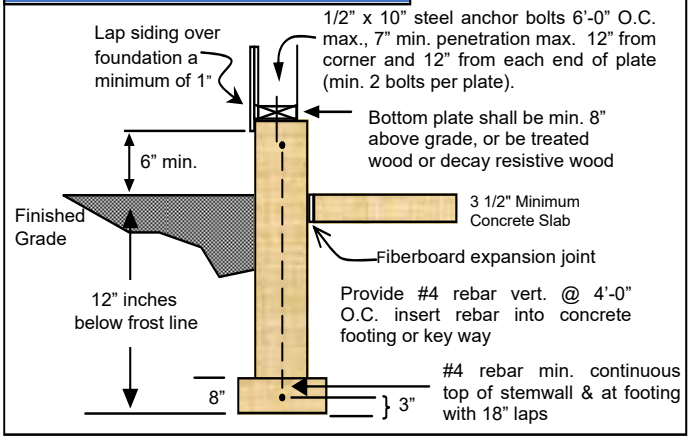
Foundation Details are required.
Please refer to the details on Page 4.

Foundation Details

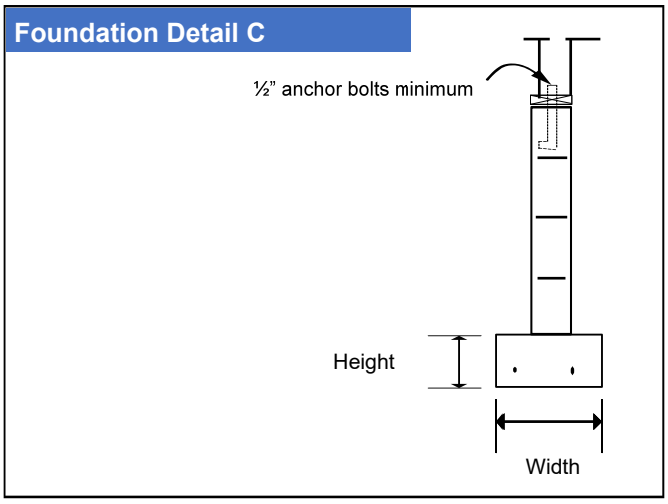
Foundation Detail A



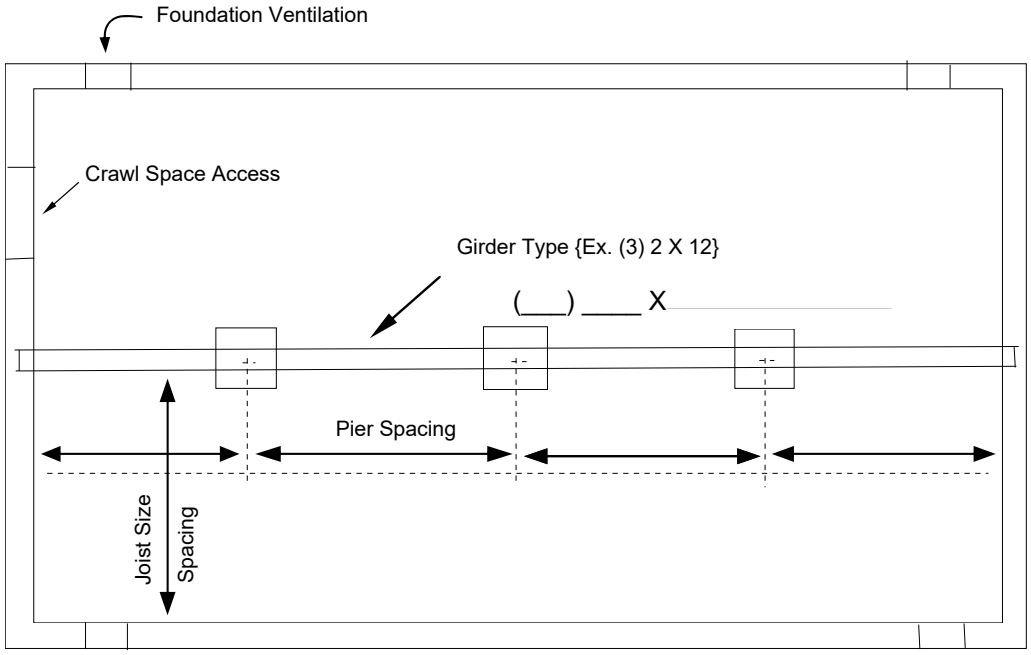
Foundation Detail B



Foundation Detail C

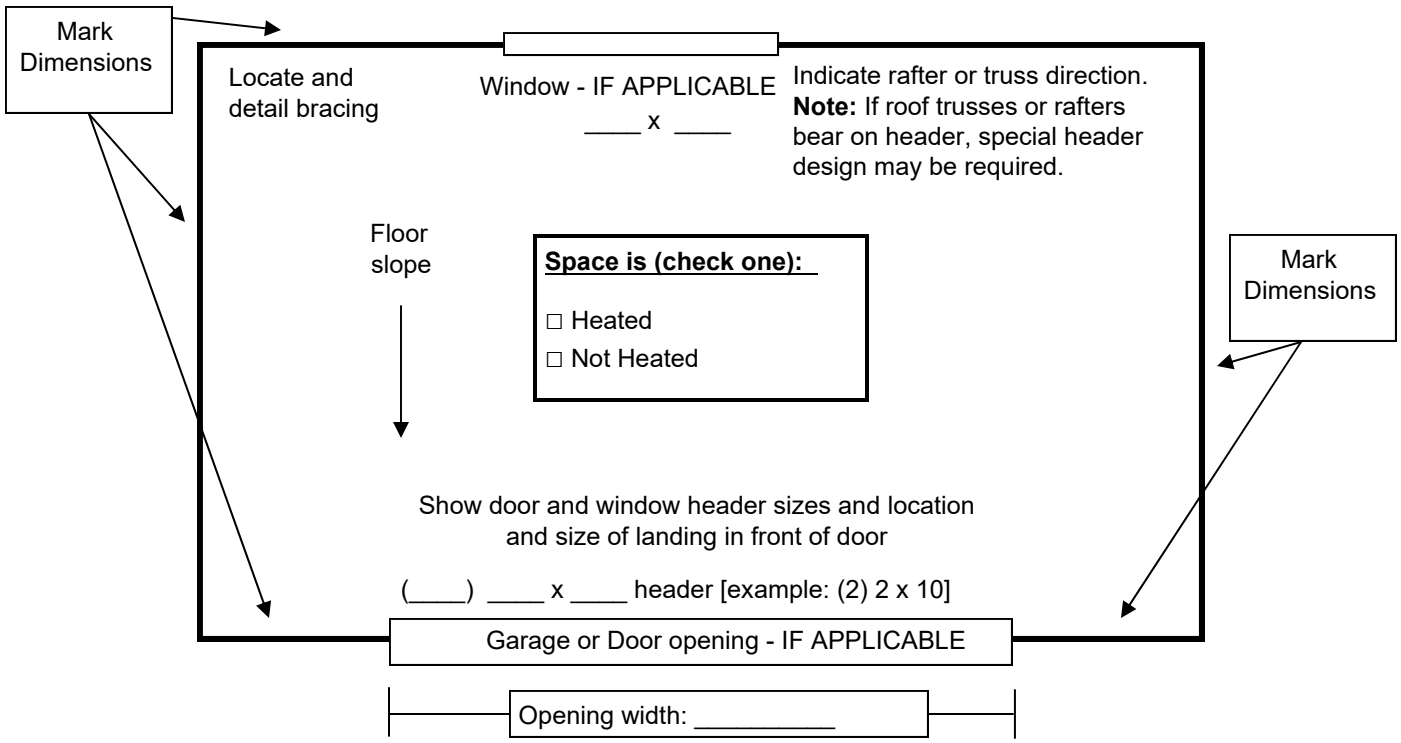


- **Footings**, which support a single-story structure, shall have minimum dimensions of eight (8) inches thickness and sixteen (16) inches width.
- **Footings**, which support 2-story structures, shall have minimum dimensions of ten (10) inches thickness and twenty (20) inches width.
- **Footings**, which support more than two (2) stories, shall have minimum dimensions of twelve (12) inches thickness and twenty-four (24) inches.
- **Footings** are to be continuous with a minimum of two (2) courses of 1/2-inch or greater.

