Obtaining a permit for your Best Barns or Sentry Buildings kit.

Building code offices and HOA's may require different documents to obtain a permit. The homeowners first step is to contact their local code office and ask what is needed for the size of building to be purchased.

Typically, the necessary documentation may include some or all of the following.

- Elevations showing at least two sides of structure.
- Site plan showing existing structures and proposed build site.
- Engineered drawings for truss system indicating snow and wind load ratings.*
- Cross sections of wall framing and foundation.
- Tie down locations for high wind load areas.

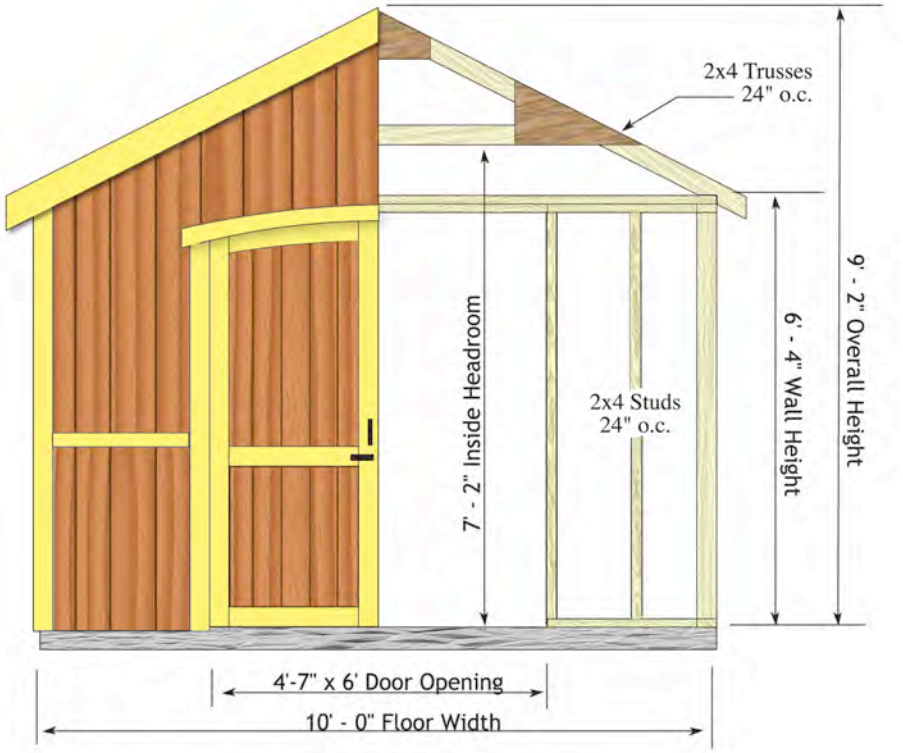
Permit requirements vary based on location. Some areas may not require a permit at all. The documents provided by Best Barns or Sentry Buildings are intended to help the homeowner with the permit process but do not guarantee a permit will be issued.** It is the homeowner's responsibility to determine if a permit is required and submit the necessary documentation if so.

* Engineered truss drawings stamped for your individual state can be obtained upon request. A deposit will be required if shed or garage kit has not yet been purchased. Contact us directly at 800-245-1577 for further details.

** Certain states such as Florida and California have stringent requirements for obtaining a permit. Depending on your location, a civil engineer's services may be required to provide necessary documents. These services are the homeowners responsiblity to obtain and are not included in the purchase of a shed or garage kit.

Before you order our kit or begin construction, obtain a building permit. If additional documents are required contact questions@barnkits.com.

CAMBRIDGE ELEVATION



Foundation Size

10'x12' Building	10 '- 0" x 12 '- 0"
10'x16' Building	10' - 0" x 16' - 0"
10'x20' Building	10' - 0" x 20' - 0"

Wall Framing: 2x4 Construction with 24" on center stud spacing, single bottom plate and top plate with 2x4 tie plates.

