NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

06/16/2021

Harnett COUNTY NORTH CAROLINA

Custom Home Design
Plan #153
By SDS-CAD Specialized Design Systems

BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

ELECTRICAL SYSTEM CODE: SEC.2701
MECHANICAL SYSTEM CODE: SEC.2801
PLUMBING SYSTEM CODE: SEC.2901

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 affort 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.

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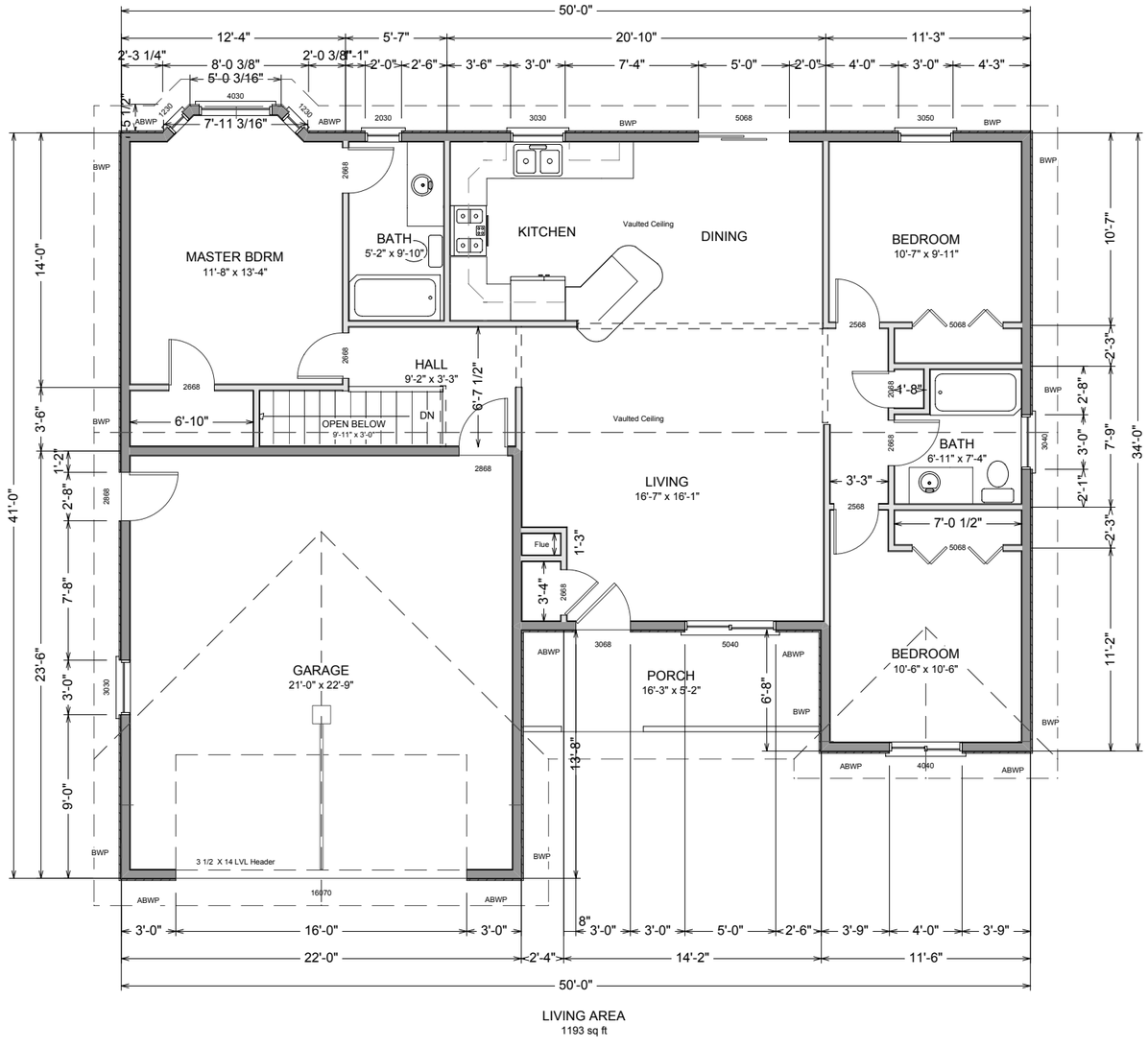
VENTING SCHEDULE

Range Hoods	Vent Through Roof
All Bath Fans	Vent to Exterior
Dryer Vent	Vent to Exterior

INSULATION SCHEDULE

Ceilings	R-38 Min
Wall above grade	R-19 Min
Wall interior below grade	R-13 Min



LIVING AREA
1193 sq ft

MAIN FLOOR PLAN

SCALE 1/8"=1'

DOOR SCHEDULE					
NUMBER	QTY	FLOOR	SIZE	DIMENSIONS	DESCRIPTION
D01	1	0	2668	30X80X1 3/8"	3 PANEL DOOR - COLOR BRITE WHITE
D02	2	0	2868	32X80X1 3/8"	3 PANEL DOOR - COLOR BRITE WHITE
D03	1	1	16070	192X84"	GARAGE 2-PANEL GARGE DOOR
D04	1	1	2068	24X80X1 3/8"	3 PANEL DOOR - COLOR BRITE WHITE
D05	1	1	2568	28 13/16X80X1 3/8"	3 PANEL DOOR - COLOR BRITE WHITE
D06	1	1	2568	29 7/16X80X1 3/8"	3 PANEL DOOR - COLOR BRITE WHITE
D07	5	1	2668	30X80X1 3/8"	3 PANEL DOOR - COLOR BRITE WHITE
D08	2	1	2868	32X80X1 3/4"	EXT. 6-PANEL
D09	1	1	3068	36X80X1 3/4"	EXT. 6-PANEL
D10	2	1	5068	30X80"	BIFOLD
D11	1	1	5068	60X80"	EXT. SLIDER-GLASS
D12	1	0	2468	28 1/4X80X1 3/8"	3 PANEL DOOR - COLOR BRITE WHITE

WINDOW SCHEDULE					
NUMBER	QTY	FLOOR	SIZE	DIMENSIONS	DESCRIPTION
W01	2	1	1230	14"X36"	DOUBLE HUNG
W02	1	1	2030	24"X36"	DOUBLE HUNG
W03	1	1	3040	36"X48"	DOUBLE HUNG
W04	2	1	3030	36"X36"	DOUBLE HUNG
W05	1	1	4030	48"X36"	DOUBLE HUNG
W06	1	1	4040	48"X48"	RIGHT SLIDING
W07	1	1	5040	60"X48"	RIGHT SLIDING
W08	1	1	3050	36"X60"	DOUBLE HUNG
W09	2	0	1206	14"X6"	14X6 HORIZ
W10	1	0	2030	24"X36"	DOUBLE HUNG
W11	5	0	5036	60"X42"	RIGHT SLIDING

