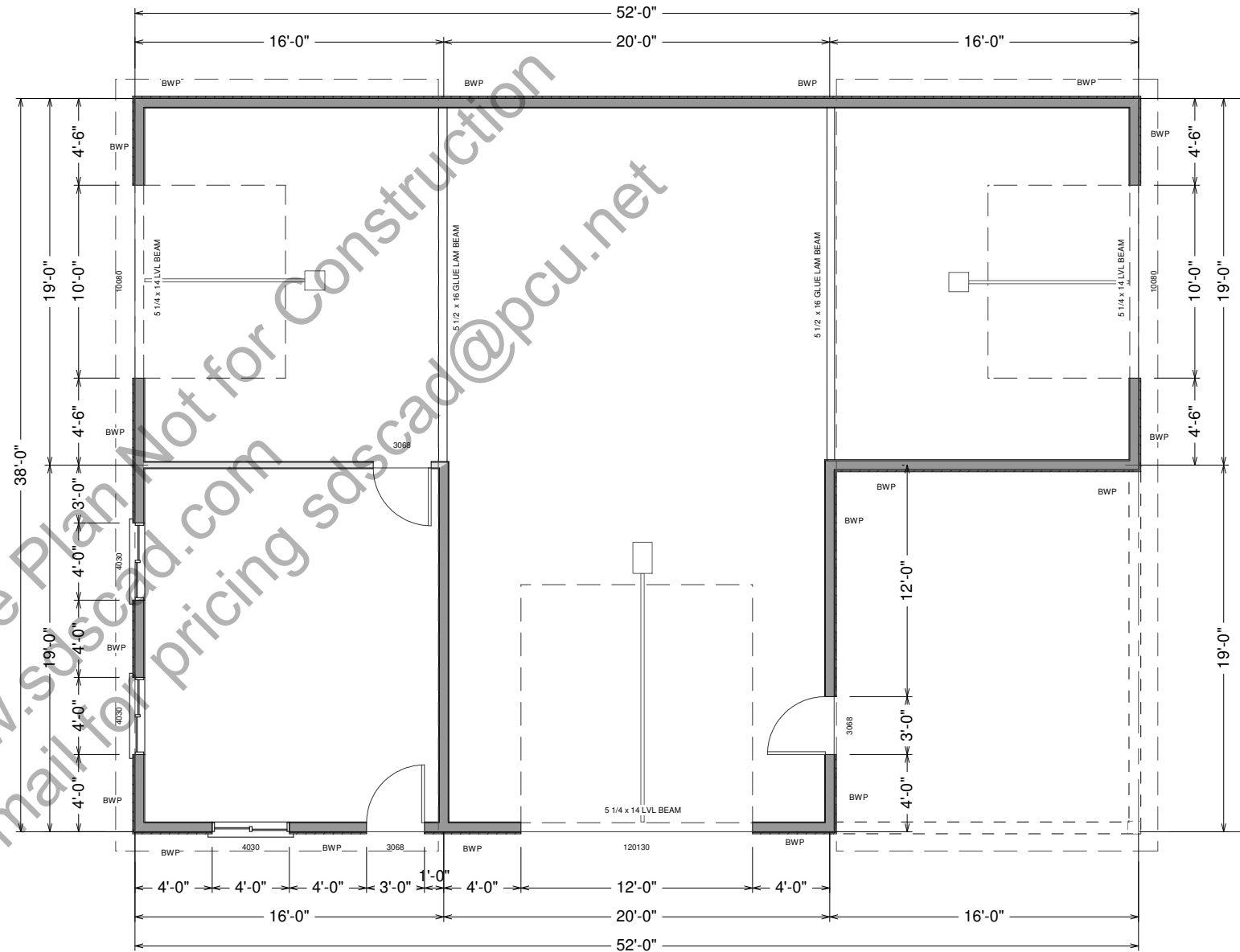


30 year dimensional shingles and Metal Verticle siding over structural sheathing. Nailing schedule is 6" on ends 12" on centers 6d nails. Trusses are engineered on 24" and framing is 2" x 6" on 16" centers. 16' ceiling height.



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.

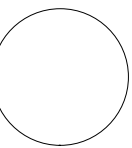
BUILDING CONTRACTOR/HOME OWNER  
TO REVIEW AND VERIFY ALL DIMENSIONS,  
SPECS, AND CONNECTIONS BEFORE  
CONSTRUCTION BEGINS. GARAGE TO BE  
BUILT AS PER IRC, UBC OR CURRENT LOCAL CODE