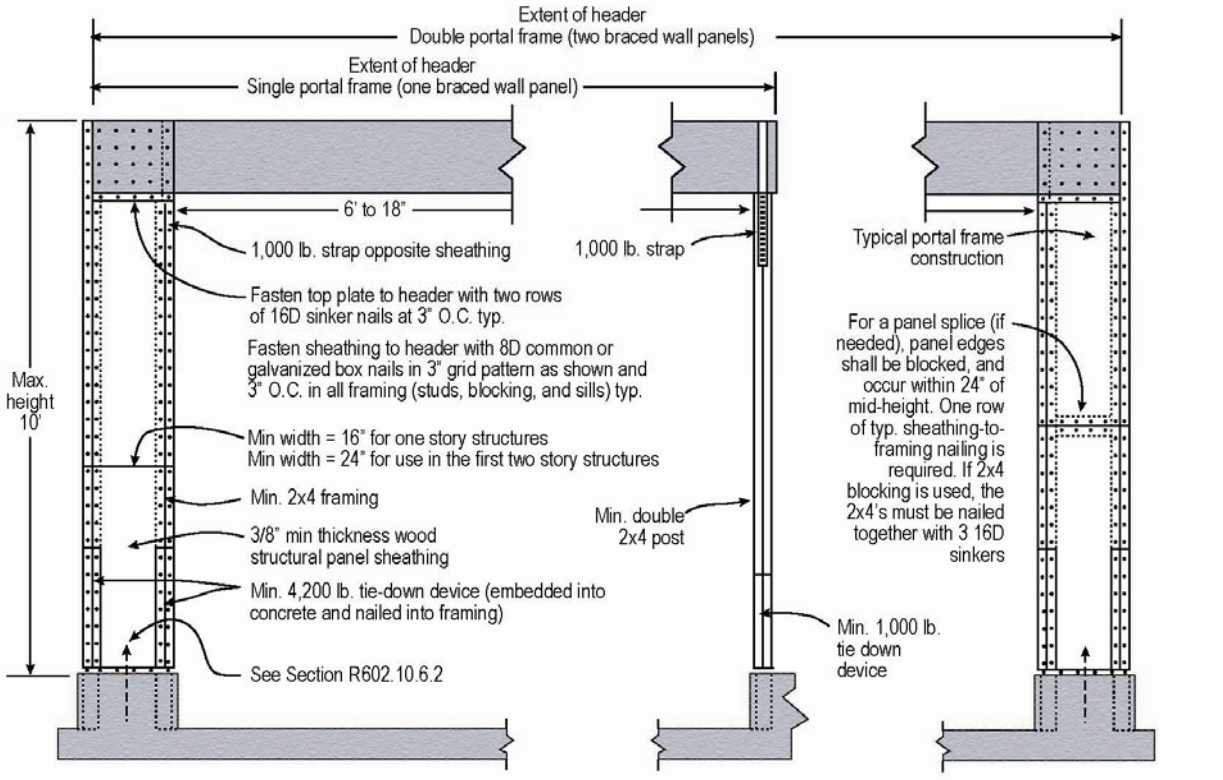


Floor Plan

The floor plan is used to determine the complexity of the work and to validate the site plan. Floor plans must show any dimensions of the structure and openings.



Braced Wall Panel Detail



Truss Design Drawings

Truss design drawings are required to be submitted for plan review.

The drawings are typically provided by the truss manufacturer and should include the following:

- Truss layouts
- Profiles
- Method of wind bracing

Sample truss drawings are included on pages 7 and 8.

