

STANDARDS FOR POLE BARN CONSTRUCTION 2017

Standards for Pole Type Construction

The following standards are intended to serve as a guide for pole construction within the City of Nampa. They are intended to consolidate and focus on minimum requirements, which are applicable to popular pole construction methods. These standards are not meant to be substituted for, or be contrary to, governing building code regulations. If plans are submitted by a State of Idaho registered design professional, alternative construction methods will be considered.

If the structure you are proposing will exceed an exterior side wall height of 12' engineering will be required. The total structure height may not exceed 15' in total height. All detached structures are limited to this height.

Footings:

1. It is the responsibility of the person preparing the plans to design the footings according to the bearing capacity of the soil.
2. Footings shall bear on virgin soil a minimum of 48 inches below the finish grade.

Skirt Boards:

1. All skirt boards shall be tongue and groove and decay resistant.
2. Skirt boards shall be installed from the base of the slab to a point not less than eight (8) inches above the finish grade.

Pole Building Additions:

1. Weather-proof control joints and expansion joints shall be utilized where new pole buildings connect with existing buildings to allow movement.

Concrete Slabs:

1. Concrete slabs shall not be placed in direct contact with load-bearing poles.
2. Poles shall be separated from concrete slabs with pre-molded expansion joint filler or 15 pound felt.

Poles:

1. Minimum size for bearing poles shall be 4" X 6" nominal. Poles on end walls may be 4" X 4".

The 6 inch dimension shall be perpendicular to the wall.

Exception: As a minimum, 6 inch X 6 inch poles shall be used for buildings with a bearing dimension exceeding thirty-one (31) feet.

2. Standard spacing of poles shall not exceed eight (8) feet.

3. All poles shall be pressure treated with a minimum AWPA rating of UC4B GROUND CONTACT Heavy Duty.

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Truss Bearing Beams:

1. Continuous beams designed to support roof trusses shall be thru-bolted to the poles. These shall be (2) ½" carriage bolts or an approved equivalent (such as Ledger-Lok or other proprietary products approved by industry standards acceptable to ICCES reports).
2. Alternative methods of connecting beams to poles utilizing thru-bolted ledgers or jacks will be subject to approval of the Building Official.

Girts (Side-wall Purlins):

1. Girts shall be spaced not more than twenty-four (24) inches on center for exterior wall siding and interior wall covering.
2. Girts are to be secured to wood poles spaced not more than eight (8) feet center to center.
3. Wood girts two (2) inches by four (4) inches nominal shall be secured to each pole with two (2) each sixteen (16) penny nails.