**52 x 38 - Barn Plan**  
**Plan #g339 Mike & Leslie Larson**  
**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

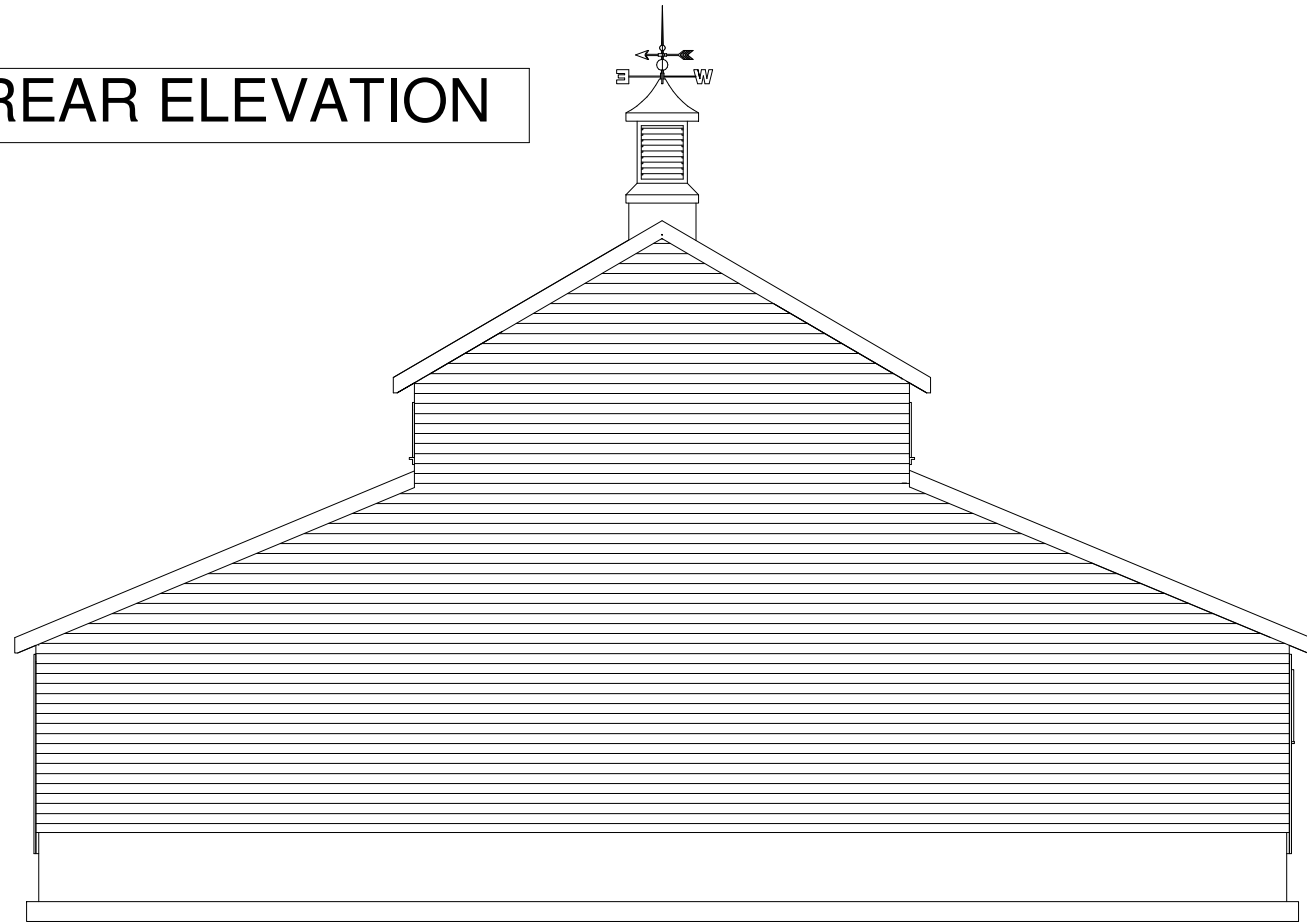
**GARAGE MAIN FLOOR PLAN**

SCALE 1/8"=1'

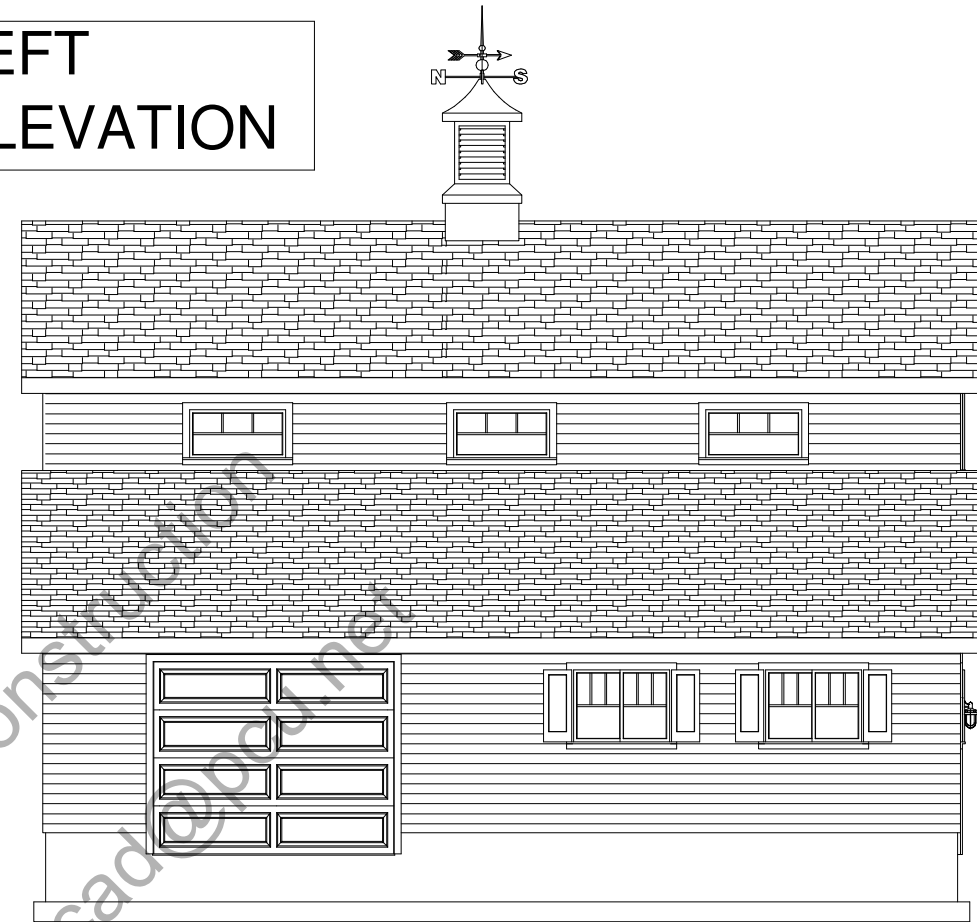


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REAR ELEVATION



LEFT ELEVATION



FRONT ELEVATION

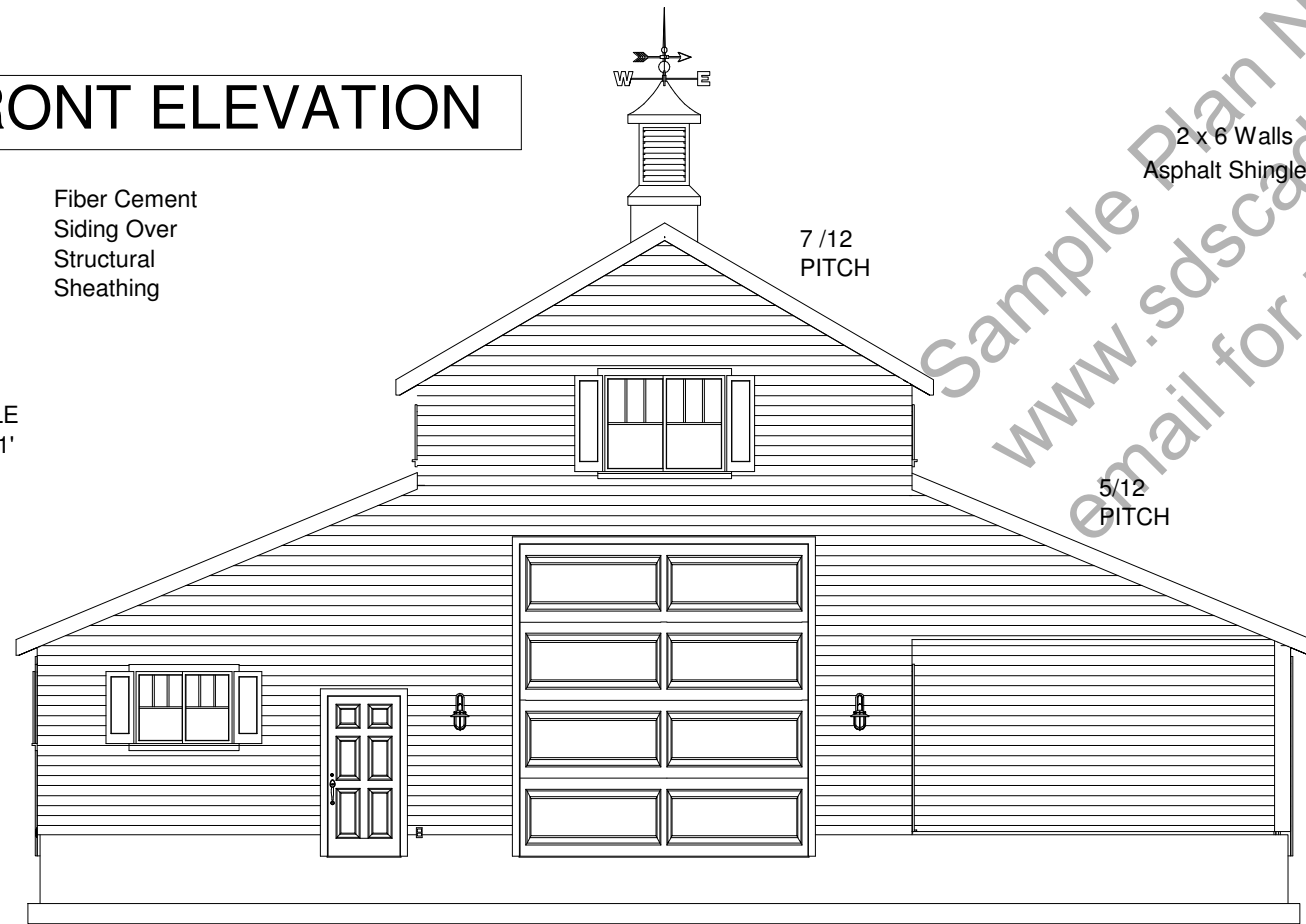
Fiber Cement Siding Over Structural Sheathing