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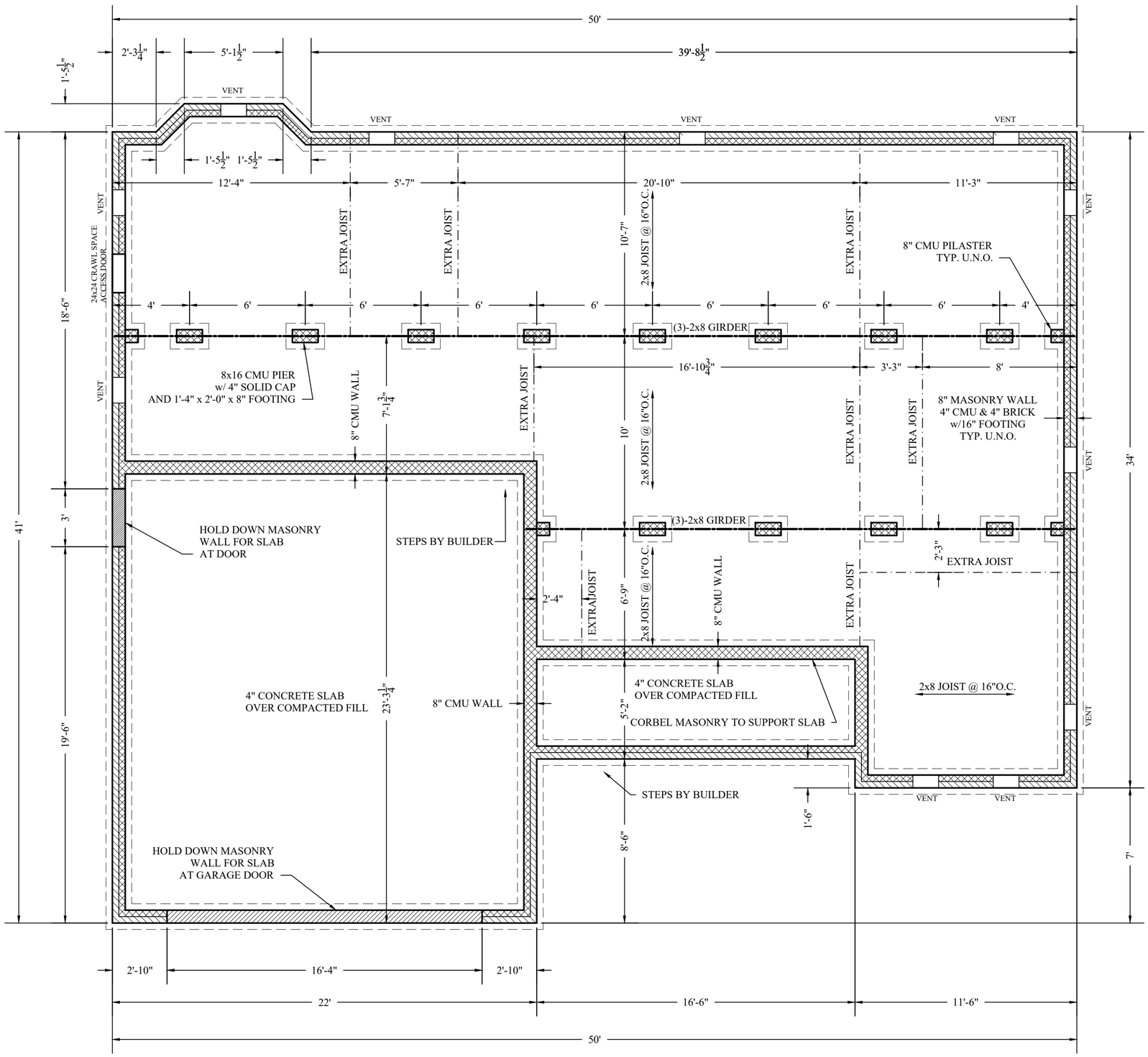


FOUNDATION PLAN

1/4"=1'-0"

NOTES:

1. ONE FOUNDATION VENT SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.
2. FOOTING SIZES BASED UPON 2000 PSF ALLOWABLE SOIL BEARING CAPACITY. BUILDER TO VERIFY.
3. THE BOTTOM OF WOOD JOISTS CLOSER THAN 18 INCHES OR BEAMS CLOSER THAN 12" TO THE EXPOSED GROUND IN THE CRAWLSPACE SHALL BE PRESSURE TREATED.
4. ALL LUMBER SPANS ARE BASED UPON #2 SOUTHERN YELLOW PINE
5. CONNECT JOIST TO GIRDERS WITH JOIST HANGERS.

CRAWL SPACE VENTILATION

AREA= 1142 / 150 = 7.61
TOTAL NET CLEAR AREA=
7.61 / 0.87 (AREA IN SF OF 8x16 VENT)= 8.75
OF VENTS REQUIRED= 9

If an approved vapor barrier were placed over the ground surface of the crawl space the total area of the openings to the exterior can be reduced to 10% of that required. AREA (with vapor barrier) 1142 / 150
TOTAL NET CLEAR AREA 7.61
(10% OF THE ABOVE NET CLEAR AREA)/ 0.87 (S.F. AREA OF 8x16 VENT)= .76/0.87= 0.87 # OF VENTS REQUIRED 1

WHITE HOUSE BUILDING ASSOCIATES LLC
BUILDING DESIGNERS LLC
WWW.WHITEHOUSEBUILDINGASSOCIATES.COM
WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

PLAN 153 FOUNDATION

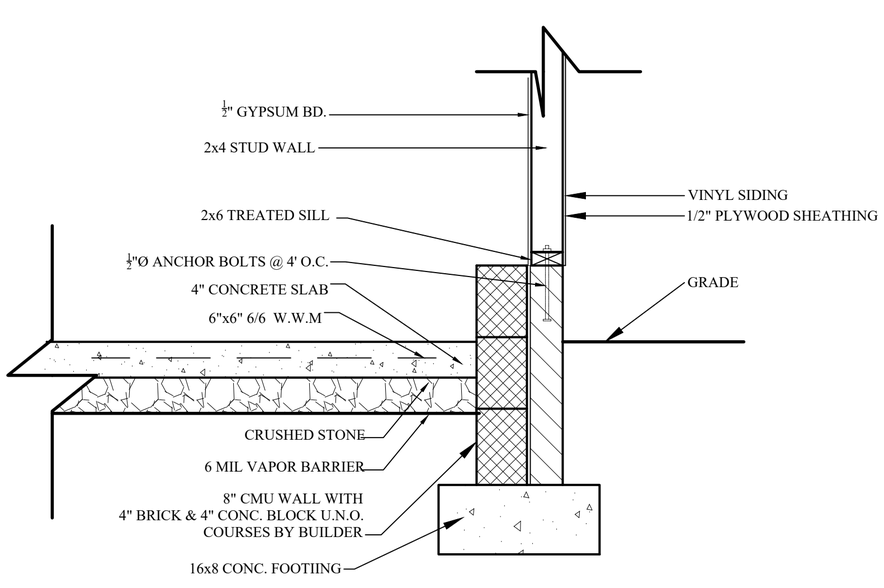
DRAWN BY: LRW
DATE: 23-May-21
REVISED:
SCALE: AS NOTED

BUILDER SHALL ENSURE COMPLIANCE WITH APPLICABLE BUILDING CODES AND ZONING ORDINANCES. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE CONSTRUCTION BEGINS.