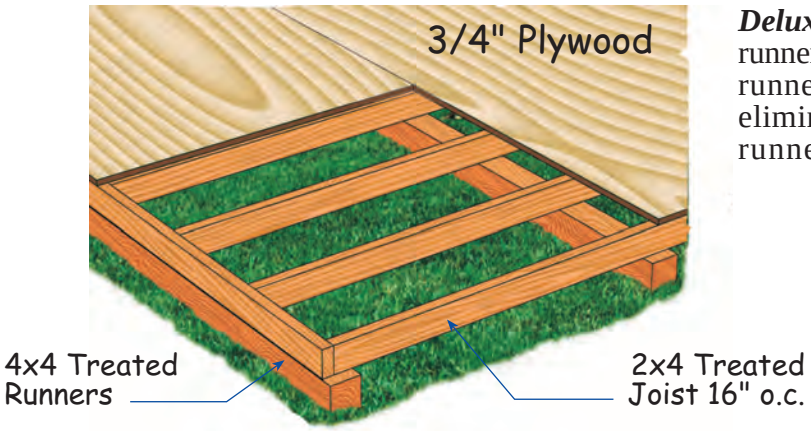
Pocket Doors: Pre-built 2x4 frame covered with LP *'SmartPanel'* primed siding. Door trim primed ready to paint.

Siding: Louisianna-Pacific *'SmartPanel'* 8" o.c. groove, primed ready to paint

Roof System: 2x4 trusses spaced 24" on center, (see engineered truss drawing for load ratings). 7/16" OSB roof sheathing. *Shingles by owner*.

Exterior Trim: White pine trim for corners, door, gable trim and front and sidewall fascia. Primed ready to paint.

Hardware: Nails for all framing, metal hurricane hangers for trusses. Heavy duty aluminum track, decorative door handles and lockable door latch.

