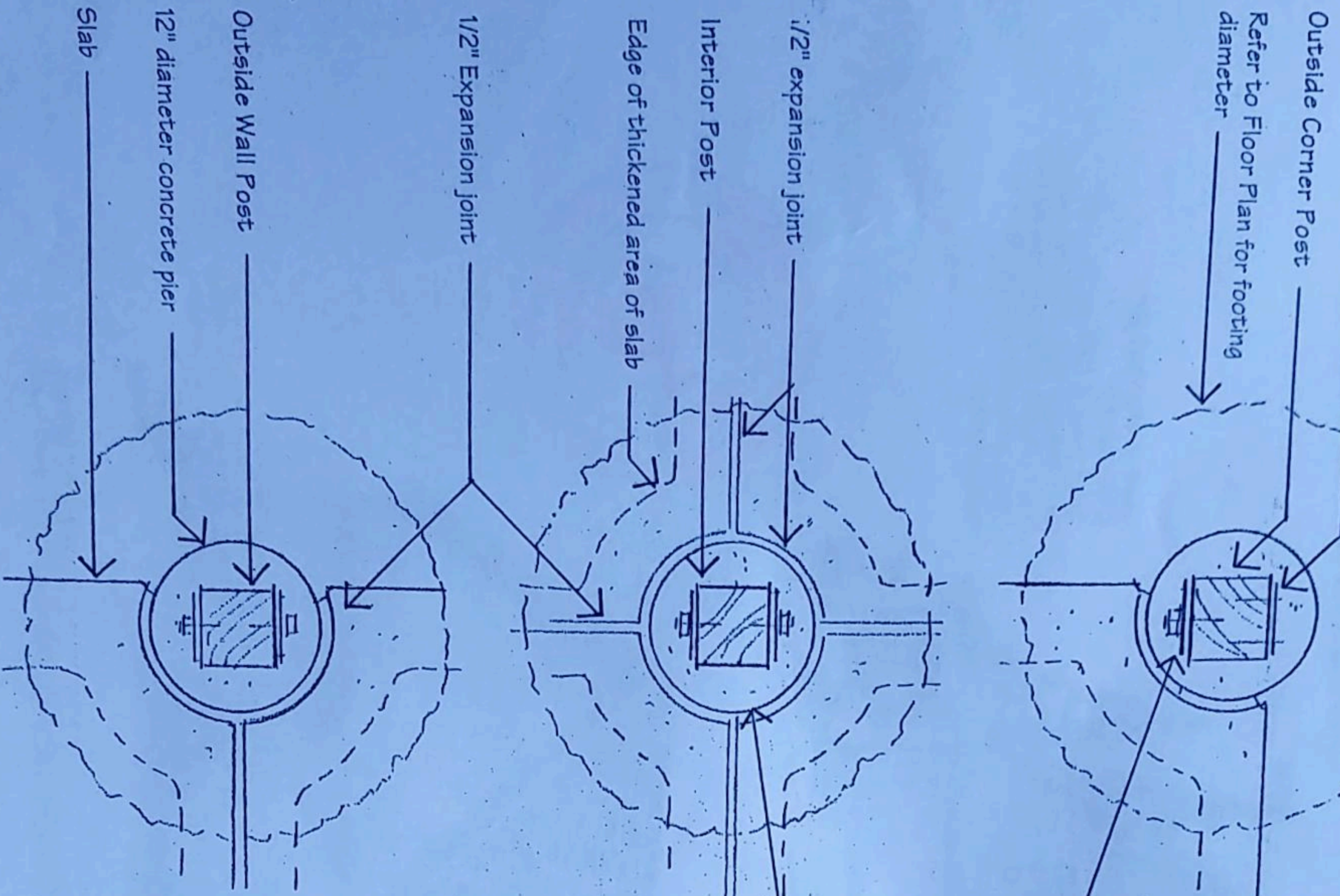
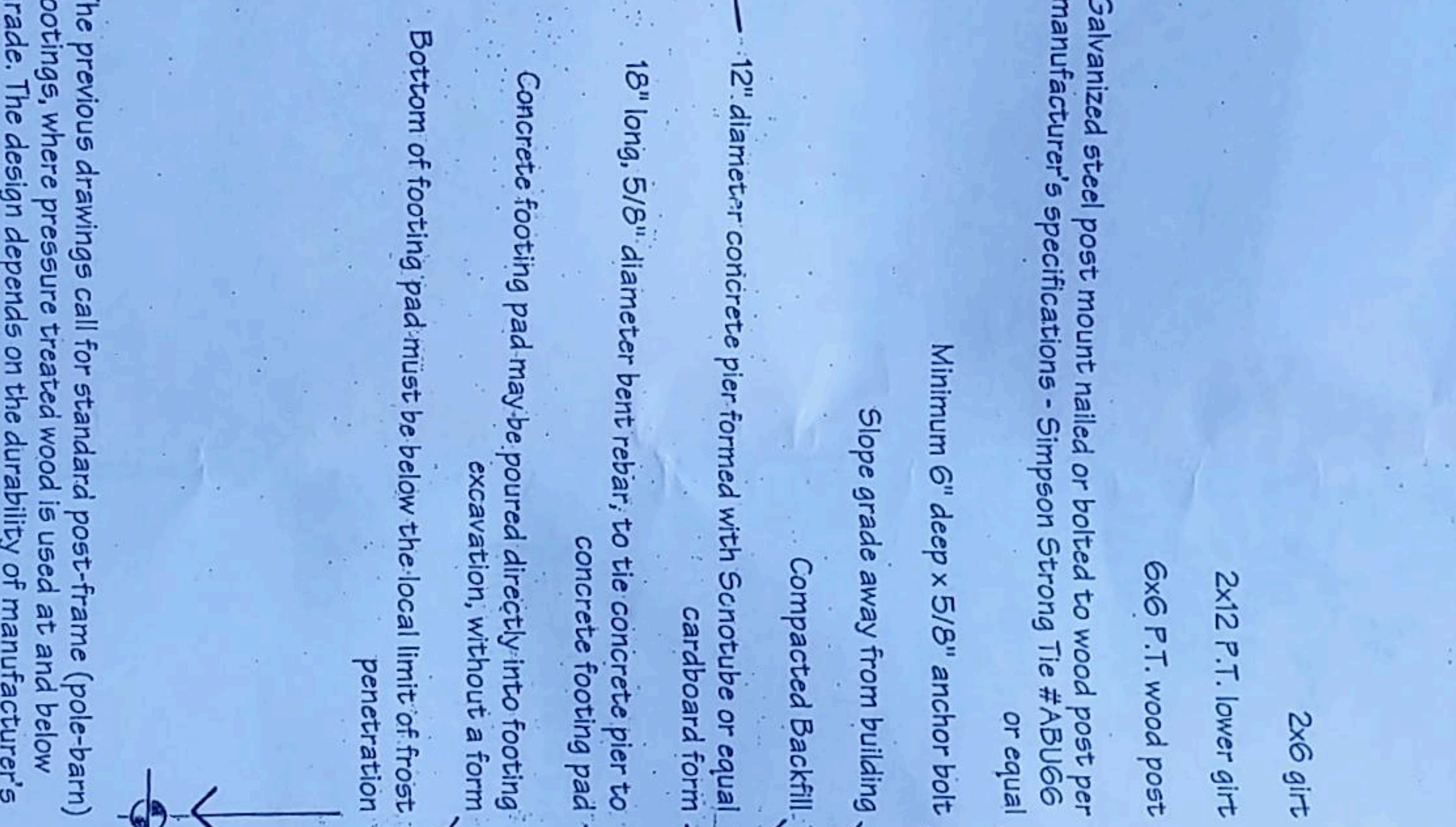


Use nails, instead of bolts, at outside face of corner post's post mount for a flush installation

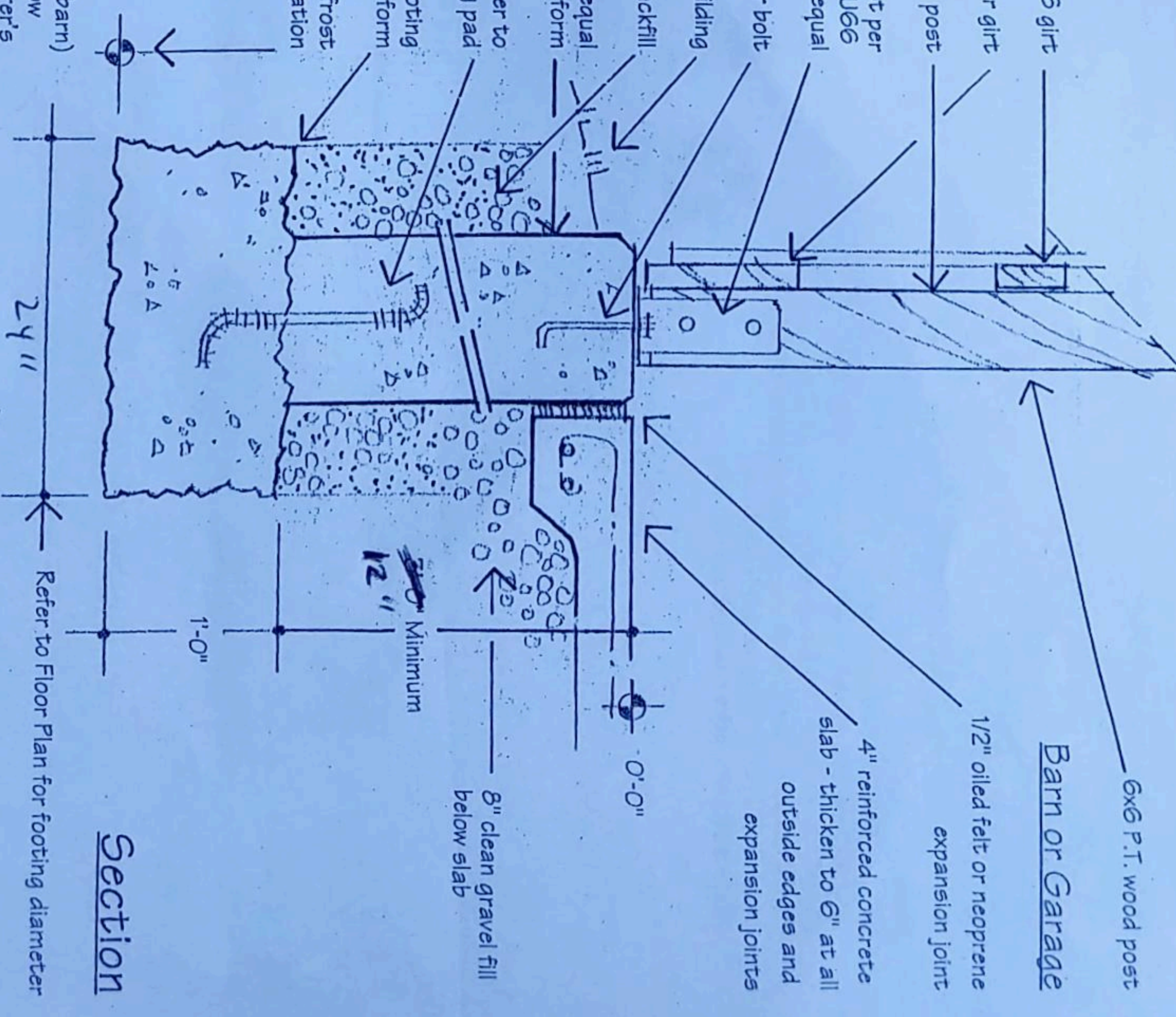


Tamped earth or clay, above 8" of clean gravel fill, may be substituted for the concrete floor slab shown.

Galvanized steel post mount nailed or bolted to wood post per manufacturer's specifications - Simpson Strong Tie #ABUGG or equal



This footing should be used for all sites with clay soil or wet soil conditions. It is recommended for all sites because of the added strength, durability and wind uplift resistance it provides. This footing reduces the length of the posts and makes them easier to lift, set and level.



Section

The previous drawings call for standard post-frame (pole-barn) footings, where pressure treated wood is used at and below grade. The design depends on the durability of manufacturer's pressure treatment chemicals and processes. Please refer to supplier's warranties and specifications for the wood that you use.

This Alternative Footing Design allows a safe and durable base for your building while keeping all wood above grade.

Please review these drawings with your local Building Official or with a building professional who is knowledgeable of soil and weather conditions in your area. That professional will help you decide if this footing design is preferable for your building site.

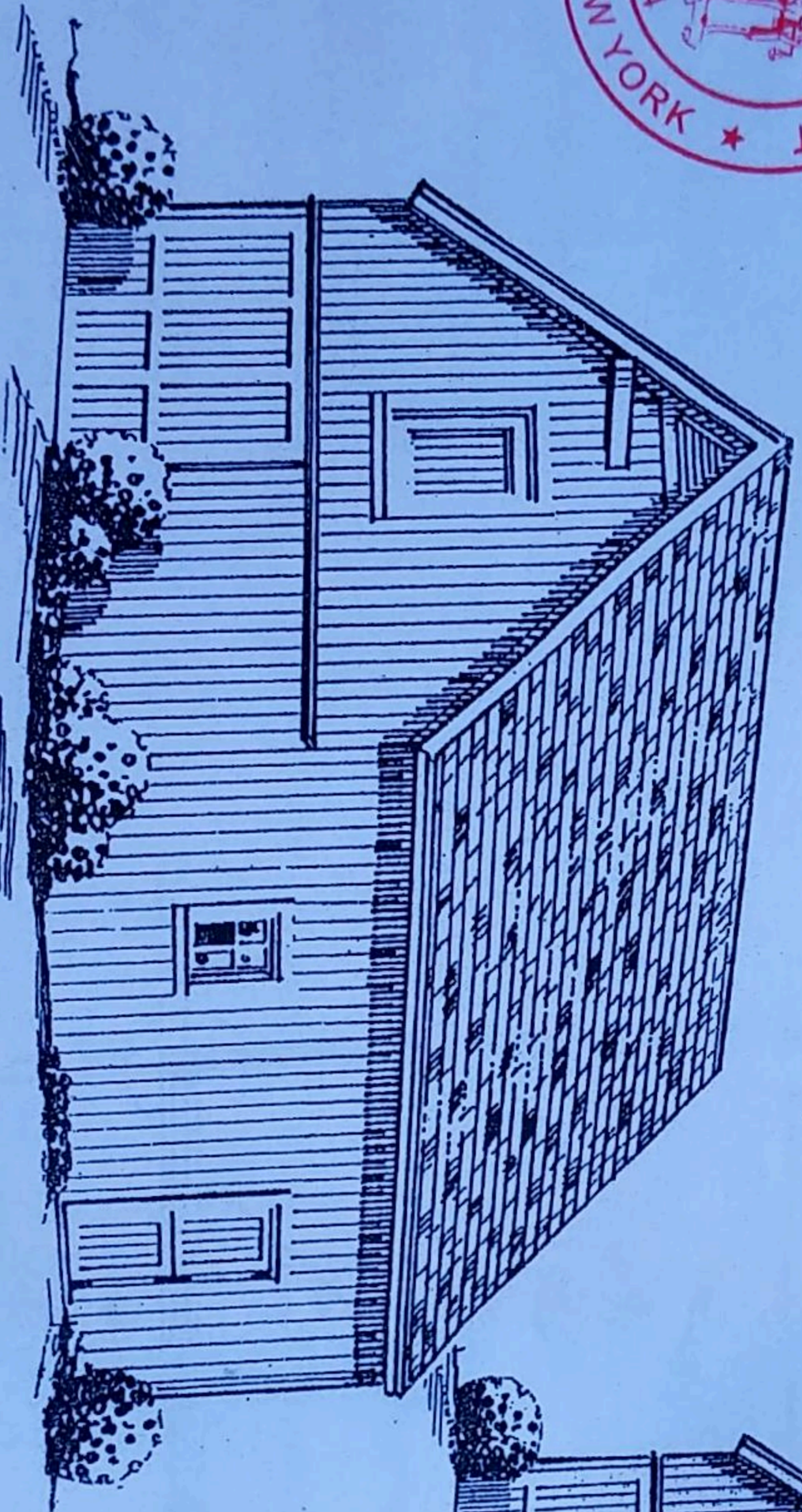
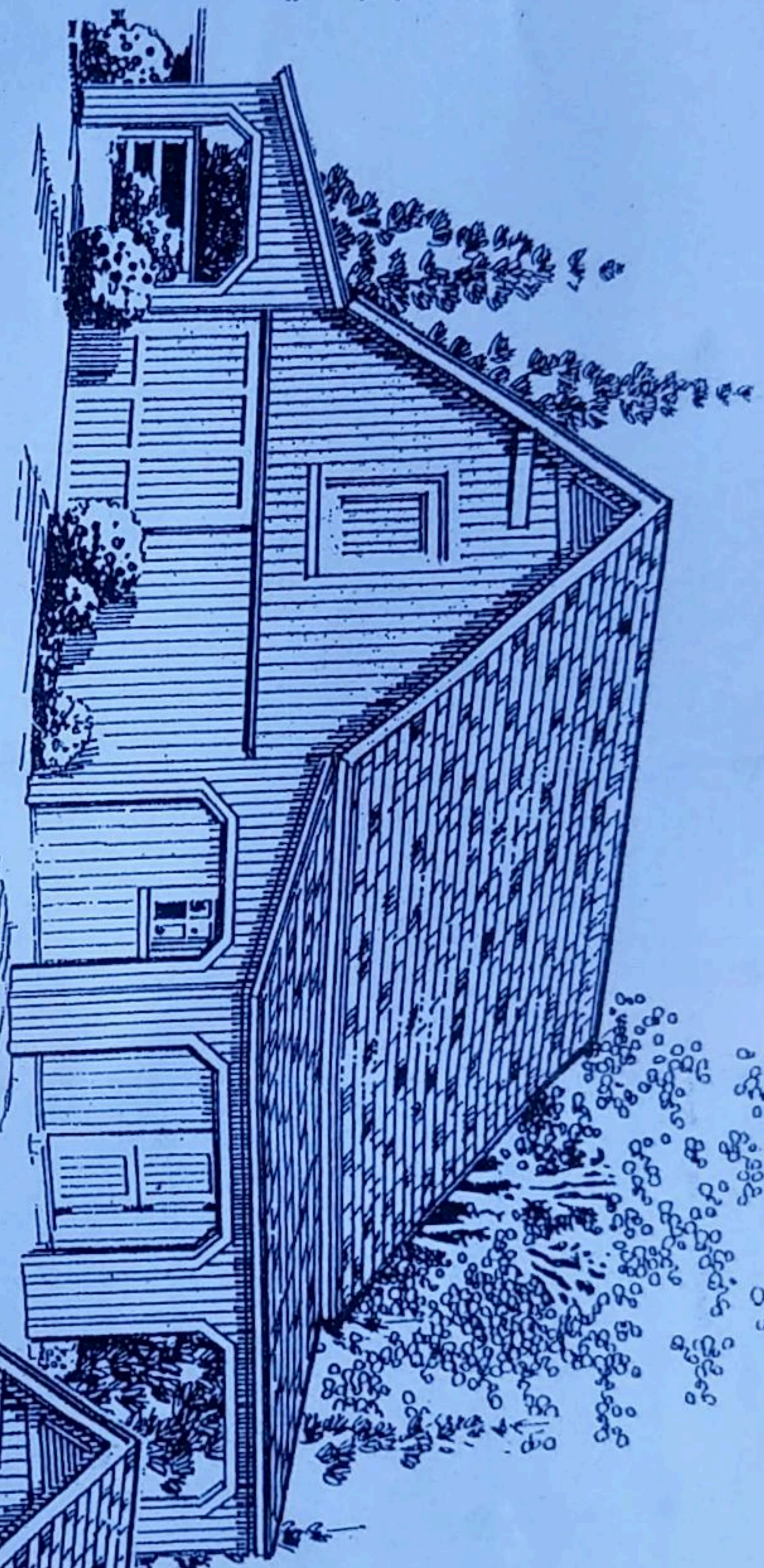
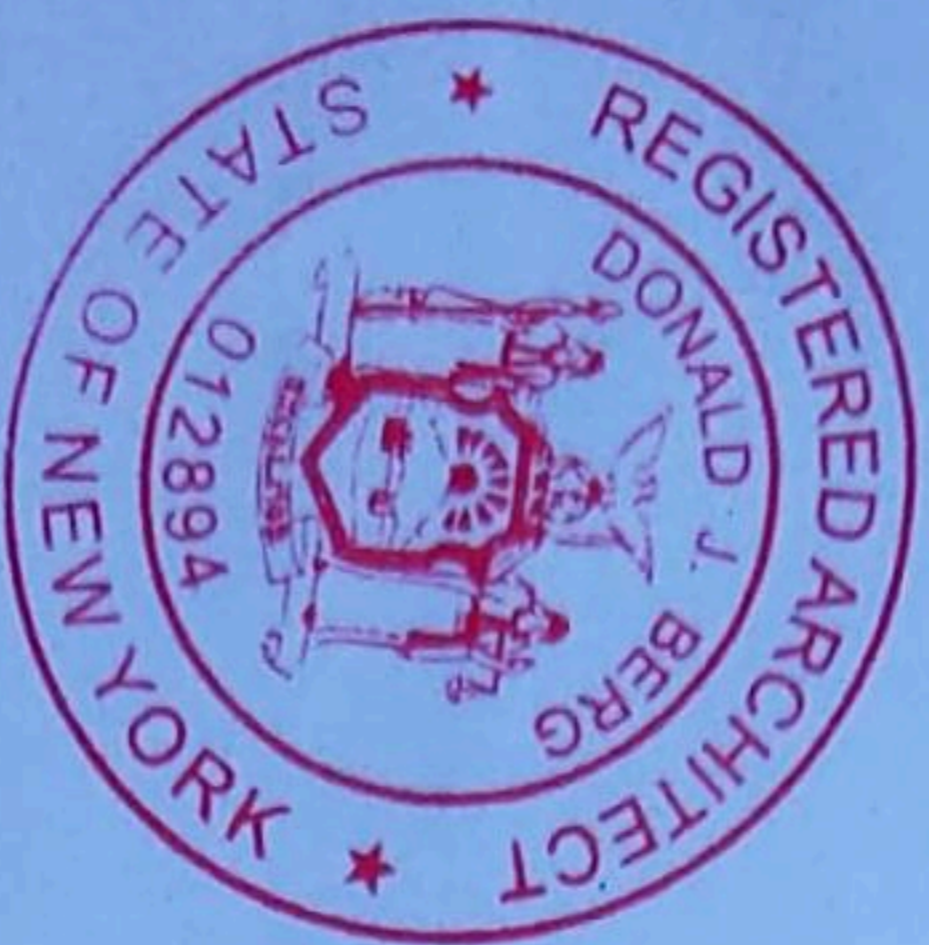
Recommended Alternative Footing 10

1" = 1'-0"

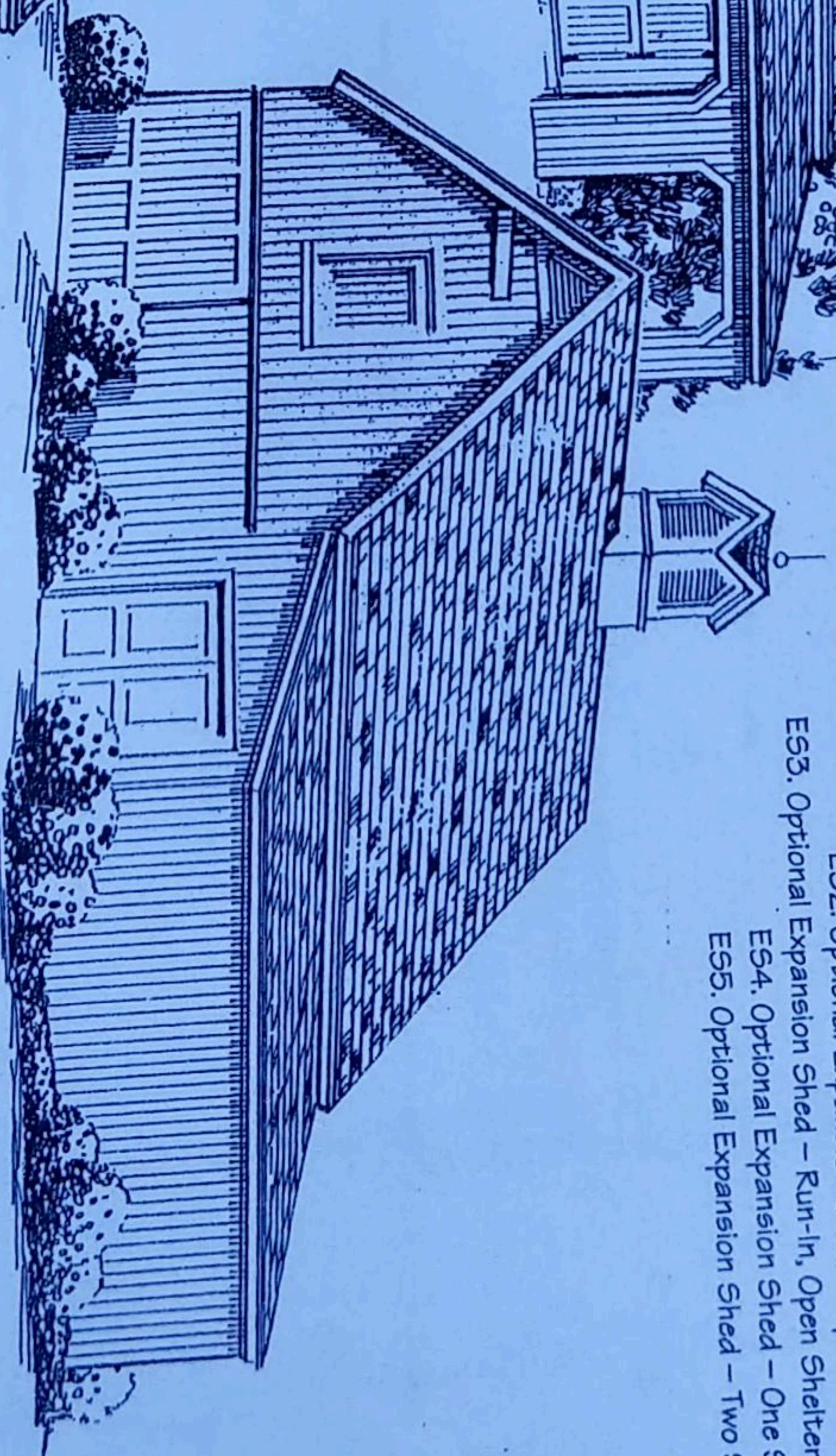
Plans

Customize your barn or garage with Expansion Sheds (Drawings ES1-ES5), a cupola, and your choice of exterior materials.
See Drawings S1-S4 for just a few samples of some of the barns, garages and workshops that you can build with these drawings

Apple Orchard Barn
Design 4170
Floor Area: 480 Square Feet,
Storage Loft: 420 Square Feet
Sheltered Area: 480 Square Feet
Add a 24' Shelter (Drawing ES3)
on each side



Applewood Barn
Floor Area: 480 Square Feet, Storage Loft: 420 Square Feet



Applewood Garage - Design 4177
Floor Area: 768 Square Feet, Storage Loft: 420 Square Feet
Add a 24' Garage (Drawing ES1)

Drawings

- 51. Sample Barns and Workshops
- 52. Sample Car Barns & Garages
- 53. Sample Horse Barns
- 54. Sample Multi-Use Horse Barns
- 1 & 2. Notes, Terms & Specifications
- 3. Floor Plan
- 4. Elevations
- 5. Elevations
- 6. Framing Section
- 7. Wall Sections
- 8. Typical Pole Frame Details
- 9. Typical Details
- 10. Recommended Alternative Footing
- ES1. Optional Expansion Shed - Garage, Tack Room or Shop
- ES2. Optional Expansion Shed - Open Storage Shelter
- ES3. Optional Expansion Shed - Run-in, Open Shelter or Carport
- ES4. Optional Expansion Shed - One Stall Stable
- ES5. Optional Expansion Shed - Two Stall Stable

Applewood Barns, Garages & Shops

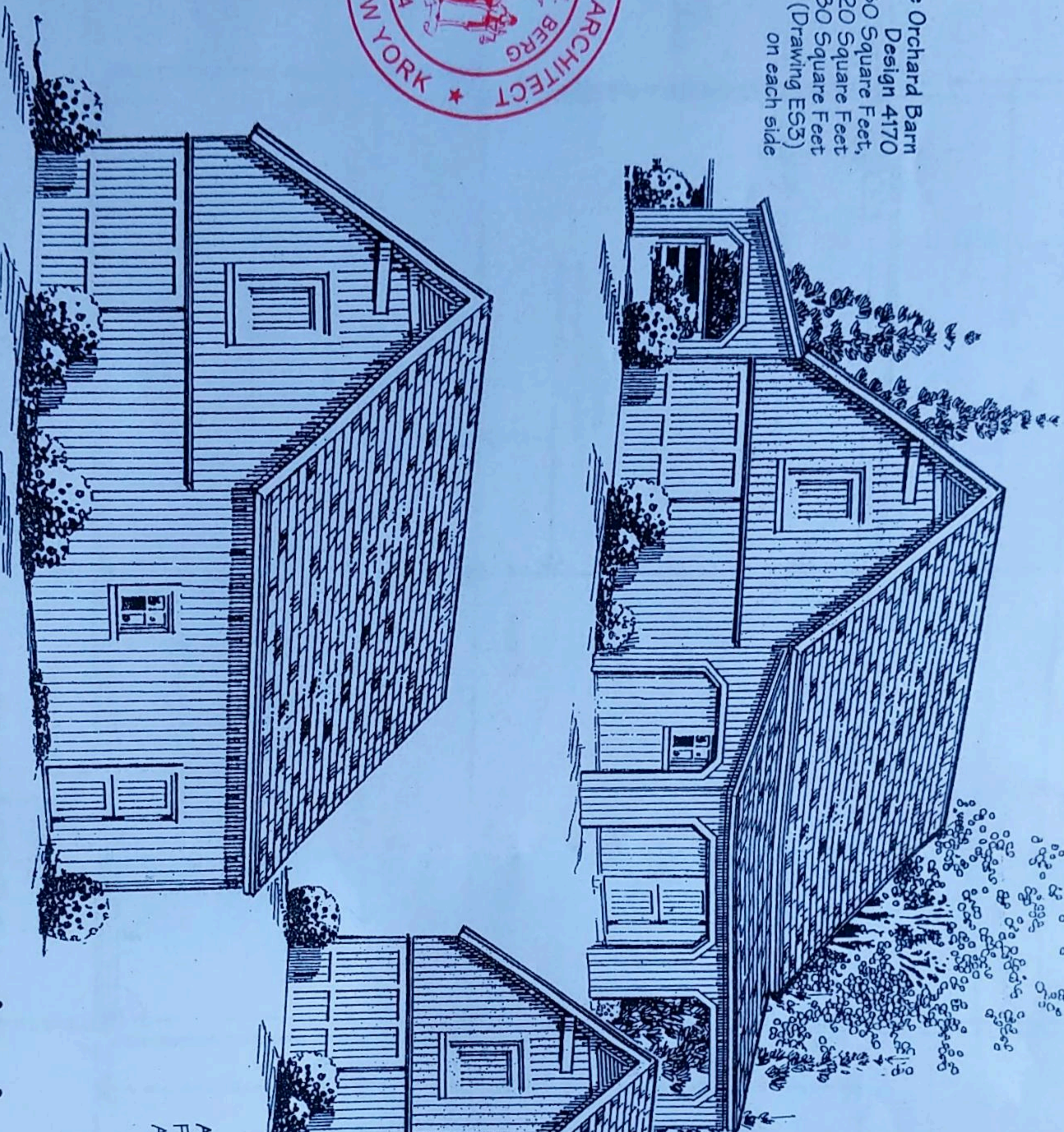
Design Set #417, Copyright 2020
Donald J. Berg, AIA
PO Box 698, Rockville Centre, NY 11571

Customize your barn or garage with Expansion Sheds (Drawings ES1-ES5), a cupola, and your choice of exterior materials. See Drawings S1-S4 for just a few samples of some of the barns, garages and workshops that you can build with these drawings

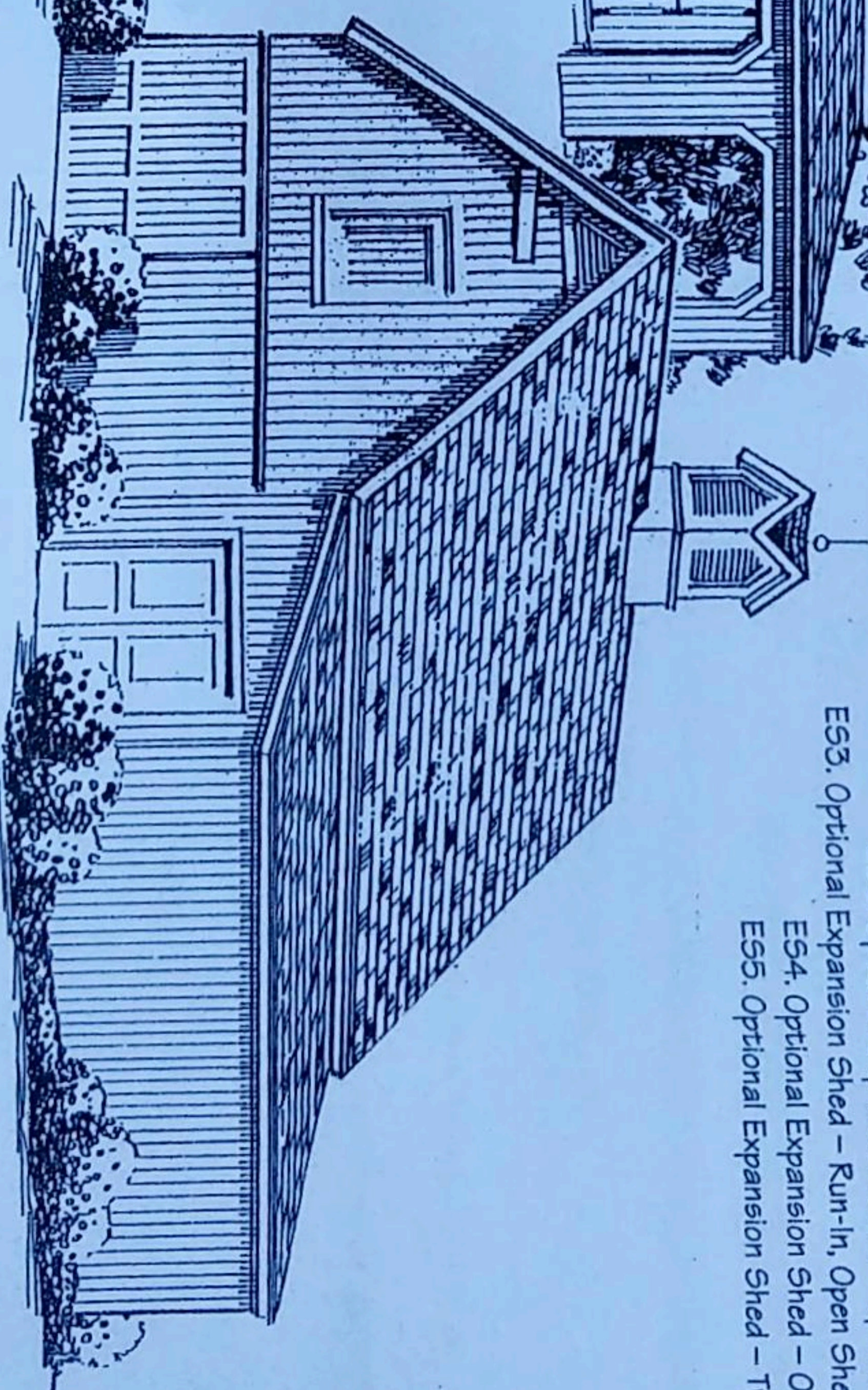
Drawings

- S1. Sample Barns and Workshops
- S2. Sample Car Barns & Garages
- S3. Sample Horse Barns
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- ES5. Optional Expansion Shed - Two Stall Stable

Apple Orchard Barn
 Design 4170
 Floor Area: 480 Square Feet,
 Storage Loft: 420 Square Feet,
 Sheltered Area: 480 Square Feet
 Add a 24' Shelter (Drawing ES3)
 on each side



Applewood Garage - Design 417Y
 Floor Area: 768 Square Feet, Storage Loft: 420 Square Feet
 Add a 24' Garage (Drawing ES1)



Applewood Barn
 Floor Area: 480 Square Feet, Storage Loft: 420 Square Feet

Applewood Barns, Garages & Shops

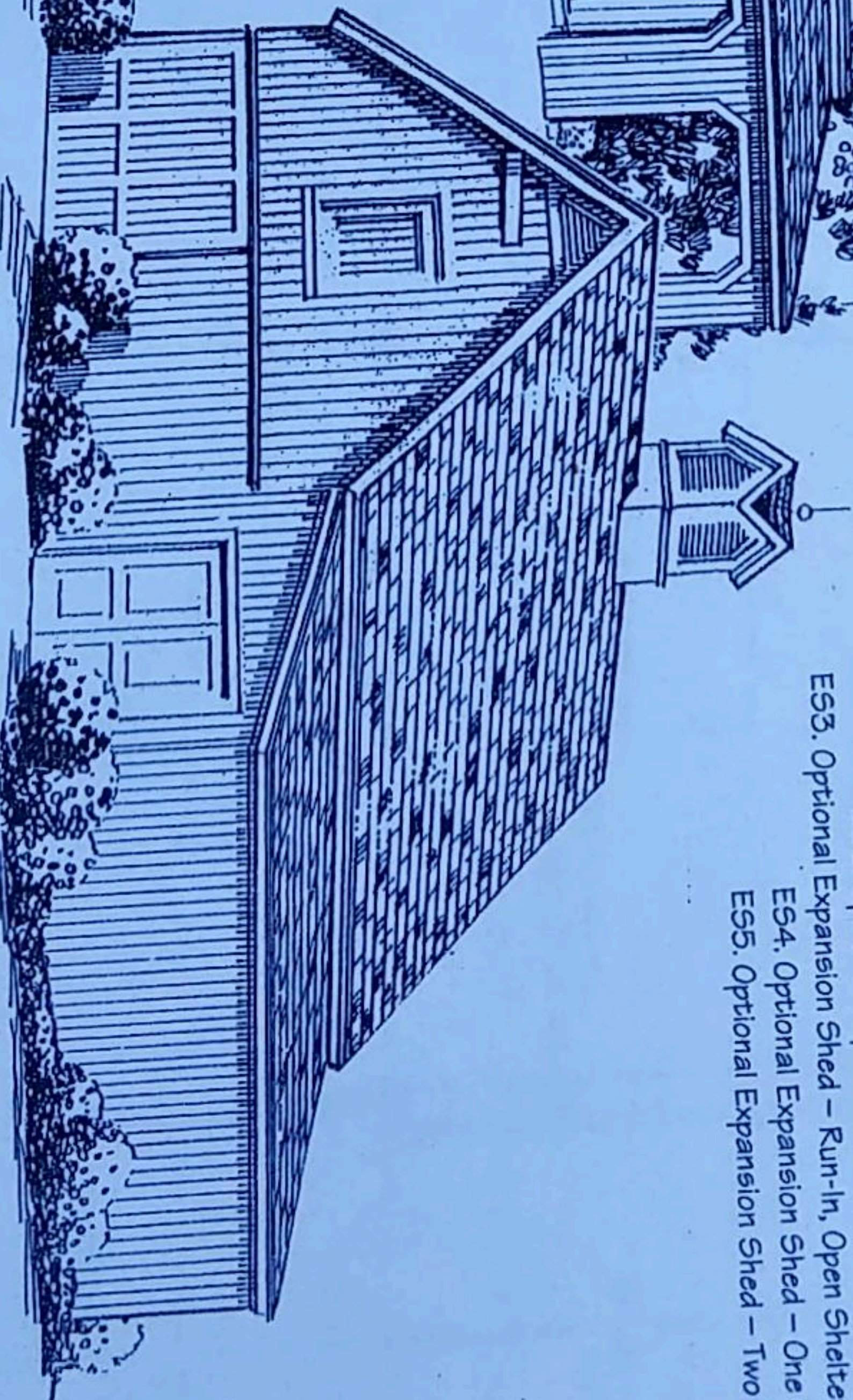
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Customize your barn or garage with Expansion Sheds (Drawings ES1-ES5), a cupola, and your choice of exterior materials.
See Drawings S1-S4 for just a few samples of some of the barns, garages and workshops that you can build with these drawings

Apple Orchard Barn
Design 4170
Floor Area: 480 Square Feet,
Storage Loft: 420 Square Feet
Sheltered Area: 480 Square Feet
Add a 24' Shelter (Drawing ES3)
on each side



Applewood Barn
Floor Area: 480 Square Feet, Storage Loft: 420 Square Feet

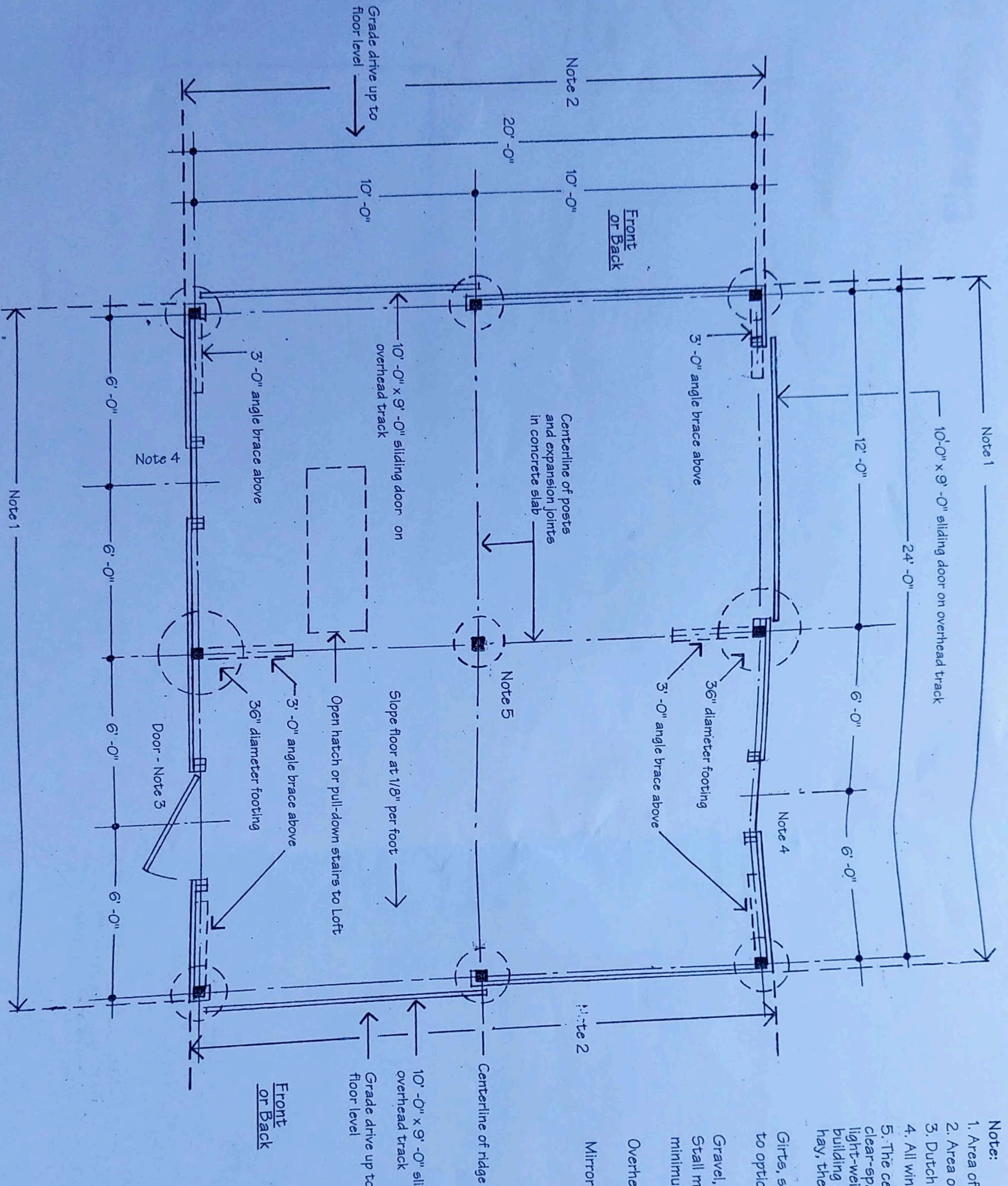


Applewood Garage - Design 4177
Floor Area: 768 Square Feet, Storage Loft: 420 Square Feet
Add a 24' Garage (Drawing ES1)

- Drawings**
- 51. Sample Barns and Workshops
 - 52. Sample Car Barns & Garages
 - 53. Sample Horse Barns
 - 54. Sample Multi-Use Horse Barns
 - 1 & 2. Notes, Terms & Specifications
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 - ES4. Optional Expansion Shed - One Stall Stable
 - ES5. Optional Expansion Shed - Two Stall Stable

Applewood Barns, Garages & Shops

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- Note:
1. Area of optional 24' Expansion Shed (See Drawings ES1-ES6)
 2. Area of optional 20' Expansion Shed (See Drawings ES1-ES6)
 3. Dutch Doors should be 4'-0" x 3'-0" over 4'-0" x 4'-4" on strap hinges
 4. All windows should be 2'-6" x 2'-6" and may be fixed, awning or casement
 5. The center post shown is recommended, but may be omitted if a clear-span interior space is required and if the Loft is intended for light-weight storage. Although it's never safe to store hay in the same building as animals, many owners do. If the Loft will be used to store hay, the center post is required.

Girts, siding, doors and windows, between posts, may be omitted for access to optional Expansion Sheds

Gravel, tamped earth or clay may be substituted for the concrete floor slab. Stall mats should be installed over concrete in the stall areas. Provide a minimum of 8" of clean gravel, for drainage, below any floor material.

Overhead doors may be substituted for sliding doors and track.

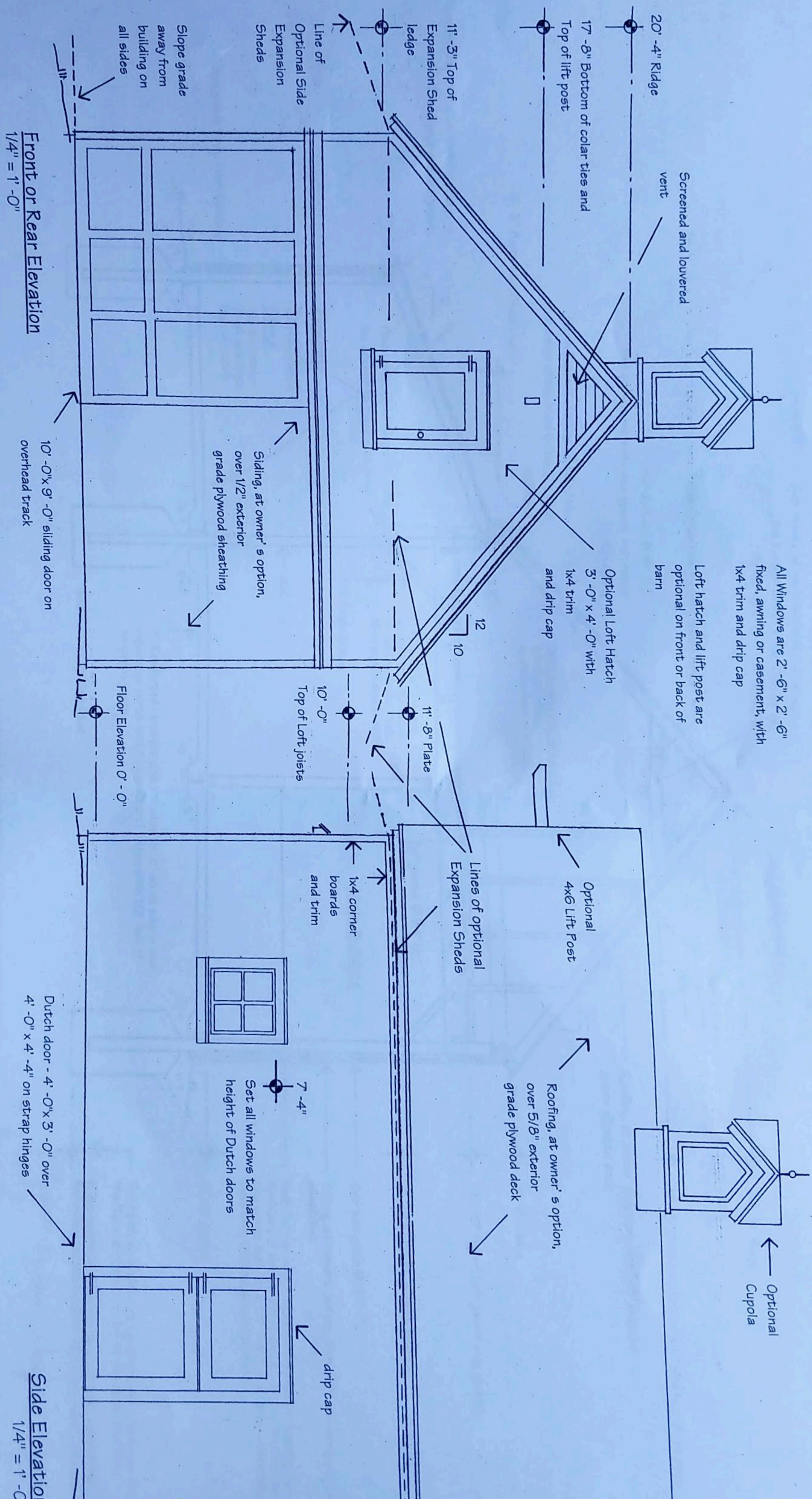
Mirror this plan for other orientations

All posts are 6x6 Pressure Treated

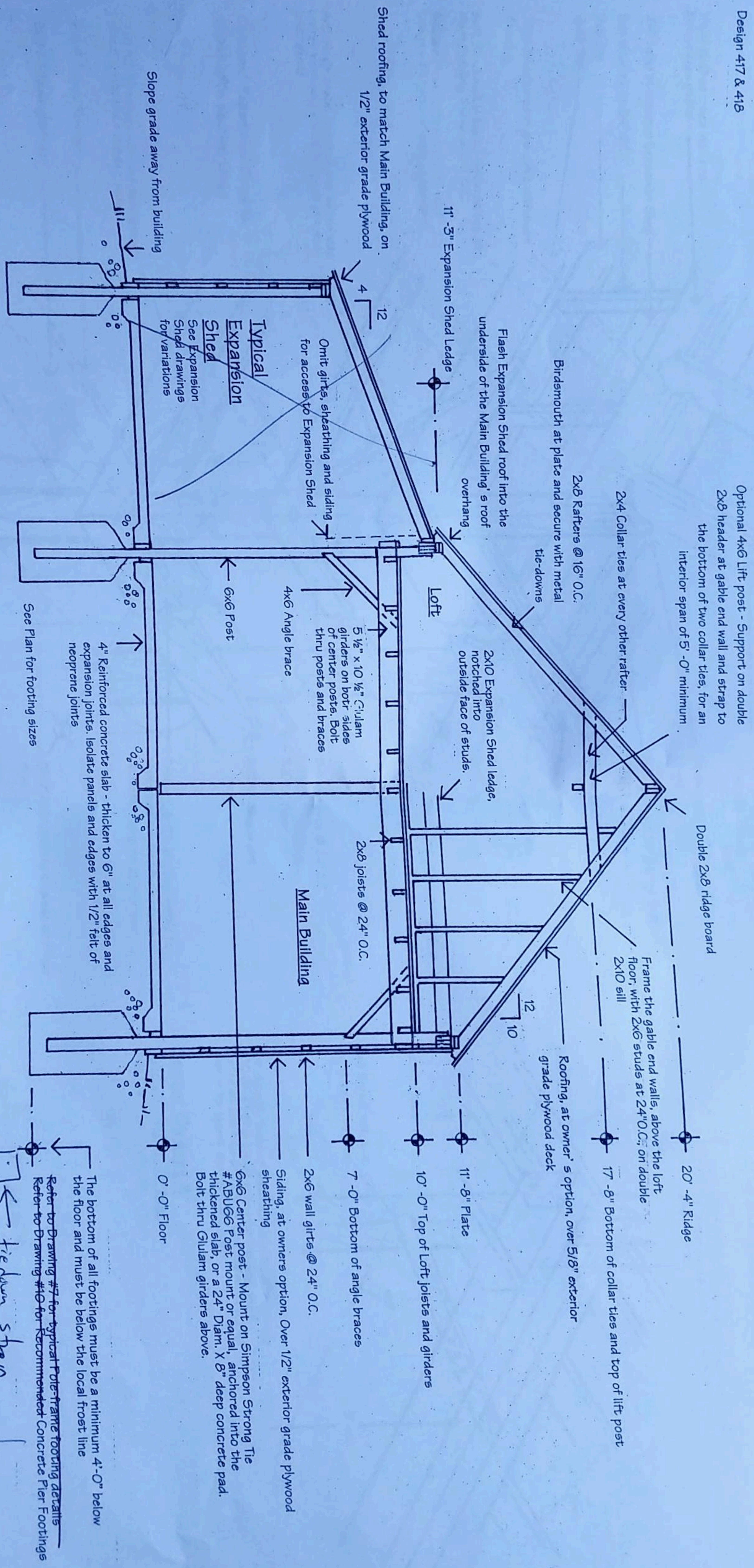
Footings are 24" diameter, unless noted

Floor Plan 3

1/4" = 1'-0"



Substitute 2' - 6" x 2' - 6" window for Loft hatch above Expansion Shed. See Drawing 3 for Loft window



Loft floor may be 5/8" exterior grade plywood or 1x6 boards with 1/8" open joints between them

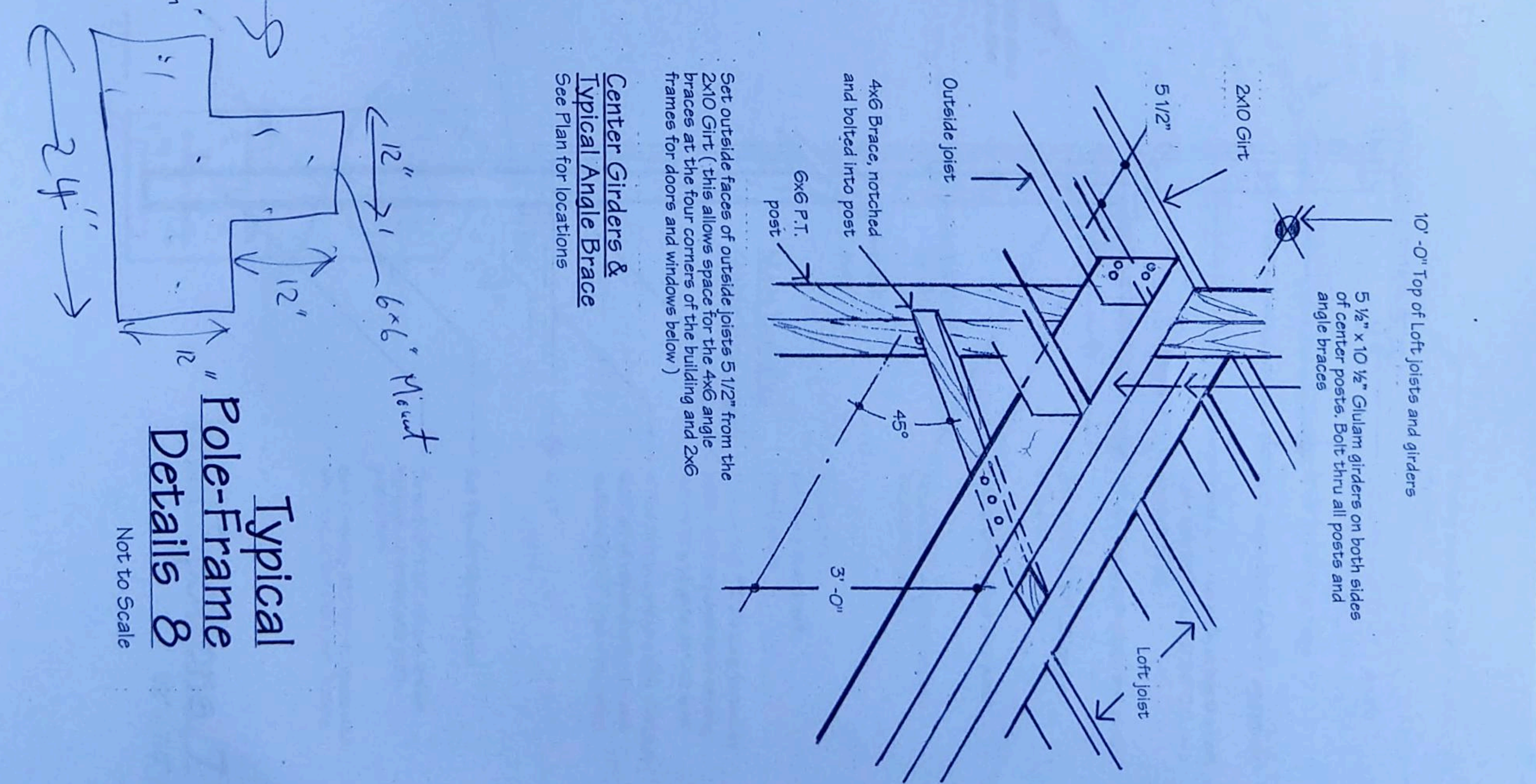
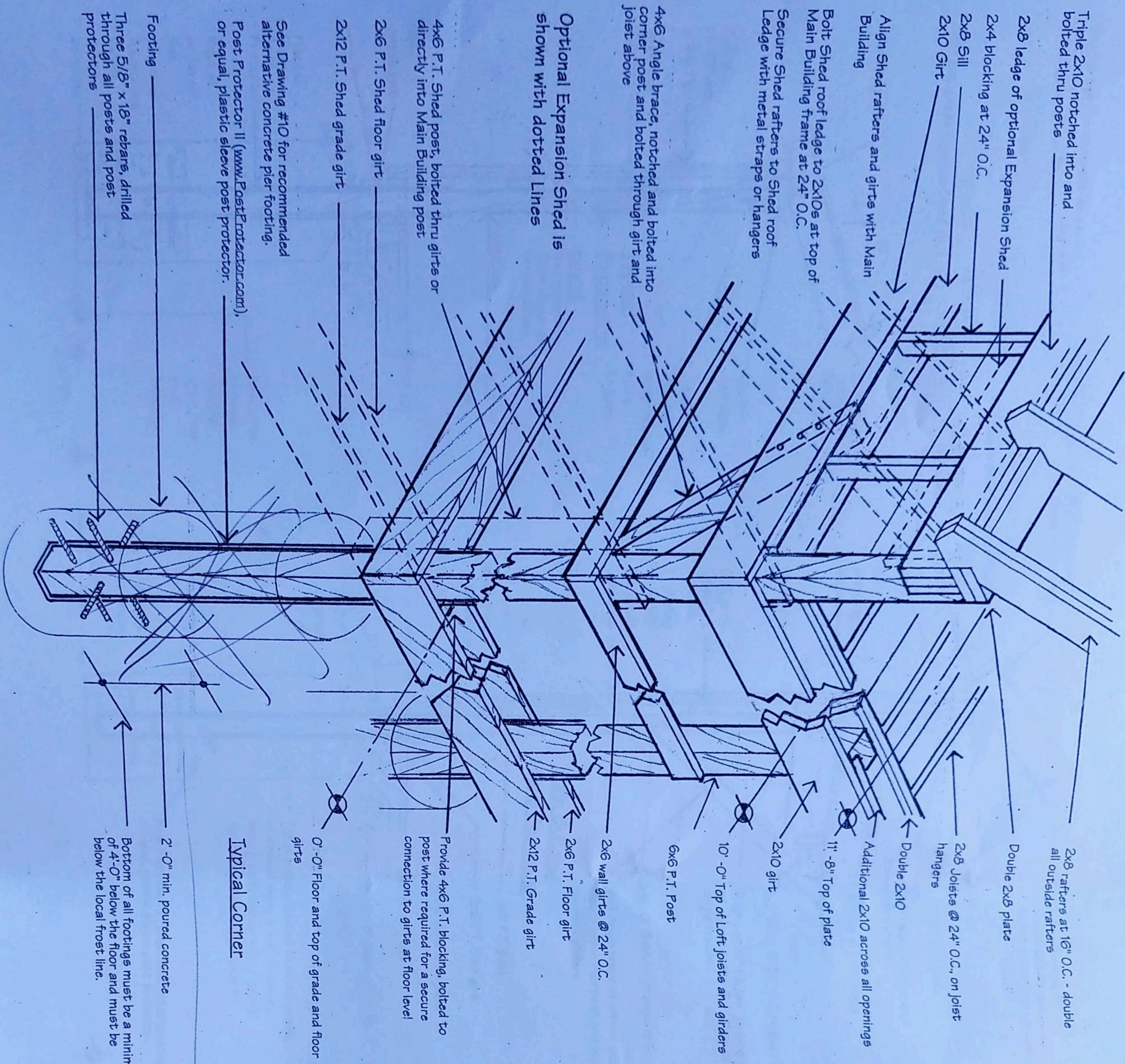
Floors of the Main Building and Expansion Sheds may be reinforced concrete, as shown, tamped earth, clay or gravel. Provide a minimum of 8" clean gravel fill, for drainage, below all floors

The center post shown is recommended, but may be omitted if a clear-span interior space is required and if the Loft is intended for light-weight storage. Although it's never safe to store hay in the same building as animals, many owners do. If the Loft will be used to store hay, the center post is required.

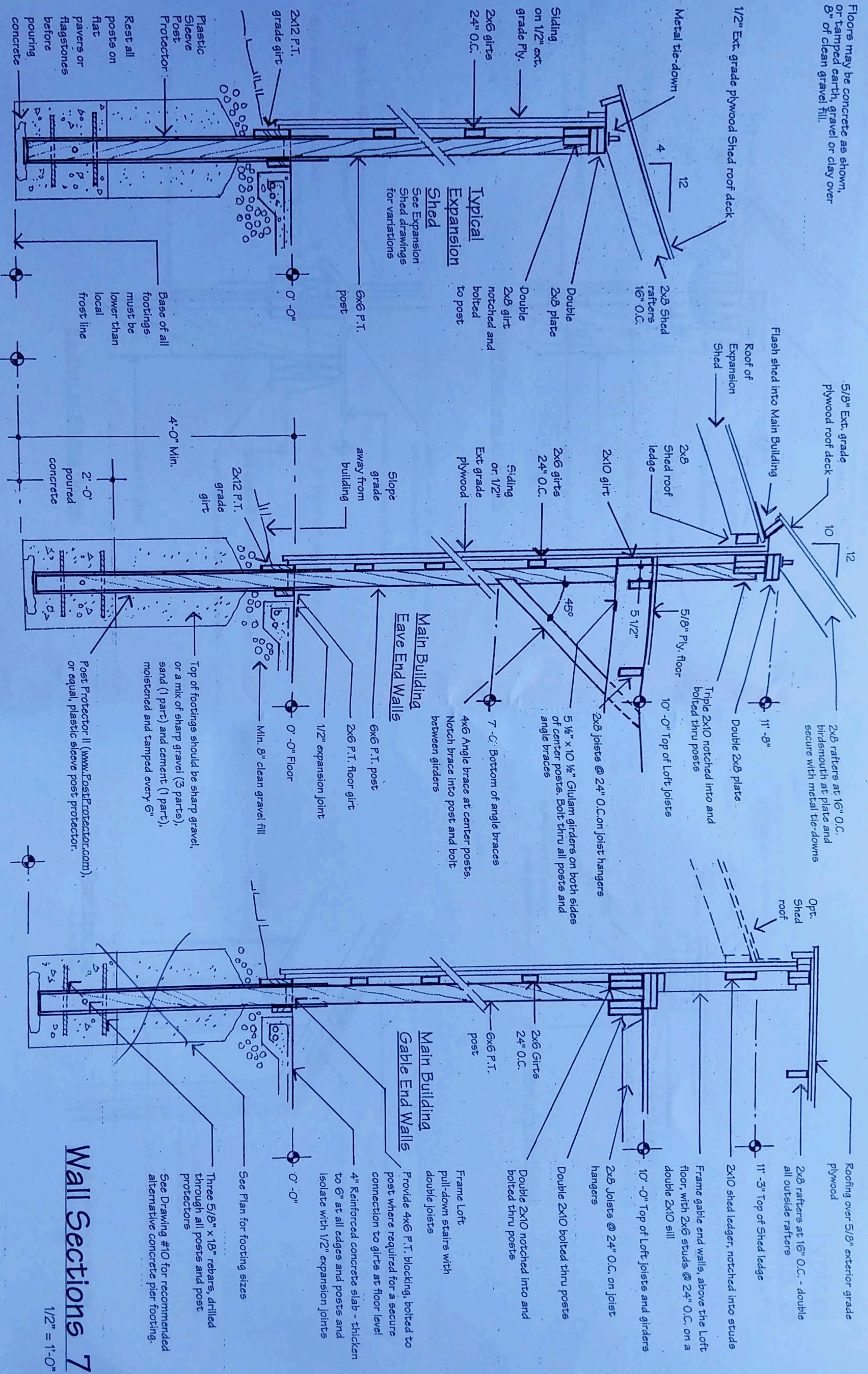
Refer to Drawing #7 for typical Post-frame framing details
Refer to Drawing #10 for Recommended Concrete Pier Footings

Framing Section 6

1/4" = 1'-0"

