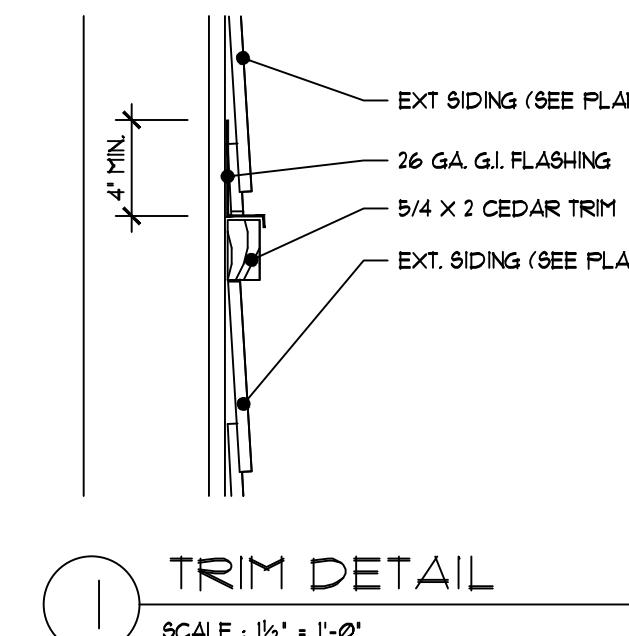


LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"



Important:

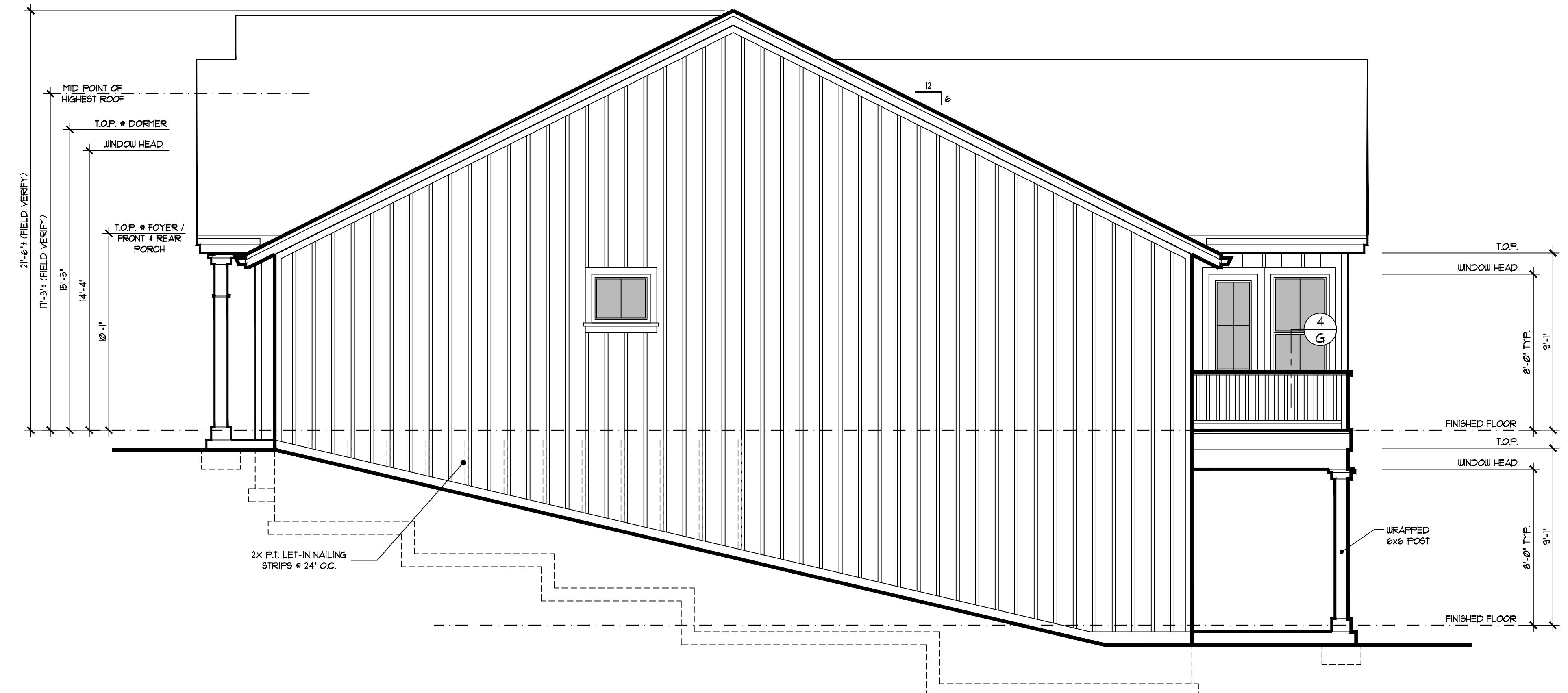
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FRONT ELEVATION

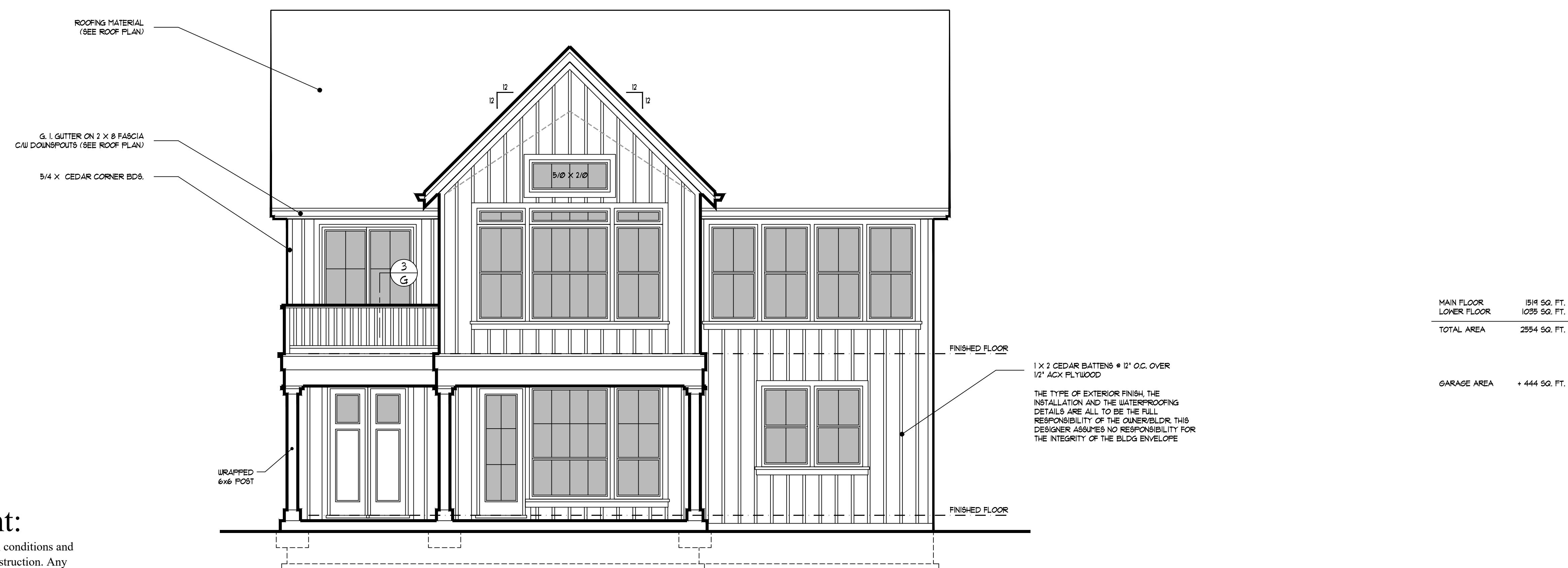
SCALE: 1/4" = 1'-0"

THE CONTRACTOR ASSUMES FULL RESPONSIBILITY
FOR THE CORRECT INSTALLATION OF ALL
EXTERIOR FINISHES AND WEATHERPROOFING



RIGHT SIDE ELEVATION

SCALE : 1/4" = 1'-0"



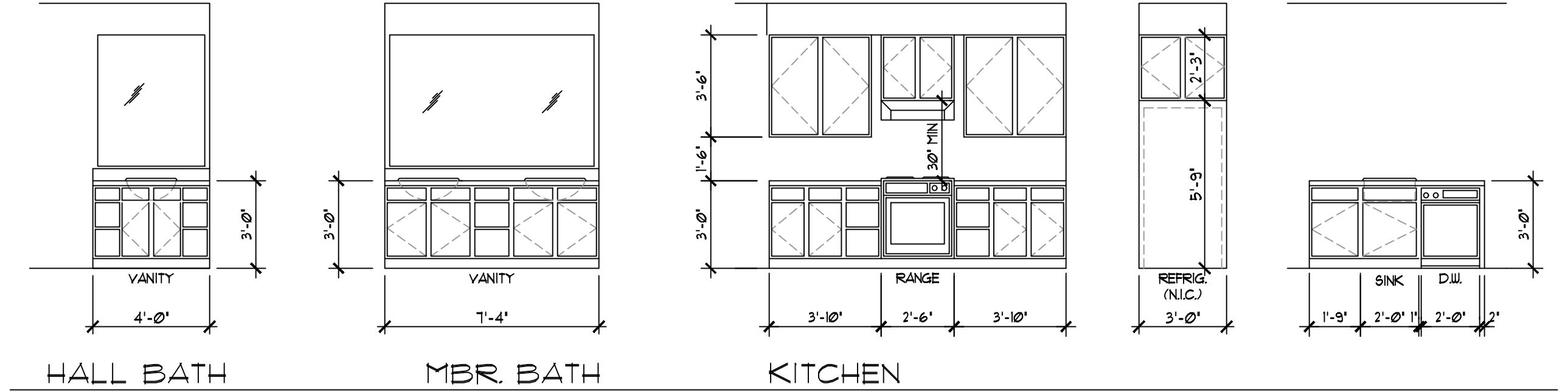
REAR ELEVATION

SCALE : 1/4" = 1'-0"

MODIFIED BY Lifestyle DESIGN SERVICE	NAME YARBOROUGH
2528 Lafayette Rd, Wayzata, MN 55391 Ph (888) 266-3439 Fx (651) 602-5050	PROJECT NUMBER 2022-410

Importa

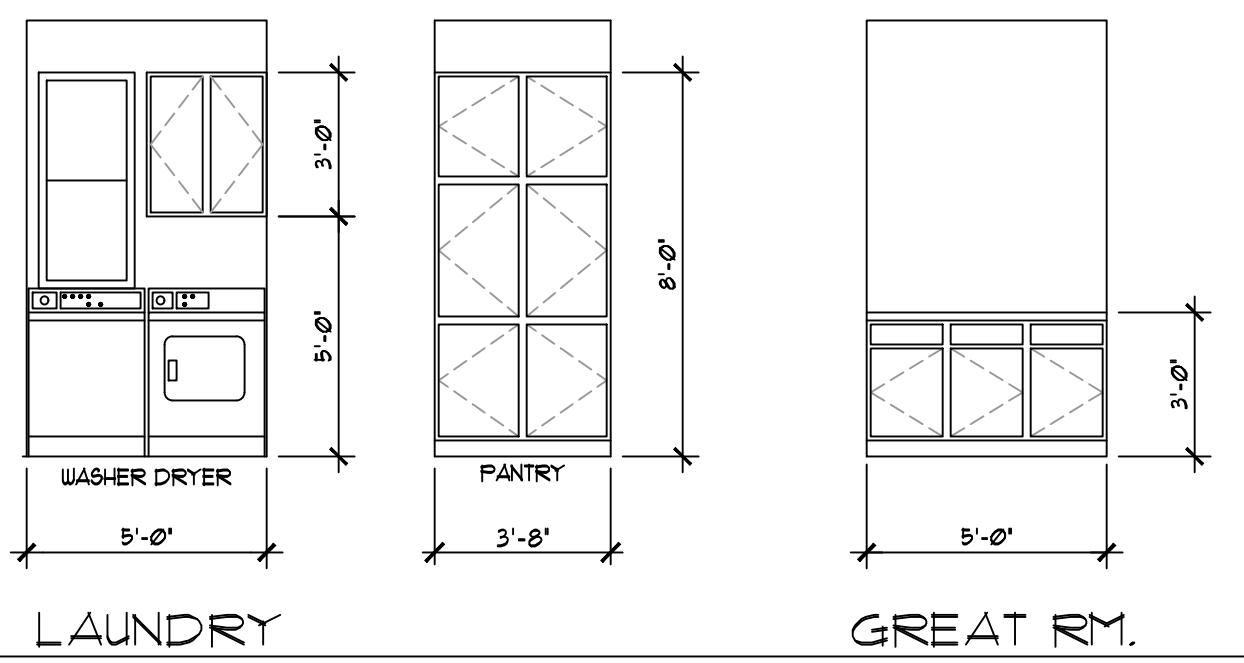
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HALL BATH

MR. BATH

KITCHEN



LAUNDRY

GREAT RM

LEGEND

- RECESSED LIGHT
- RECESSED DIRECTIONAL LIGHT FIXTURE
- WALL-MOUNT LIGHT
- SURFACE-MOUNT LIGHT
- FLOOD LIGHT
- SURFACE MOUNTED FLUORESCENT
- RECESSED EXHAUST FAN VENTED TO THE EXTERIOR
- CEILING FAN
- DUPLEX OUTLET
- CEILING MOUNTED DUPLEX OUTLET
- 220V OUTLET
- FLUSH FLOOR MOUNTED OUTLET (VERIFY LOC.)
- ◀ TELEPHONE OUTLET
- ◀ DATA OUTLET
- TELEVISION OUTLET
- ◀ SPEAKER LOCATION
- SMOKE / CO DETECTOR (SEE "GENERAL NOTES" FOR OTHER SPEC'S)
- BEARING POINT LOCATION (PROVIDE SOLID BEARING - MIN. OF MEMBER WIDTH U.N.O.)
- ||| POINT LOAD FROM ABOVE
- ||| 4 X 4 POST FROM ROOF HIP, VALLEY OR RIDGE DOWN TO BEARING POINT ON WALL BELOW (MAX. OF 45° FROM VERT.)
- || BEARING WALL SUPPORTING STRUCTURE ABOVE
- || 4 X 10 HDR @ BEARING WALL INT. DOOR & OPENINGS W/ MIN (2) 2 X SUPPORT EA END (U.N.O.)
- || DROPPED STRUCT. MEMBER BEARING @ WALL

ENERGY ENVELOPE KEY

 **WALL/FLR/CLG. INSUL.**
 **FOUNDATION INSUL.**

(SEE SHEET I-1 FOR INSULATION VALUES)