PRIME ESTATE RENOVATIONS

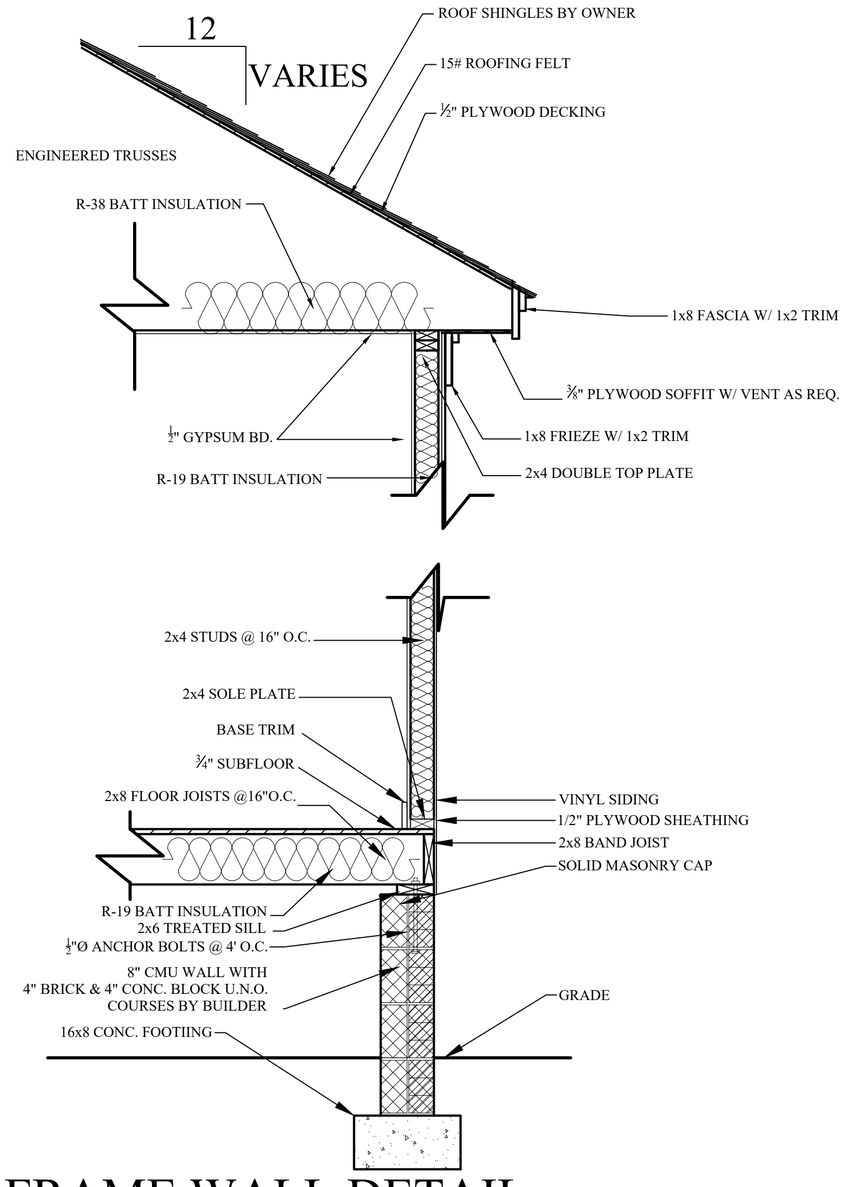
1464 CYPRESS CHURCH ROAD
CAMERON, NORTH CAROLINA 28326

R1



GARAGE WALL DETAIL

SCALE:GRAPHIC



WOOD FRAME WALL DETAIL

SCALE:GRAPHIC

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WWW.WHITEHOUSEBUILDINGASSOCIATES.COM
WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

DRAWN BY: LRW
DATE: 23-May-21
REVISED:
SCALE: AS NOTED

DETAILS

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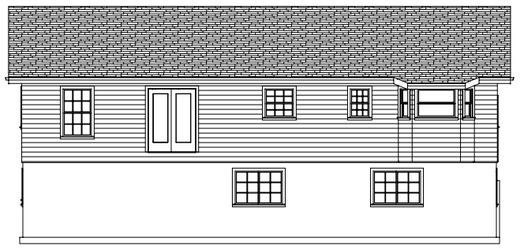
PRIME ESTATE RENOVATIONS

1464 CYPRESS CHURCH ROAD
CAMERON, NORTH CAROLINA 28326

R3

LEFT ELEVATION

SCALE 1/16"=1'



REAR ELEVATION

SCALE 1/16"=1'

RIGHT ELEVATION

SCALE 1/16"=1'

Exterior Finish to be determined by homeowner and to meet subdivision requirements

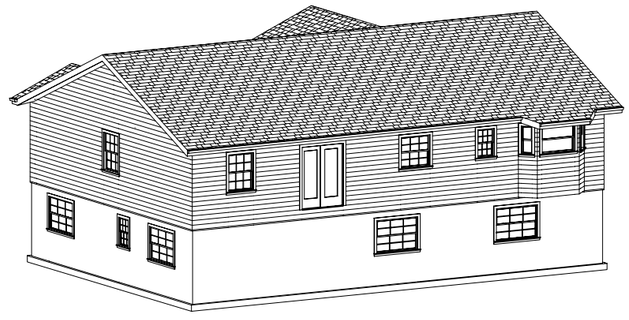
ARCHITECTURAL
ASHPHALT
SHINGLES

5/12
PITCH

Siding

FRONT ELEVATION

SCALE 1/8"=1'



PERSPECTIVE VIEWS

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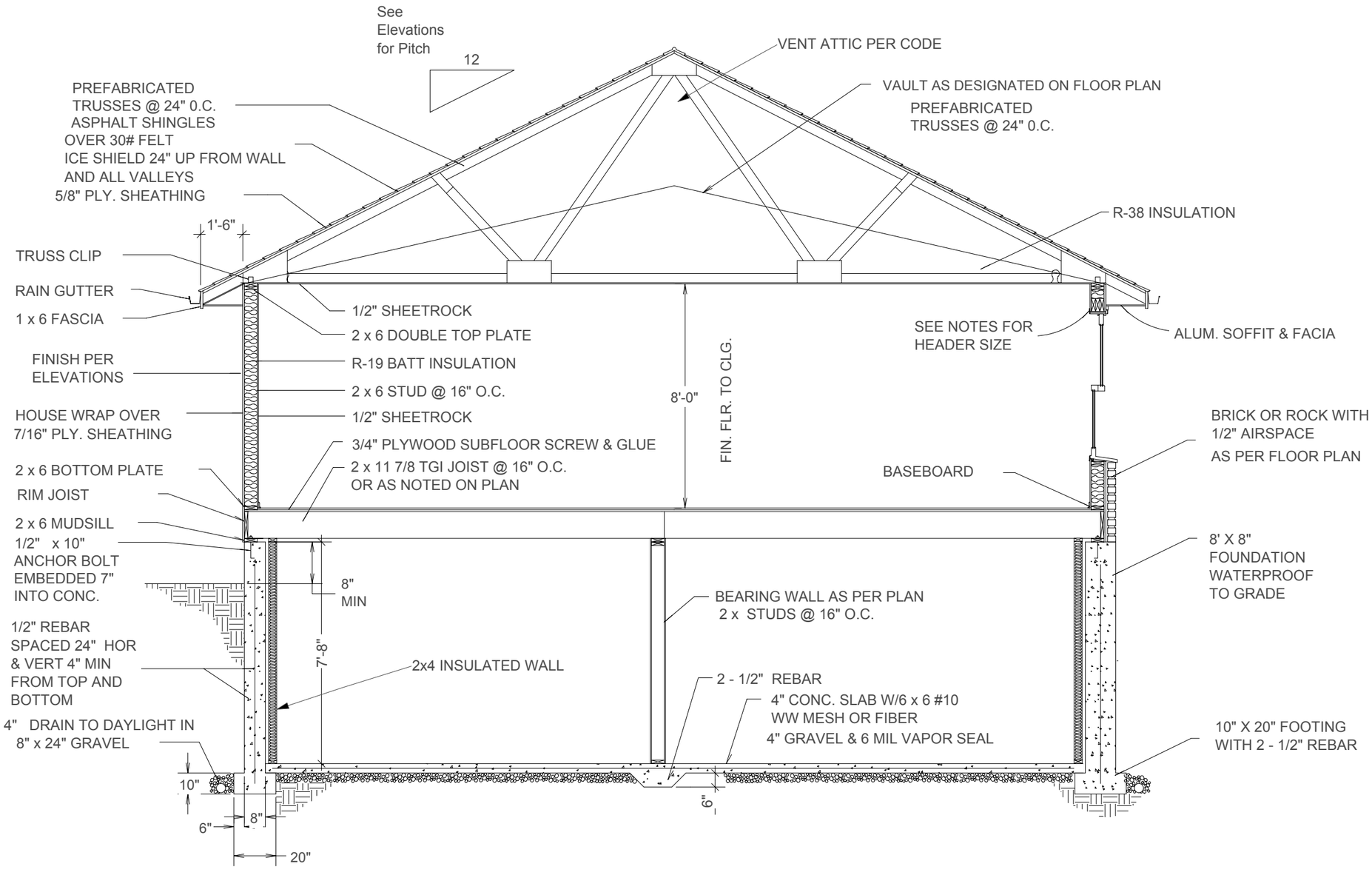