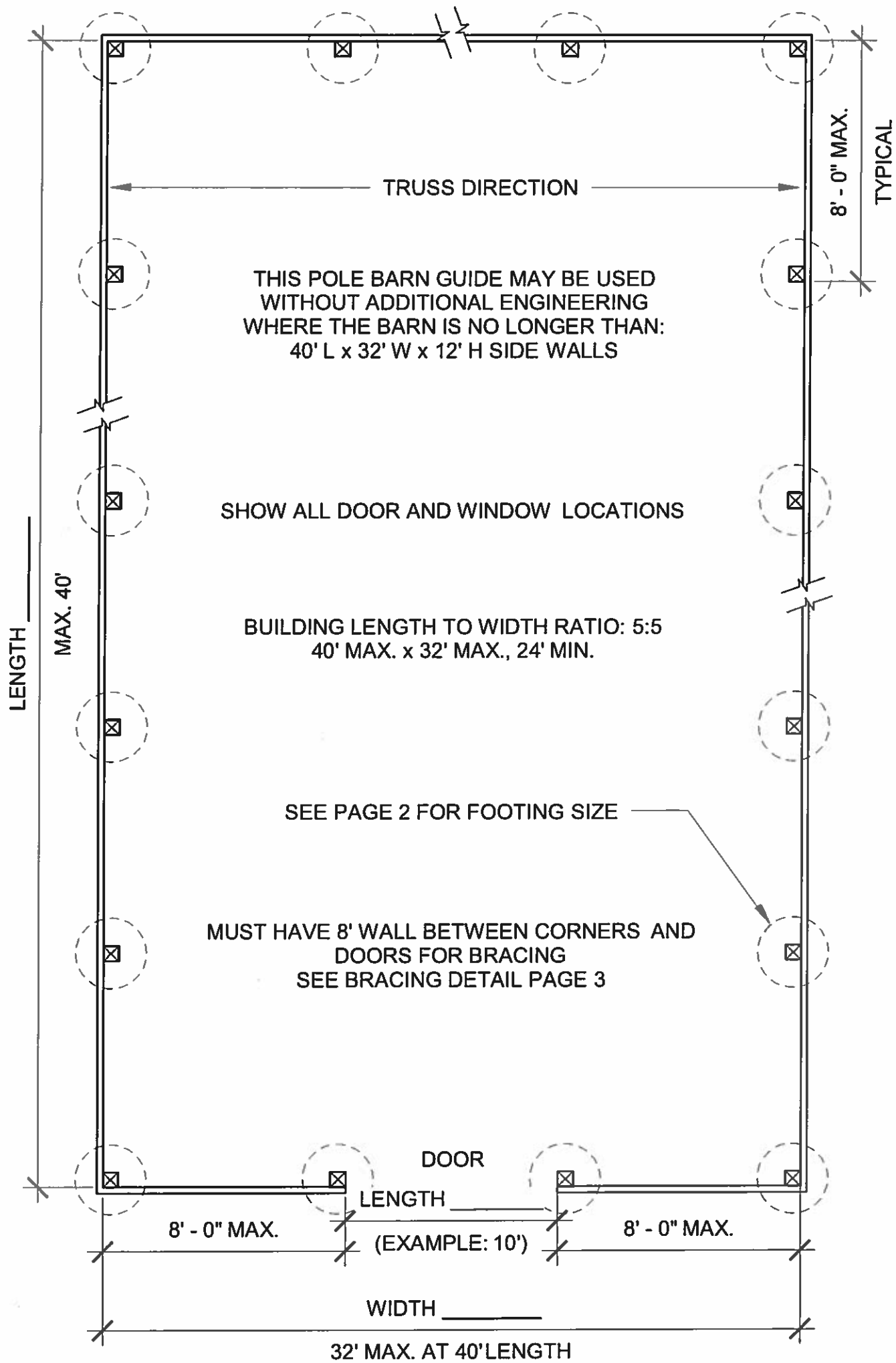
Structural Guide for Pole Buildings:

| Building Width | Footer Diameter | Concrete Thickness | Footer Depth | Pole Size & Spacing | Girder Size |
|--|-----------------|--------------------|--------------|-----------------------|---------------------|
| 20' | 18 Inches | 10 Inches | 48" | * 4" X 6" @ 8 Ft. o/c | 2-2" X 8" SPF No.1 |
| 24' | 18 Inches | 10 Inches | 48" | * 4" X 6" @ 8 Ft. o/c | 2-2" X 8" |
| 28' | 18 Inches | 10 Inches | 48" | * 4" X 6" @ 8 Ft. o/c | 2-2" X 10" SPF No.1 |
| 6" SIDE OF POLES SHALL BE PERPENDICULAR TO THE WALL | | | | | |
| 32' | 24 Inches | 12 Inches | 48" | 6" X 6" @ 8 Ft. o/c | 2-2" X 10" SPF No.1 |
| 36' | 24 Inches | 12 Inches | 48" | 6" X 6" @ 8 Ft. o/c | 2-2" X 12" SPF No.1 |
| 40' | 24 Inches | 12 Inches | 48" | 6" X 6" @ 8 Ft. o/c | 2-2" X 12" SPF No.1 |

The Above Table Based on the Following Design Specifications:

- Min 2,000 psf Soil Bearing
- Max 12' Eave Height
- Max 40' Bearing Width
- Max 45 psf Total Roof Load

ALL RESIDENTIAL POSTFRAME BUILDINGS EXCEEDING ANY OF THESE DESIGN SPECIFICATIONS SHALL BE DESIGNED BY A DESIGN PROFESSIONAL



