

# ---- FAYETTE COUNTY BUILDING DEPARTMENT ----

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## RESIDENTIAL POST FRAME ACCESSORY STRUCTURE

2019 RESIDENTIAL CODE OF OHIO, SECTION 328

This summary of information is being provided as a courtesy to assist in preparing drawings for acquiring a building permit for residential post-frame accessory structures. Described are the minimum required standards from the 2019 Residential Code of Ohio and do not include all code requirements.

### Structures outside these guidelines will require a State of Ohio design professional.

1. Building must be a single story residential accessory structure and not for living purposes.
2. Building must provide solid exterior structural sheathing or girts & purlins with metal roof and wall panels.
3. Maximum building width is 36' (inclusive of overhangs) with a maximum 16' wall height to truss bearing.
4. Maximum post spacing is 8' O.C., maximum mean roof height is 20', and no attic storage is permitted.

### Footers/Foundation – Footer pad sized per Table 328.3 with top of footer to be min. 48" below finish grade.

\* Footer Pad Size - Table 328.3

Building Width with Overhang	Footer Pad Size 20# Snow Load	Footer Pad Thickness
24' (truss length)	18" Dia.	9" Deep
28'	20"	10"
32'	22"	11"
36'	22"	11"

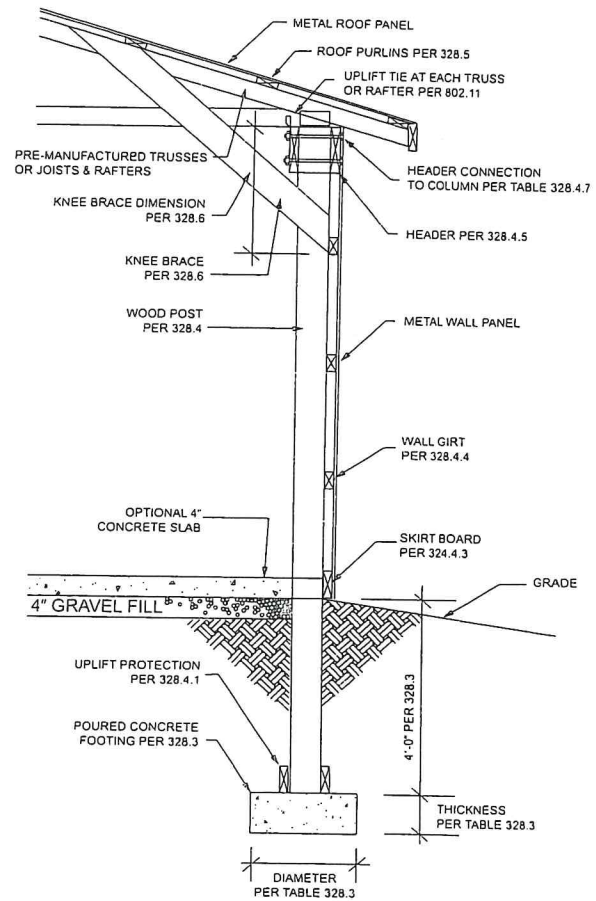
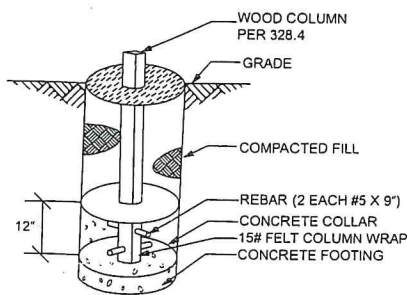
\* 2,000 PSF soil bearing capacity

\* 10 PSF dead Load top chord + 5 PSF dead load on bottom chord

\* Building Official to determine appropriate loading conditions

### Posts

1. Maintain a maximum spacing of 8' on center.
2. Provide 3-ply un-spliced, reinforced spliced or min. 4X6 solid wood posts.
3. Posts shall be pressure treated for rot and decay resistance.
4. Posts shall have uplift protection.
  - Option 1 – (2) 2x6x12" post uplift blocks attached to each side horizontally. See Fig. 328
  - Option 2 - 12" H. concrete collar poured on footer Pad with (2) #5x9" rebar placed through post at 3" & 9" from bottom in opposite directions. Hold rebar ends 1 1/2" from soil. See Fig. 328.1



**FIGURE 328  
POST AND FRAME WALL SECTION  
(NO SCALE)**

## Skirt Boards

Skirt boards shall be pressure treated for rot and decay resistance.

## Wall Girts

Wall girts shall be not less than 2X4 and spaced not more than 24" O.C.

## Header Sizes

Header sizes shall be shown on the plans and verified by the building official.

Beam and truss attachment shall be shown on the plans and verified by the building official.

## Corner & Knee Bracing

Diagonal corner bracing shall be shown on the plans and verified by the building official.

Knee bracing shall be required and verified by the building official.

## Roof Purlins

Roof purlins shall be a min. of 2x4 SPF#2 laid flat for spans up to 4 feet and 2x4 SPF#2 laid on edge for spans up to 8 feet.

Roof purlins shall be spaced not more than 24 inches on center.

## Roof Trusses

Sealed engineered roof truss drawings shall be submitted for approval with a copy on site for inspection of bracing.

## Attachment Details

Structural fastener details shall comply with Table 328.7 or equivalent screw framing system.

TABLE 328.7  
STRUCTURAL FASTENERS

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS		
Description of Building Element	Number and Type of Fastener	Attachment type
Uplift blocking to post	5-16d Hot Dipped Galvanized	Each block
Skirt board to post	2-16d Hot Dipped Galvanized	Face nail
Wall girt to post	2-16d Hot Dipped Galvanized	Face nail
Diagonal cross bracing to post	2-16d Hot Dipped Galvanized	Face nail
Diagonal cross bracing to skirt board	2-10d Hot Dipped Galvanized	Face nail
Diagonal cross bracing to wall girts, beam, or header	2-10d	Face nail
Knee brace to post	3-16d Hot Dipped Galvanized	Face nail
Knee brace to top chord of truss or rafter	3-10d	Face nail
Knee brace to bottom chord of truss or ceiling joist	3-10d	Face nail
Roof purlin to truss or rafter with span of 2' or 4'	2-16d	Face nail
Roof purlin to truss or rafter with span of 8'	Mechanical fastener with uplift protection greater than 225 pounds.	Per manufacturer installation manual