TYPICAL HOUSE SECTION

SCALE NTS

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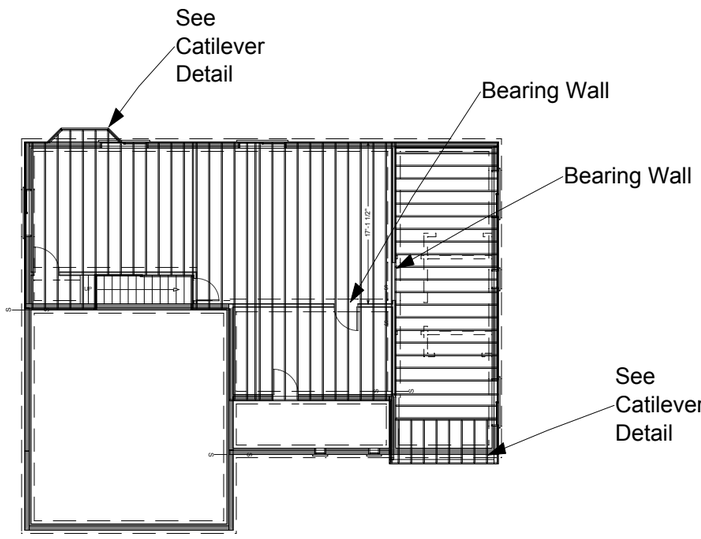
Roof Framing:

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.
   Install as per engineers specs
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 ½" 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 ½" thick, 24/0, CDX or 5/8 wafer.

MAIN FLOOR FRAMING

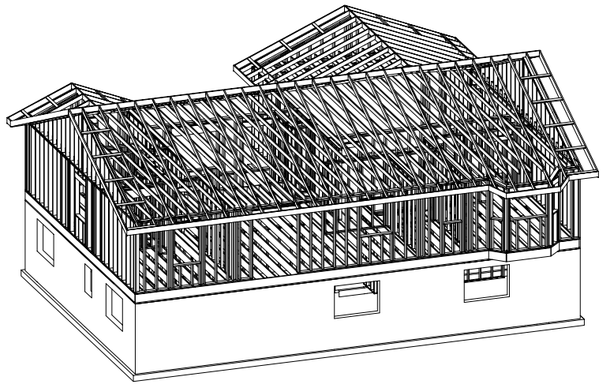
SCALE 1/16"=1'

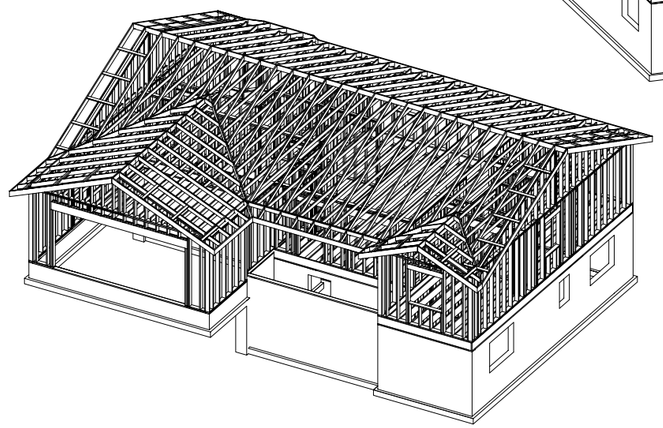


11 7/8"" I-Joists 16"
o.c Floor Joists.

SEE GENERAL SPECS AND
NOTES FOR FRAMING DETAILS

PRE-ENGINEERED ENERGY TRUSSES AS SUPPLIED BY TRUSS MANUFACTURER
1. Trusses to be 24" O.C.
2. Attic access min 22 1/2" x 30" were most convenient. For all areas greater than 30"
3.Place vaults where possible as indicated on the floor plan
4. Install all trusses as per truss manufacturer installation guidelines.
5. 5/12 Pitch

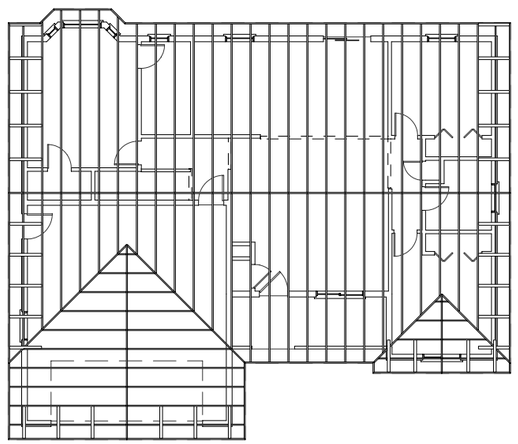




ROOF FRAMING

SCALE 1/16"=1'

5/12 Pitch



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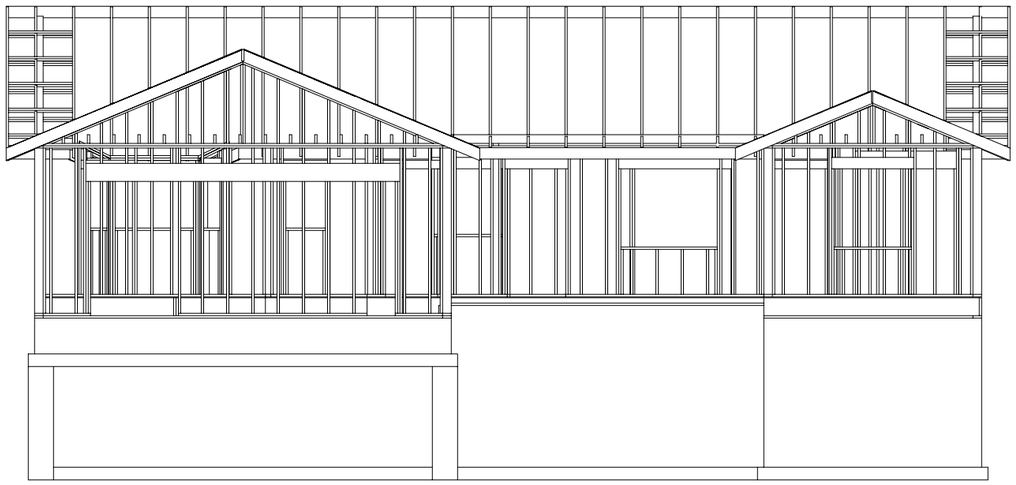
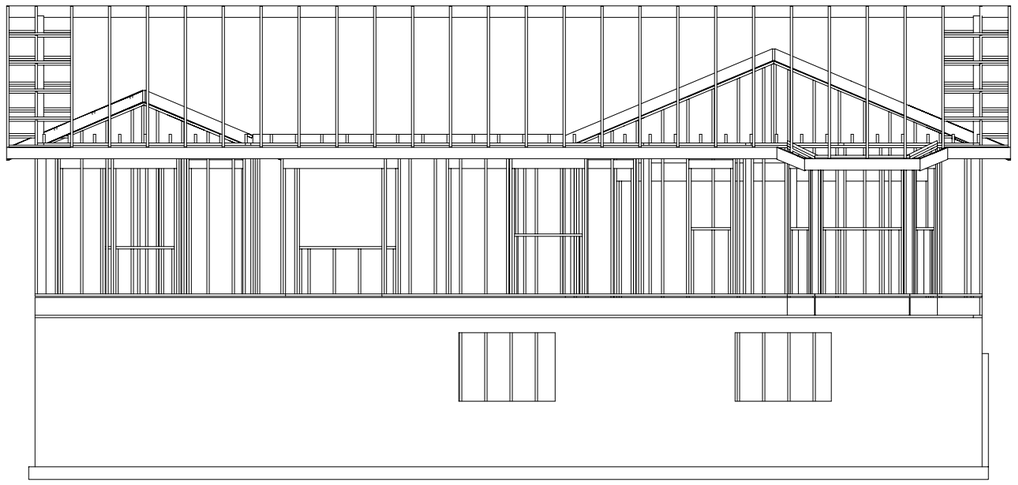