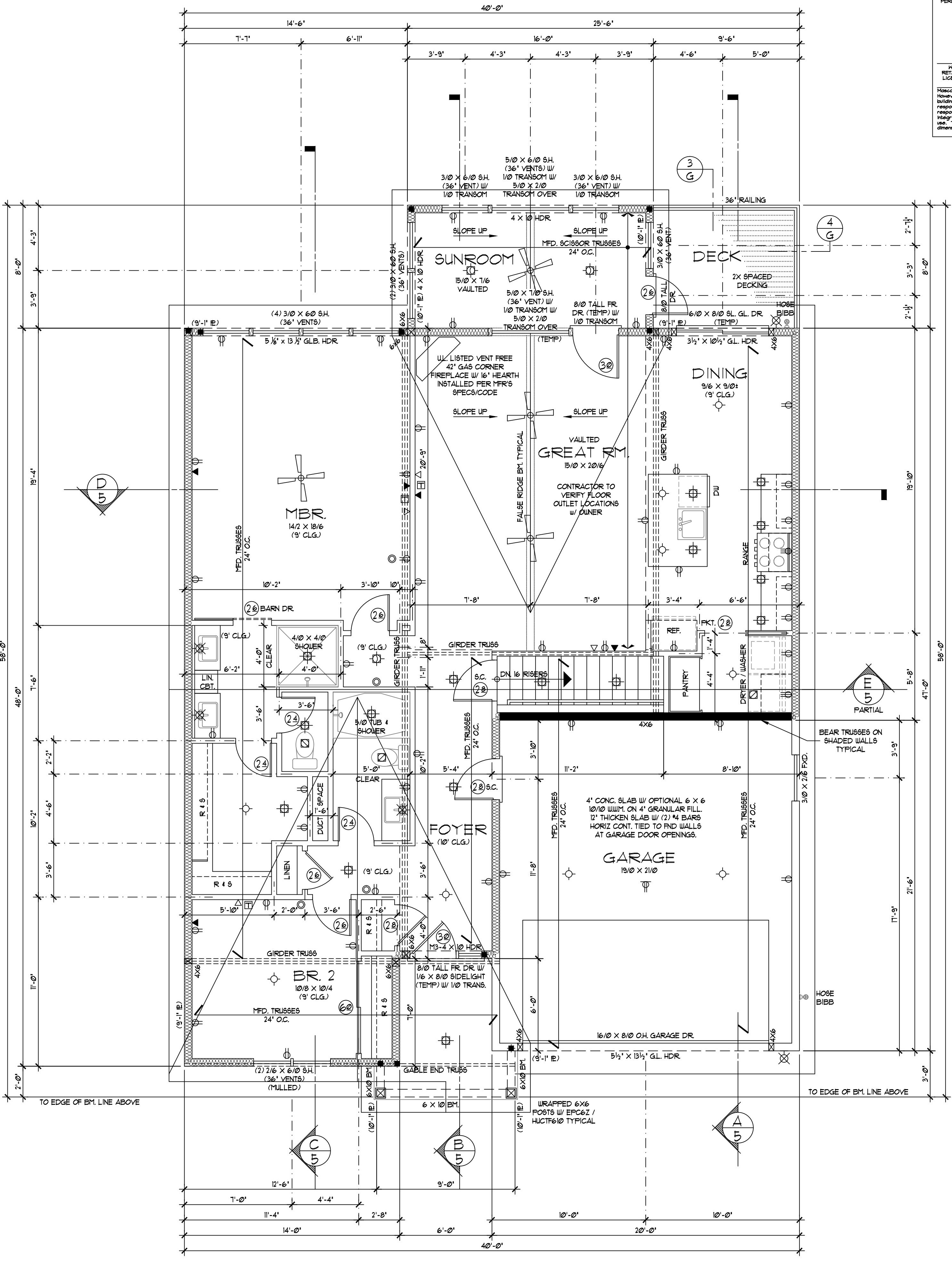
C.O. DET LOCATION

CARBON MONOXIDE ALARMS SHALL BE LOCATED IN EA. BEDROOM OR WITHIN 15 FEET OUTSIDE OF EA. BEDROOM DOOR, AT EVERY FLOOR LEVEL W/ BEDROOMS

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MAIN FLOOR PLAN

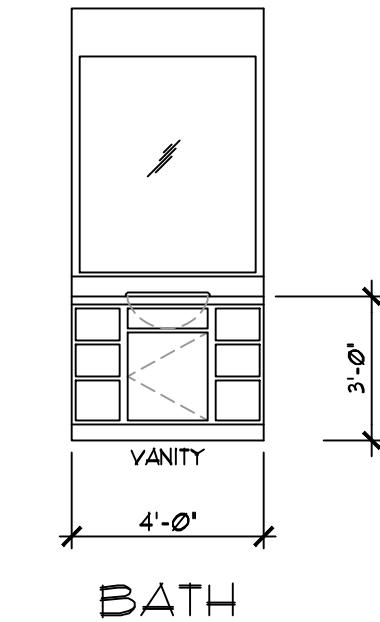
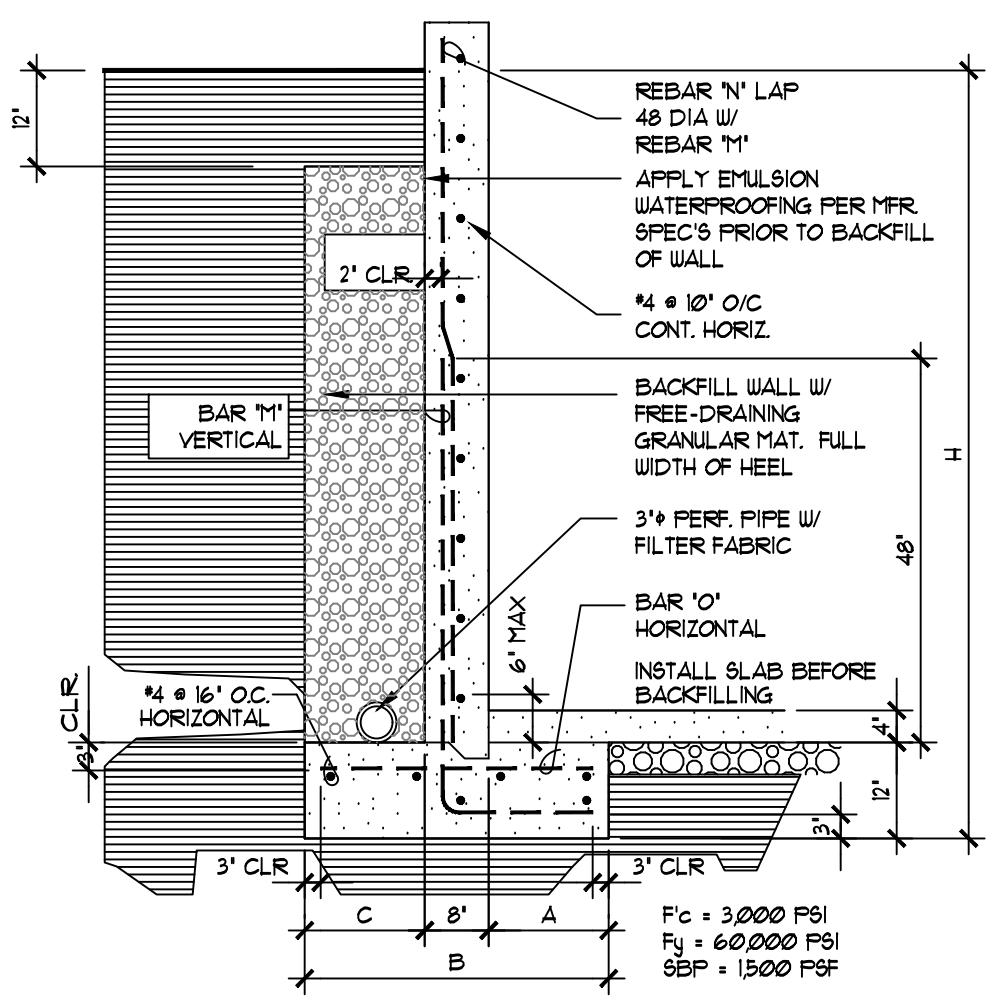
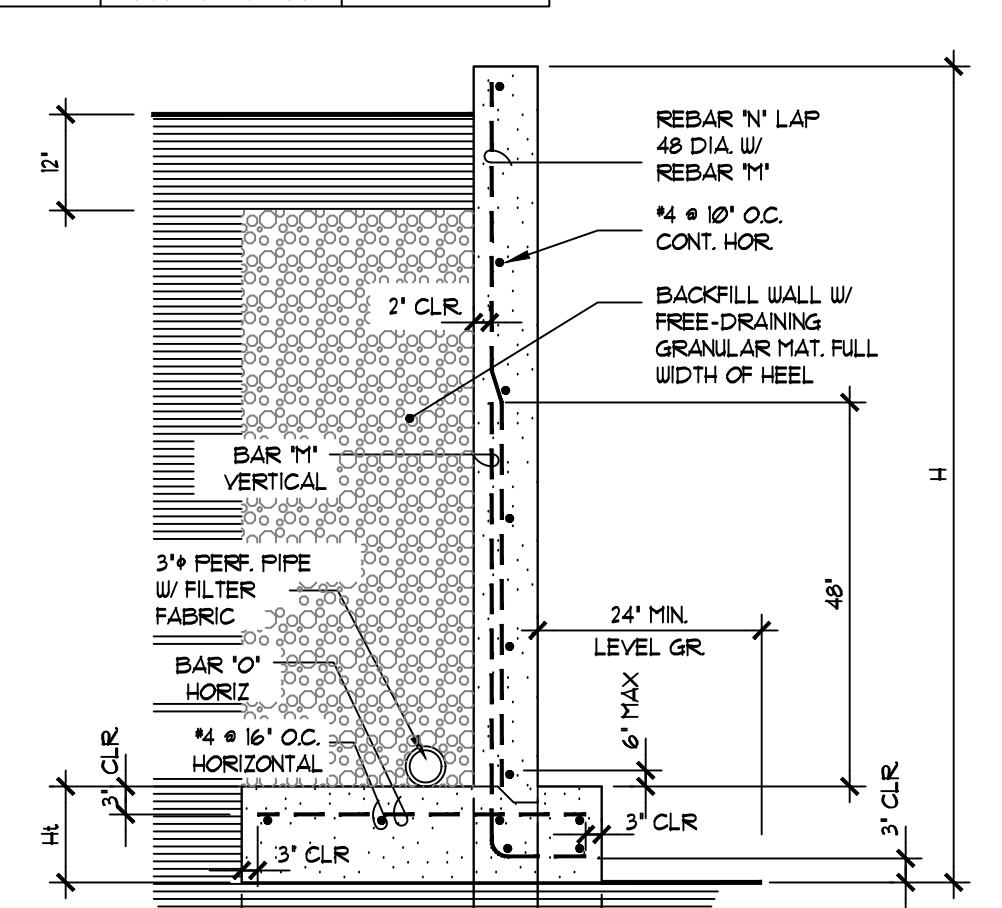
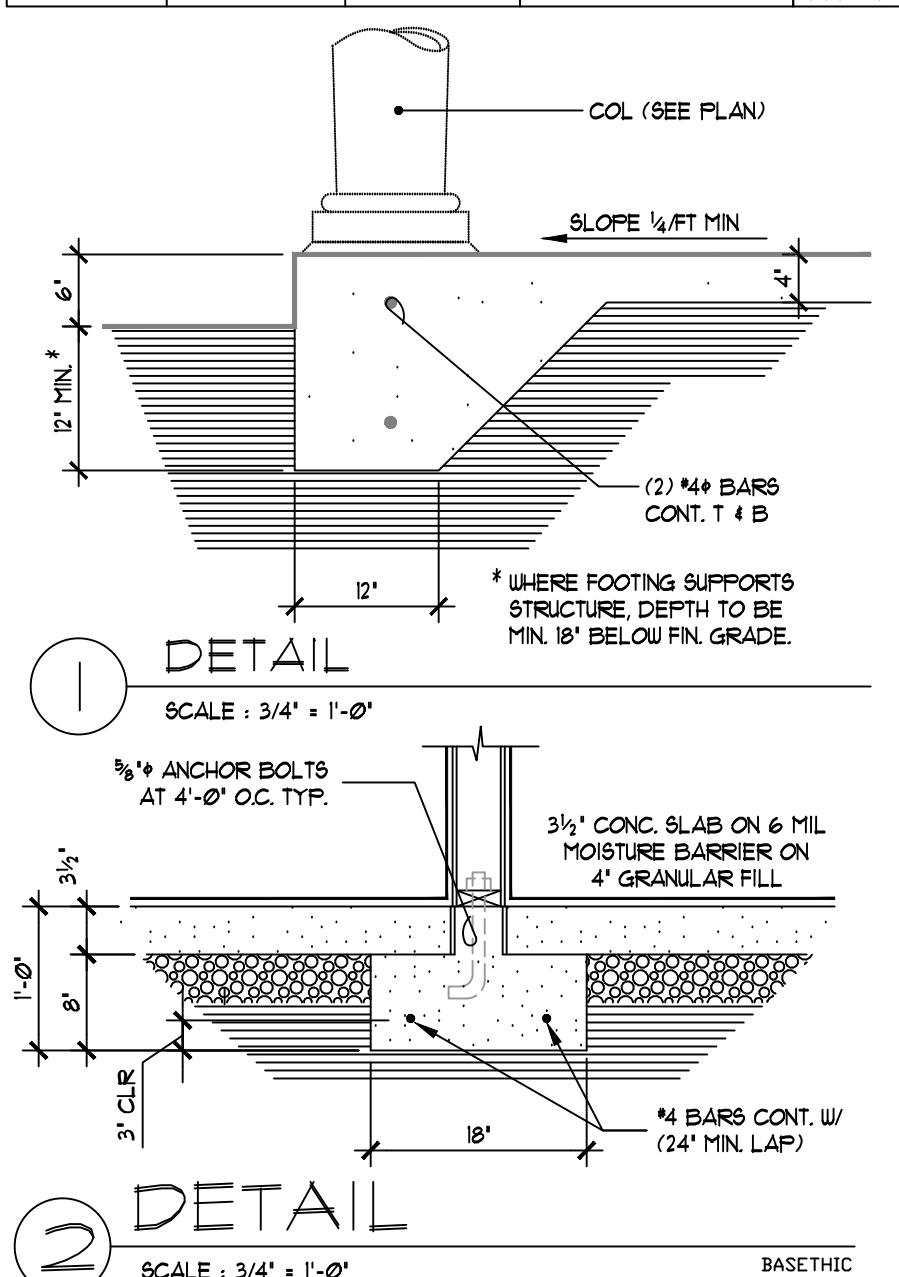
**IF LATERAL ENGINEERING IS REQUIRED, REFER TO
ENGINEERING SHEETS FOR LATERAL SPECIFICATIONS**

SCALE : 1/4" = 1'-0"

 <p>THE Mascord COLLECTION</p>	<p>LICENSE NUMBER: 125766</p> 
<p>PLANS ARE BASED UPON THE ORIGINAL DESIGN 1186A. © 2022 ALAN MASCORD DESIGN ASSOCIATES, INC.</p>	
<p>MISSION TO MAKE REVISIONS TO THE ORIGINAL DESIGN WERE GRANTED, BY LICENSE, TO (END USER):</p> <p style="text-align: center;">FREDDIE YARBOROUGH 214 CAROLINA WAY SANFORD, NC 27332 SITE: TBD</p>	
<p>AND THEIR DESIGN PROFESSIONAL (AGENT):</p> <p style="text-align: center;">LIFESTYLE HOME DESIGN 2528 LAFAYETTE RD WAYZATA, MN 55391 888-266-3439</p>	
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<p>and prepares its Plans carefully for use by its Customers. However, adaptation of the Plans to meet specific state and local building codes and regulations, and specific site conditions, is the responsibility of the contractor. In addition, Mascord will not be responsible for any damages relating to the accuracy and overall quality of the Plans in excess of the license fee paid for their preparation. The contractor, therefore, must carefully inspect all plans and details in the Plans for errors or omissions. THIS STAMP TO BE DISPLAYED ON ALL REVISED DRAWINGS</p>	