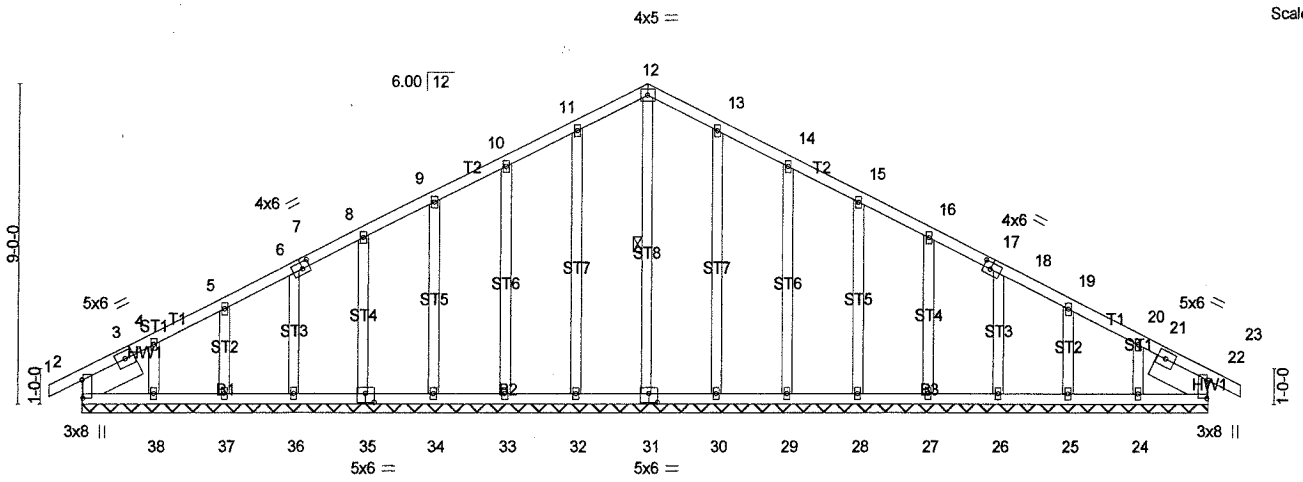
Sample Truss Drawing 1

Job	Truss	Truss Type	Qty	Ply	
	A1E	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.240 s Feb 11 2019 Print: 8.240 s Feb 11 2019 MiTek Industries, Inc. Thu May 16 12:26:26 2019 Page 1
ID:x3?jDGBP25C1gqne8jOVesyZ31p-uunWQ6dJhQr?HfTC6RGVMm?BYrm6FHSCbFgpZezFwcx

-0-11-0 / 0-11-0 | 16-0-0 / 16-0-0 | 32-0-0 / 16-0-0 | 32-11-0 / 0-11-0

Scale = 1:62.5



32-0-0 / 32-0-0

Plate Offsets (X,Y)-- [2:0-6-1,0-0-4], [6:0-1-15,0-0-0], [7:0-2-8,0-2-4], [7:0-0-0,0-1-12], [17:0-0-0,0-1-12], [17:0-2-8,0-2-4], [18:0-1-15,0-0-0], [22:0-6-1,0-0-4], [31:0-3-0,0-3-0], [35:0-3-0,0-3-0]

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	0.06	Vert(LL)	-0.00	22	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	-0.00	23	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.00	22	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 220 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x8 SP No.2 1-9-6, Right 2x8 SP No.2 1-9-6

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.
WEBS 1 Row at midpt 12-31

REACTIONS. All bearings 32-0-0.
(lb) - Max Horz 2=-119(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25, 24
Max Grav All reactions 250 lb or less at joint(s) 2, 31, 32, 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25, 24, 22

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=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-11-0 to 2-0-0, Exterior(2) 2-0-0 to 16-0-0, Corner(3) 16-0-0 to 19-2-6, Exterior(2) 19-2-6 to 32-11-0 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=1.60
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 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.
9) One RT3A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 32, 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25, and 24. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