FULL HOUSE FRAMING SECTION

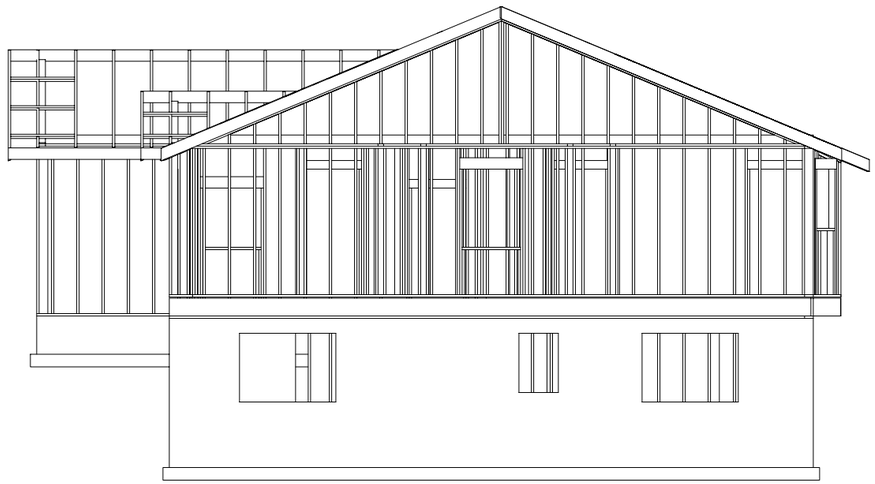
SCALE 1/8"=1'

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
   Header sizes (two story construction)
   2'-0" to 3'-0" Span 2-2x4's
   3' + to 5'-0" Span 2-2x6's
   5' + to 7'-0" Span 2-2x8's
   7' + to 8'-0" Span 2-2x10's
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 3/8 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 3/8" CDX plywood applied horizontally.
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.

Floor Framing:

1. All floor joist to be Douglas Fir #2 or T.J.I. @ 16" o.c. unless otherwise noted.
2. For spans and dimensions refer to floor plans.
3. Use Simpson H 2.5 hurricane anchors at each floor joist to bearing wall connection.
4. Solid blocking between joists over all bearing walls, and midspans such blocking shall be 2" minimum thickness and full depth of joists.
5. Minimum header sizes shall be according to the header size table unless otherwise noted.
6. Basis of design: floor live load of 40 psf, and floor dead load of 15 psf.
7. Floor decking to be ¾" thick T & G wafer board.
8. Joist hangers to be Simpson U210 or equal unless otherwise noted.
9. Double joists and or double blocking at all interior walls.



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A 2x12 STRINGER -3 EACH REQUIRED

B 2x6 KICK PLATE - ANCHORED TO CONCRETE WITH 1/2" EXPANSION BOLTS - ANCHORED TO FLOOR DECKING WITH 6 - 16d NAILS.

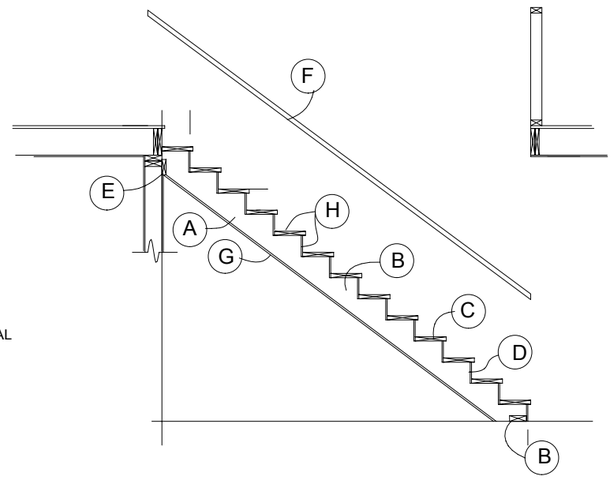
C 11x9/8" PARTICLE BOARD TREAD WITH 1" MIN. NOSING

D 1"x8" #2 PINE RISER

E 2x6 LEDGER SECURED TO EACH STUD WITH 2 - 16d NAILS.

F HANDRAIL/GUARDRAIL - FINAL STYLE, MATERIAL AND COLOR TO BE OWNER'S CHOICE.
DESIGN TO BE PER CURRENT U.B.C.:
1. GUARDRAILS TO BE 36" HIGH MIN.
2. HANDRAILS TO BE 34" TO 38" ABOVE NOSING OF TREAD
3. OPEN RAILING TO HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A SPHERE 4" ROUND CANNOT PASS THRU.

G 5/8" TYPE "X" DRYWALL REQUIRED UNDER STAIRS AND ALONG STAIR WELL WALLS.



STAIR DETAIL

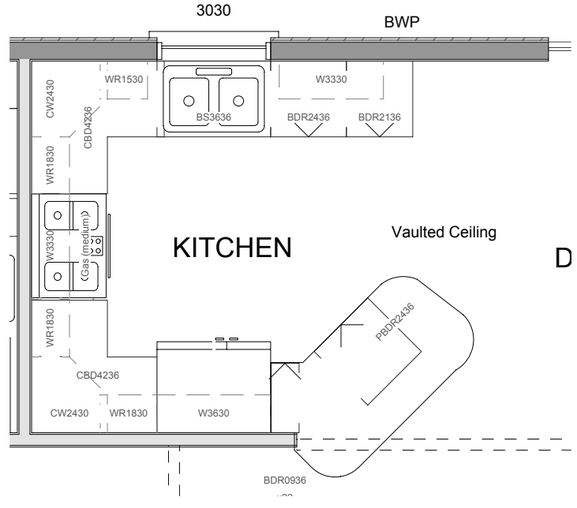
CABINET SCHEDULE				
NUMBER	QTY	FLOOR	DIMENSIONS	DESCRIPTION
C01	1	1	12X24X36 "	BATH BASE CAB
C02	1	1	15X12X30 "	WALL CAB
C03	2	1	15X24X36 "	BATH BASE CAB
C04	3	1	18X12X30 "	WALL CAB
C05	1	1	21X24X36 "	BASE CAB
C06	2	1	24X24X30 "	CRNR WALL CAB
C07	1	1	24X24X36 "	BASE CAB
C08	1	1	24X24X36 "	PEN BASE CAB
C09	1	0	36X24X36 "	BASE CAB
C10	2	1	33X12X30 "	WALL CAB
C11	1	1	36X12X30 "	WALL CAB
C12	1	1	36X24X36 "	BASE CAB
C13	2	1	42X42X36 "	CRNR BASE CAB
C14	1	1	9X22X36 "	BASE CAB
C15	2	1	27X24X36 "	BATH BASE CAB

STAIR DETAILS

STAIR SPECIFICATIONS

1. Stairs to be constructed with the following materials:
   2x6 kick plate anchor to concrete with expansion type anchor bolts,
   2x12 treads nosing 1 1/8" minimum, 3-2x12 stringers required,
   2x12 blocking, ¾" wafer board risers and 2x6 ledger.
2. Handrail/Guardrails final style, material and color to be owner's choice. Design to be per code.
3. Guardrails to be 42" high minimum from floor.
4. Handrails to be 34"-38" above tread nosing.
5. Open railing to have intermediate rails or ornamental pattern such that a sphere 4" round cannot pass through.
6. Minimum stair requirements: maximum 8" rise, minimum 42" width, minimum 9" run, minimum head clearance 6'-8".
7. Preferred stair requirements: rise 7" to 7 ½", run 11" to 12", minimum head clearance 7'-0".
8. Garage entrance stairs may be concrete or wood as per contractor/homeowner

Kitchen layout and cabinets to be chosen by homeowner/Contractor basic layout for reference only. Measure after sheetrock is installed for correct sizing.