3

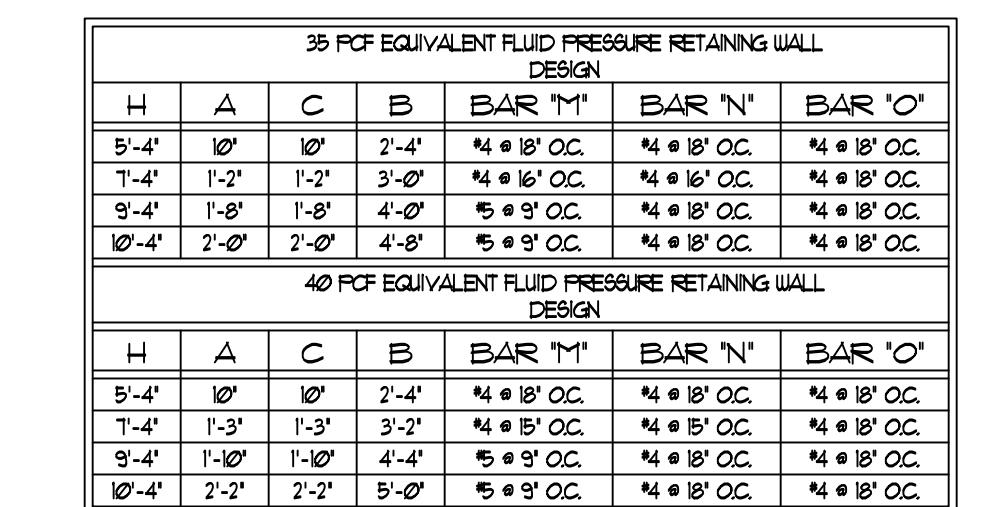
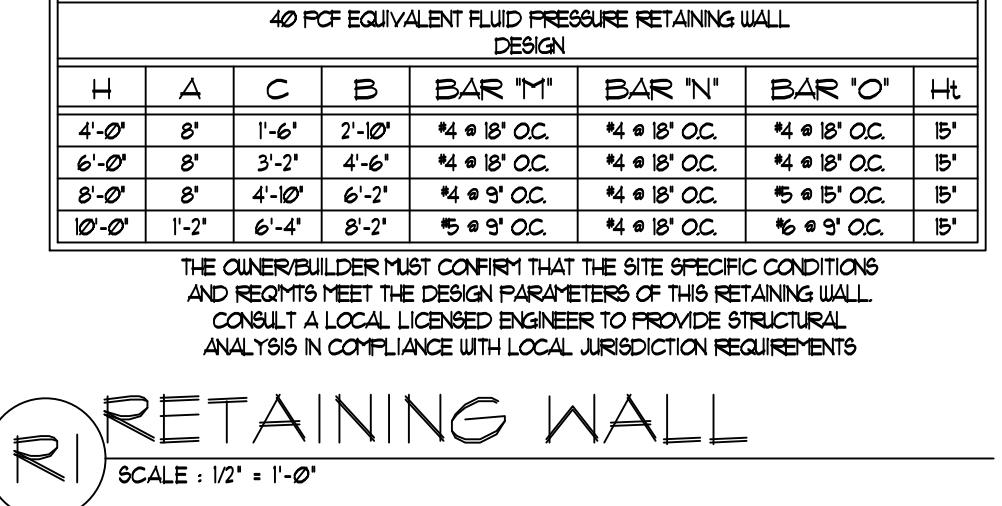
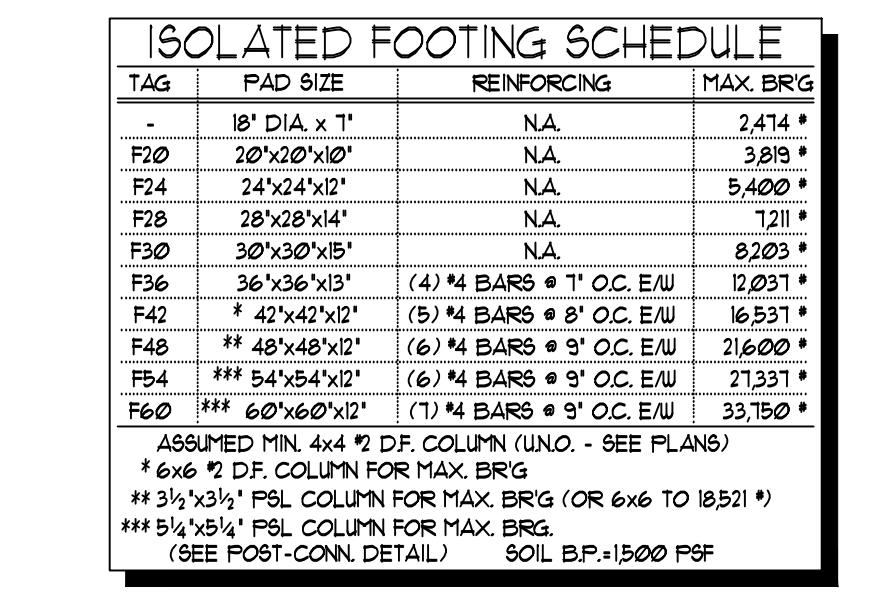
FOUNDATION VENTILATION CALCULATIONS (SEE GENERAL NOTES FOR ADDITIONAL INFORMATION)						
DESCRIPTION	UNDER-FLOOR AREA (FT ²)	NET AREA (IN ²) PER VENT	QTY OF VENTS REQ'D (WITHOUT CLASS-1 VAPOR BARRIER)	QTY. OF VENTS REQ'D (WITH CLASS-1 VAPOR BARRIER)	MECHANICAL VENTILATION RATE (CFM)	DEHUMIDIFICATION RATE (PINTS PER DAY)
AMOUNT/QTY	351	45	8	1	7.0	24.6
CODE REF.			R408.1 & R408.2	R408.1 & R408.2	R408.3 & N1102.11	R408.3.2.4
NOTES			1/150 OF UNDER-FLOOR AREA (NO VAPOR BARRIER REQUIRED)	1/1500 OF UNDER-FLOOR AREA (VAPOR BARRIER PERM RATING ≤ 0.1)	MECHANICAL VENT CAPABLE OF 1.0 CFM PER 50 FT ² OF UNDER-FLOOR AREA	