7 / 12 PITCH

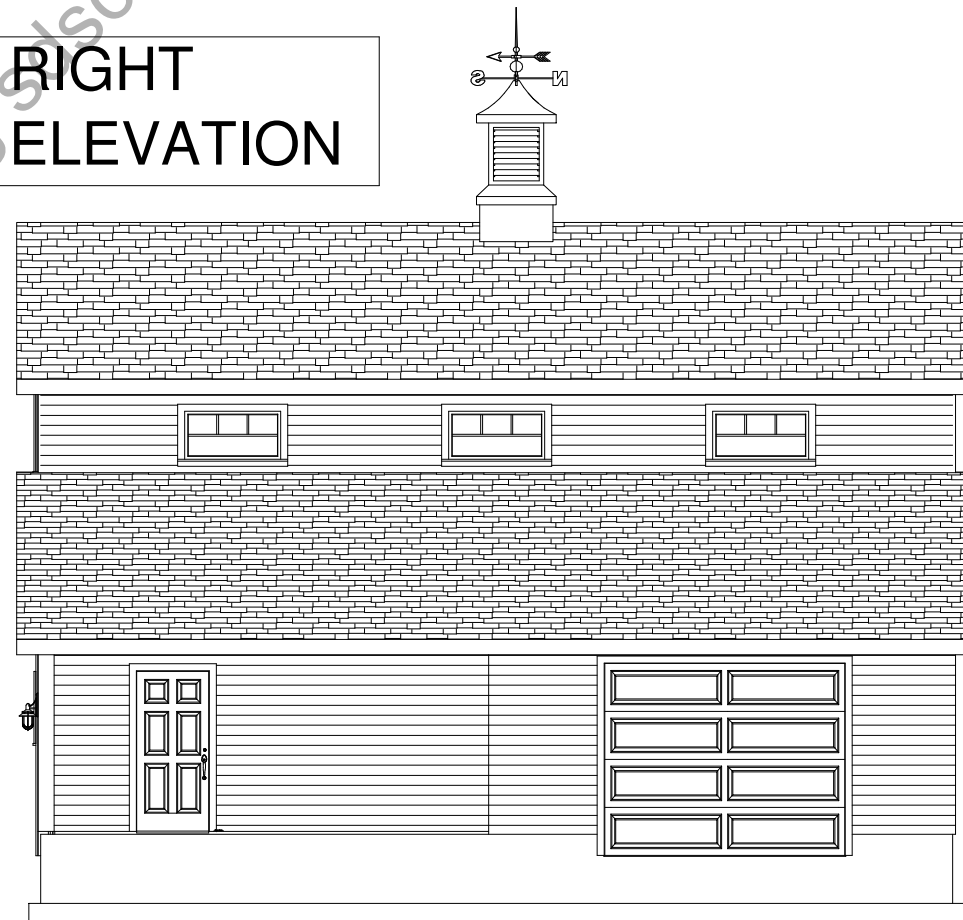
2 x 6 Walls  
Asphalt Shingles

5 / 12 PITCH

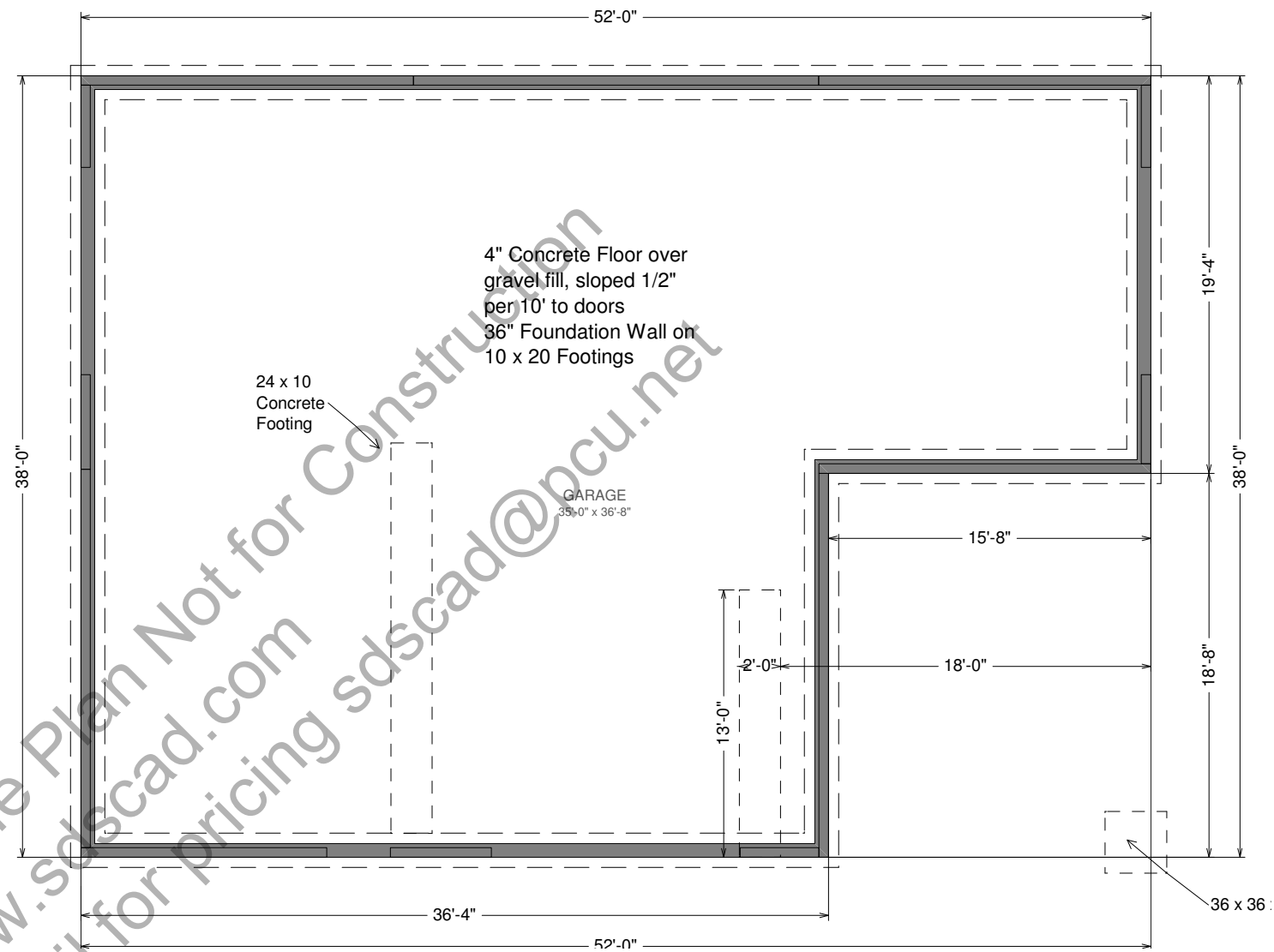
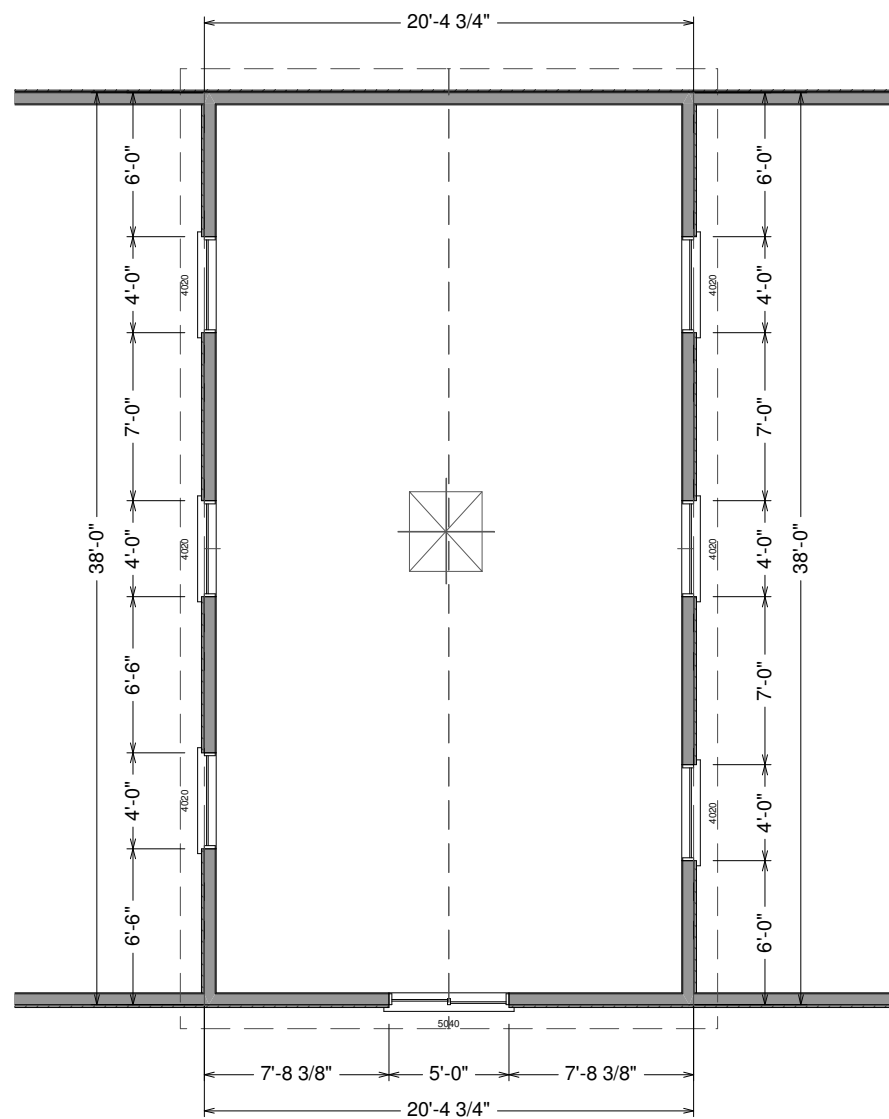
SCALE  
1/8"=1'