Cabinet Detail

SCALE 1/4"=1'

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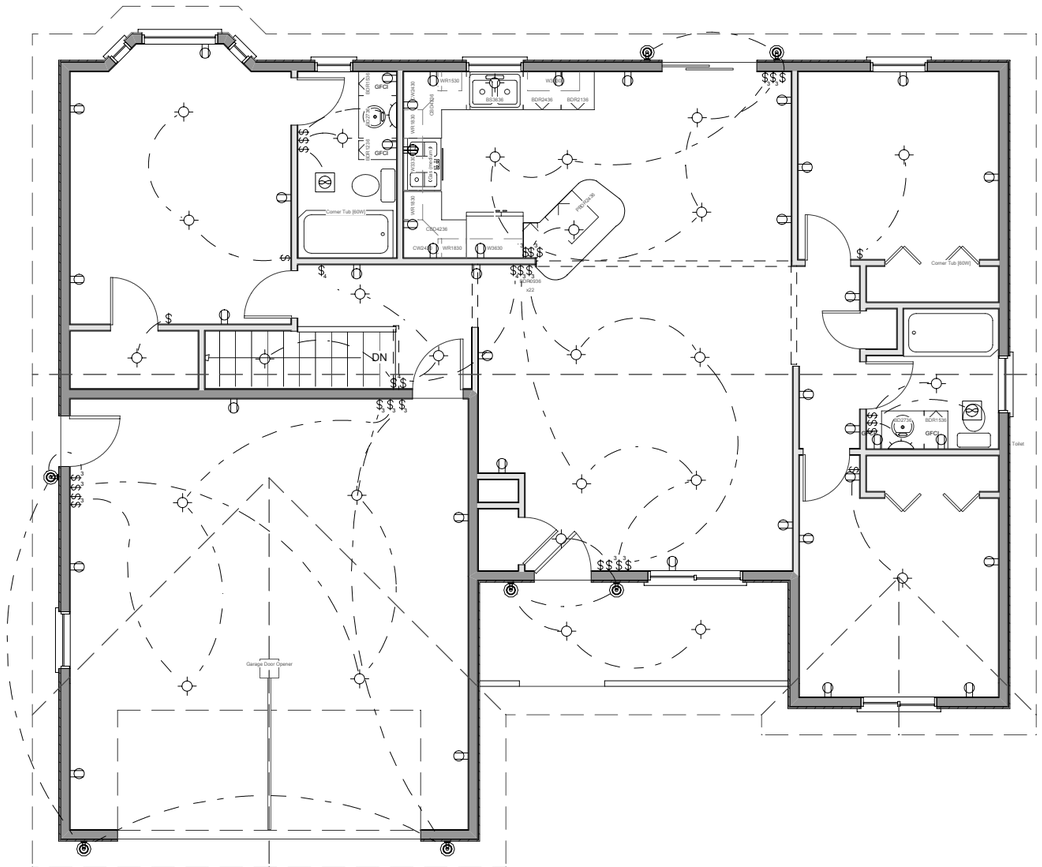
ELECTRICAL SCHEDULE					
NUMBER	QTY	FLOOR	DIMENSIONS	WIDTH	DESCRIPTION
E01	2	1	12X12X1 "	12 "	EXHAUST
E02	27	1	16X16X4 "	16 "	HALF DOME LIGHT - LIGHTING GREY
E03	2	1	16X8X8 "	16 "	HALF CONE - LIGHTING GREY
E04	2	1	3X0X5 "	3 "	220V
E05	36	1	3X0X5 "	3 "	DUPLEX
E06	4	1	3X0X5 "	3 "	GFCI
E07	3	1	3X1X5 "	3 "	FOUR WAY
E08	18	1	3X1X5 "	3 "	SINGLE POLE
E09	12	1	3X1X5 "	3 "	THREE WAY
E10	7	1	9X9X18 "	9 "	CAGED LANTERN

MAIN FLOOR ELECTRICAL PLAN

SCALE 1/8"=1'



Electrical Systems:

1. Inspection is required prior to backfill of lines.
2. Provide 20 ft. of No. 4 copper wire as ground electrode in foundation footing.
3. Bond interior piping system with #8 bare copper.
4. Provide main jumping bond with #4 bare copper.
5. Electrical service is to be 200 amp service, 120/240 volt, 1 phase raintight, underground.
6. Provide separate 20 amp circuits to washer.
7. Provide 20 amp circuits to family and dining room, and a minimum of two 20 amp circuits to kitchen.
8. Prewire for TV, telephone in kitchen, family room, living room, and in every bedroom.
9. Install ground fault current interrupter on exterior, garage, kitchen, and bathroom convenience outlets.
10. Bottom half of outlet controlled by switch when shown.
11. All outlets in kitchen are to be at +44" excluding those for the refrigerator, range, disposal, and dishwasher.
12. Maximum spacing of outlets shall not exceed 12 ft. along wall line and at any wall over 24" wide in all rooms except kitchen, bath, utility, and garage.
13. Install light in walk-in closet 18" minimum horizontal from any shelf.
14. Provide a ventilation fan capable of producing a change of air every 12 minutes for bath or utility.
15. Provide smoke detector alarm conforming to Section 1210(A) U.B.C. and local building codes in every bedroom and on each floor.
16. CO2 Detector on each floor.
17. Ceiling fan hangers on all bedroom and living room lights.
18. Consult with contractor and homeowner for all final light fixture and light placement and details.

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DATE 06/01/06
DRWN BY
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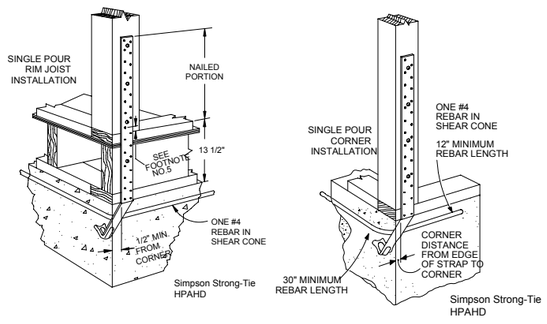
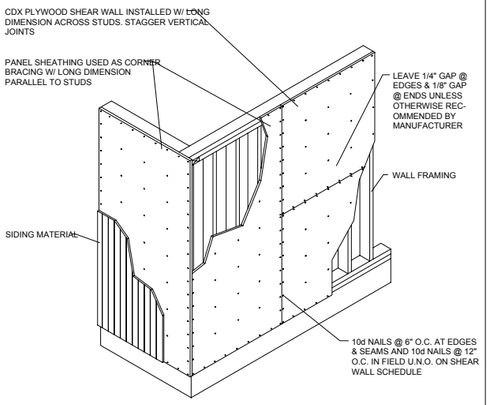
DATE
REVISIONS
JOB NO.
SHEET NO. 9 OF 12

