



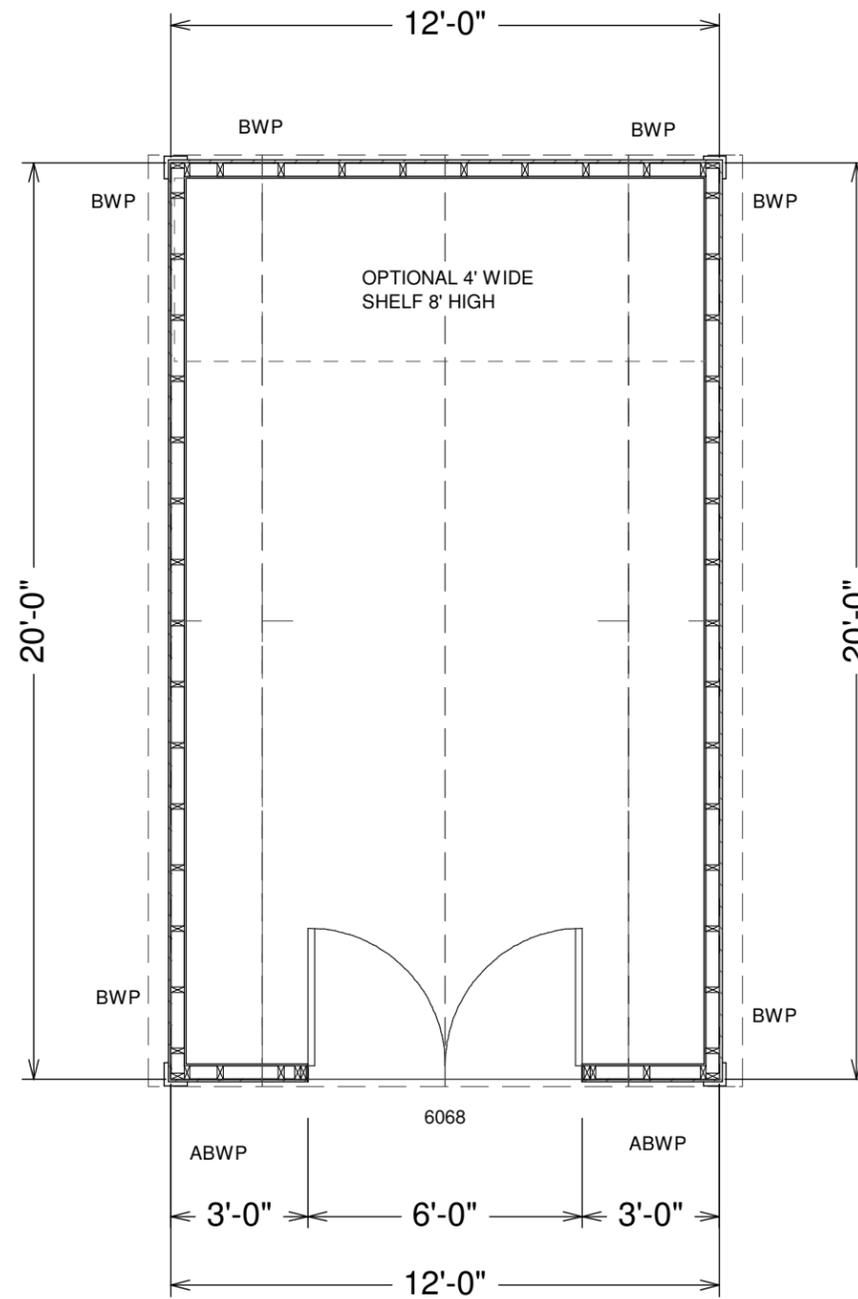
BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS. BARN TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

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 expense 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.

**#G484 12 x 20 x 8 Gambrel Shed**  
**By SDS-CAD Specialized Design Systems**

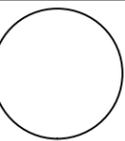
Page 1	Title Main Floor Plan
Page 2	Elevation Views
Page 3	Floor Plan & Pictorials
Page 4	Framing and Details
Page 5	Detail Page and Materials List

30 year architectural shingles and structural panel siding. Nailing schedule is 6" on ends 12" on centers 6d nails. Framing is 2" x 4" on 16" centers. 8' ceiling height.



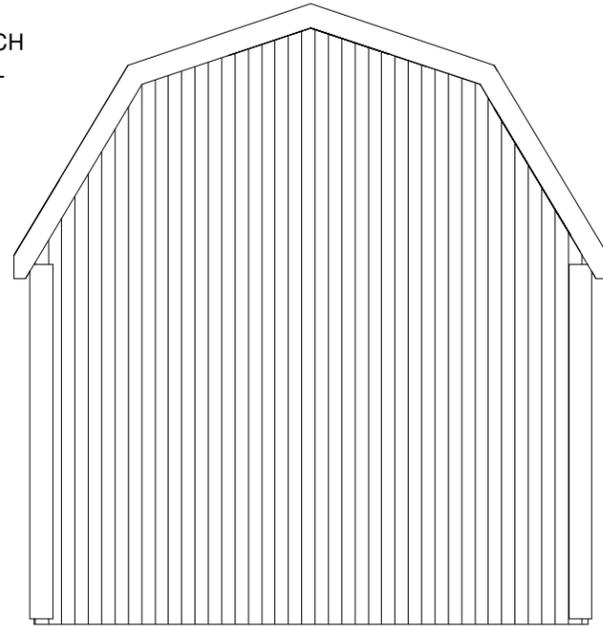
SCALE 1/4"=1'

**BARN MAIN FLOOR PLAN**



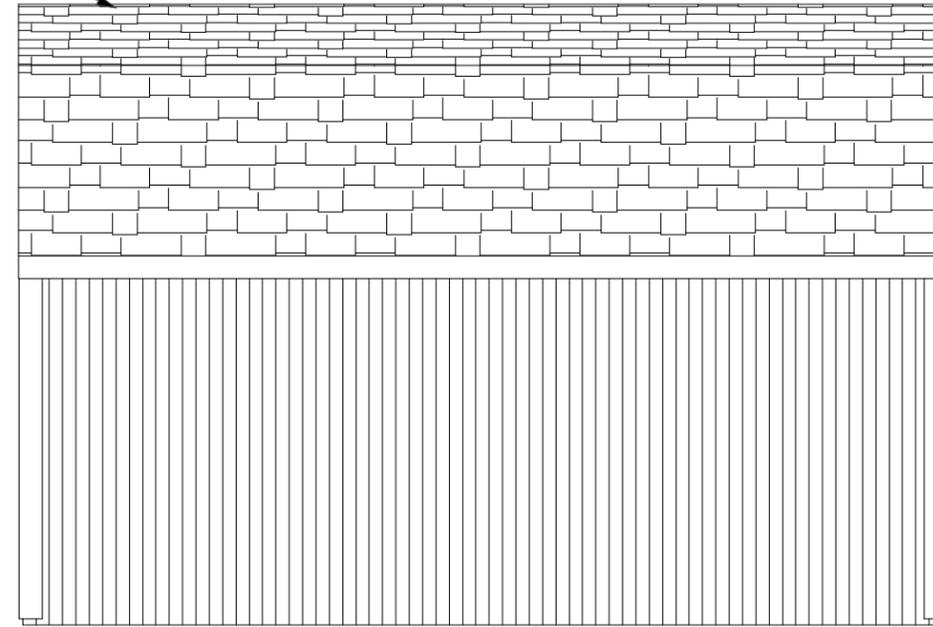
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4/12 and  
20/12 PITCH  
GAMBREL  
TRUSS  
ROOF