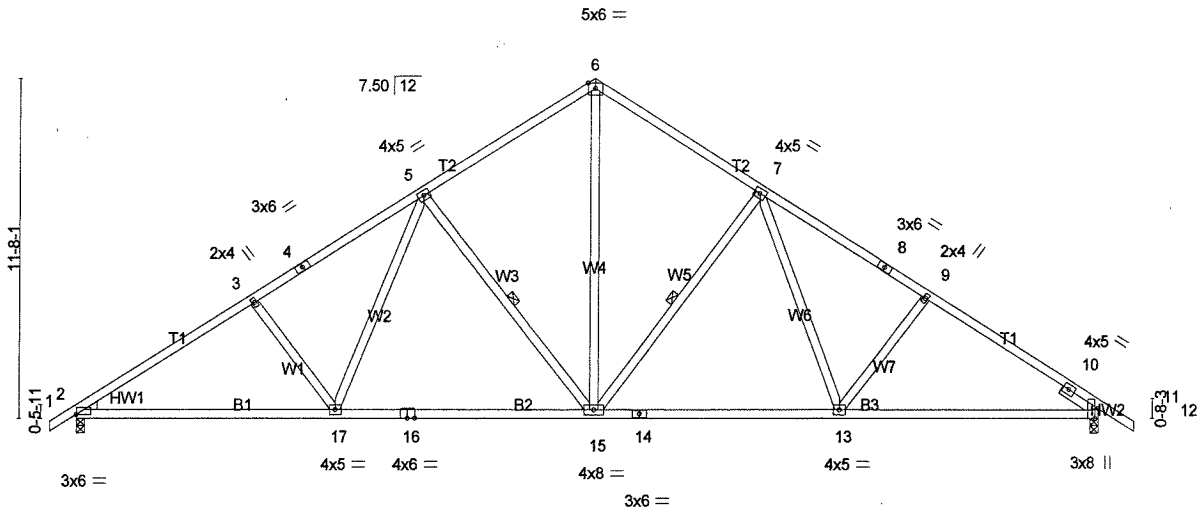
Sample Truss Drawing 2

Job	Truss	Truss Type	Qty	Ply	
	B1	Common	3	1	Job Reference (optional)

Run: 8.240 s Feb 11 2019 Print: 8.240 s Feb 11 2019 MiTek Industries, Inc. Thu May 16 12:26:28 2019 Page 1
ID:x3?jDGBP25C1gqne8jOVesyZ31p-rHvGqoeZD26jWydaEsJzSB4KIeDtj9aV3Z9veWzFwcv

-0-11-0	6-1-12	12-0-6	17-11-0	23-8-3	29-5-5	35-6-0	36-9-0
0-11-0	6-1-12	5-10-10	5-10-10	5-9-3	5-9-3	6-0-11	1-3-0

Scale = 1:76.4



8-11-15	17-11-0	26-5-10	35-6-0
8-11-15	8-11-1	8-6-10	9-0-6

Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [11:0-4-1,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	0.81	Vert(LL)	-0.25	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(TL)	-0.51	15-17	>834	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.12	11	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 204 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-15, 7-15

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

REACTIONS. (lb/size) 2=1475/0-3-8 (min. 0-2-5), 11=1495/0-3-8 (min. 0-2-6)
Max Horz 2=-190(LC 10)
Max Uplift11=-2(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-2246/28, 3-25=-2163/61, 3-4=-2064/56, 4-5=-1963/91, 5-26=-1447/109, 6-26=-1363/140, 6-27=-1364/140, 7-27=-1447/110, 7-8=-1899/90, 8-9=-1967/56, 9-28=-2083/61, 10-28=-2123/29, 10-11=-874/0
BOT CHORD 2-17=0/1962, 17-29=0/1600, 16-29=0/1600, 16-30=0/1600, 15-30=0/1600, 14-15=0/1487, 14-31=0/1487, 31-32=0/1487, 13-32=0/1487, 11-13=0/1723
WEBS 3-17=-302/104, 5-17=0/519, 5-15=-630/103, 6-15=-53/1172, 7-15=-594/102, 7-13=0/431, 9-13=-251/98

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-11-0 to 2-7-10, Interior(1) 2-7-10 to 17-11-0, Exterior(2) 17-11-0 to 21-5-10, Interior(1) 21-5-10 to 36-9-0 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=1.60
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 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.
5) One RT3A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard