



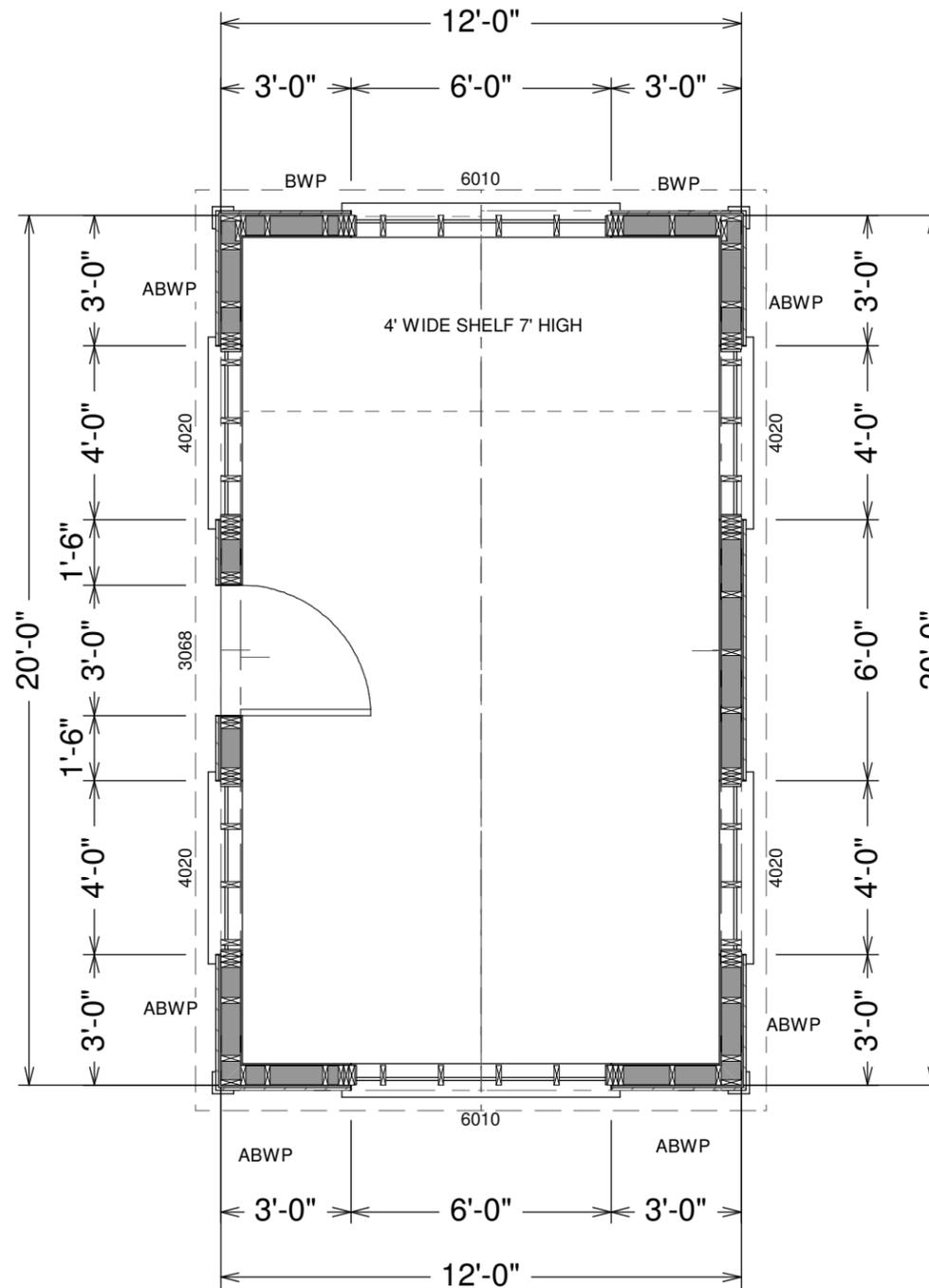
BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS. BARN TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

To the best of my knowledge these plans are drawn to comply with owner's and/ or builder's specifications and any changes made on them after prints are made will be done at the owner's and / or builder's expence and responsibility. The contractor shall verify all dimensions and enclosed drawing. SDSCAD is not liable for errors once construction has begun. While every effort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter. All calculations and member sizing should be verified for your building by a certified building official.