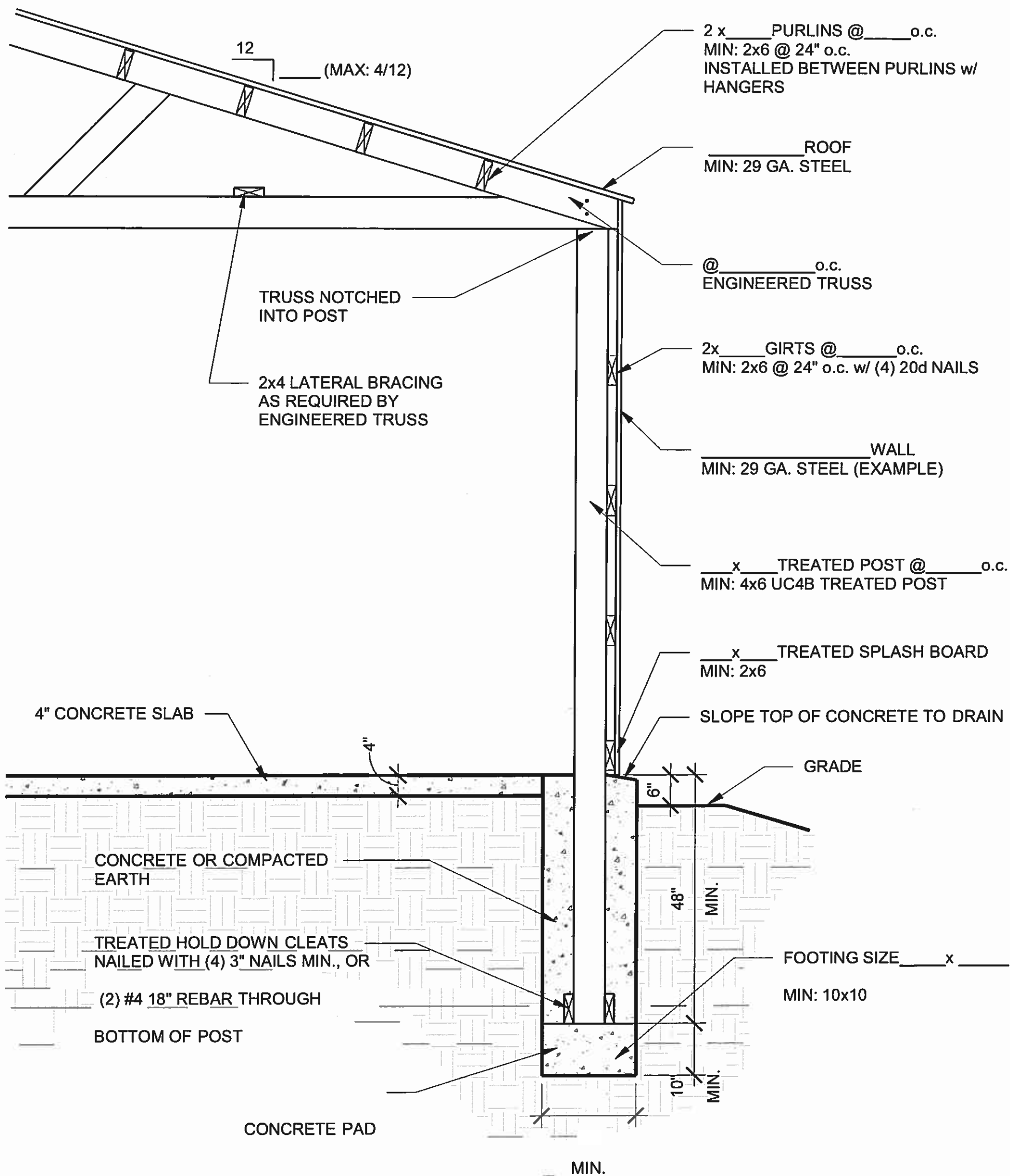
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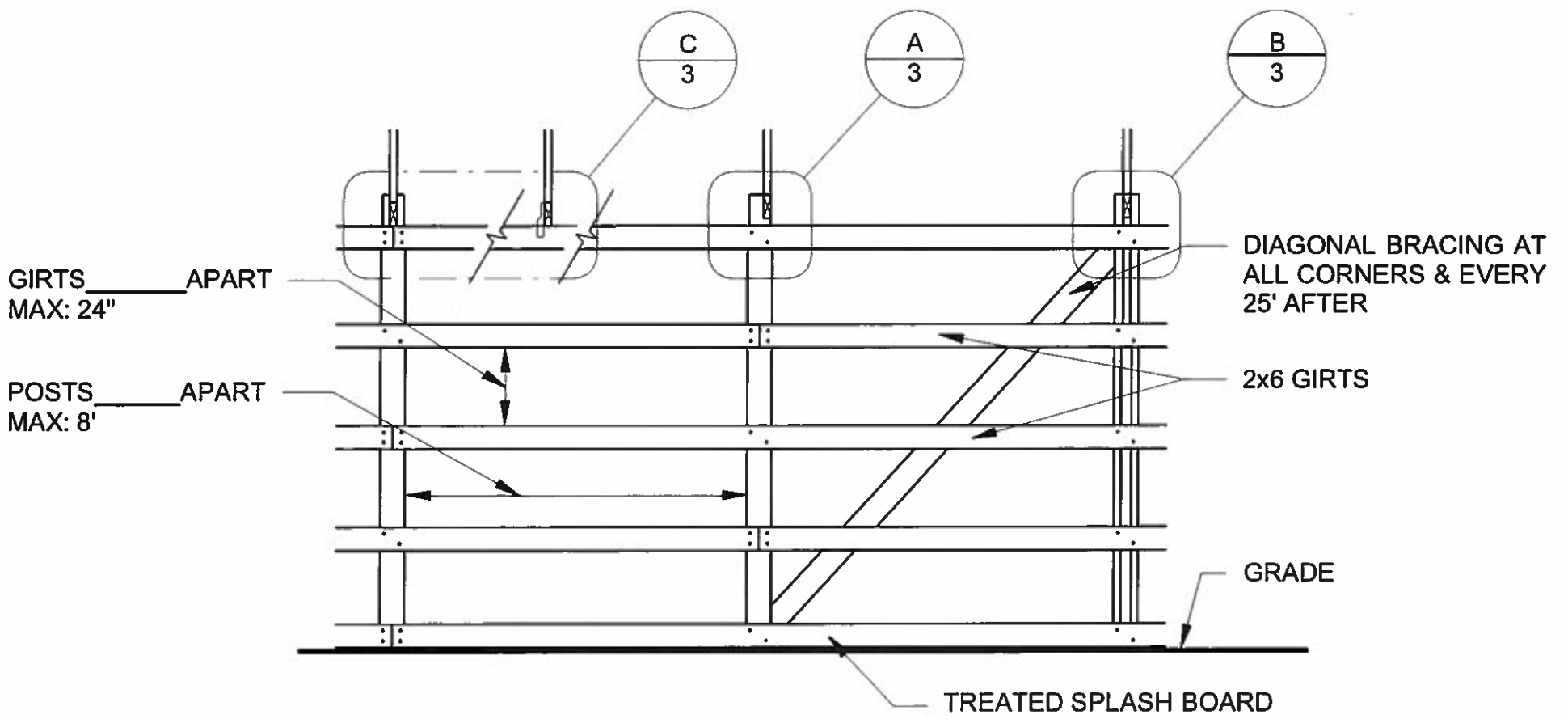
FLOOR PLAN