RIGHT ELEVATION

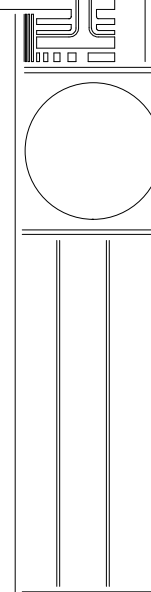


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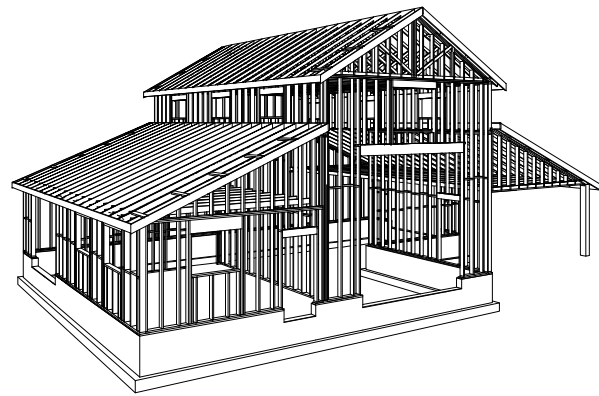
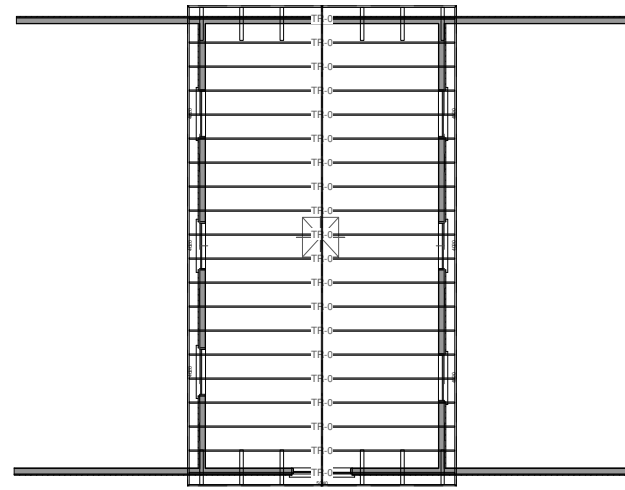
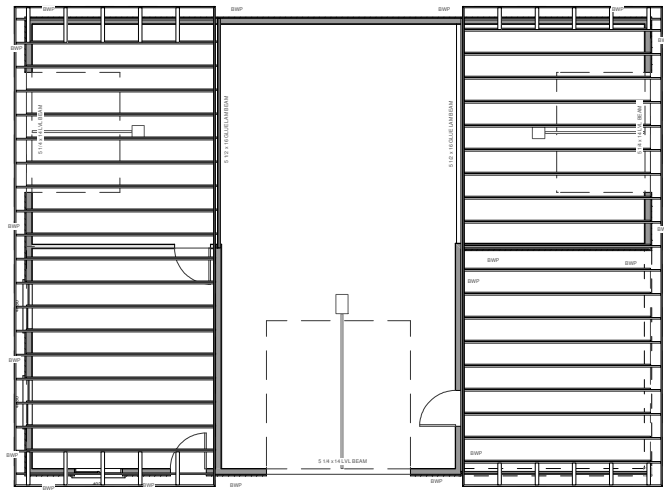


Concrete:

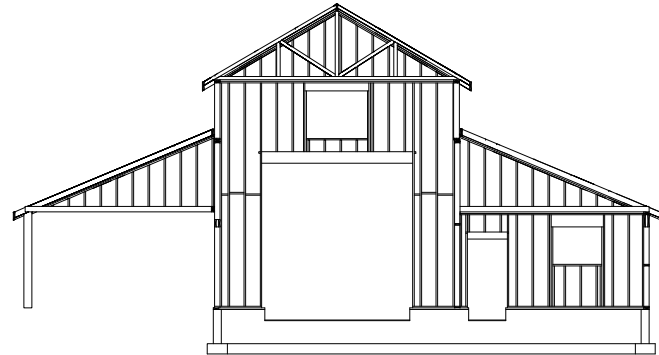
1. All slabs are to be 4" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-66, Type II cement, 2500 psi at 28 days, 5" maximum slump.
3. Reinforcing to be ASTM A615-Bars with  $F_y=60$  ksi and 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on  $F_c$  2000 psf,  $F_c$  2500 psi for quality only.
5. Anchor bolts shall be A-307 embedded 7" minimum into concrete or masonry grout.
6. All footings minimum 24" below final grade



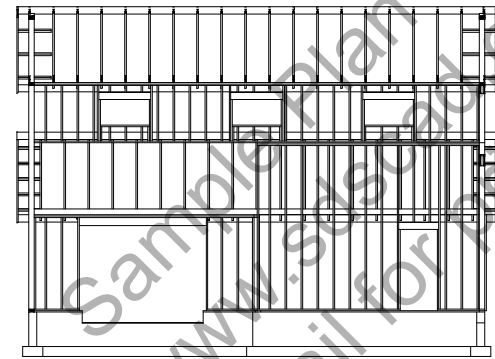
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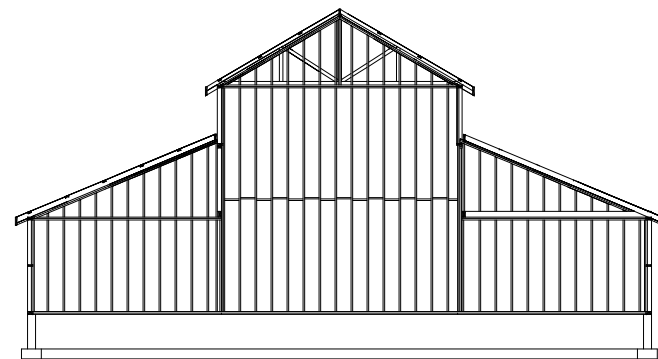
GARAGE ROOF PRE-ENGINEERED TRUSSES AS SUPPLIED BY TRUSS MANUFACTURER 24" o.c.