## #G457a 12 x 20 x 8 Gentleman Bunkhouse Shed By SDS-CAD Specialized Design Systems

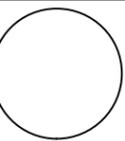
Page 1	Title Main Floor Plan
Page 2	Elevation Views
Page 3	Foundation Plan & Pictorials
Page 4	Framing and Details
Page 5	Detail Page
Page 6	Materials List

30 year charcoal architectural shingles and cedar clapboard siding over structural panel. Nailing schedule is 6" on ends 12" on centers 6d nails. Framing is 2" x 6" on 16" centers. 8' ceiling height.



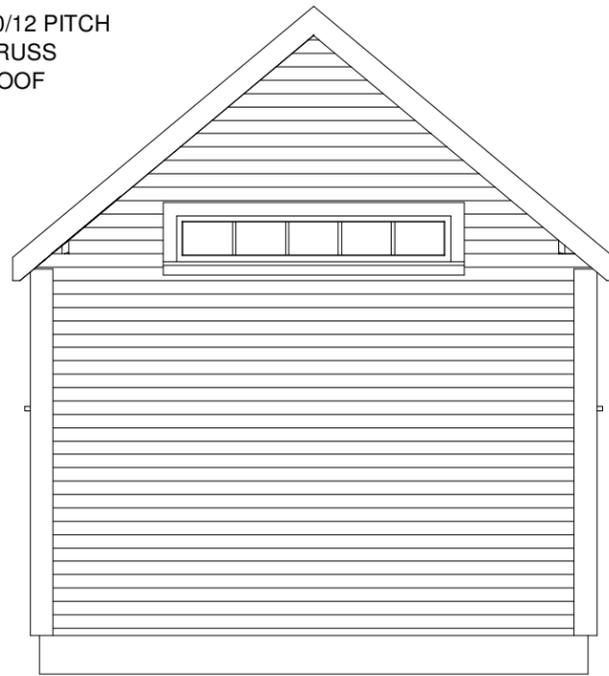
SCALE 1/4"=1'