SHEET **1**

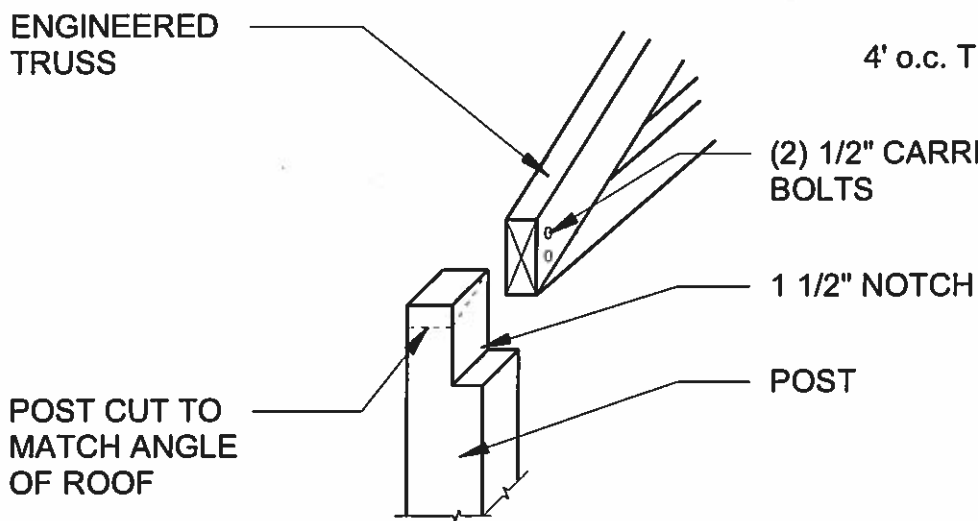
SCALE 3/16" = 1'-0"