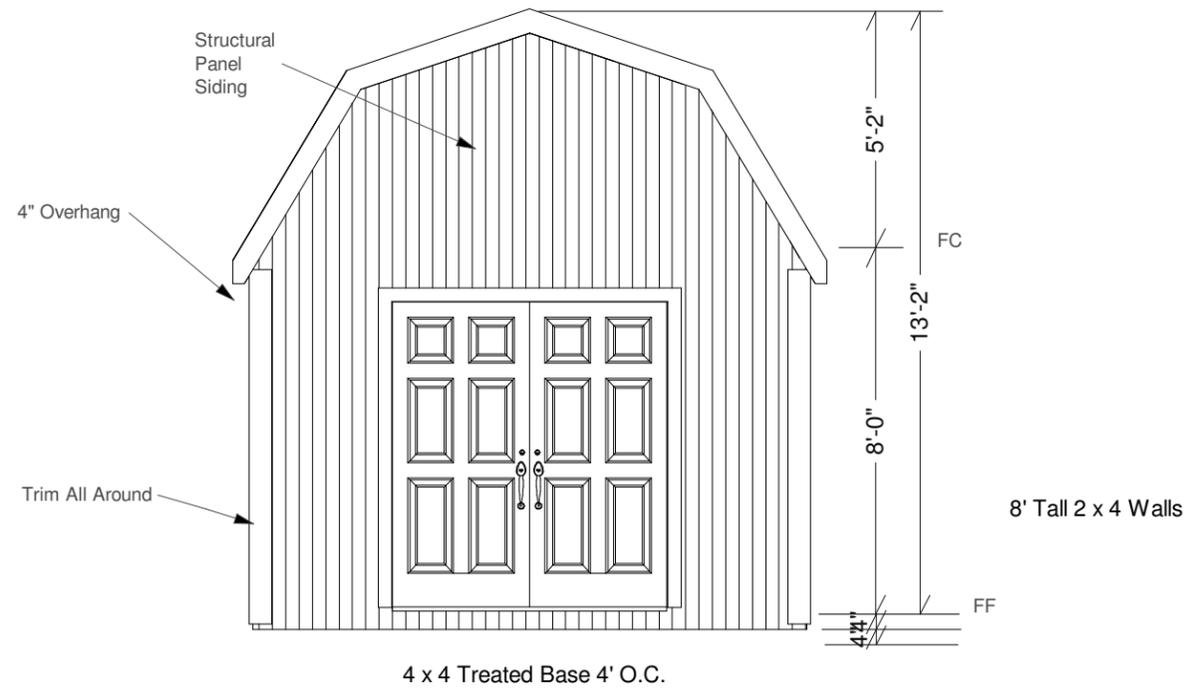
REAR ELEVATION

Ridge Vent or Ridge Caps

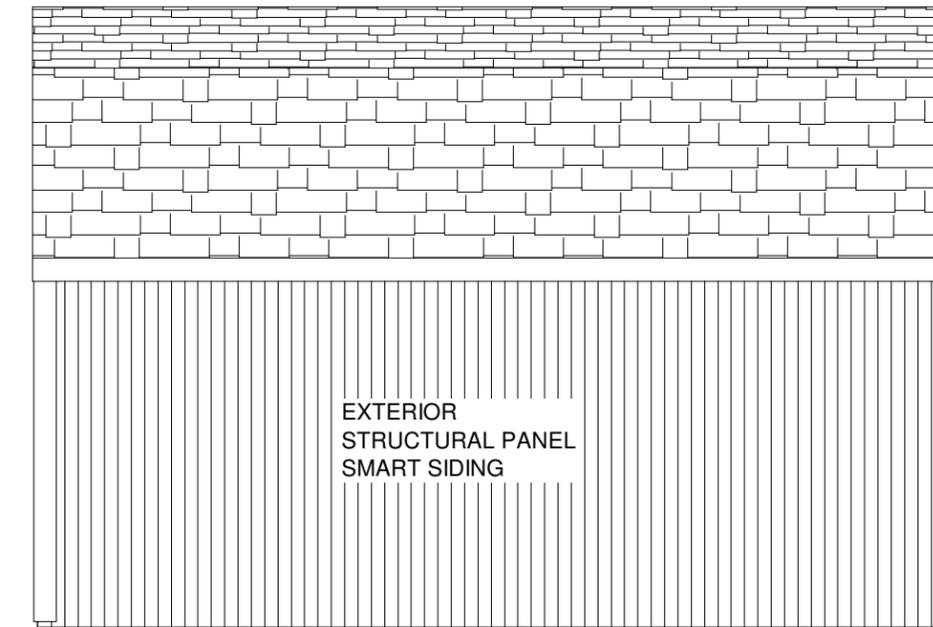


LEFT ELEVATION

30 Year  
Architectural  
Asphalt Shingles



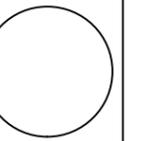
FRONT ELEVATION



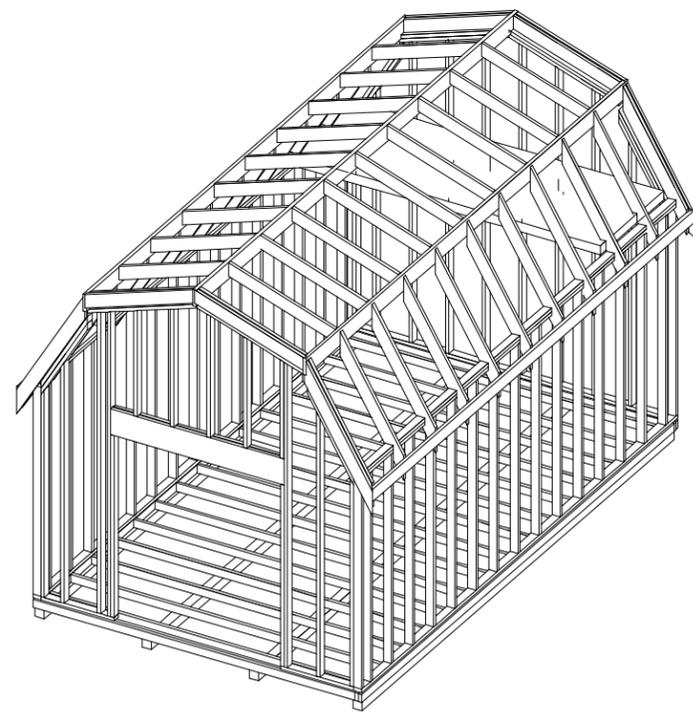
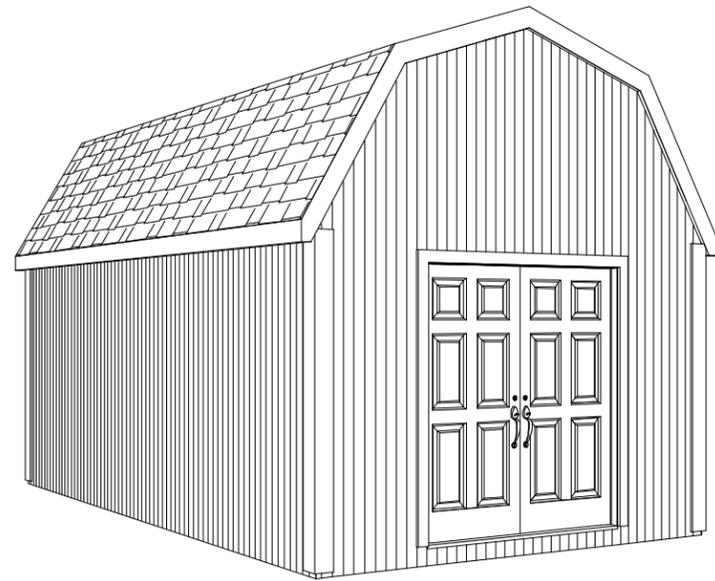
RIGHT ELEVATION

SCALE  
1/4"=1'