### BARN MAIN FLOOR PLAN



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10/12 PITCH  
TRUSS  
ROOF



REAR ELEVATION

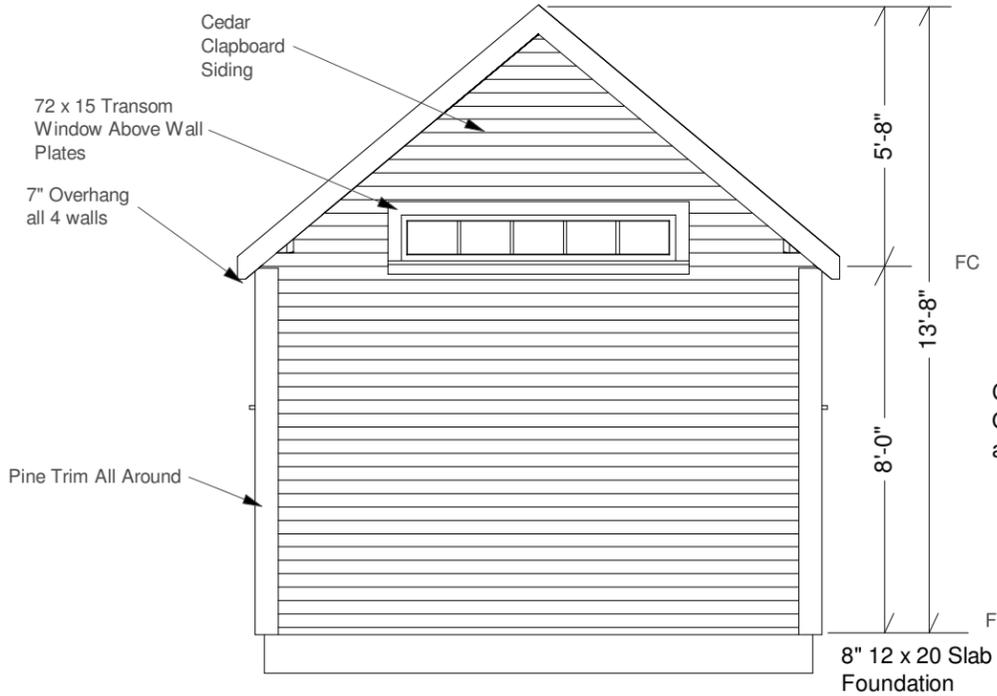
Ridge Vent and Ridge Caps



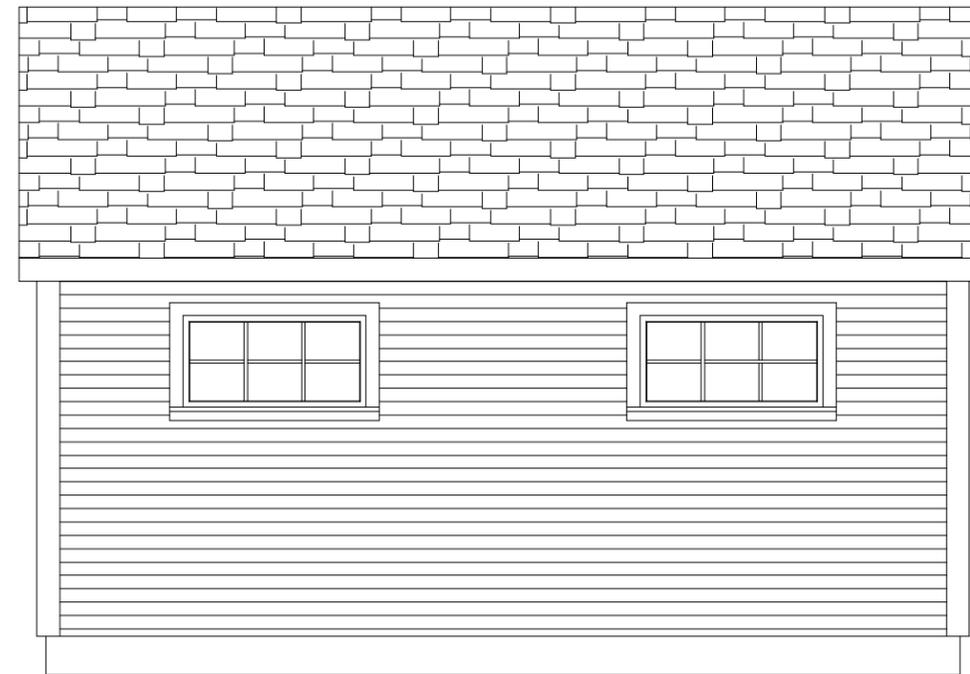
LEFT ELEVATION

Keystone trim over windows and at peak not shown see sample photo

30 Year  
Charcoal  
Architectural  
Asphalt Shingles



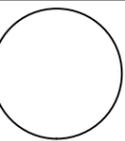
FRONT ELEVATION



RIGHT ELEVATION

SCALE  
1/4"=1'