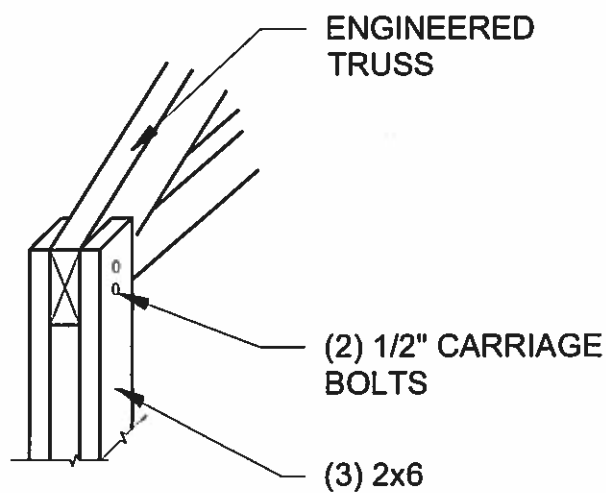
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| POLE BARN GUIDE CITY OF NAMPA BUILDING DEPARTMENT | SECTION | SHEET 2 |
| | | SCALE 1/2" = 1'-0" |



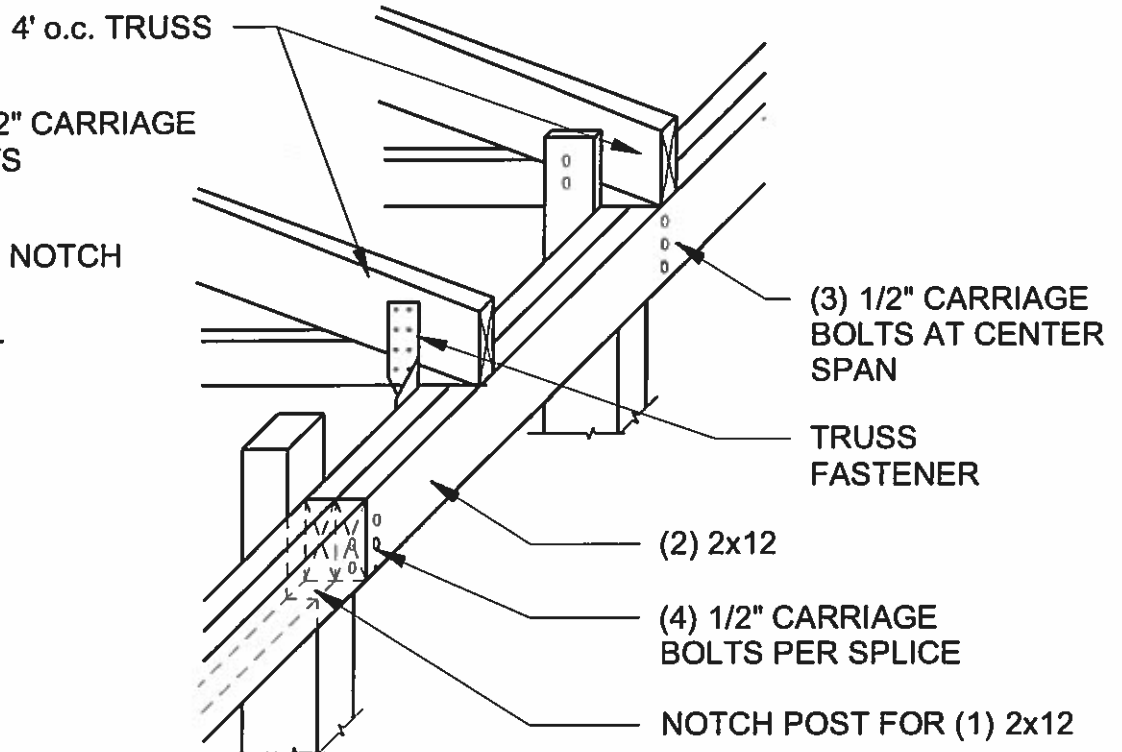
1 SIDE ELEVATION
 1/4" = 1'-0"



A DETAIL A
 1" = 1'-0"



B DETAIL B
 1" = 1'-0"



C DETAIL C
 1" = 1'-0"

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DETAILS

SHEET **3**

SCALE As indicated