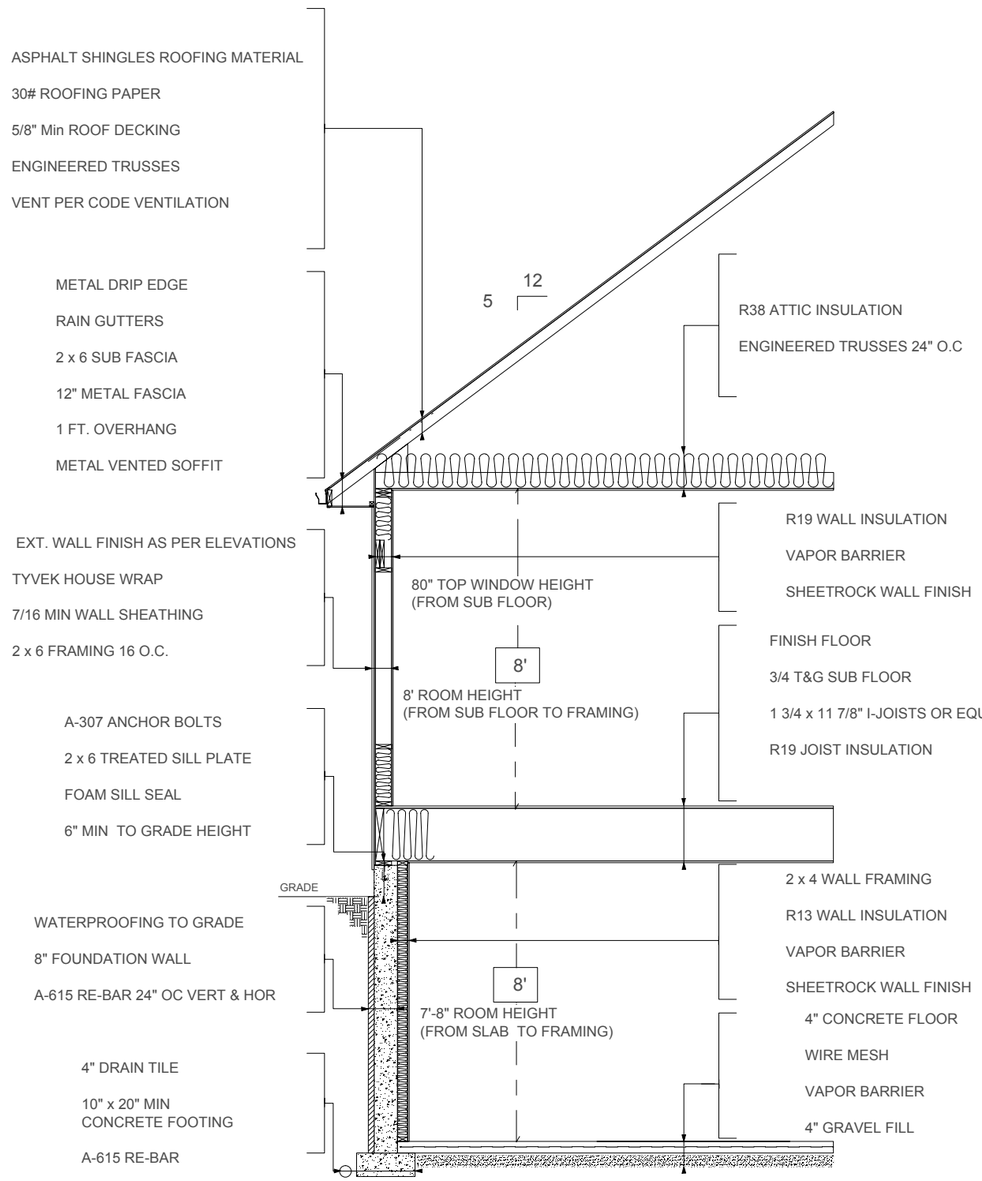
HD1 = HPAHD22 Simpson Hold Downs
HD2 = STHD14RJ Simpson Hold Downs



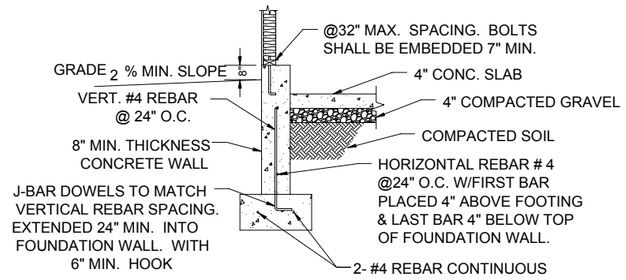


TYPICAL SHEAR WALL
N.T.S.

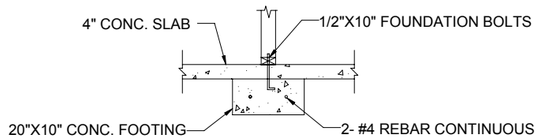
06A-1038



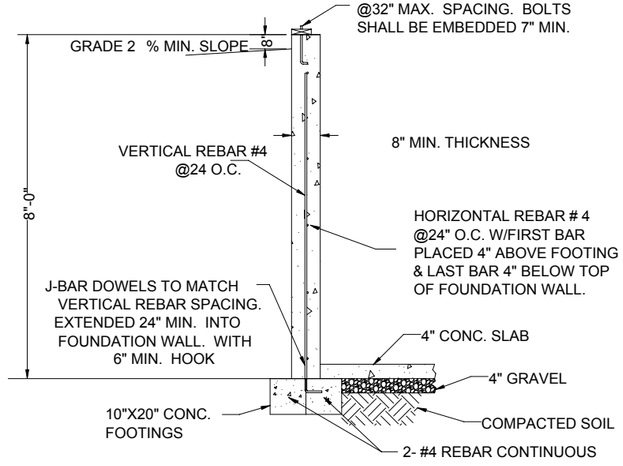
ONE STORY WALL SECTION STANDARD PLATFORM FRAMING
SCALE:NO SCALE



GARAGE WALL SECTION



BEARING WALL SECTION



BASEMENT WALL SECTION

Note: Paper size 11 x 17 B - size, scale is as stated if printed on 22 x 34 - D size scale is 2X

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Floor Joist Calculations

Floor Joist[2000 International Residential Code (97 NDS)] Ver: 5.05
By: SDSCAD Specialized Design Systems , SDSCAD on: 06-06-2006 : 5:26:43 PM
Project: - Location: Steve Brown North Logan
Summary:
SERIES 450 / 11.875 - Boise Cascade x 17.5 FT @ 16 O.C.
Section Adequate By: 9.3% Controlling Factor: Allowable Deflection
* I-joists were designed for simple spans using the joist manufacturers published values.
If the design does not match the actual joist loading or span conditions in any way,
contact the joist manufacturer for design verification.
Joist Span Deflections:
Dead Load: DLD-Center= 0.16 IN
Live Load: LLD-Center= 0.37 IN = L/562
Total Load: TLD-Center= 0.53 IN = L/394
Joist Span Left End Reactions (Support A):
Live Load: LL-Rxn-A= 408 LB
Dead Load: DL-Rxn-A= 175 LB
Total Load: TL-Rxn-A= 583 LB
Bearing Length Required (Beam only, Support capacity not checked):BL-A=1.75IN
Joist Span Right End Reactions (Support B):
Live Load: LL-Rxn-B= 408 LB
Dead Load: DL-Rxn-B= 175 LB
Total Load: TL-Rxn-B= 583 LB
Bearing Length Required (Beam only, Support capacity not checked):BL-B=1.75IN
Joist Data:
Joist Span Length: L2= 17.5 FT
Floor sheathing applied to top of joists-top of joists fully braced.
Live Load Duration Factor: Cd= 1.00
Live Load Deflect. Criteria: L/ 480
Total Load Deflect. Criteria: L/ 360
Joist Span Loading:
Uniform Floor Loading:
Live Load: LL-2= 35.0 PSF
Dead Load: DL-2= 15.0 PSF
Total Load: TL-2= 50.0 PSF
Total Load Adjusted for Joist Spacing: wT-2= 67 PLF
Properties For: SERIES 450 / 11.875- Boise Cascade