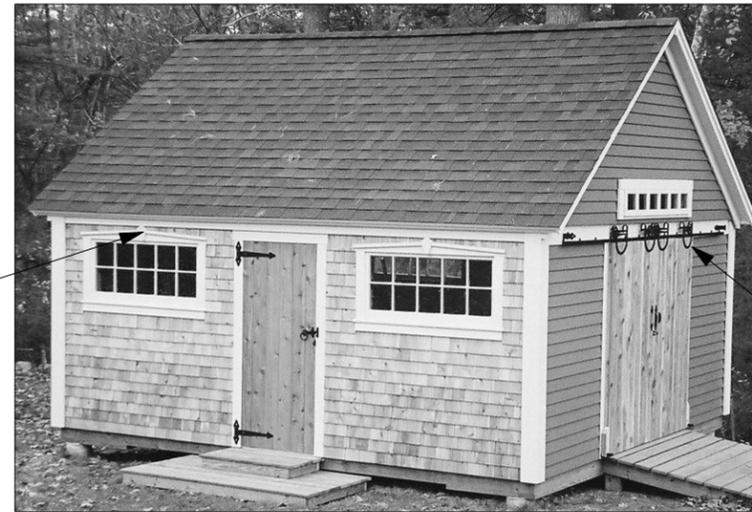
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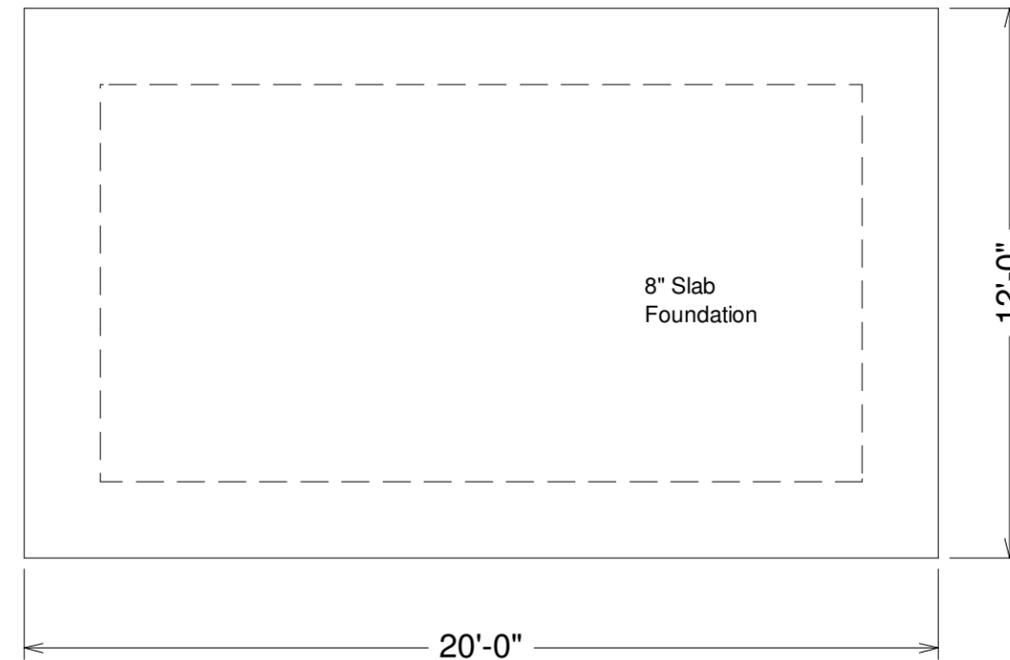
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12x20 Colonial Gentleman's Barn Design Notes

- 1) Built on 8" concrete slab 12'x20', with "J" anchors,
- 2) 2x6 Pressure treated bottom wall plates,
- 3) 2x6 kiln dried wall studs 16" on center, wall height 7'.10",
- 4) 10/12 Roof trusses, 16" on center,
- 5) One, 72"x76" Door opening ( gable end wall for double rolling pine doors ),
- 6) One, 72"W x 15"H, Transom window opening ( above top wall plates, over door, for true divided light transom ),
- 7) Four, 48"W x 24"H window openings ( two on each load bearing wall for tilt in sash windows ),
- 8) 7" roof overhand all four walls
- 9) Cedar Clapboard all four walls,
- 10) Keystone trim over windows and at roof peak,
- 11) Reproduced of old fashioned style antique horse shoe rolling / sliding door hardware,
- 12) 30yr Architectural roof shingles ( Charcoal )
- 13) Ridge Vent and ridge caps,
- 14) Pine trim all around,
- 15) Interior storage loft, 4' x 12', ( across back wall, 7' off the floor )