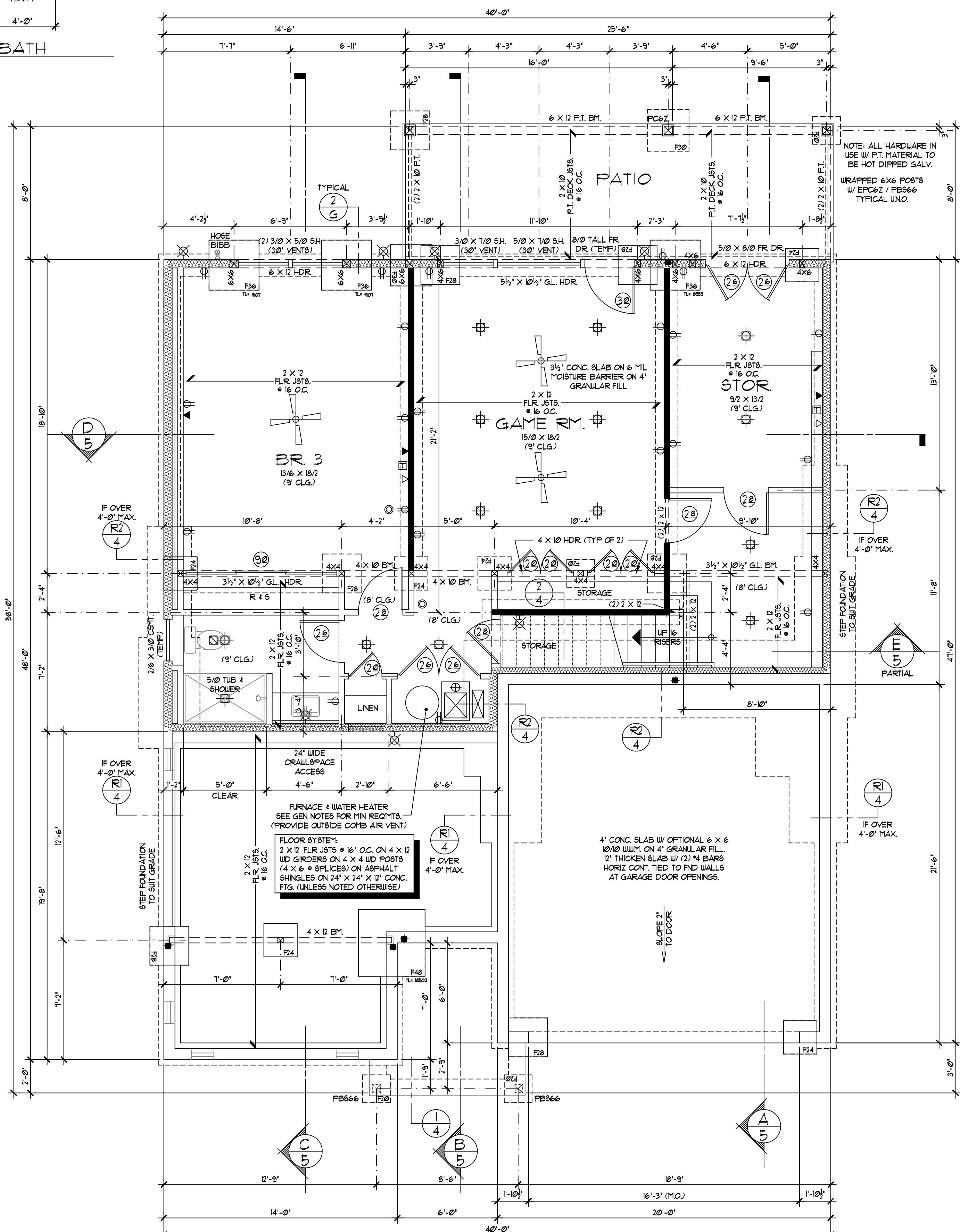
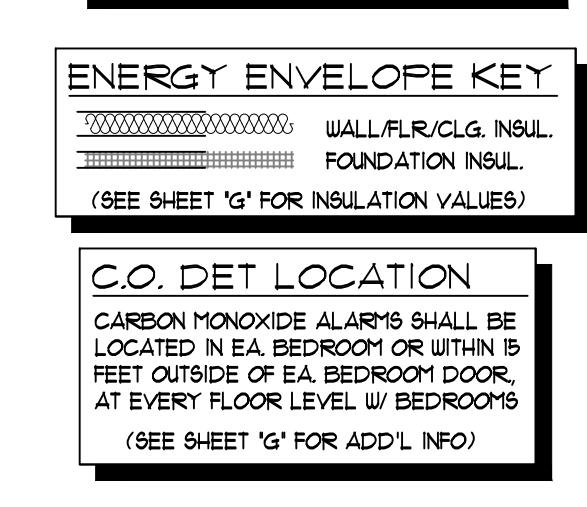
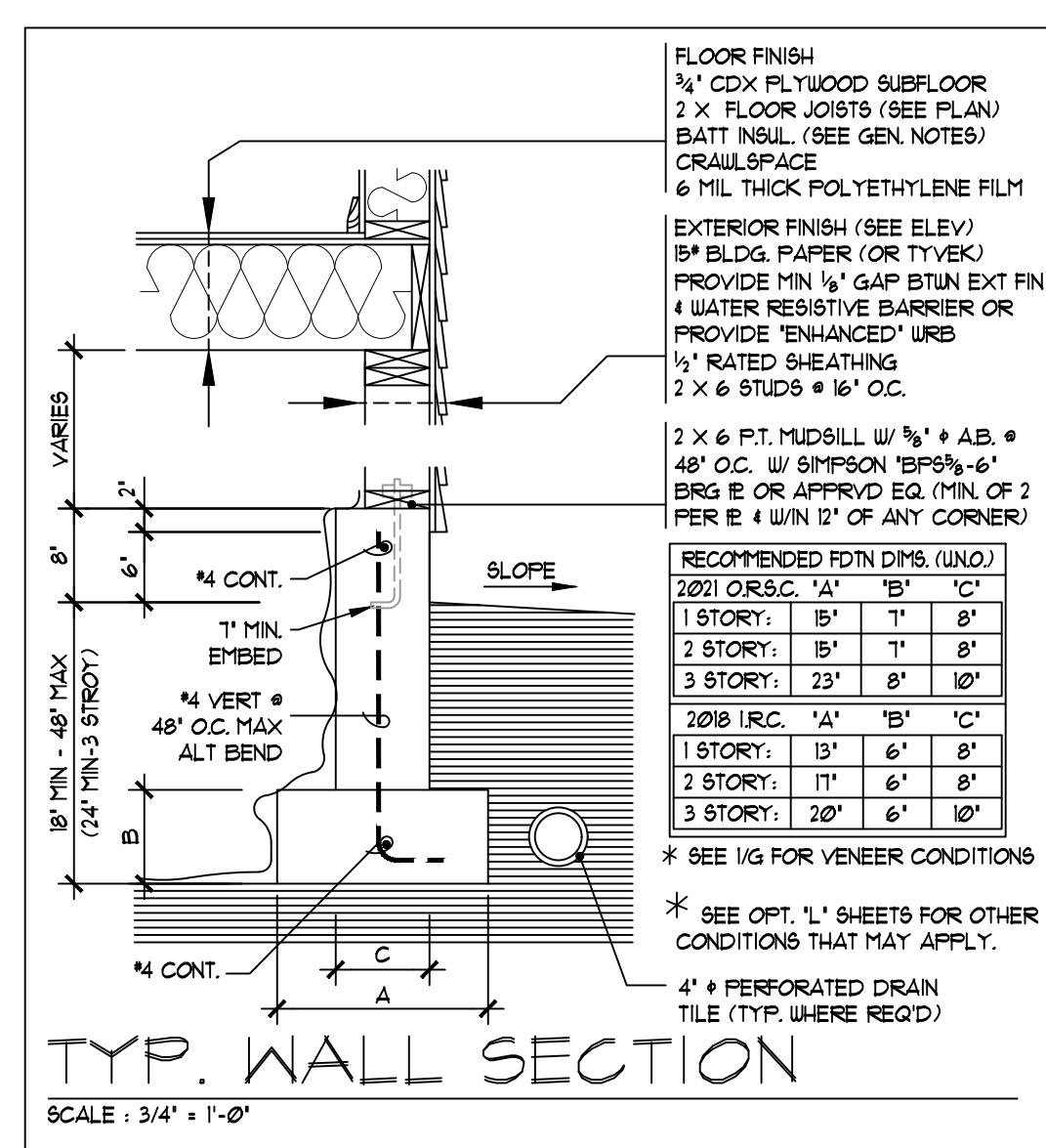
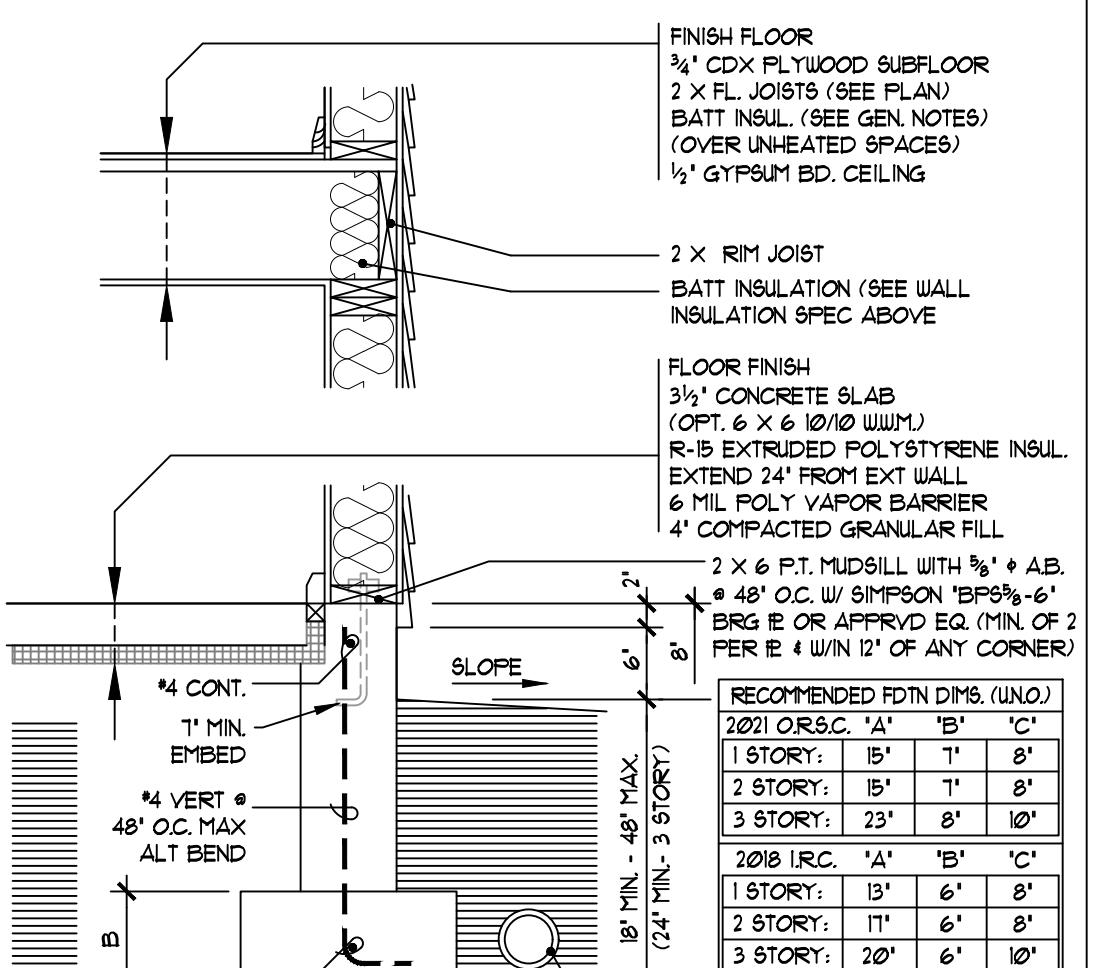
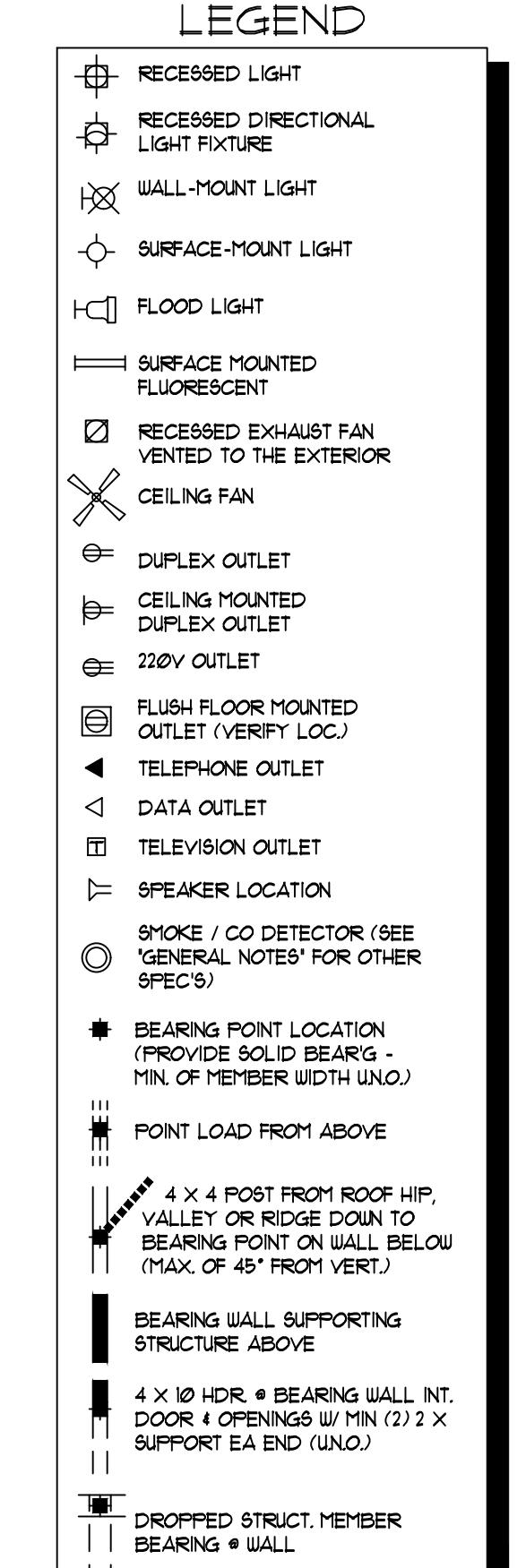
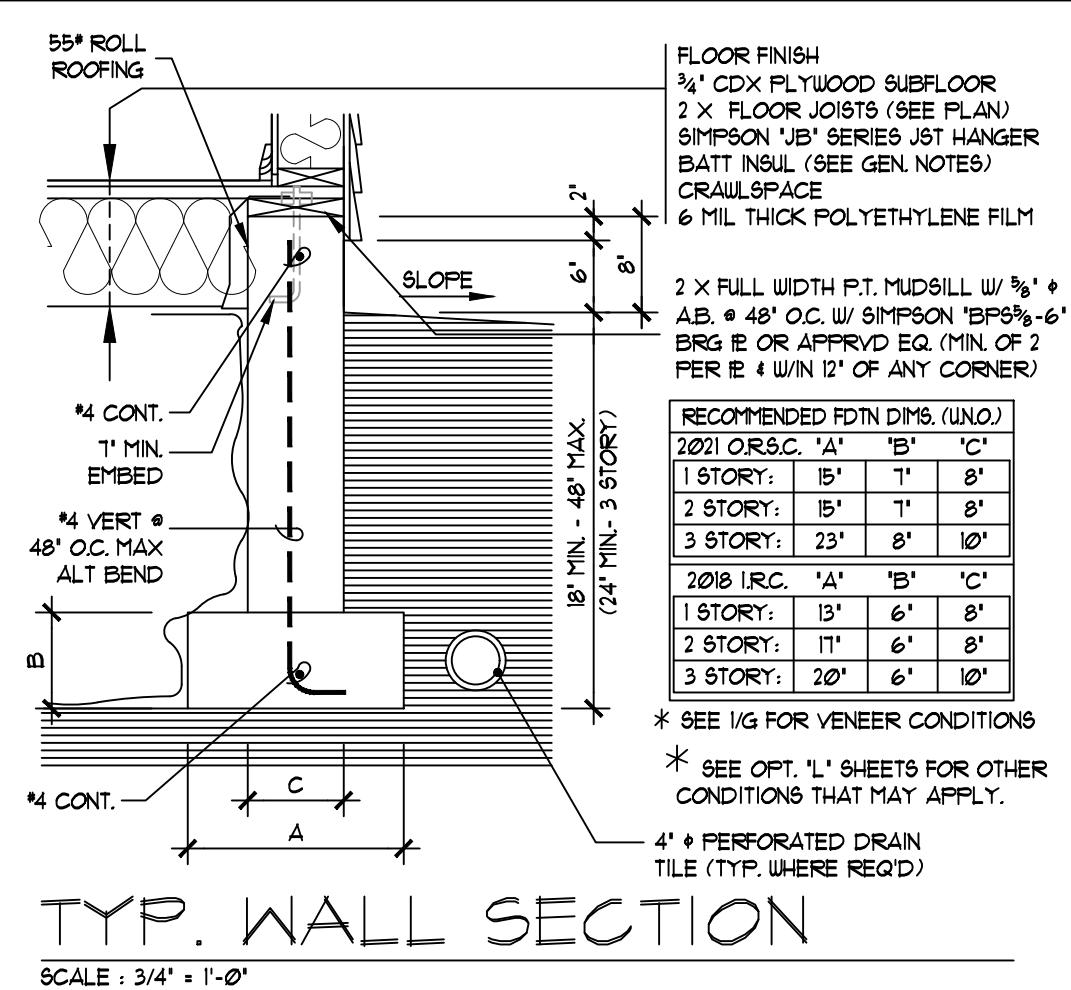
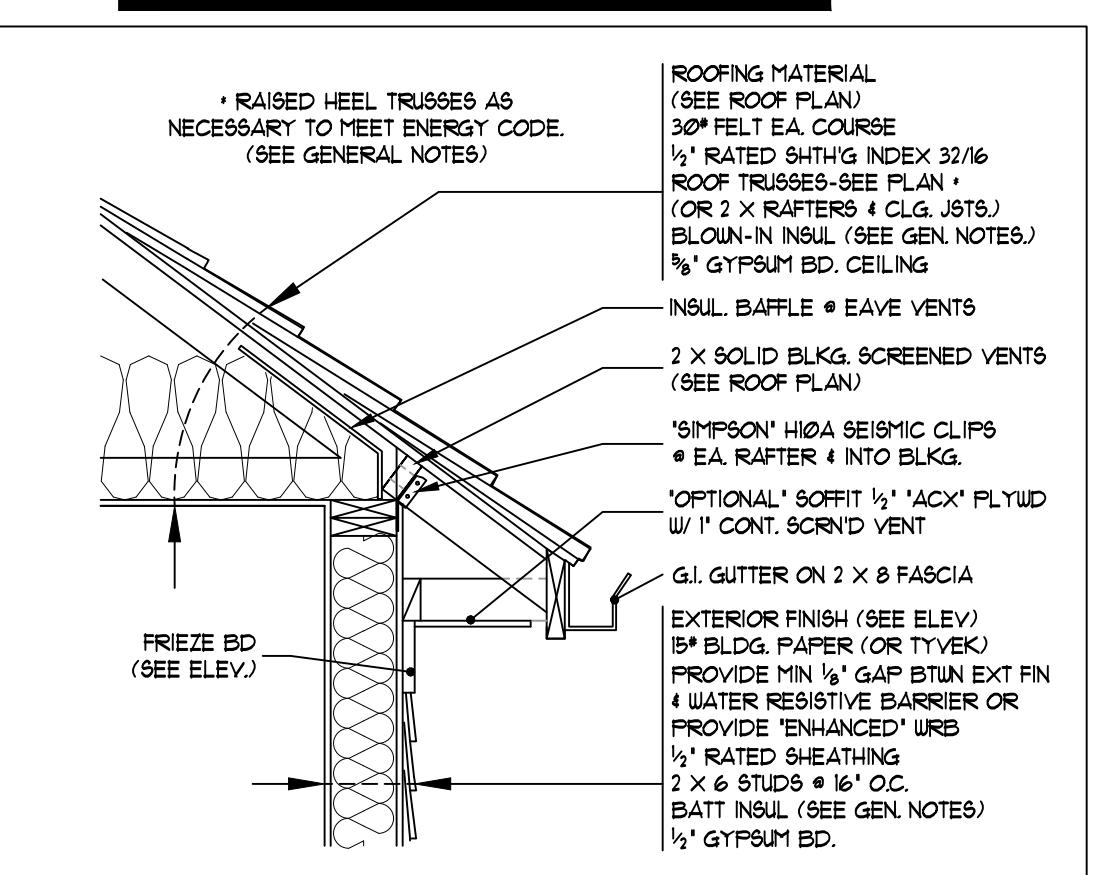
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	THE <i>Mascord</i> COLLECTION
LICENSE NUMBER: 125766	
	
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THIS STAMP TO BE DISPLAYED ON ALL REVISED DRAWINGS	

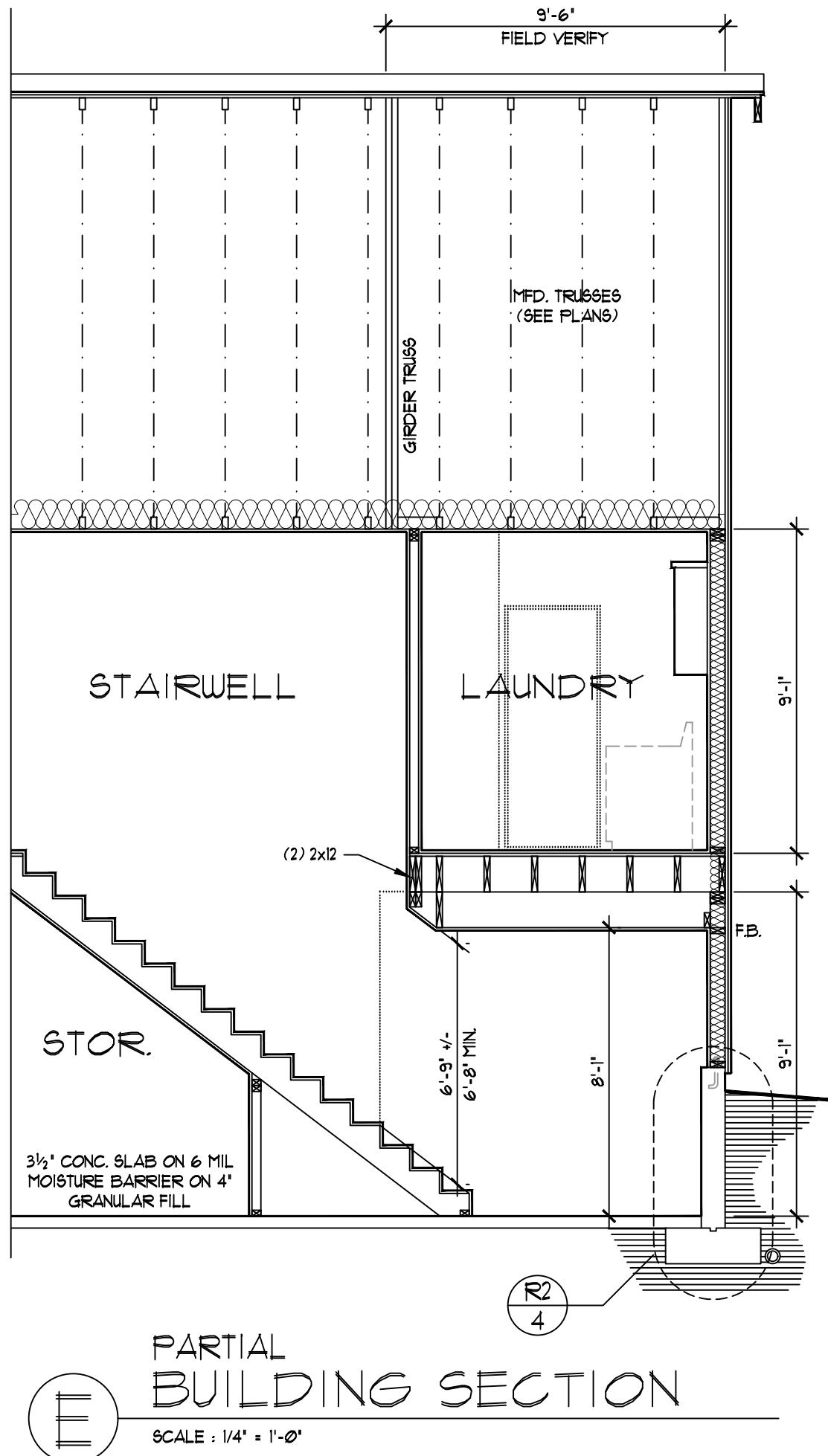


A floor plan of a bathroom. The room is 4'-0" wide and 3'-0" deep. The vanity is located in the center. A large rectangular area is marked with a diagonal line.