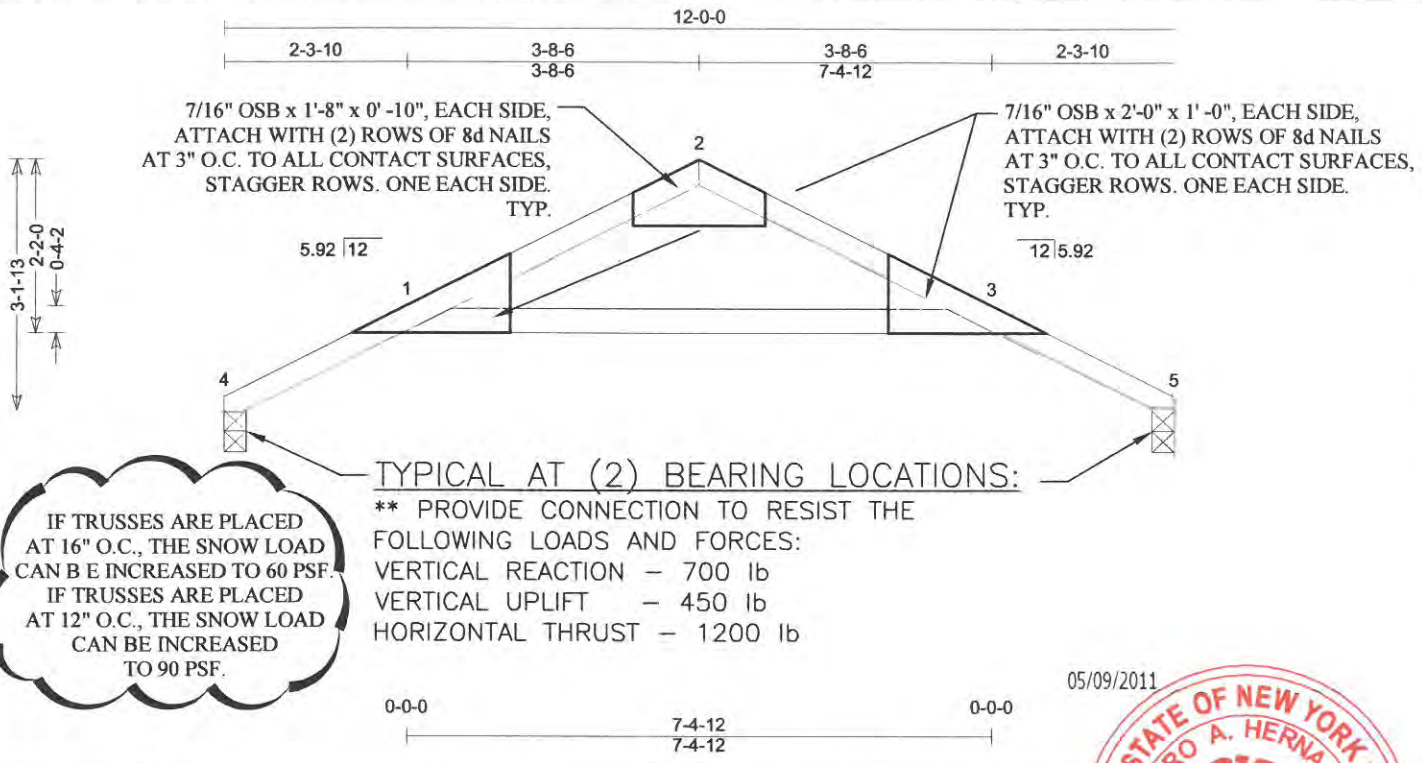


Deluxe Floor (optional accessory): 4x4 treated runners can be installed directly on the grass. The runners elevate the floor providing air flow eliminating moisture. 10' wide floor has three runners. Floor covering is 3/4" plywood.

TrueBuild® Software v4.06
by Keymark Enterprises, LLC.

Truss: R1
JobName: JRENOLDS
Date: 05/09/11 11:27 AM
Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
7-4-12	5.921 /12	1	2-3-10	2-3-10	0-0-0	0-0-0	1	24 in	23 lbs



TYPICAL AT (2) BEARING LOCATIONS:

** PROVIDE CONNECTION TO RESIST THE FOLLOWING LOADS AND FORCES:
VERTICAL REACTION – 700 lb
VERTICAL UPLIFT – 450 lb
HORIZONTAL THRUST – 1200 lb

IF TRUSSES ARE PLACED AT 16" O.C., THE SNOW LOAD CAN B E INCREASED TO 60 PSF. IF TRUSSES ARE PLACED AT 12" O.C., THE SNOW LOAD CAN BE INCREASED TO 90 PSF.

05/09/2011

STATE OF NEW YORK ★ ARTURO A. HERNANDEZ ★ LICENSED PROFESSIONAL ENGINEER 083684

Loading		General		CSI Summary		Deflection		L/	(loc)	Allowed
Load	(psf)	Bldg Code :	IBC 2003/ TPI 1-2002	TC :	0.87 (1-2)	Vert TL:	0.21 in	L / 663	(3-1)	L / 240
TCLL :	40			BC :	0.60 (3-1)	Vert LL:	0.02 in	L / 999	(3-1)	L / 360
TCDL :	7	Rep Mbr Increase :	No	Web :	0.00 (1)	Horz TL:	0 in			
BCLL :	0	D.O.L. :	115 %							
BCDL :	10									

Reaction Summary

JT	Type	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
4	Pin (Wall)	1	3.313 in	1.50 in	698 lbs		-147 lbs	-441 lbs	-441 lbs	668 lbs
5	Pin (Wall)	1	3.313 in	1.50 in	698 lbs		-147 lbs	-441 lbs	-441 lbs	668 lbs

Material Summary

TC SPF #2 2 x 4
BC SPF #2 2 x 4
Webs

Bracing Summary

TC Bracing: Sheathed or Purlins at 3-5-0, Purlin design by Others.
BC Bracing: Sheathed or Purlins at 5-4-0, Purlin design by Others.

Loads Summary

1) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 02 with the following user defined input: 90 mph, Exposure C, Enclosed, Gable/Hip, Building Category II (I = 1.00), h=B=L=15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
2) This truss has been designed for the effects of balanced and unbalanced snow loads for hips/gables in accordance with ASCE7 - 02 except as noted, with the following user defined input: 40 psf ground snow load. NOTE: Conservatively, all flat/sloped roof factors have been ignored and the ground snow load has been used for the roof snow load, DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
3) This truss has been designed to account for the effects of ice dams forming at the eaves.
4) This truss has been designed for the effects of a 18.1 psf live load computed in accordance with IBC 2003 assuming slope = 5.92 /12 and area supported = 24 ft².
5) Minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces Summary

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force)

TC	4-1	0.847	-1,340 lbs	1-2	0.868	-869 lbs	2-3	0.868	-869 lbs	3-5	0.847	-1,340 lbs
BC	3-1	0.596	-1,171 lbs									
Webs												

Notes:

6) When this truss has been chosen for quality assurance inspection, the Effective Tooth Count Method per TPI 1-2002/A3.4 shall be used.
7) Brace bottom chord with approved sheathing.
8) Multiple pinned bearings exist.