**PICTORIAL VIEW**



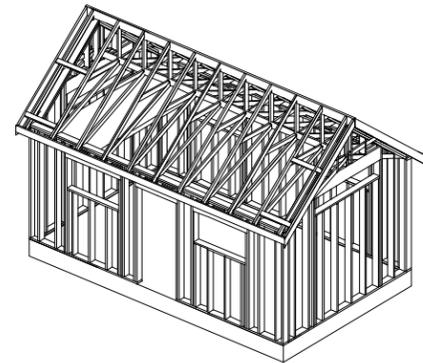
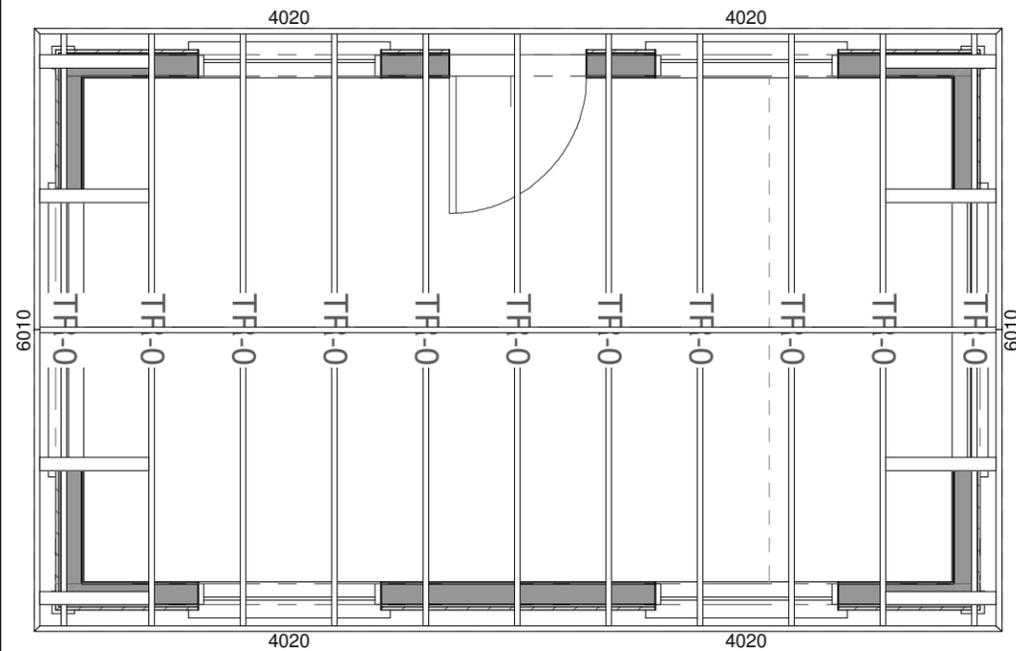
**FOUNDATION PLAN**

SCALE 1/4"=1'

**Concrete:**

1. All slabs are to be min 8" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-66, Type II cement, 2500 psi at 28 days, 5" maximum slump.
3. If required reinforcing to be ASTM A615-Bars with Fy=60 ksi lap 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 1500 psf, Fc 2500 psi for quality only.
5. Anchor bolts shall be A-307 embedded 7" minimum into concrete or masonry grout.

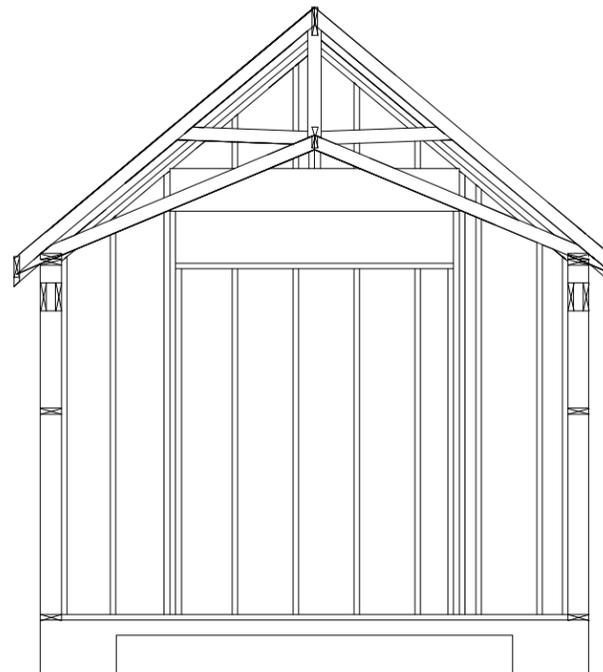
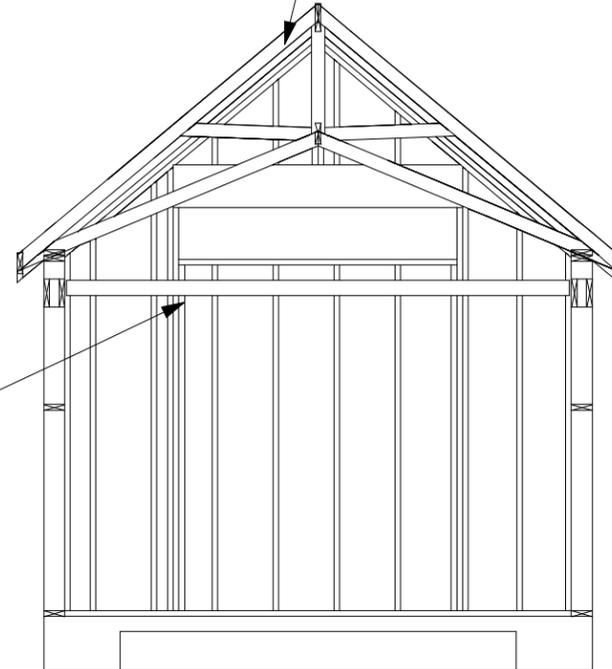
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Framing views are for basic reference only