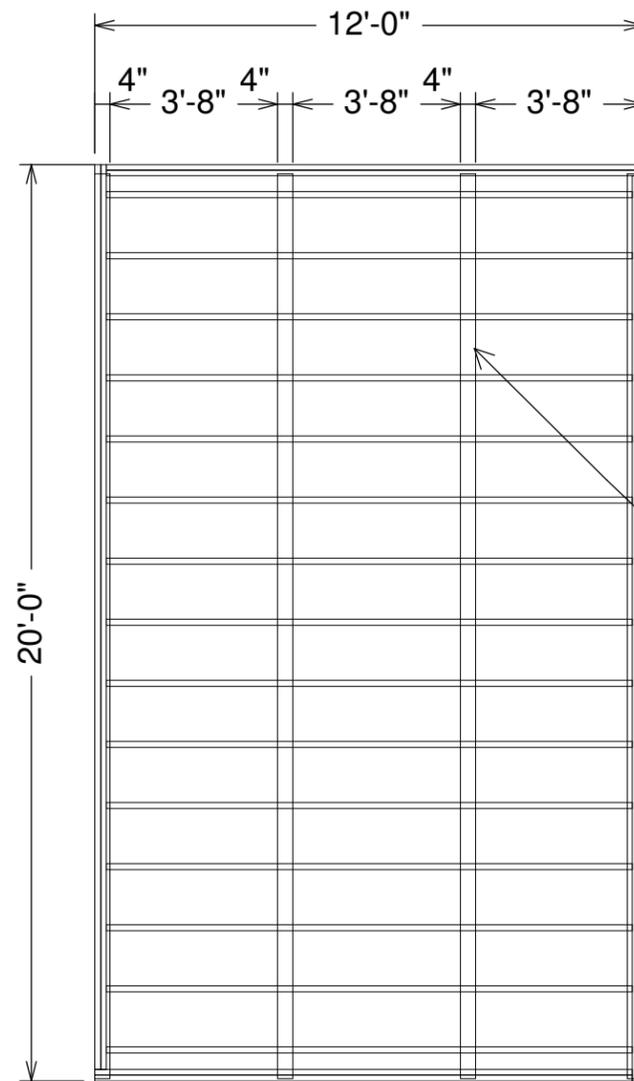
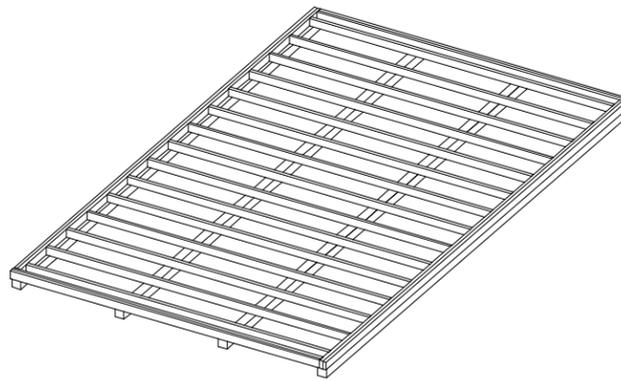
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PICTORIAL VIEW

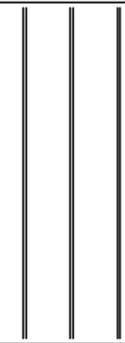
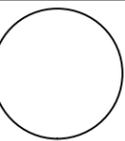


4 x 4 PT Fir Base  
4' O.C.  
2 x 4 Joists  
16" O.C.

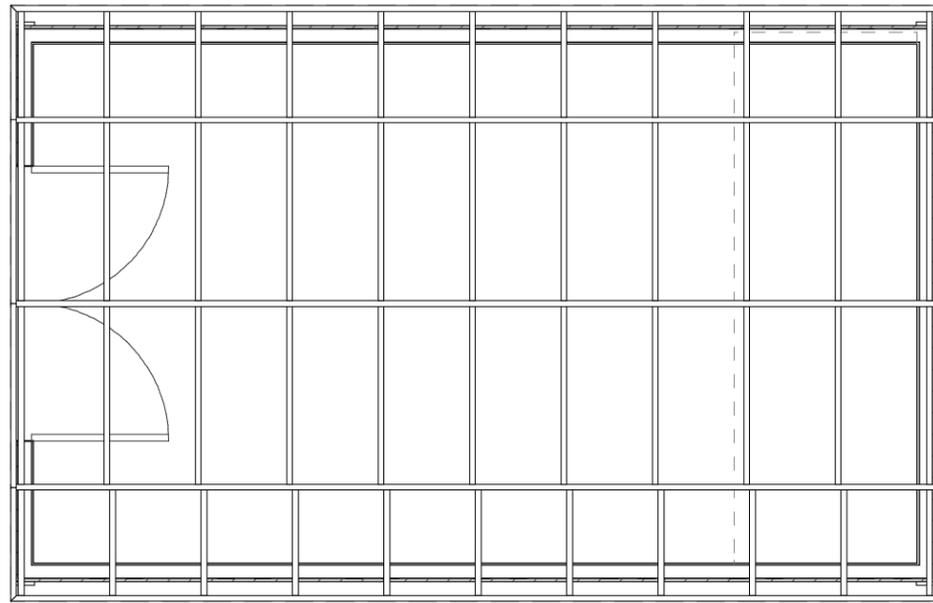
FLOOR AND BASE PLAN

SCALE 1/4"=1'