UNIQUE BEARING CONDITIONS AT JOINTS 4 & 5 REQUIRE SPECIAL ATTENTION
THE BUILDING DESIGNER MUST ACCOUNT FOR NOT ONLY THE BEARING REACTION BUT FOR THE HORIZONTAL THRUST AND THE UPLIFT. PROVIDE MECHANICAL CONNECTION (BY OTHERS) TO RESIST SAID FORCES SHOWN HEREON. THRUST = 1180lb/TRUSS

Eagle Metal Products
2711 LBJ Freeway, Suite 160
Dallas, Texas 75234

Best Barns model:_____
___ft. wide x ___ft. long

Manufactured by:
Reynolds Building Systems, Inc.
205 Arlington Drive
Greenville, PA 16125
phone: 800-245-1577
fax: 724-646-0772

Common Foundation Cross Sections

This document illustrates common foundation types which can be used for construction of Best Barns 12 ft. wide structures. Alteration may be necessary to conform to homeowners intended use and or permitting requirements.

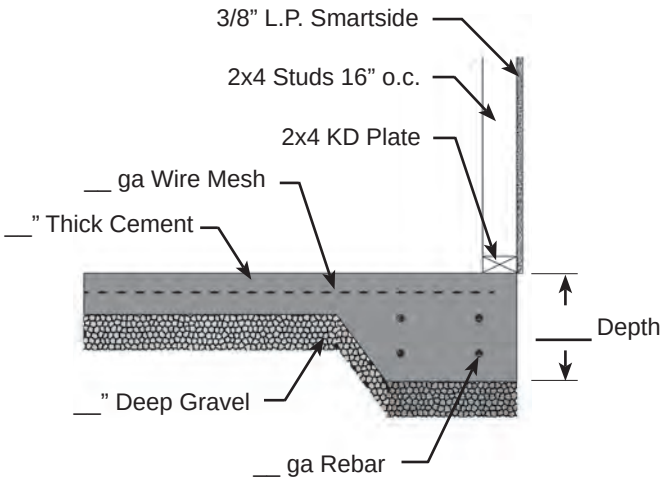
Drawings not to scale.

Instructions:

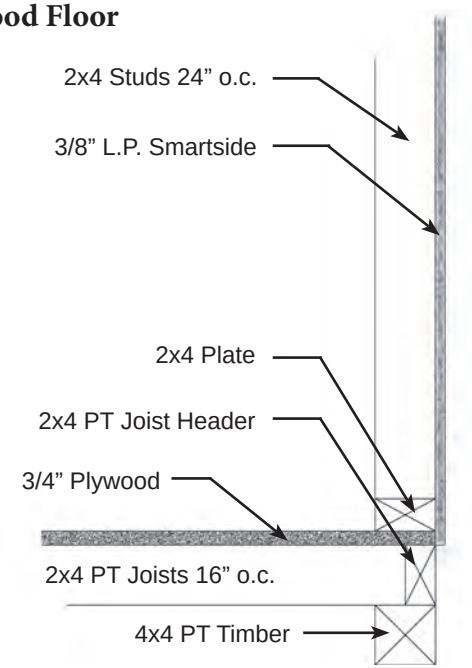
Check appropriate foundation cross section and provide specifications as necessary.

Homeowner may also design and draw in space provided for custom foundation type.

☐ **Concrete Slab**



☐ **Wood Floor**



☐ **Homeowner Design**

Best Barns model:_____
___ft. wide x ___ft. long

Manufactured by:
Reynolds Building Systems, Inc.
205 Arlington Drive
Greenville, PA 16125
phone: 800-245-1577
fax: 724-646-0772

Truss & Wall Cross Section

Top of wall inclusive of wall framing and truss cross sections.