Optional  
4' Wide 7' High Shelf

Optional 10/12 Pitch Scissor Engineered Truss For Larger Storage



SCALE 1/4"=1'

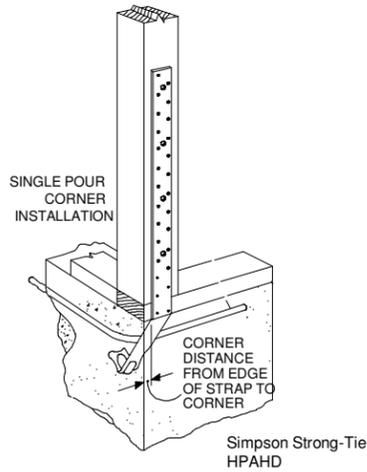
General framing: (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction)
  - 2'-0" to 4'-0" Span 2-2x4's
  - 4' + to 6'-0" Span 2-2x6's
  - 6' + to 8'-0" Span 2-2x8's
  - 8' + to 10'-0" Span 2-2x10's
  - 10' + to 12'-0" Span 2-2x12's or as noted on plan
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
  - a. Simpson WB 126 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
  - b. Plywood sheathing of a minimum thickness of 7/16 inch.
3. Fire stopping:
  - a. Fireblock stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc. Firestopping shall consist of 2" nominal lumber.
  - b. Firestop openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x4" studs at 16" o.c. Interior wall framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
6. Shear wall to be 7/16" Sheathing, see detail.
7. All stress grade lumber shall comply with WCLA specs and bear approval stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.

Roof Framing:

1. Fascia to be 2"x Douglas Fir.
2. For soffit size see details.
3. For spans and dimensions refer to floor plans.
4. Use Simpson H-1 hurricane anchors at each truss or rafter to wall connection.
5. Solid blocking required between joists, rafters, and trusses over all bearing walls. Such blocking shall be 1 1/2" minimum thickness and full depth of joists, rafters, or trusses.
6. Minimum header sizes shall be according to the header size table unless otherwise noted.
7. Basis of design roof live/snow load of 40 psf, and roof dead load of 15 psf.
8. Plywood roof decking to be Min 1/2" thick, 24/0, CDX or 5/8 wafer.
9. 4/12 Pitch Engineered Attic Scissor Trusses