LOWER FLOOR / FOUNDATION PLAN

SCALE : 1/4" = 1'-0" ENGINEERING SHEETS FOR LATERAL SPECIFICATIONS



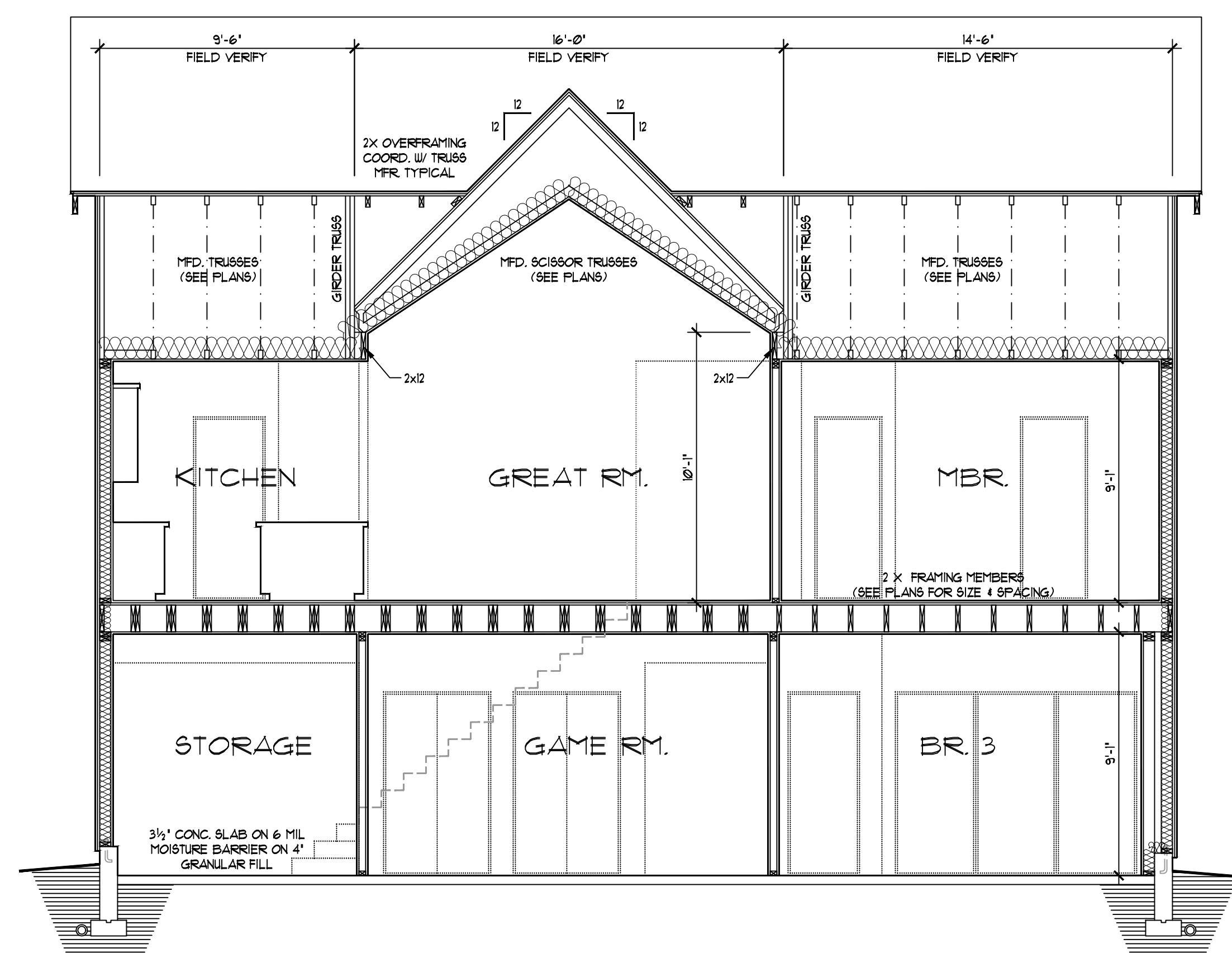
4

PARTIAL
BUILDING SECTION



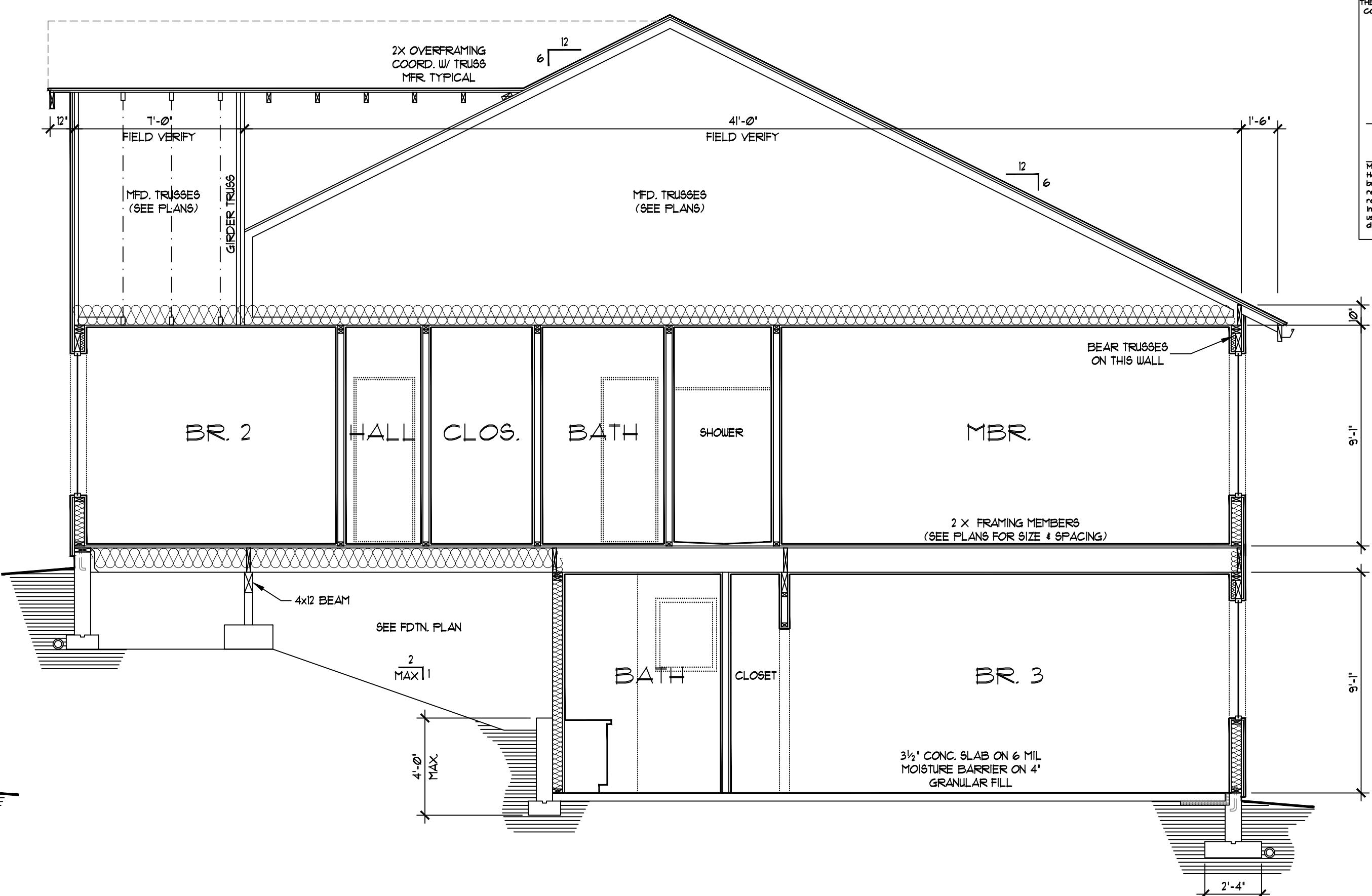
SCALE : 1/4" = 1'-0"

SCALE : 1/4" = 1'-0"



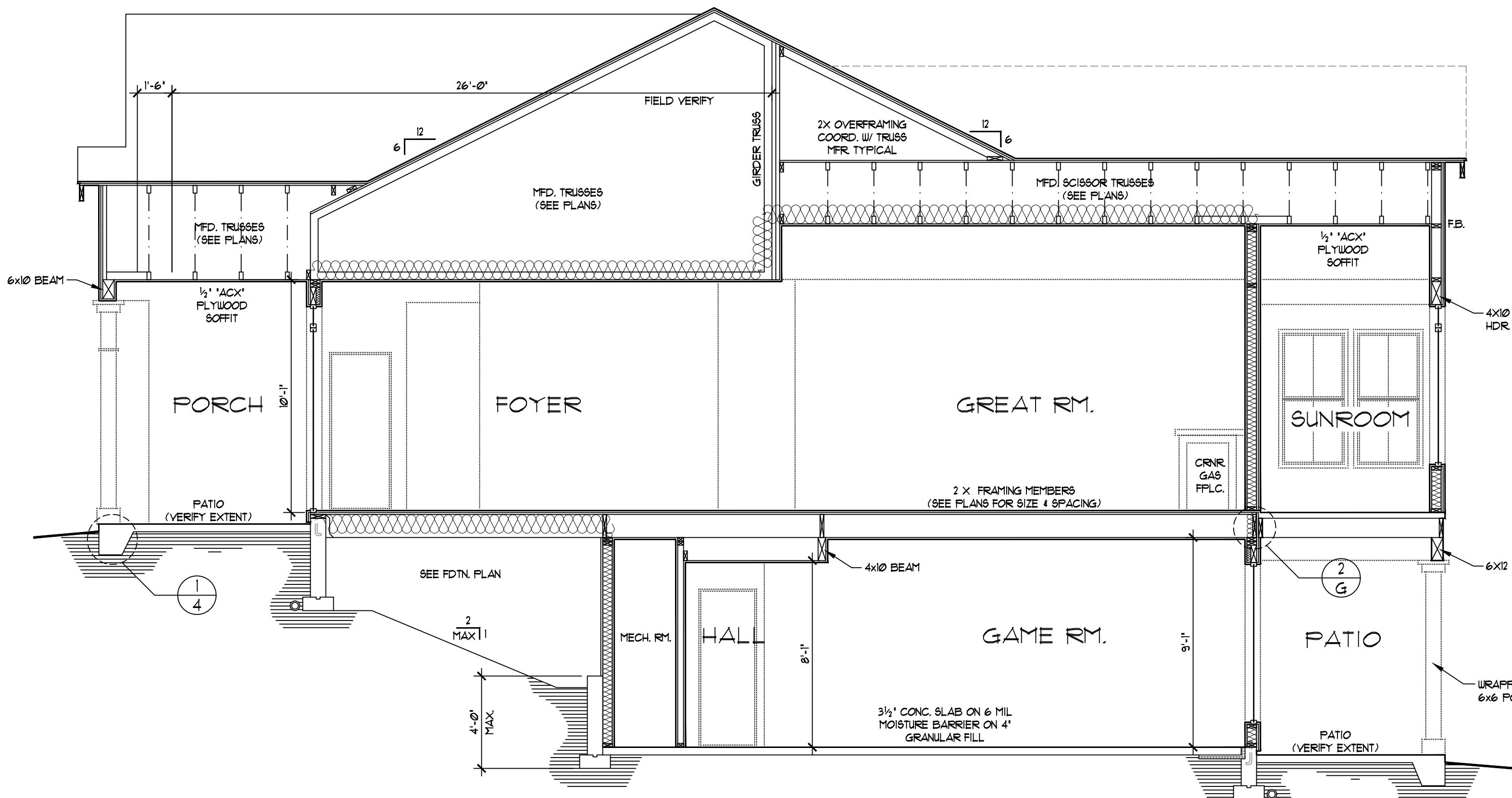
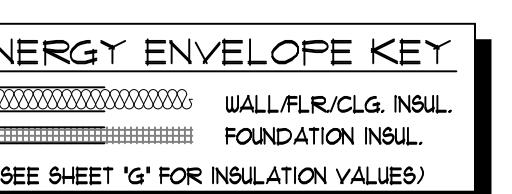
BUILDING SECTION

SCALE : 1/4" = 1'



BUILDING SECTION

SCALE : 1/4" = 1'-0"