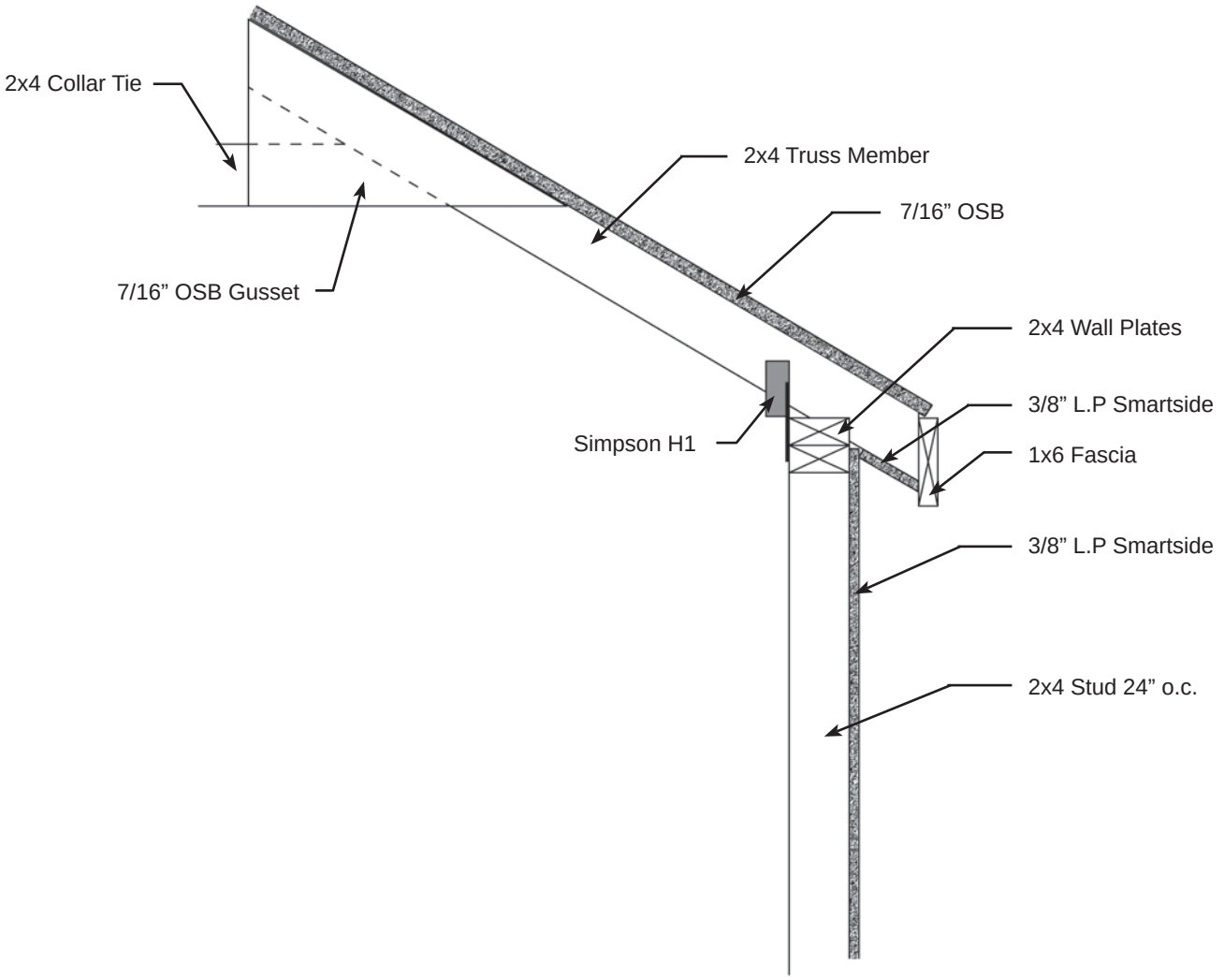
Drawing not to scale.

Instructions:

Homeowner may provide additional information as appropriate.

Notes:

Refer to installation manual for further detail.



Site Plan for:

_____

Manufactured by:
Reynolds Building Systems, Inc.
205 Arlington Drive
Greenville, PA 16125
phone: 800-245-1577
fax: 724-646-0772

Instructions:

Draw property line, existing structures and proposed placement of building.

Homeowner may also be required to show trees and shubs. Check with HOA or permit office for requirements.