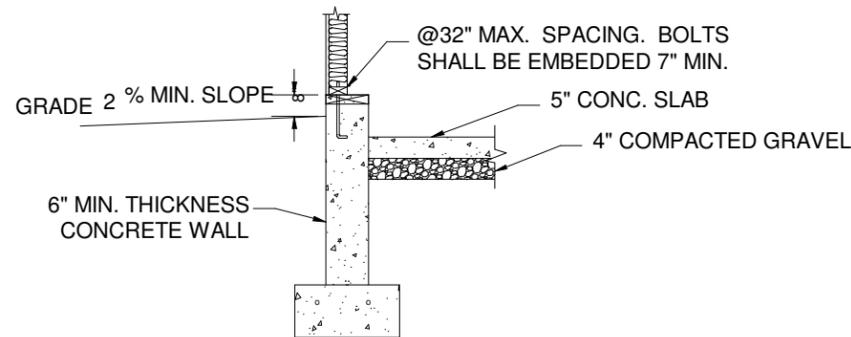
WALL FRAMING SECTIONS



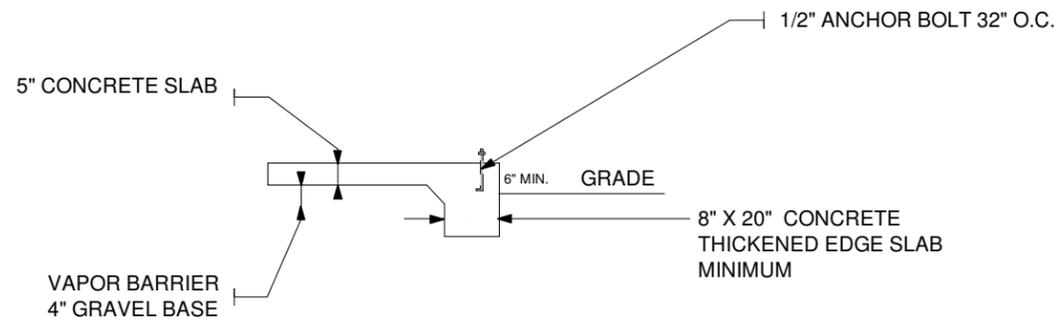
HPAHD straps for all (ABWP) Alternate Braced Wall Panels  
See additional detail for all (BWP) Braced Wall Panels

### TYPICAL ALTERNATE BRACED WALL PANEL (ABWP)

**NOTE: TYPICAL DETAILS FOR CONSTRUCTION TO MEET BUILDING REQUIREMENTS. BARN TO BE BUILT AS PER LOCAL CODE REQUIREMENTS**