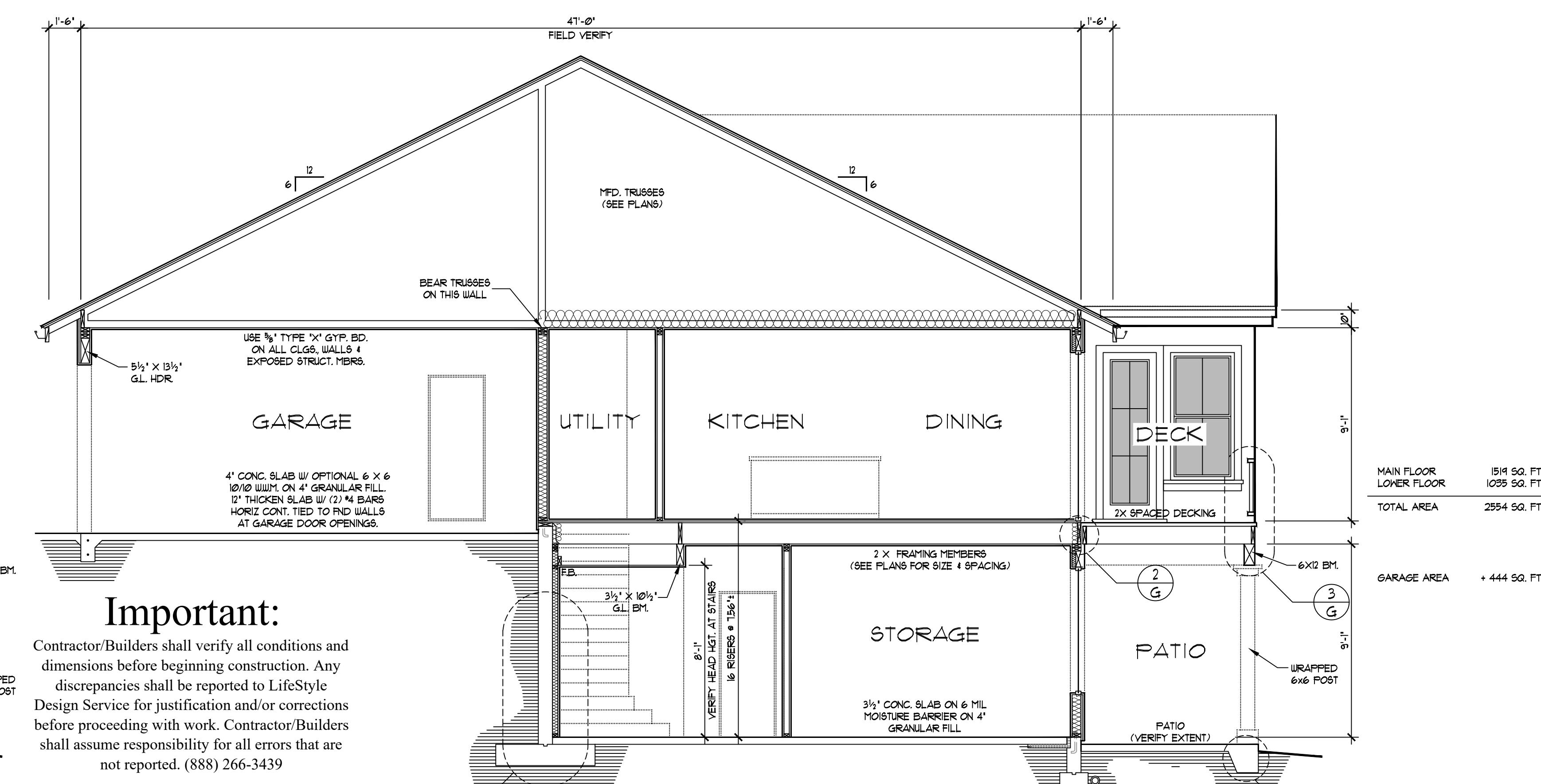
BUILDING SECTION

SCALE : 1/4" = 1'-0"



BUILDING SECTION

SCALE : 1/4" = 1'-0"



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not reported. (888) 266-3439

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GENERAL NOTES:

1. ALL WORK IS TO COMPLY WITH THE LATEST ADOPTED VERSION OF THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AND/OR ANY APPLICABLE STATE, COUNTY OR LOCAL JURISDICTION.

2. THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND IS TO NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION. OWNER/CONTRACTOR SHALL VERIFY WITH LOCAL BLDG. DEPT. WHICH CLIMATE ZONE THE PROJECT WILL BE BUILT IN.

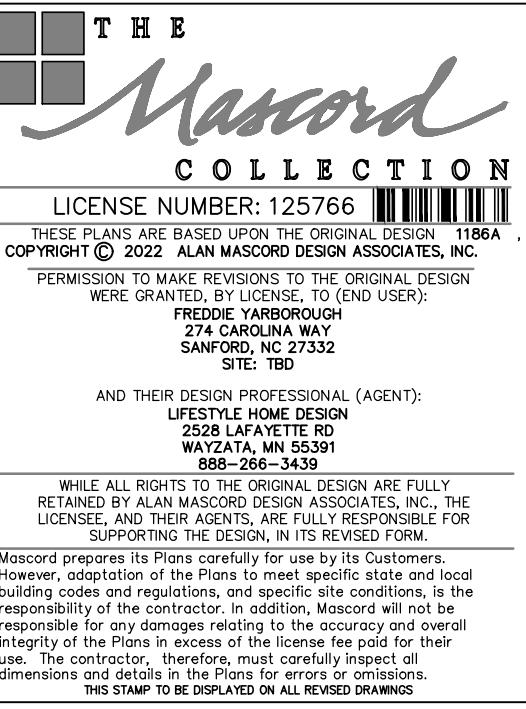
3. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.

USE	LL.	DL.
UNINHAB. ATTIC W/20 STORAGE	10	10
HABITABLE ATTIC W/1000' STORAG	20	10
HABITABLE ATTIC W/1000' STORAG	30	10
GUARD RAIL 4' HAND RAIL	200	-
GUARD RAIL IN-FILL COMPONENTS	50	-
PASSENGER VEHICLE GARAGE (3,000' POINT)	40	VARIES
ROOFING, SCAFFOLDING, AND SLEEPING ROOMS	30	10
SLEEPING ROOMS	30	10
STAIRS	40	-

(IF YOUR LOCAL AREA REQUIRES DIFFERENT DESIGN LOADS CONSULT WITH A LOCAL QUALIFIED PROFESSIONAL TO DETERMINE THE APPROPRIATE REVISIONS.)

5. INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT:

CLIMATE ZONE	1	2	3	4	Except Marine 5 And Marine 6	7	8
1. FENESTRATION	NR	0.40	0.32	0.32	0.30	0.30	0.30
2. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
3. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
4. GLZ. R-VALUE	J	30	38	38	48	48	48
5. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
6. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
7. GLZ. R-VALUE	J	30	38	38	48	48	48
8. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
9. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
10. GLZ. R-VALUE	J	30	38	38	48	48	48
11. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
12. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
13. GLZ. R-VALUE	J	30	38	38	48	48	48
14. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
15. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
16. GLZ. R-VALUE	J	30	38	38	48	48	48
17. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
18. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
19. GLZ. R-VALUE	J	30	38	38	48	48	48
20. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
21. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
22. GLZ. R-VALUE	J	30	38	38	48	48	48
23. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
24. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
25. GLZ. R-VALUE	J	30	38	38	48	48	48
26. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
27. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
28. GLZ. R-VALUE	J	30	38	38	48	48	48
29. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
30. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
31. GLZ. R-VALUE	J	30	38	38	48	48	48
32. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
33. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
34. GLZ. R-VALUE	J	30	38	38	48	48	48
35. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
36. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
37. GLZ. R-VALUE	J	30	38	38	48	48	48
38. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
39. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
40. GLZ. R-VALUE	J	30	38	38	48	48	48
41. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
42. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
43. GLZ. R-VALUE	J	30	38	38	48	48	48
44. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
45. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
46. GLZ. R-VALUE	J	30	38	38	48	48	48
47. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
48. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
49. GLZ. R-VALUE	J	30	38	38	48	48	48
50. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
51. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
52. GLZ. R-VALUE	J	30	38	38	48	48	48
53. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
54. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
55. GLZ. R-VALUE	J	30	38	38	48	48	48
56. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
57. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
58. GLZ. R-VALUE	J	30	38	38	48	48	48
59. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
60. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
61. GLZ. R-VALUE	J	30	38	38	48	48	48
62. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
63. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
64. GLZ. R-VALUE	J	30	38	38	48	48	48
65. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
66. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
67. GLZ. R-VALUE	J	30	38	38	48	48	48
68. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
69. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
70. GLZ. R-VALUE	J	30	38	38	48	48	48
71. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
72. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
73. GLZ. R-VALUE	J	30	38	38	48	48	48
74. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
75. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
76. GLZ. R-VALUE	J	30	38	38	48	48	48
77. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
78. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
79. GLZ. R-VALUE	J	30	38	38	48	48	48
80. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
81. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
82. GLZ. R-VALUE	J	30	38	38	48	48	48
83. U-FACTOR	b	0.75	0.65	0.55	0.55	0.55	0.55
84. GLAZED FENESTRATION	b	0.25	0.25	0.25	0.40	NR	NR
85. GLZ. R-VALUE	J						



IN ADDITION TO THE CRAWL SPACE SEALING REQUIREMENTS, ONE OF THREE RADON MITIGATION METHODS SHALL BE IMPLEMENTED.

METHOD 1 - MECHANICAL VENTILATION (A103.5, EXCEPTION)

- PROVIDE AN APPROVED MECHANICAL CRAWL SPACE VENTILATION SYSTEM OR OTHER EQUIVALENT SYSTEM.
- METHOD 2 - PASSIVE SUB-MEMBRANE DEPRESSURIZATION SYSTEM (A103.5)
- PROVIDE FOUNDATION VENTILATION SYSTEM (SEE FOUNDATION NOTES FOR CRAWL SPACE VENTING).
- PROVIDE A SOIL-GAS RETARDER, SUCH AS 6 MIL POLYETHYLENE OR EQUIVALENT (SEE GAS-RETARDER NOTES).
- PROVIDE A VENT STACK (SEE VENT STACK NOTES).

RADON MITIGATION

THE FOLLOWING CONSTRUCTION TECHNIQUES AND MEASURES ARE INTENDED TO MITIGATE RADON ENTRY IN NEW CONSTRUCTION. THESE TECHNIQUES MAY BE REQUIRED ON A JURISDICTION BY JURISDICTION BASIS. FOR EXAMPLE, IN THE STATE OF OREGON, PER 2011 ORS, THE COUNTIES OF MULTNOMAH, CLACKAMAS, POLK, YAMhill, HOOD RIVER AND BAKER REQUIRE RADON MITIGATION AS DO THE COUNTIES OF CLARK, FERRY, KANASAS, LENO, CREEK, SISKIYOU, AND STEVENS, IN THE STATE OF WASHINGTON, PER 2015IRC/WAC 51-51-0201 & A101 & A103.

THE FOLLOWING ARE THE U.S. EPA MODEL STANDARDS AND TECHNIQUES FOR CONTROL OF RADON IN NEW RESIDENTIAL BUILDINGS; THESE SPECIFICATIONS MEET MOST NATIONAL CODES. THE BUILDER AND HOME OWNER SHOULD CHECK FOR ANY LOCAL VARIANTS TO THESE GUIDELINES.

BUILDING TIGHTNESS MEASURES

THE FOLLOWING ARE POINTS OF ENTRY TO PROTECT FROM PASSAGE OF RADON GAS INTO LIVING SPACES. PROVIDE POLYURETHANE CAULK OR EQUIVALENT SEALANT AT THE FOLLOWING CRITICAL POINTS:

SLAB-ON-GRADE AND BASEMENT WALLS

- CRACKS IN CONCRETE SLABS
- COLD JOINTS BETWEEN TWO CONCRETE POURS
- POLES AND JOINTS IN CONCRETE BLOCKS
- FLOOR-TO-WALL CRACK OR FRENCH DRAIN
- EXPOSED SOIL AS IN A SUMP
- MORTAR JOINTS
- LOOSE-FITTING PIPE PENETRATIONS
- OPEN TOPS OF BLOCK WALLS
- WATER (FROM SOIL WELLS)
- UNTRAPPED FLOOR DRAIN TO A DRY WELL OR SEPTIC SYSTEM.

CRAWL SPACE

- CRACKS IN SUBFLOORING AND FLOORING
- SPACES BEHIND STUD WALLS AND BRICK VENEER WALLS THAT REST ON UNCAPPED HOLLOW-BLOCK FOUNDATION
- ELECTRICAL PENETRATIONS
- LOOSE-FITTING PIPE PENETRATIONS
- OPEN TOPS OF BLOCK WALLS
- WATER (FROM SOIL WELLS)
- HEAT DUCT REGISTER PENETRATIONS
- COLD-AIR RETURN DUCTS IN CRAWL SPACE

CONDENSATE DRAINS SHALL BE RUN TO THE EXTERIOR USING NON-PERFORATED PIPE OR SHALL BE PROVIDED WITH AN APPROVED TRAP.

SUMP PITS THAT SERVE AS END POINT FOR A SUB-SLAB OR EXTERIOR DRAIN TILE LOOP SYSTEM, AND SUMP PITS WHICH ARE NOT SEALED FROM THE SOIL, SHALL BE FITTED WITH A GASKETED OR SEALED LID. WHERE THE SUMP IS USED AS AN END POINT IN A SUB-SLAB DEPRESSURIZATION SYSTEM, THE LID MUST BE DESIGNED TO ACCOMMODATE THE VENT PIPE. WHERE USED AS A FLOOR DRAINING, THE SUMP PIPES LID SHALL HAVE A TRAPPED INLET.

DUCTWORK WHICH PASSES THROUGH OR BEHIND A CONCRETE FLOOR SLAB SHALL BE FREE OF SEAMS AND MUST BE PERFORMANCE TESTED.

DUCTWORK PASSING THROUGH A CRAWLSPACE MUST HAVE ALL SEAMS AND JOINTS SEALED (PER 110.14). ALL JOINTS OF DUCT SYSTEMS USED IN THE HEATING OR COOLING OF A CONDITIONED SPACE SHALL BE SEALED BY MEANS OF TAPE, MASTIC, AEROSOL SEALANT, GASKETING OR OTHER APPROVED CLOSURE SYSTEMS, WHERE MASTIC IS USED TO SEAL OPENINGS GREATER THAN 1/4", A COMBINATION OF MASTIC AND TAPE SHALL BE USED.

CRAWLSPACE ACCESS, OR UNDER-FLOOR MECHANICAL EQUIPMENT ACCESS, OR ANY OTHER ACCESS POINT FROM THE HABITABLE SPACE INTO THE CRAWL SPACE, SUCH AS DOORS OR PANELS, MUST BE CLOSED AND GASKETED TO CREATE AN AIRTIGHT SEPARATION.

AIR HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT.

DUCTWORK WHICH PASSES THROUGH OR BEHIND A CONCRETE FLOOR SLAB SHALL BE FREE OF SEAMS AND MUST BE PERFORMANCE TESTED.

DUCTWORK PASSING THROUGH A CRAWLSPACE MUST HAVE ALL SEAMS AND JOINTS SEALED (PER 110.14). ALL JOINTS OF DUCT SYSTEMS USED IN THE HEATING OR COOLING OF A CONDITIONED SPACE SHALL BE SEALED BY MEANS OF TAPE, MASTIC, AEROSOL SEALANT, GASKETING OR OTHER APPROVED CLOSURE SYSTEMS, WHERE MASTIC IS USED TO SEAL OPENINGS GREATER THAN 1/4", A COMBINATION OF MASTIC AND TAPE SHALL BE USED.

CRAWLSPACE ACCESS, OR UNDER-FLOOR MECHANICAL EQUIPMENT ACCESS, OR ANY OTHER ACCESS POINT FROM THE HABITABLE SPACE INTO THE CRAWL SPACE, SUCH AS DOORS OR PANELS, MUST BE CLOSED AND GASKETED TO CREATE AN AIRTIGHT SEPARATION.

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CRAWLSPACE ACCESS, OR UNDER-FLOOR MECHANICAL EQUIPMENT ACCESS, OR ANY OTHER ACCESS POINT FROM THE HABITABLE SPACE INTO THE CRAWL SPACE, SUCH AS DOORS OR PANELS, MUST BE CLOSED AND GASKETED TO CREATE AN AIRTIGHT SEPARATION.

AIR HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT.