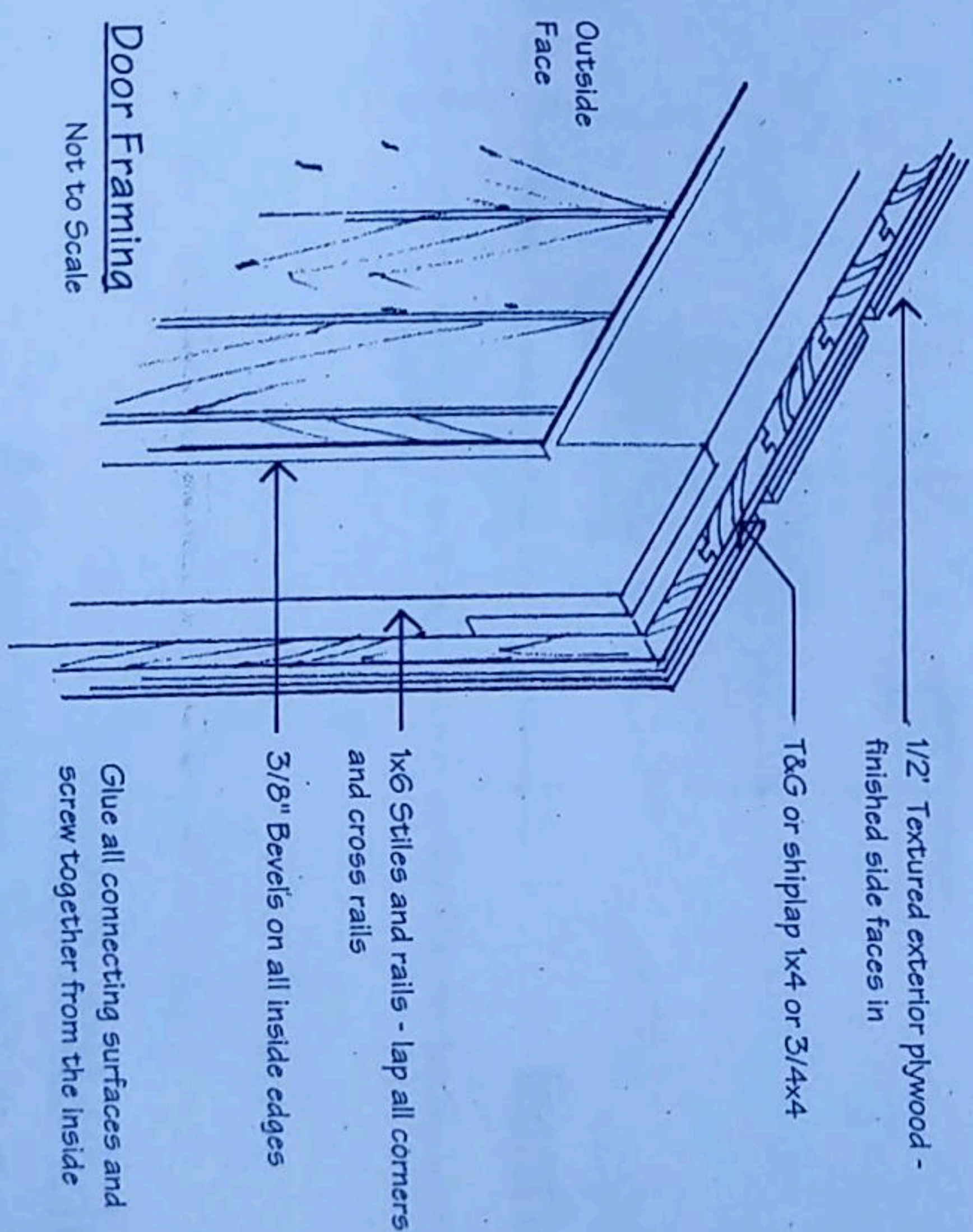
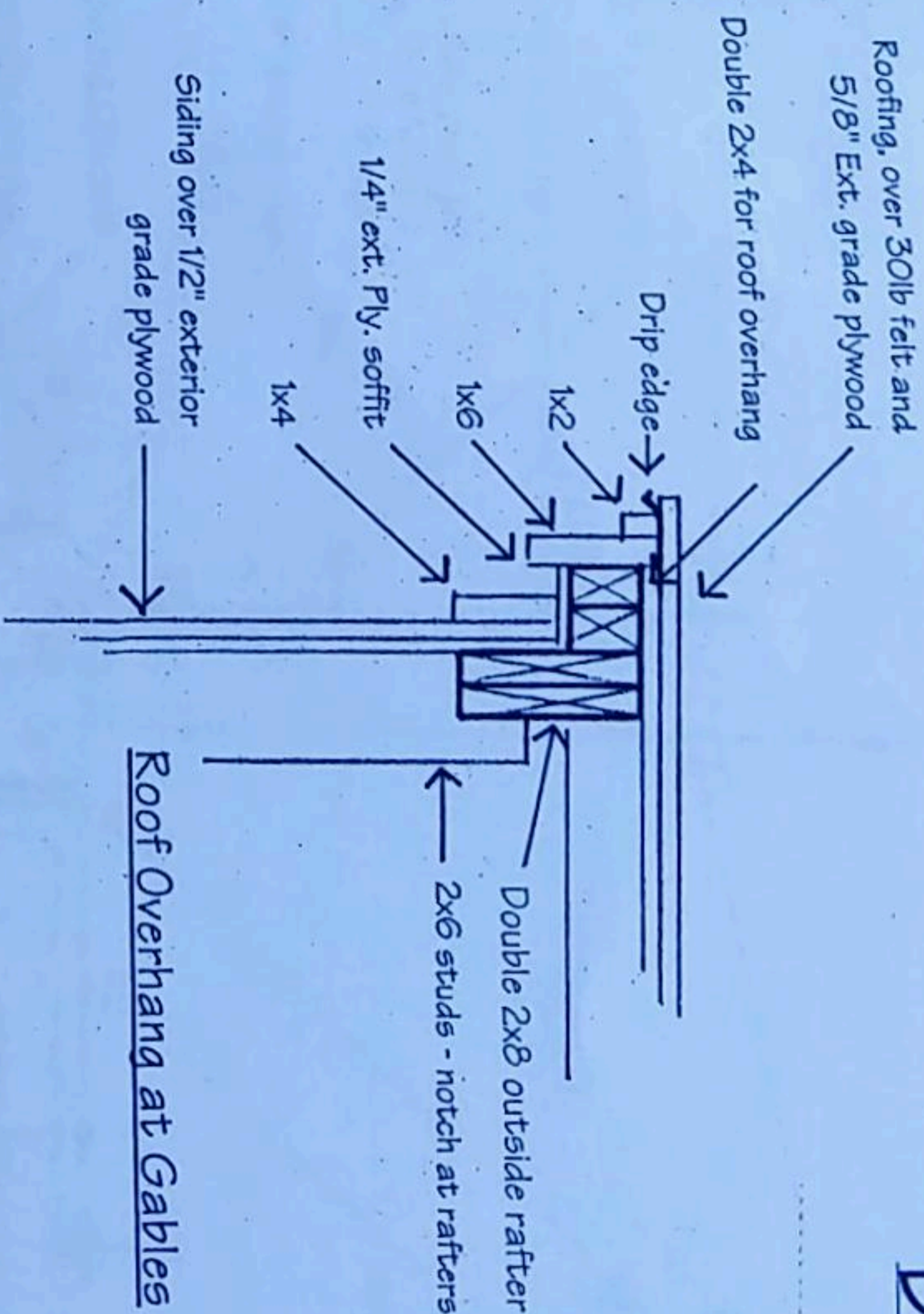
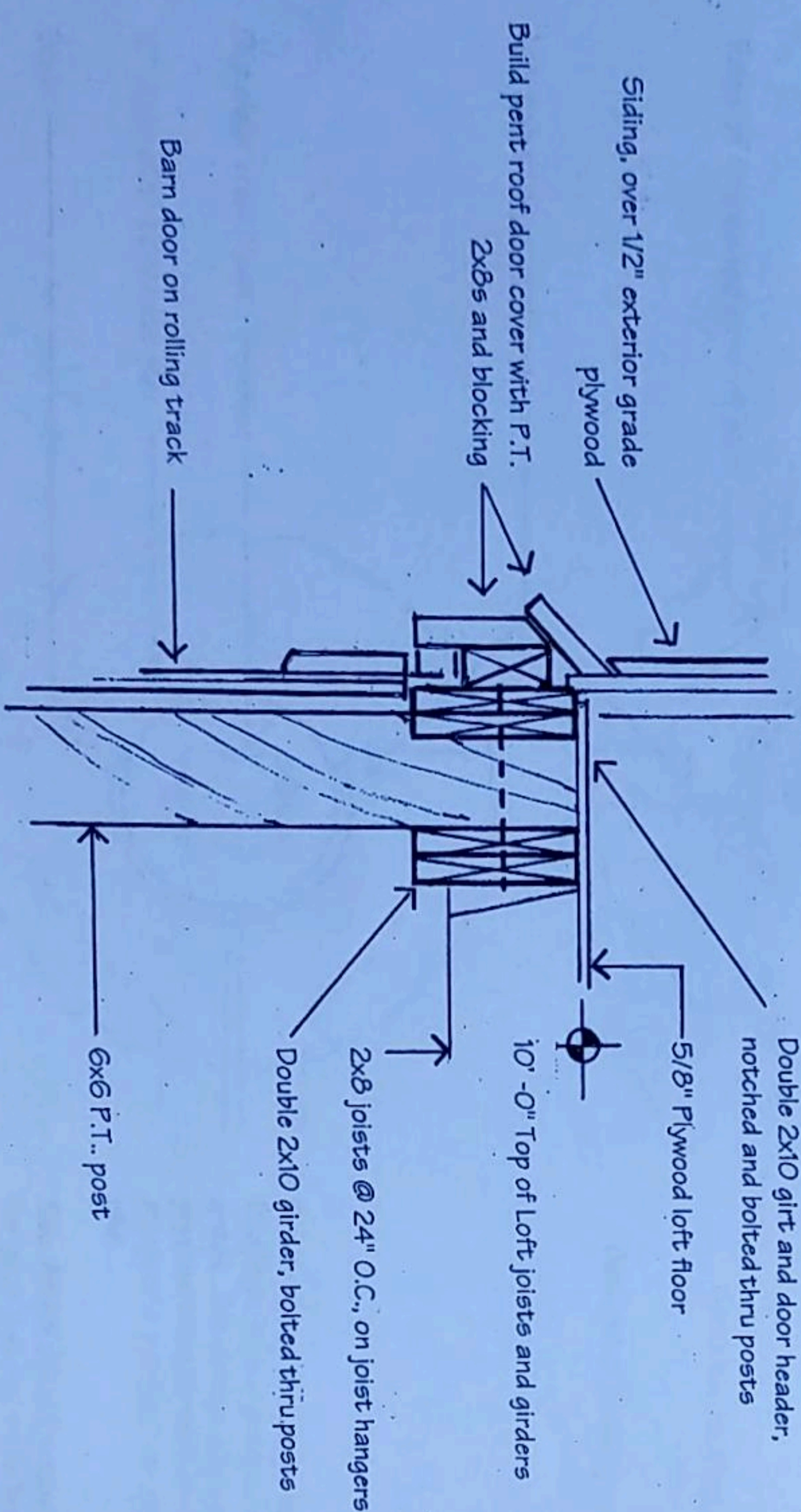
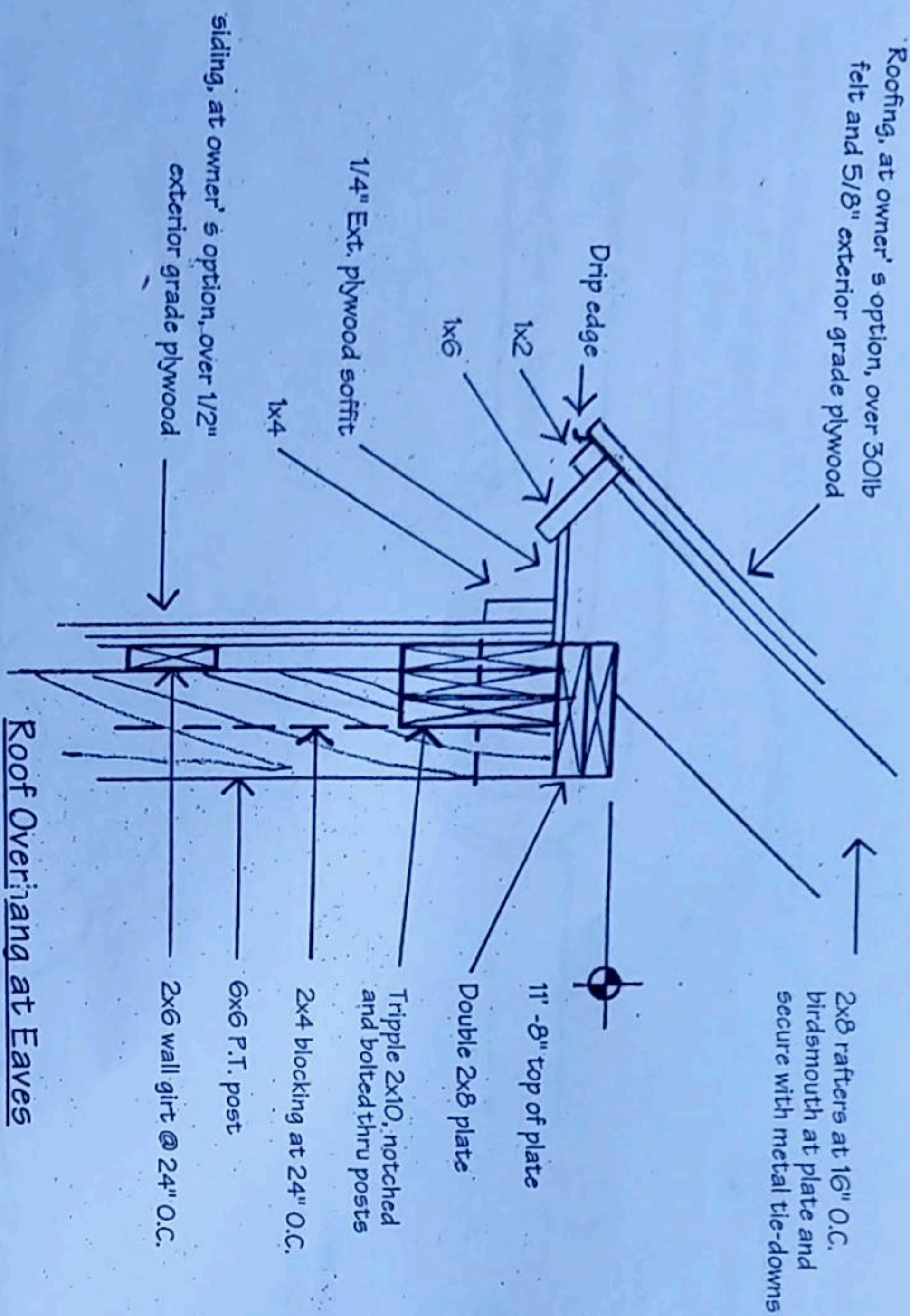


Floors may be concrete as shown, or tamped earth, gravel or clay over 8" of clean gravel fill.



Wall Sections 7

1/2" = 1'-0"



Typical Details 9
1" = 1'-0"