### Footing and concrete wall option



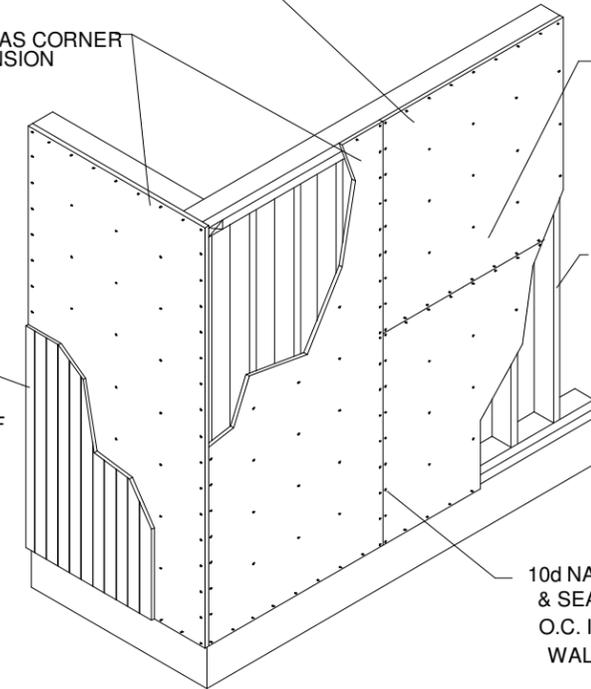
### Monolithic slab foundation option

CDX PLYWOOD SHEAR WALL INSTALLED W/ LONG DIMENSION ACROSS STUDS. STAGGER VERTICAL JOINTS

PANEL SHEATHING USED AS CORNER BRACING W/ LONG DIMENSION PARALLEL TO STUDS

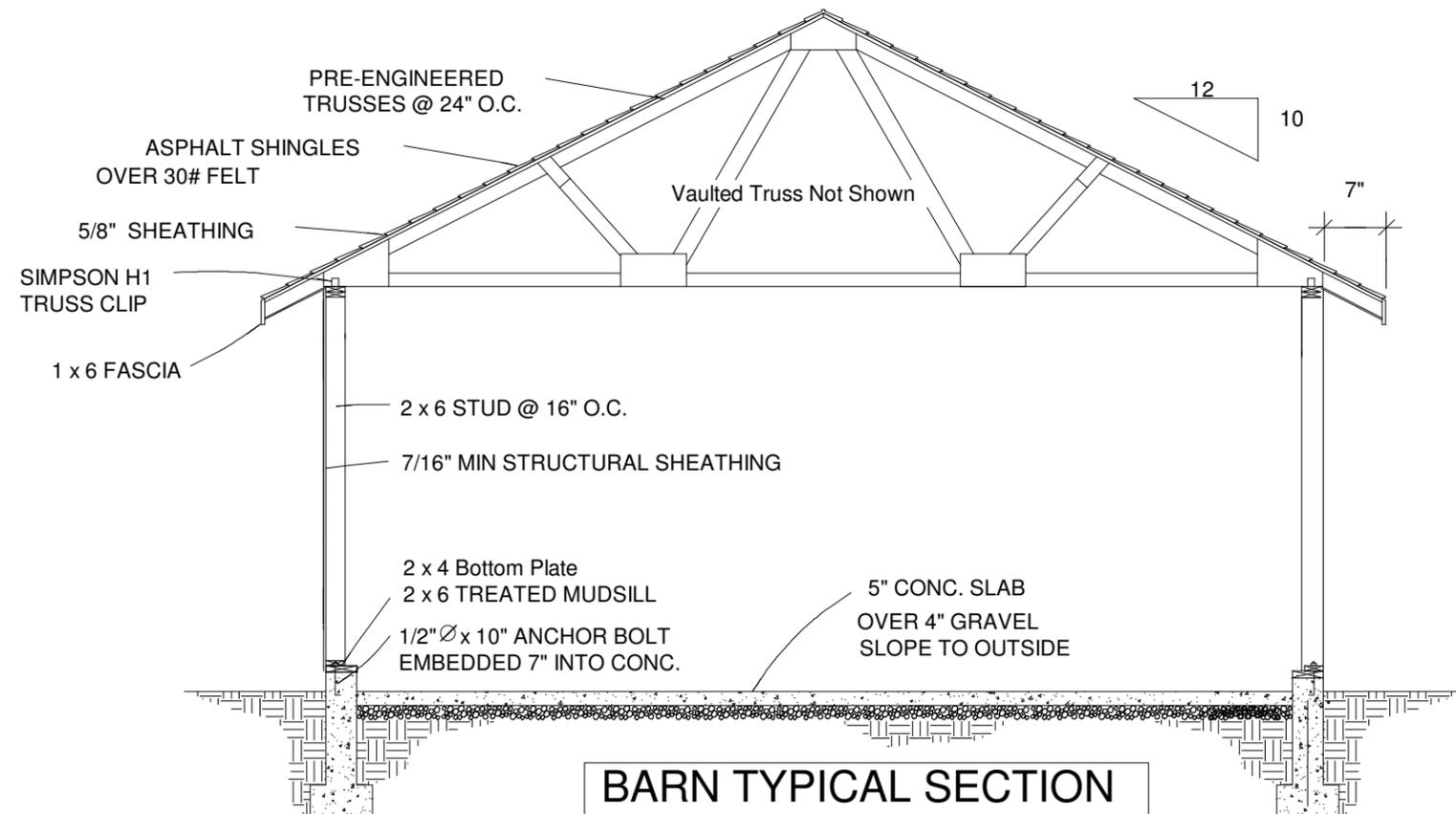
LEAVE 1/4" GAP @ EDGES & 1/8" GAP @ ENDS UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER

SIDING MATERIAL STRUCTURAL PANEL CAN ACT AS SIDING IF OF EXTERIOR GRADE

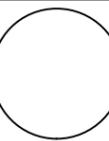


10d NAILS @ 6" O.C. AT EDGES & SEAMS AND 10d NAILS @ 12" O.C. IN FIELD U.N.O. ON SHEAR WALL SCHEDULE

### TYPICAL BRACED WALL PANEL (BWP)



### BARN TYPICAL SECTION



CLIENT	
DATE	
DRWN BY	
CHKD BY	
DATE	
REVISIONS	

JOB NO.	
DETAILS	
SHEET NO.	