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DUCTWORK PASSING THROUGH A CRAWLSPACE MUST HAVE ALL SEAMS AND JOINTS SEALED (PER 110.14). ALL JOINTS OF DUCT SYSTEMS USED IN THE HEATING OR COOLING OF A CONDITIONED SPACE SHALL BE SEALED BY MEANS OF TAPE, MASTIC, AEROSOL SEALANT, GASKETING OR OTHER APPROVED CLOSURE SYSTEMS, WHERE MASTIC IS USED TO SEAL OPENINGS GREATER THAN 1/4", A COMBINATION OF MASTIC AND TAPE SHALL BE USED.

CRAWLSPACE ACCESS, OR UNDER-FLOOR MECHANICAL EQUIPMENT ACCESS, OR ANY OTHER ACCESS POINT FROM THE HABITABLE SPACE INTO THE CRAWL SPACE, SUCH AS DOORS OR PANELS, MUST BE CLOSED AND GASKETED TO CREATE AN AIRTIGHT SEPARATION.

AIR HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT.

VENTILATION AIR REQUIREMENTS (cfm)

FLOOR AREA (FT ²)	NUMBER OF BEDROOMS			
	0-1 2-3 4-5 6-7 8+	1-2 3-4 5-6 7-8 9+	3-4 5-6 7-8 9-10 11+	4-5 5-6 6-7 7-8 8-9
<1500	30	45	60	75
1501-3000	45	60	75	90
3001-4500	60	75	90	105
4501-6000	75	90	105	120
6000-15000	90	105	120	135
>15000	105	120	135	150

SLAB-ON-GRADE/BASEMENT RADON MITIGATION

A PASSIVE SUB-SLAB DEPRESSURIZATION SYSTEM SHALL BE INSTALLED DURING CONSTRUCTION IN BASEMENT OR SLAB-ON-GRADE BUILDINGS. FOLLOW THE NOTES HERE REGARDING BUILDING TIGHTNESS MEASURES AND ASSEMBLE THE FOLLOWING ELEMENTS OF THIS MITIGATION SYSTEM.

- PROVIDE A RADON VENT PIPE EXTENDING FROM A GAS-PERMEABLE LAYER BELOW THE SLAB FLOOR SYSTEM THROUGH THE FLOORS OF THE DUELING AND TERMINATING AT THE ROOF.
- SEE NOTES REGARDING VENT PIPE, SOIL-GAS-RETARDER AND SLAB SUBFLOOR PREPARATION.

SLAB SUB-FLOOR PREPARATION

A LAYER OF GAS-PERMEABLE MATERIAL SHALL BE PLACED UNDER ALL CONCRETE SLABS AND OTHER FLOOR SYSTEMS THAT DIRECTLY CONTACT THE GROUND, AND ARE WITHIN THE WALLS OF THE HABITABLE SPACES OF THE BUILDING. THE GAS-PERMEABLE LAYER SHALL CONSIST OF ONE OF THE FOLLOWING:

1. A UNIFORM LAYER OF CLEAN AGGREGATE, A MINIMUM OF 4 INCHES THICK. THE AGGREGATE SHALL CONSIST OF MATERIAL SMALL ENOUGH TO PASS THROUGH A 2" SIEVE AND BE RETAINED BY A 1/4" SIEVE.
2. A UNIFORM LAYER OF SAND (NATIVE OR FILL), A MINIMUM OF 4 INCHES THICK, OVERLAIN BY A LAYER OR STRIPS OF GEO-TEXTILE DRAINAGE MATTING DESIGNED TO ALLOW THE LATENT FLOW OF SOIL GASES.

SOIL-GAS-RETARDER

THE SOIL IN CRAWLSPACES SHALL BE COVERED WITH A CONTINUOUS LAYER OF MINIMUM 6-MIL POLYETHYLENE SOIL-GAS-RETARDER. THE GROUND COVER SHALL BE LAPPED A MINIMUM OF 12 INCHES AT JOINTS AND SHALL EXTEND TO ALL FOUNDATION WALLS ENCLOSING THE CRAWLSPACE.

THE SHEETING SHALL FIT CLOSELY AROUND ANY PIPE, WIRE OR OTHER PENETRATIONS OF THE MATERIAL.

ALL FRACTURES OR TEARS IN THE MATERIAL SHALL BE SEALED OR COVERED WITH ADDITIONAL SHEETING.

VENT PIPE (RADON)

A PLUMBED TEE ON THE APPROVED CONNECTION SHALL BE INSTALLED HOLOCALLY BENEATH THE SOIL-GAS-RETARDER SHEETING AND CONNECTED TO A 3" OR 4" DIAMETER PERFORATED DRAIN PIPE INSTALLED THROUGH THE SHEETING.

THE VENT PIPE SHALL BE EXTENDED UP THROUGH THE BUILDING FLOORS TO TERMINATE AT LEAST 12 INCHES ABOVE THE ROOF SURFACE IN A LOCATION AT LEAST 10 FEET AWAY FROM ANY WINDOW OR OTHER OPENING. THE VENT PIPE SHALL NOT BE LOCATED WHERE IT IS LESS THAN 2 FEET BELOW THE EXHAUST POINT, OR 10 FEET FROM ANY WINDOW OR OTHER OPENING IN ADJACENT OR ADJACENT BUILDINGS.

IN BUILDINGS WHERE INTERIOR FOOTINGS OR OTHER BARRIERS SEPARATE THE SUB-SLAB AGGREGATE OR OTHER GAS-PERMEABLE MATERIAL, EACH AREA SHALL BE FITTED WITH AN INDIVIDUAL VENT PIPE.

MULTIPLE VENT PIPES SHALL CONNECT TO A SINGLE VENT THAT TERMINATES ABOVE THE ROOF OR EACH INDIVIDUAL VENT PIPE SHALL TERMINATE ABOVE THE ROOF.

ALL COMPONENTS OF THE RADON VENT PIPE SYSTEM SHALL BE INSTALLED TO PROVIDE POSITIVE DRAINAGE TO THE GROUND BEHIND THE SLAB OR SOIL-GAS-RETARDER.

RADON VENT PIPE SHALL BE PROVIDED FOR FUTURE RADON VENT PIPE INSTALLATION THROUGH AN ATTIC OR OTHER AREA OUTSIDE THE HABITABLE SPACE, OR AN APPROVED ROOF TOP ELECTRICAL SUPPLY MAY BE PROVIDED FOR FUTURE USE FOR A POWERED RADON VENT FAN.

ALL EXPOSED AND VISIBLE INTERIOR RADON VENT PIPES SHALL BE IDENTIFIED WITH AT LEAST ONE LABEL ON EACH FLOOR AND IN ACCESSIBLE ATTICS. THE LABEL SHALL READ: "RADON REDUCTION SYSTEM".

POWER SOURCE REQUIREMENT

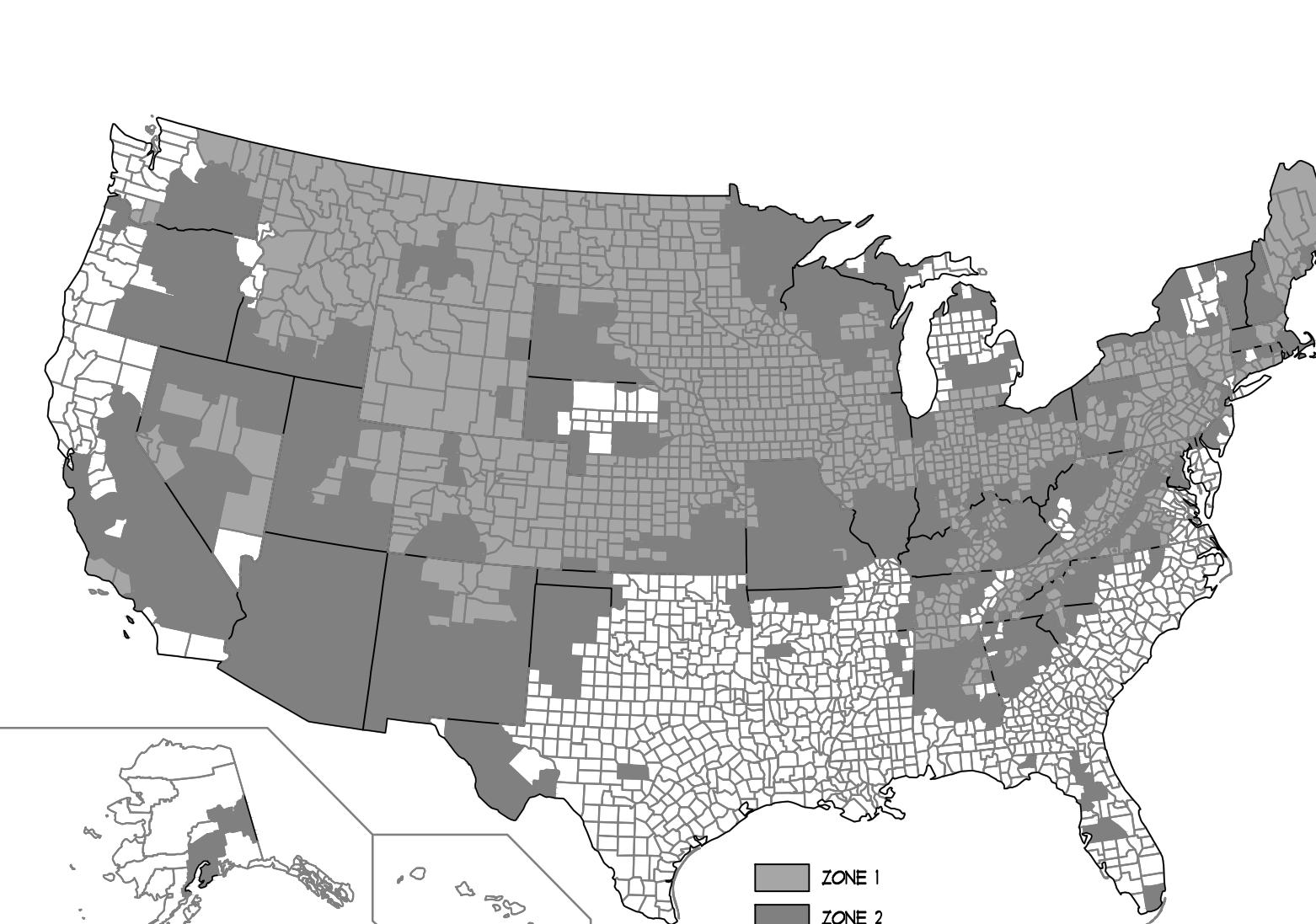
TO ACCOMMODATE FUTURE INSTALLATION OF AN ACTIVE SUB-MEMBRANE OR SUB-SLAB DEPRESSURIZATION SYSTEM, AN ELECTRICAL CIRCUIT TERMINATED IN AN APPROVED BOX SHALL BE INSTALLED DURING CONSTRUCTION IN THE ATTIC OR OTHER ANTICIPATED LOCATION OF VENT PIPE FANS. AN ELECTRICAL SUPPLY SHALL ALSO BE ACCESSIBLE IN ANTICIPATED LOCATION OF SYSTEM FAILURE ALARMS.

COMBINATION FOUNDATIONS

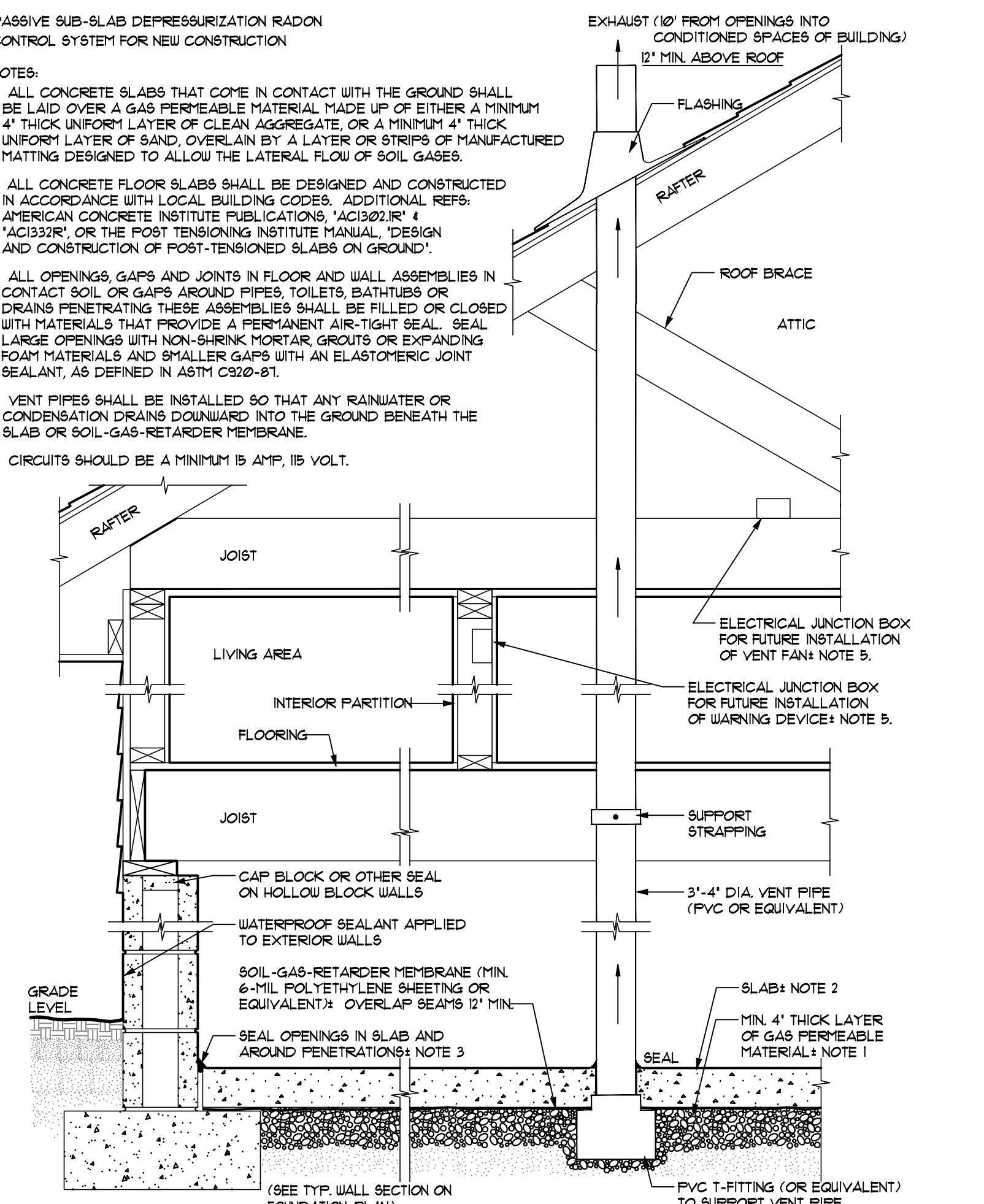
COMBINATION BASEMENT/CRAWL SPACE OR SLAB-ON-GRADE/CRAWL SPACE FOUNDATIONS SHALL HAVE SEPARATE RADON MITIGATION SYSTEMS IN EACH TYPE OF FOUNDATION AREA. PASSIVE SUB-SLAB AND PASSIVE SUB-MEMBRANE RADON VENT PIPES MAY BE CONNECTED TO A SINGLE VENT TERMINATING ABOVE THE ROOF, OR EACH VENT MAY INDIVIDUALLY CONTINUE TO TERMINATE ABOVE THE ROOF (SEE VENT PIPE NOTES).