Front Wall



Cross Section



Back Wall

2 x 6 Walls  
8' Side Walls  
18' Center Walls

# WALL FRAMING SECTIONS

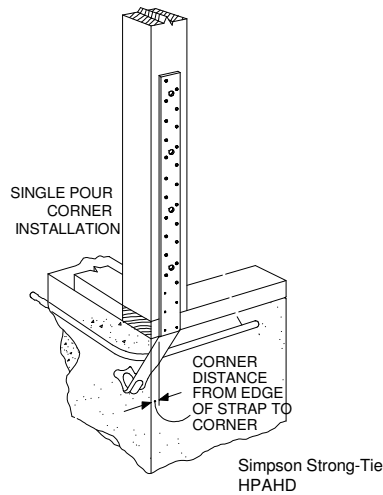
SCALE 1/8"=1'

## 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"x6" 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. Trusses are to be an approved truss design from the truss manufacture's engineer.
5. Use Simpson H-1 hurricane anchors at each truss or rafter to wall connection.
6. 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.
7. Minimum header sizes shall be according to the header size table unless otherwise noted.
8. Basis of design roof live/snow load of 37 psf, and roof dead load of 15 psf.
9. Plywood roof decking to be Min 1/2" thick, 24/0, CDX or 5/8 wafer.



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 BASIC CONSTRUCTION PURPOSES AND BUILDING REQUIREMENTS. GARAGES TO BE BUILT AS PER LOCAL CODE REQUIREMENTS**

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

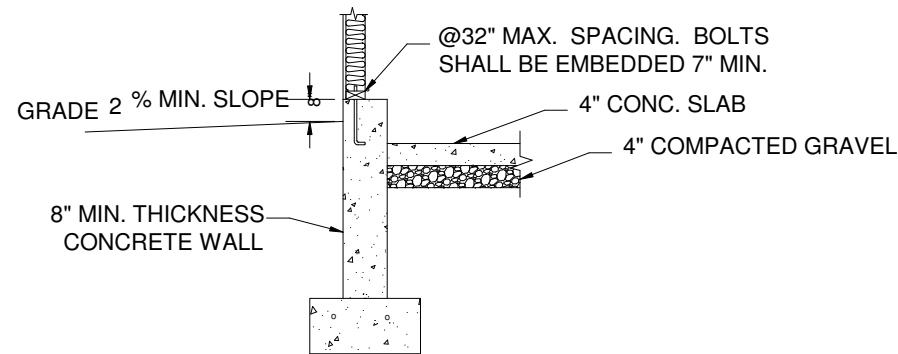
LEAVE 1/4" GAP @ EDGES & 1/8" GAP @ ENDS UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER

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

WALL FRAMING

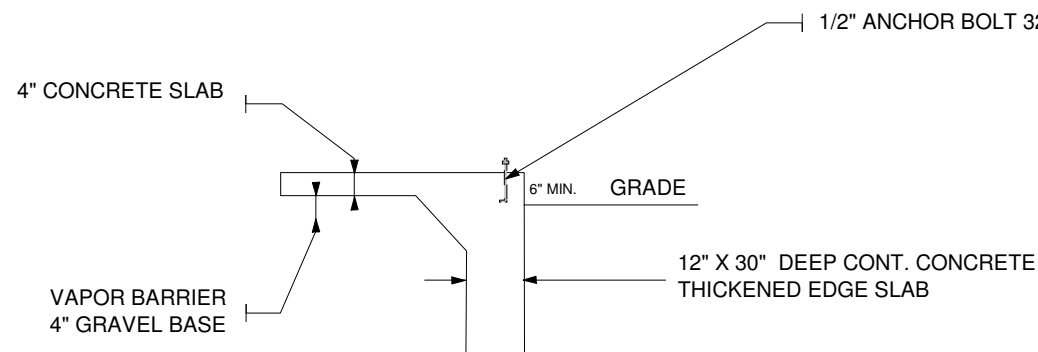
10d NAILS @ 6" O.C. AT EDGES & SEAMS AND 10d NAILS @ 12" O.C. IN FIELD U.N.O. ON SHEAR WALL SCHEDULE