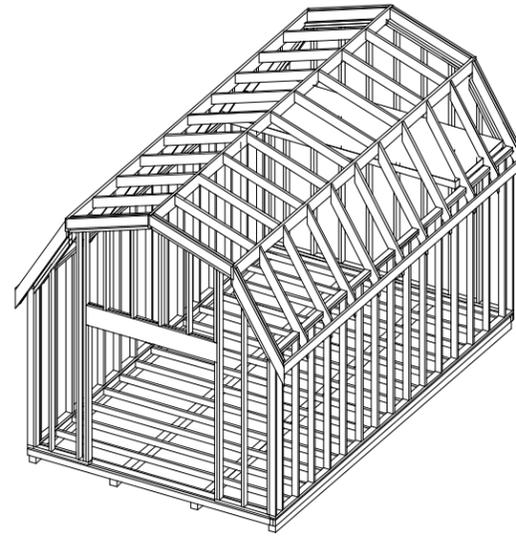
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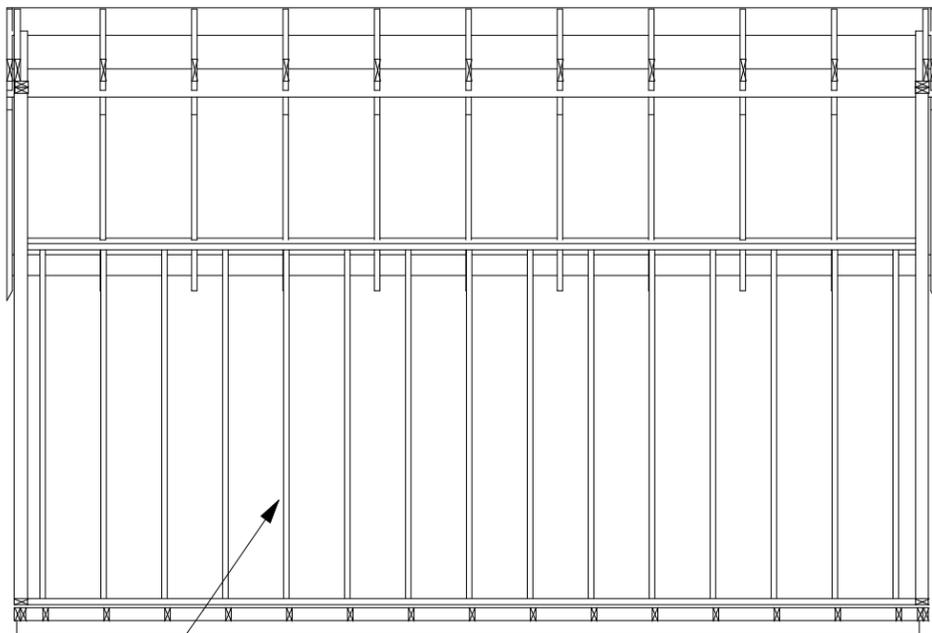