Garage Door Header Calculations

Roof Beam[2000 International Residential Code (97 NDS)] Ver: 5.05
By: SDSCAD Specialized Design Systems , SDSCAD on: 06-06-2006 : 5:52:22 PM
Project: SteveB - Location: Garage Door Header
Summary:
(2) 1.75 IN x 14.0 IN x 16.0 FT / Versa-Lam 2800 Fb DF - Boise Cascade
Section Adequate By: 48.3% Controlling Factor: Section Modulus / Depth Required 11.5 In
* Laminations are to be fully connected to provide uniform transfer of loads to all members
Deflections:
Dead Load: DLD= 0.19 IN
Live Load: LLD= 0.39 IN = L/496
Total Load: TLD= 0.58 IN = L/331
Reactions (Each End):
Live Load: LL-Rxn= 3360 LB
Dead Load: DL-Rxn= 1683 LB
Total Load: TL-Rxn= 5043 LB
Bearing Length Required (Beam only, Support capacity not checked):BL=1.60IN
Beam Data:
Span: L= 16.0 FT
Maximum Unbraced Span: Lu= 2.0 FT
Pitch Of Roof: RP= : 12
Live Load Deflect. Criteria: L/ 240
Total Load Deflect. Criteria: L/ 180
Roof Loading:
Roof Live Load-Side One: LL1= 35.0 PSF
Roof Dead Load-Side One: DL1= 15.0 PSF
Tributary Width-Side One: TW1= 12.0 FT
Roof Live Load-Side Two: LL2= 35.0 PSF
Roof Dead Load-Side Two: DL2= 15.0 PSF
Tributary Width-Side Two: TW2= 0.0 FT
Roof Duration Factor: Cd= 1.15
Beam Self Weight: BSW= 15 PLF
Slope/Pitch Adjusted Lengths and Loads:
Adjusted Beam Length: Ladj= 16.0 FT
Beam Uniform Live Load: wL= 420 PLF
Beam Uniform Dead Load: wD_adj= 210 PLF
Total Uniform Load: wT= 630 PLF
Properties For: Versa-Lam 2800 Fb DF- Boise Cascade
Bending Stress: Fb= 2800 PSI
Shear Stress: Fv= 285 PSI
Modulus of Elasticity: E= 2000000 PSI
Stress Perpendicular to Grain: Fc_perp= 900 PSI
Adjusted Properties
Fb' (Tension): Fb'= 3139 PSI
Adjustment Factors: Cd=1.15 Cl=0.99 Cf=0.98

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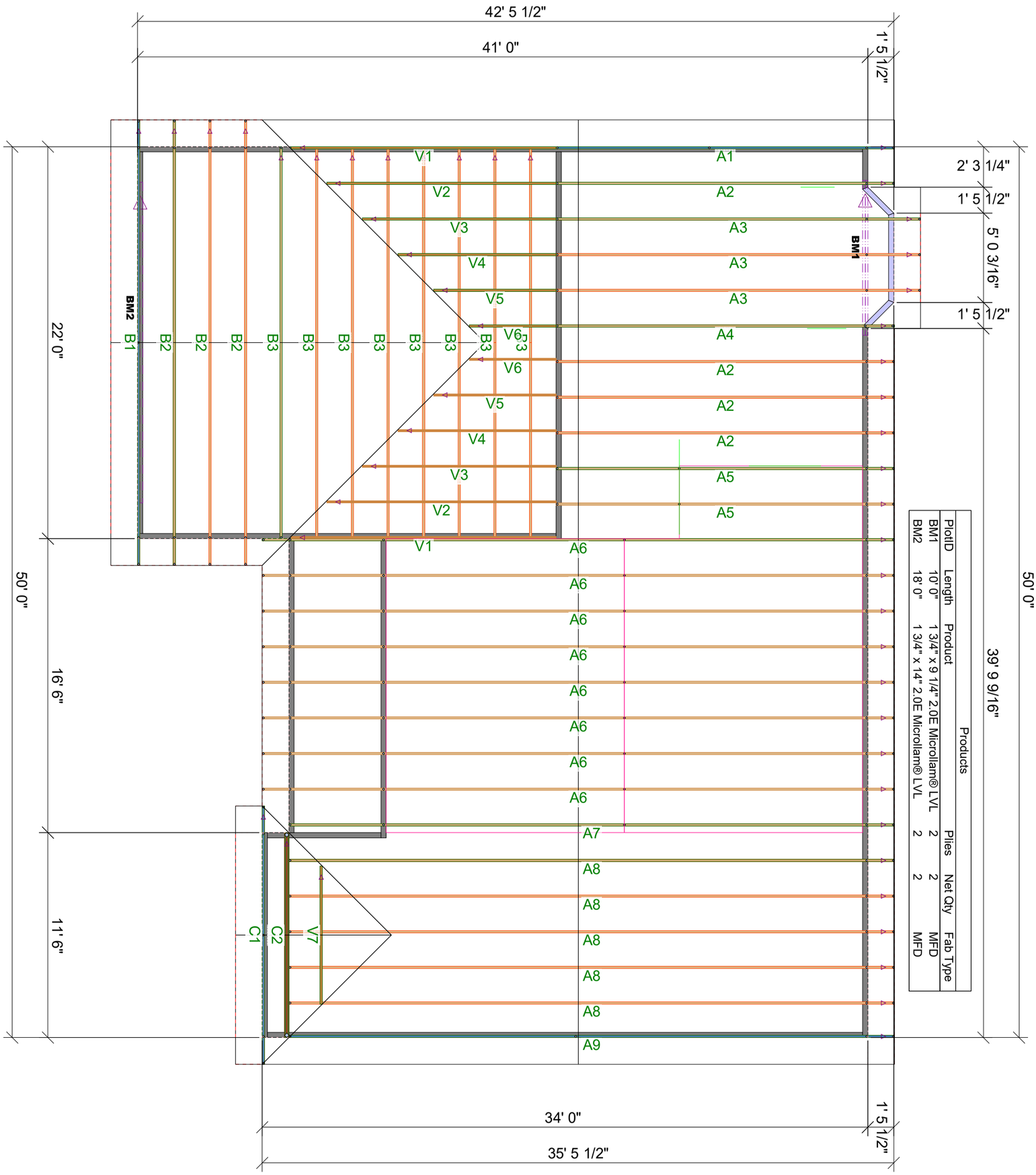

PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	10' 0"	1 3/4" x 9 1/4" 2.0E Microllam® LVL	2	2	MFD
BM2	18' 0"	1 3/4" x 14" 2.0E Microllam® LVL	2	2	MFD

Products

ROOF AREA: 2304.6 ft²_RIDGE LINE: 82.75 ft _ VALLEY LINES: 58.24 _ HIP LINES:0 _ △ **Indicates Left End of Truss**

Drawing Number **21060947**

Drawn By: JNN

Checked By: ***

Customer
CUF Keene

Job Name
Plan 153

Date:06/10/21
Scale:NTS
Quality Products for Quality Builders
Revision Date1:_____
Revision Date2:_____

UFP MID-ATLANTIC,LLC
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