### TYPICAL BRACED WALL PANEL (BWP)

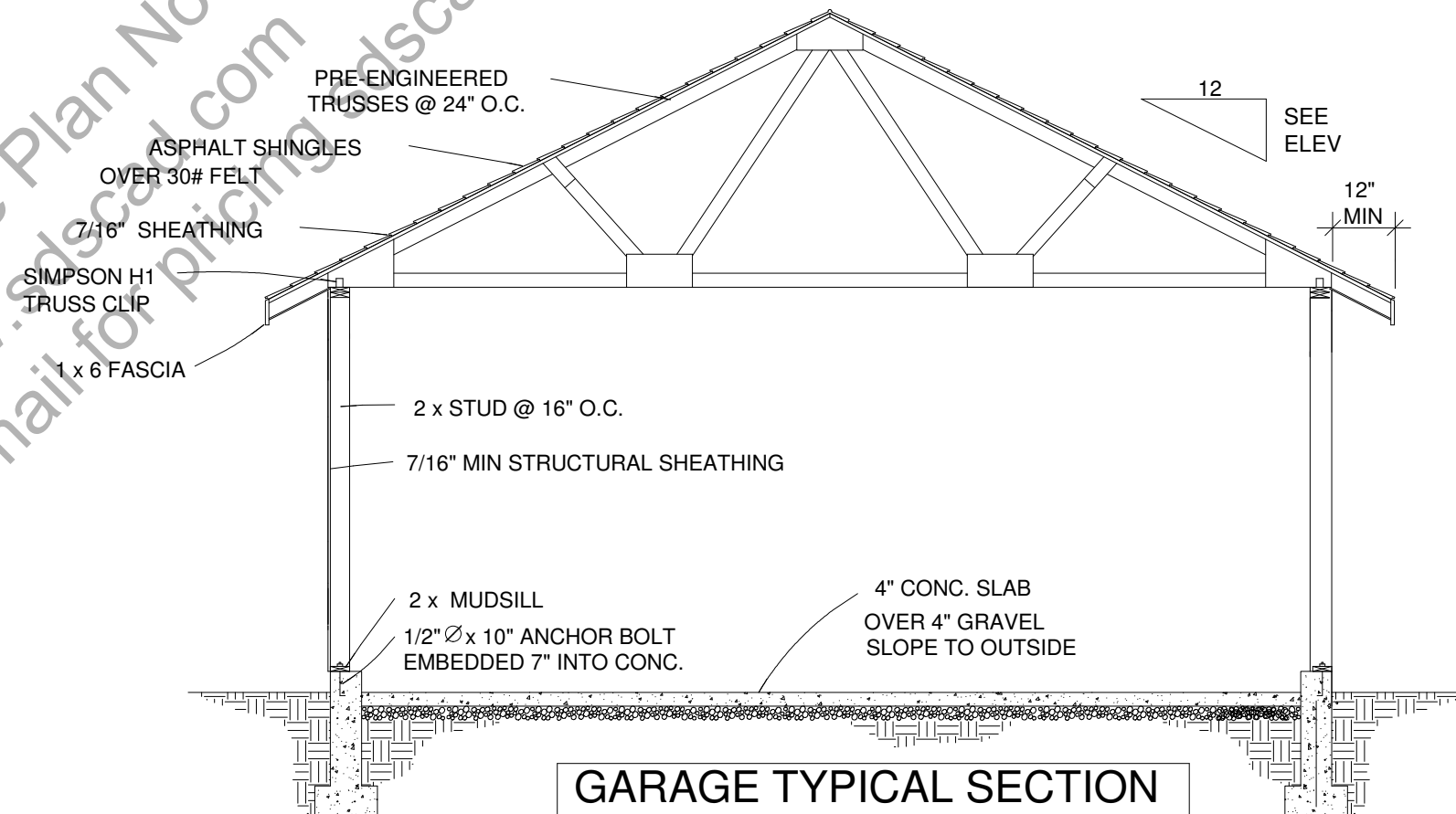


### Footing and concrete wall option

Bottom of footing to be a min of 30" below grade or as required by local code



### Monolithic slab foundation option



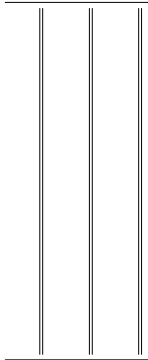
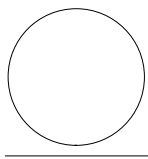
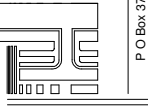
### GARAGE TYPICAL SECTION

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General						
GN1	0	34 1/2 high wall	8" Concrete Stem Wall	177	0	ft
GN2	1	168 high wall	Siding-6	106	0	ft
GN3	1	96 high wall	Interior-4	16	0	ft
GN4	1	96 high wall	Siding-6	72	0	ft
GN5	1	168 high wall	Interior-6	19	0	ft
GN6	1		heated ceiling area	1201.00	0.00	sq ft
GN7	1		heated floor area	292.00	0.00	sq ft
GN8	1		heated wall area	618.00	0.00	sq ft
GN9	1		heated door area	180.00	0.00	sq ft
GN10	2	60 high wall	Siding-6	115	0	ft
GN11	2	40 high wall	Siding-6	15	0	ft
GN12	2	39 1/2 high wall	Siding-6	16	0	ft
GN13	2	39 3/8 high wall	Siding-6	16	0	ft
GN14	2	39 13/16 high wall	Siding-6	15	0	ft
GN15	2		heated ceiling area	775.00	0.00	sq ft
GN16	2		heated wall area	508.00	0.00	sq ft
GN17	2		heated glass area	68.00	0.00	sq ft
GN18	3	69 1/2 high wall	Siding-6	39	0	ft
Subtotal:						
Foundation						
FO1	0	8" thick	Concrete Grey	12.59	0.00	cu yd
FO2	0	1/2x6"	foam sill seal	177	0	ft
FO3	0		foundation bolts	36	0	
FO4	0	20x10"h	concrete footing	9.12	0.00	cu yd
FO5	0	no. 4	rebar (footing)	379	0	ft
FO6	0	no. 4	horiz. rebar (wall)	1515	0	ft
FO7	0	no. 4	vert. rebar (wall)	523	0	ft
FO8	0	1565 sq ft	concrete slab	19.32	0.00	cu yd
FO9	0	1565 sq ft	steel mesh for slab	1565.00	0.00	sq ft
Subtotal:						
Subfloor						
SF1	1	2x6"-16"	mudsill - lumber	143	0	ft
SF2	2	2x6"-16"	ceiling joists - lumber	0	0	ft
SF3	2	2x6"-20"	ceiling joists - lumber	2	0	
SF4	2	2x6"-16"	ceiling joists - lumber	39	0	
SF5	2	2x6"-38"	ceiling joists - lumber	2	0	
Subtotal:						
Framing						
F1	1	2x6-16ft+	fir plate	602	0	ft
F2	1	2x6"-163 1/2"	fir stud	33	0	
F3	1	2x6"-91 1/2"	fir stud	83	0	
F4	1	2x6"-223 1/2"	fir stud	26	0	
F5	1	2x6-16ft+	bridging	99	0	ft
F6	1	2x4-16ft+	fir plate	47	0	ft
F7	1	2x4"-91 1/2"	fir stud	13	0	
F8	1	2x12-16ft+	header - lumber	58	0	ft
F9	1	2x4-16ft+	fir stud stock	13	0	ft
F10	1	2x4-16ft+	bridging	12	0	ft
F11	1	2x8-16ft+	header - lumber	53	0	ft
F12	1	2x6"-76 3/4"	fir stud	2	0	
F13	1	2x7-16ft+	header - lumber	13	0	ft
F14	1	2x6-16ft+	fir stud stock	43	0	ft
F15	1	2x6"-68 13/16"	fir stud	7	0	
F16	1	2x6"-17 1/16"	fir stud	3	0	
F17	2	2x6-16ft+	fir plate	521	0	ft
F18	2	2x6"-55 1/2"	fir stud	53	0	
F19	2	2x6-16ft+	fir stud stock	234	0	ft
F20	2	2x7-16ft+	header - lumber	52	0	ft
F21	2	2x6-55 1/2"	Framing Fir Stud 16" OC	40	0	
F22	2	4x12"	door/window header	5	0	ft
F23	3	2x6-16ft+	fir plate	90	0	ft
F24	3	2x6-16ft+	fir stud stock	100	0	ft
Subtotal:						
Siding						
S1	1	7" wide	Siding Wood White	2476	0	ft
S2	1	4"x8"x5/8"	Sheet Plywood-hrz	44	0	
S3	1		house wrap	1425.00	0.00	sq ft
S4	2	7" wide	Siding Wood White	1673	0	ft
S5	2	4"x8"x5/8"	Sheet Plywood-hrz	25	0	
S6	2		house wrap	560.00	0.00	sq ft
S7	3	7" wide	Siding Wood White	276	0	ft
S8	3	4"x8"x5/8"	Sheet Plywood-hrz	4	0	
Subtotal:						
Ext Trim						
EX1	1	1x4-36"	door threshold	1	0	
EX2	1	1x4-16ft+	ext. door casing - color Almond	52	0	ft
EX3	1	4 in	ext. door jamb - color Almond	17	0	ft
EX4	1	14x36 in	shutter	6	0	
EX5	1	1x4-16ft+	exterior sill - color Almond	14	0	ft
EX6	1	1x4-16ft+	ext. window casing - color Almond	33	0	ft
EX7	1	1x4-16ft+	garage door casing - color Almond	93	0	ft
EX8	1	7 in	garage door jamb - color Almond	93	0	ft
EX9	1	1x7-36"	door threshold	2	0	
EX10	1	7 in	ext. door jamb - color Almond	35	0	ft
EX11	1		Color Almond	22.00	0.00	sq ft
EX12	2	1x4-16ft+	exterior sill - color Almond	33	0	ft
EX13	2	1x4-16ft+	ext. window casing - color Almond	69	0	ft
EX14	2	14x48 in	shutter	2	0	
Subtotal:						