Framing views are for basic reference only

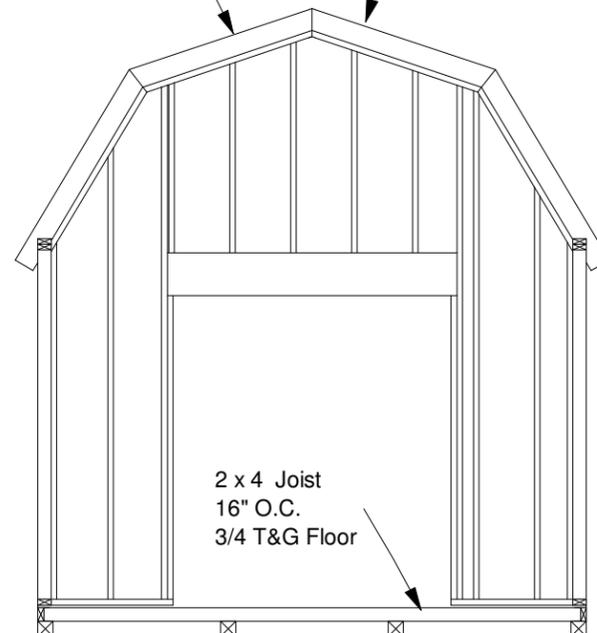


Skylight Centered on Roof Between Trusses

2 x 4 Truss with plywood Gusset  
24" O.C. 7/16 OSB Sheathing



2 X 4 Walls  
16" O.C.



2 x 4 Joist  
16" O.C.  
3/4 T&G Floor

4 x 4 PT Base

# WALL FRAMING SECTIONS

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



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General							
GN1	1	96 high wall	Siding-4	63	0	ft	
GN2	1		heated floor area	240.00	0.00	sq ft	
GN3	1		heated roof area	253.00	0.00	sq ft	
GN4	1		heated wall area	463.00	0.00	sq ft	
GN5	1		heated door area	40.00	0.00	sq ft	
GN6	2	54 3/8 high wall	Siding-4	24	0	ft	
							Subtotal:
Subfloor							
SF1	1	8'x4'x3/4"	Sheet Plywood	8	0		
SF2	1	2x4"-20'	rim joists - lumber	4	0		
SF3	1	2x4"-12'	rim joists - lumber	4	0		
SF4	1	2x4"-12'	floor joists - lumber	15	0		
SF5	1	4x4"-20'	rim joists - lumber	4	0		
							Subtotal:
Framing							
F1	1	2x4-16ft+	fir plate	203	0	ft	
F2	1	2x4-16ft+	fir stud stock	202	0	ft	
F3	1	2x4"-91 1/2"	fir stud	34	0		
F4	1	2x11-16ft+	header - lumber	13	0	ft	
F5	2	2x4-16ft+	fir stud stock	71	0	ft	
F6	2	2x4-16ft+	fir plate	71	0	ft	
							Subtotal:
Siding							
S1	1	7" wide	Siding Wood White	1124	0	ft	
S2	1		house wrap	509.00	0.00	sq ft	
S3	2	7" wide	Siding Wood White	171	0	ft	
							Subtotal:
Ext Trim							
EX1	1	1x5-72"	door threshold	1	0		
EX2	1	1x4-16ft+	ext. door casing - color white	20	0	ft	
EX3	1	5 in	ext. door jamb - color white	20	0	ft	
EX4	1	1x6 in (2)	corner board - color white	31	0	ft	
							Subtotal:
Roofing							
R1	1	2x8"-16'+	ridge board - lumber	61	0	ft	
R2	1	2x6"-16'+	rafters - lumber	248	0	ft	
R3	1	2x6"-22'	rafters - lumber	2	0		
R4	1		ridge vent	61	0	ft	
R5	1		ridge cap	61	0	ft	
R6	1		Roofing Dimensional Comp.	369.00	0.00	sq ft	
R7	1	4x8' sheets	roof sheathing	12	0		
R8	1	2x6"	gable fascia	36	0	ft	
R9	1	2x6"	eave fascia	41	0	ft	
R10	1		metal drip edge	77	0	ft	
							Subtotal:
Insulation							
IN1	1	12x16x48" batts	floor insulation	45	0		
IN2	1	12x24x48" batts	roof insulation	31	0		
IN3	1	4x16x93" batts	wall insulation	43	0		
							Subtotal:
Flooring							
FL1	1	2 1/4" wide	Flooring Oak-Golden	1169	0	ft	
Wall Brd							
WB1	1	4'x8'x1/2"	Sheet Sheetrock	16	0		
WB2	2	4'x8'x1/2"	Sheet Sheetrock	2	0		
							Subtotal:
Doors							
D1	1		handle: Lever (decorative)	2	0		
D2	1		handle: Exterior Handle (ext.)	2	0		
D3	1		lock: Dead Bolt (interior)	2	0		
D4	1		lock: Dead Bolt (exterior)	2	0		
D5	1		hinge: hidden	6	0		
D6	1	36x80x1 3/4R	ext. 6-Panel - color white	1	0		
D7	1	36x80x1 3/4L	ext. 6-Panel - color white	1	0		
							Subtotal:
Int Trim							
T1	1	1x4-16ft+	interior casing	20	0	ft	
T2	1	1x6-16ft+	base molding	61	0	ft	
							Subtotal:
							Total:

Computer Generated Materials List  
From the 3D CAD Model  
Verify Before Construction

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

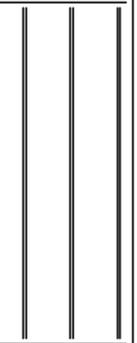
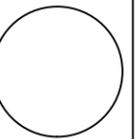
SIDING MATERIAL STRUCTURAL PANEL CAN ACT AS SIDING IF OF EXTERIOR GRADE

WALL FRAMING

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)

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



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DETAILS

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