Roofing						
R1	1	2x8"-16"+	ridge board - lumber	80	0	ft
R2	1	2x6"-20"	rafters - lumber	20	0	
R3	1	2x8"-40"	rafters - lumber	4	0	
R4	1	2x8"-20"	rafters - lumber	4	0	
R5	1	2x4"-16"+	rafters - lumber	46	0	ft
R6	1	2x6"-18"	rafters - lumber	20	0	
R7	1	bend to slope	roof/wall flashing	75	0	ft
R8	1		ridge cap	40	0	ft
R9	1		Roofing Dimensional Comp.	2483.00	0.00	sq ft
R10	1	4x8" sheets	roof sheathing	78	0	
R11	1	2x8"	gable fascia	124	0	ft
R12	1	2x8"	eave fascia	240	0	ft
R13	1		metal drip edge	364	0	ft
R14	2	2x8"-16"+	ridge board - lumber	40	0	ft
R15	2	2x8"-40"	rafters - lumber	2	0	
R16	2	2x8"-14"	rafters - lumber	4	0	
R17	2	2x4"-16"+	rafters - lumber	33	0	ft
R18	2	TR-0 265 3/4"	roof truss	20	0	
Subtotal:						
Insulation						
IN1	1	12x24x48" batts	ceiling insulation	150	0	
IN2	1	12x16x48" batts	floor insulation	54	0	
IN3	1	6x16x93" batts	wall insulation	48	0	
IN4	1	4x16x93" batts	wall insulation	9	0	
IN5	2	12x24x48" batts	ceiling insulation	96	0	
IN6	2	6x16x93" batts	wall insulation	47	0	
Subtotal:						
Wall Brd						
WB1	1	4"x8"x1/2"	Sheet Sheetrock	80	0	
WB2	1	7" wide	Siding Wood White	888	0	ft
WB3	1	4"x8"x5/8"	Sheet Plywood-hrz	12	0	
WB4	1		Color Bone White	1186.00	0.00	sq ft
WB5	1	4"x8"x3/4"	Sheet Sheetrock	36	0	
WB6	2	4"x8"x1/2"	Sheet Sheetrock	26	0	
WB7	2		Color Bone White	718.00	0.00	sq ft
WB8	2	4"x8"x3/4"	Sheet Sheetrock	22	0	
WB9	3	4"x8"x1/2"	Sheet Sheetrock	4	0	
Subtotal:						
Windows						
W1	1	48x36	right sliding	3	0	
W2	2	48x24	fixed glass	6	0	
W3	2	60x48	right sliding	1	0	
Subtotal:						
Doors						
D1	1		handle: Lever (decorative)	3	0	
D2	1		handle: Exterior Handle (ext.)	3	0	
D3	1		lock: Dead Bolt (interior)	3	0	
D4	1		lock: Dead Bolt (exterior)	3	0	
D5	1		hinge: hidden	9	0	
D6	1	36x80x1 3/4L	ext. 6-Panel - color Almond	2	0	
D7	1	120x96	garage 2-Panel Garage Door	2	0	
D8	1	144x156	garage 2-Panel Garage Door	1	0	
D9	1	36x80x1 3/4R	ext. 6-Panel - color Almond	1	0	
Subtotal:						
Int Trim						
T1	1	1x4-16ft+	interior casing	86	0	ft
T2	1	1x4-16ft+	window apron	14	0	ft
T3	1	1x4-16ft+	sill	14	0	ft
T4	1	0" wide	int. railing	453	0	in
T5	1	0" wide	railing shoe	453	0	in
T6	1	4x8 in	beam over rail	38	0	ft
T7	1	4 3/4" square	support post	2	0	
T8	1	4 3/4" square	half post	4	0	
T9	1	1x6-16ft+	base molding	98	0	ft
T10	2	1x4-16ft+	Window apron	33	0	ft
T11	2	1x4-16ft+	sill	33	0	ft
T12	2	1x4-16ft+	interior casing	69	0	ft
Subtotal:						
Fixtures						
FX1	1	12W174D	Garage Door Opener	1	0	
FX2	1	12W112D	Garage Door Opener	2	0	
FX3	2	48W48D	Cupola (w/ weathervane)	1	0	
Subtotal:						
Electrical						
E1	1	wall mount	Duplex	8	0	
E2	1	wall mount	Three Way	2	0	
E3	1	wall mount	Single Pole	2	0	
E4	1	wall mount	Caged Lantern	2	0	
E5	1	wall mount	Duplex (weatherproof) - color light gra	1	0	
E6	1	floor mount	Duplex (weatherproof) - color light gra	1	0	
E7	1	ceiling mount	Half Dome Light - lighting grey	11	0	
Subtotal:						
Total:						

Computer Generated Materials List  
for reference only and gives  
approximated  
materials as per the 3D CAD model



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DATE \_\_\_\_\_  
DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
DATE \_\_\_\_\_  
REVISIONS \_\_\_\_\_  
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SHEET NO. \_\_\_\_\_