MAIN FLOOR LOWER FLOOR	1519 SQ. FT. 1035 SQ. FT.
TOTAL AREA	2554 SQ. FT.

GARAGE AREA + 444 SQ. FT.



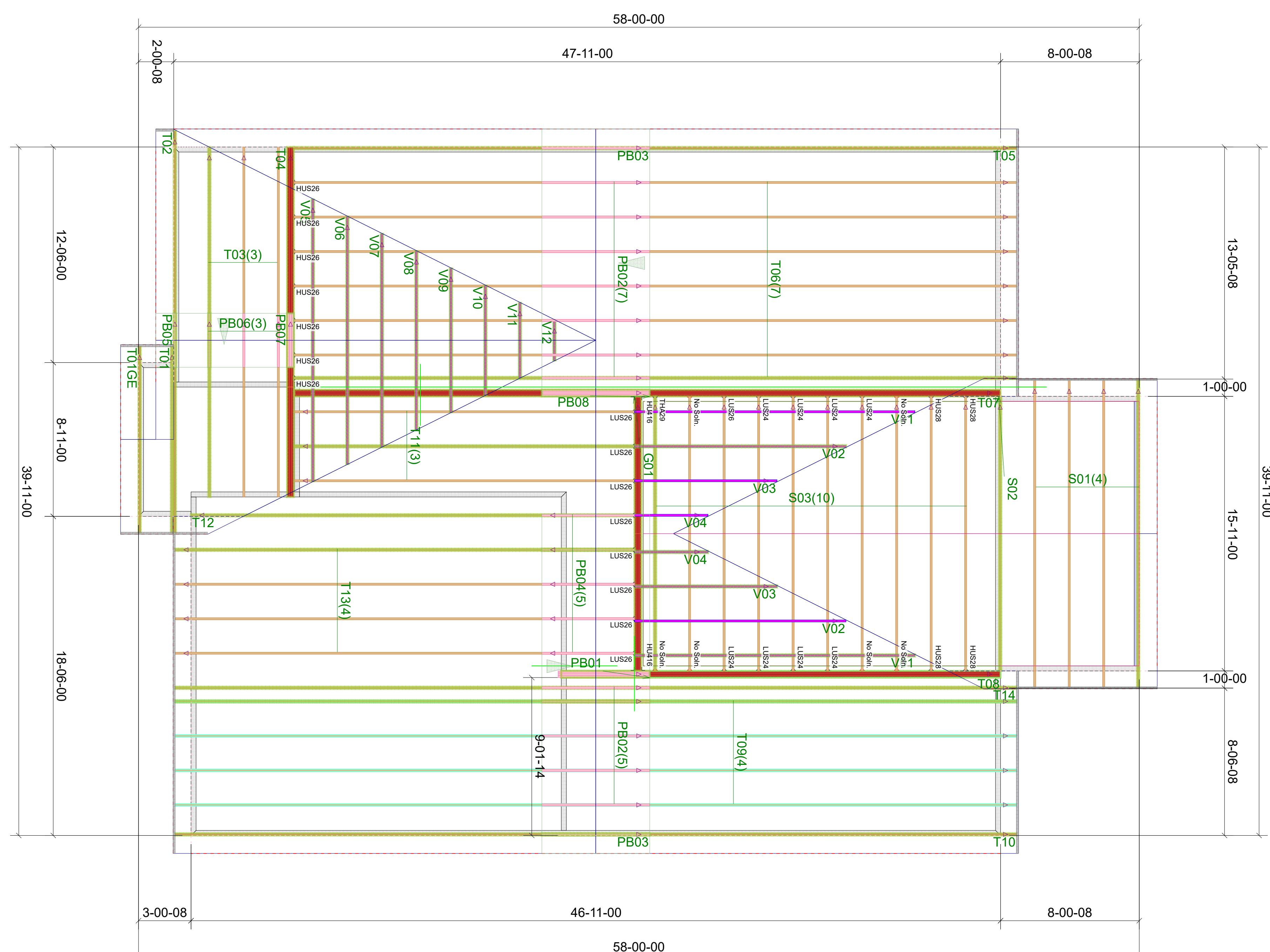
**SLAB ON-GRADE/BELLOW-GRADE (BASEMENTS)
SUB-MEMBRANE DEPRESSURIZATION SYSTEM**



Floor Area: 0 SF
 Floor Plywood: 0
 Roof Area: 2736.58 SF
 Roof Plywood: 90 sheets
 Roof Shingles: 34 Squares

ROOF TRUSS LAYOUT

1/4" = 1'-0"



Client:	SERVICE BUILDING SUPPLY	
Project:	GELN GODFREY	
Model:	Model	
Lot #:	Subdivision:	
Order #:	Designer:	Date:
P25101839	Unassigned	62



NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.

THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION, DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY. SEE <http://support.sbcindustry.com/pubs/TTBDRsp-D>

Main Floor

Member Name	Results (Max UTIL %)	Current Solution	Comments
Master Bedroom Window Header	Passed (53% R)	3 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL	
Dining Room Window Header	Passed (44% R)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	

Lower Floor

Member Name	Results (Max UTIL %)	Current Solution	Comments
Bedroom 3 Window Header	Passed (45% R)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Lower Storage Room Door Header	Passed (82% R)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Bedroom 3 Closet Header	Passed (41% ΔL)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Basement Landing Header	Passed (27% ΔL)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Basement Game Room Header	Passed (35% R)	2 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL	

ForteWEB Software Operator	Job Notes
Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@weyerhaeuser.com	Sandford, NC 27330 Ticket # 162106

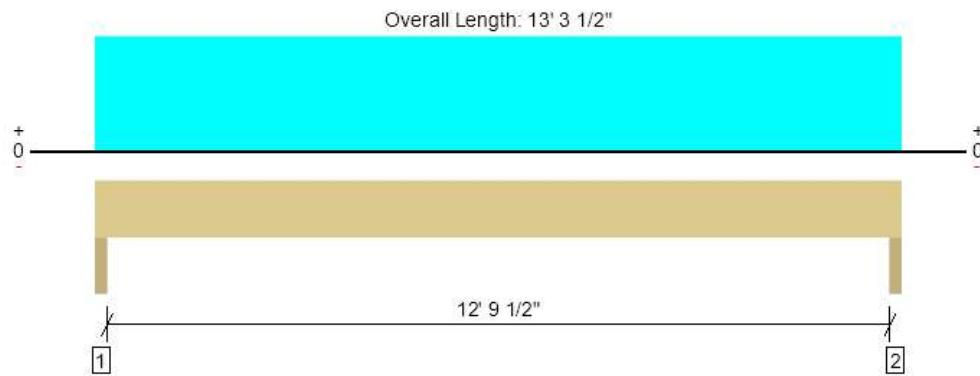


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ForteWEB v3.9

File Name: 162106

Main Floor, Master Bedroom Window Header
3 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	6102 @ 1 1/2"	11419 (3.00")	Passed (53%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	4801 @ 1' 5"	16060	Passed (30%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	19519 @ 6' 7 3/4"	41846	Passed (47%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.135 @ 6' 7 3/4"	0.326	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.279 @ 6' 7 3/4"	0.652	Passed (L/560)	--	1.0 D + 1.0 S (All Spans)

Member Length : 13' 3 1/2"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Roof Live	Snow	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.60"	3155	2946	2946	6102	None
2 - Trimmer - SPF	3.00"	3.00"	1.60"	3155	2946	2946	6102	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	13' 4" o/c	
Bottom Edge (Lu)	13' 4" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 13' 3 1/2"	N/A	21.5	--	--	
1 - Uniform (PSF)	0 to 13' 3 1/2"	22' 2"	20.0	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 13' 3 1/2"	N/A	10.0	--	--	1ft of wall above

Member Notes
<ul style="list-style-type: none"> This calculation is a preliminary analysis based solely on gravity loads and is applicable only to TrusJoist® products for the referenced project. Member reactions must be supported by adequately sized structural member(s). If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC). The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

Weyerhaeuser Notes
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ForteWEB Software Operator	Job Notes
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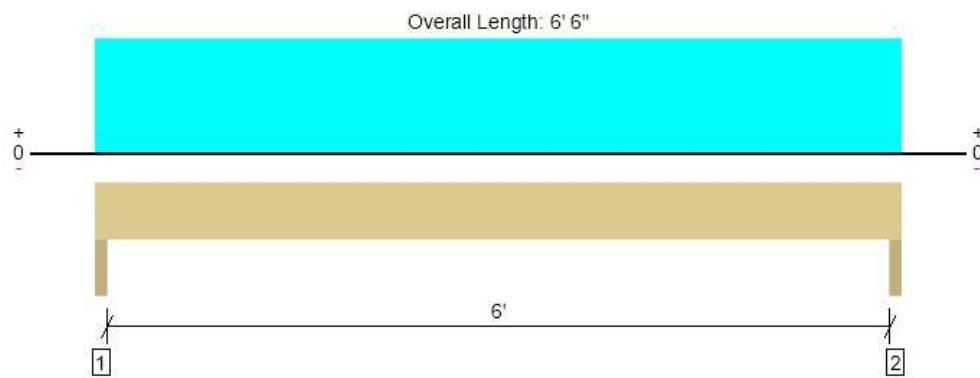
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ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3

File Name: 162106

Main Floor, Dining Room Window Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3329 @ 1 1/2"	7613 (3.00")	Passed (44%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2284 @ 1' 1/4"	7074	Passed (32%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	5002 @ 3' 3"	12884	Passed (39%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.046 @ 3' 3"	0.156	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.094 @ 3' 3"	0.313	Passed (L/798)	--	1.0 D + 1.0 S (All Spans)

Member Length : 6' 6"
System : Wall
Member Type : Header
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).

- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Roof Live	Snow	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1696	1633	1633	3329	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1696	1633	1633	3329	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 6" o/c	
Bottom Edge (Lu)	6' 6" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 6' 6"	N/A	9.4	--	--	
1 - Uniform (PSF)	0 to 6' 6"	25' 1 1/2"	20.0	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 6' 6"	N/A	10.0	--	--	1ft of wall above

Member Notes
<ul style="list-style-type: none"> This calculation is a preliminary analysis based solely on gravity loads and is applicable only to TrusJoist® products for the referenced project. Member reactions must be supported by adequately sized structural member(s). If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC). The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

Weyerhaeuser Notes
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FORTEWEB Software Operator	Job Notes
Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@weyerhaeuser.com	Sandford, NC 27330 Ticket # 162106



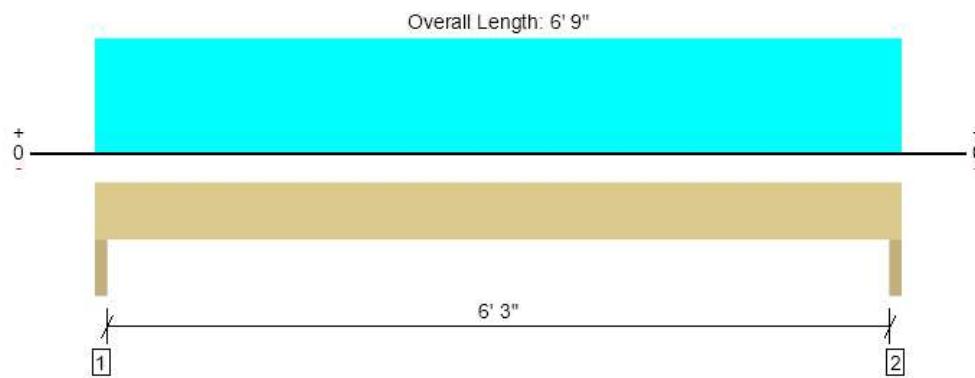
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File Name: 162106

Lower Floor, Bedroom 3 Window Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3418 @ 1 1/2"	7613 (3.00")	Passed (45%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2384 @ 1' 1/4"	7074	Passed (34%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	5349 @ 3' 4 1/2"	12884	Passed (42%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.047 @ 3' 4 1/2"	0.162	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.107 @ 3' 4 1/2"	0.325	Passed (L/728)	--	1.0 D + 1.0 S (All Spans)

Member Length : 6' 9"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories	
	Total	Available	Required	Dead	Floor Live	Roof Live	Snow		
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1922	90	1496	1496	3418	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1922	90	1496	1496	3418	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 9" o/c	
Bottom Edge (Lu)	6' 9" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 6' 9"	N/A	9.4	--	--	--	
1 - Uniform (PSF)	0 to 6' 9"	22' 2"	20.0	--	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 6' 9"	N/A	110.0	--	--	--	11ft of wall above
3 - Uniform (PSF)	0 to 6' 9"	8"	10.0	40.0	--	--	Floor above

Member Notes

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- Member reactions must be supported by adequately sized structural member(s).
- If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC).
- The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@eyerhaeuser.com	Sandford, NC 27330 Ticket # 162106



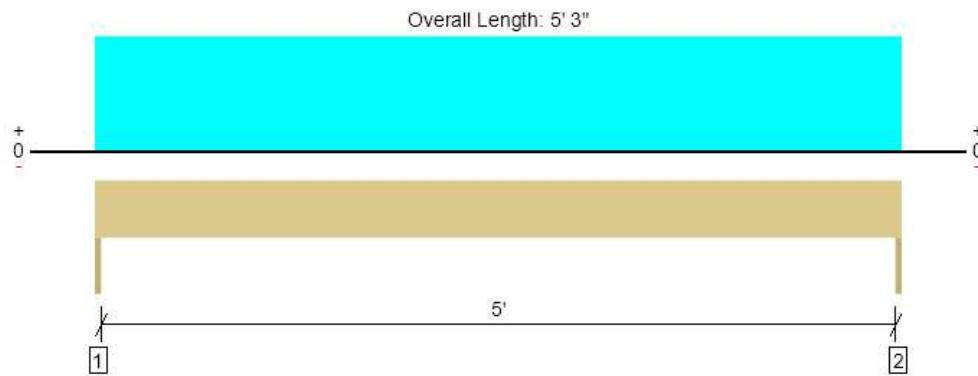
Weyerhaeuser

11/3/2025 7:40:31 PM UTC

ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3

File Name: 162106

Lower Floor, Lower Storage Room Door Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microlam® LVL



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3112 @ 0	3806 (1.50")	Passed (82%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	2050 @ 10 3/4"	7074	Passed (29%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Moment (Ft-lbs)	4084 @ 2' 7 1/2"	12884	Passed (32%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Live Load Defl. (in)	0.025 @ 2' 7 1/2"	0.131	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.058 @ 2' 7 1/2"	0.262	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

Member Length : 5' 3"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories	
	Total	Available	Required	Dead	Floor Live	Roof Live	Snow		
1 - Trimmer - SPF	1.50"	1.50"	1.50"	1755	490	1319	1319	3112	None
2 - Trimmer - SPF	1.50"	1.50"	1.50"	1755	490	1319	1319	3112	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	5' 3" o/c	
Bottom Edge (Lu)	5' 3" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 5' 3"	N/A	9.4	--	--	--	
1 - Uniform (PSF)	0 to 5' 3"	25' 1 1/2"	20.0	--	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 5' 3"	N/A	110.0	--	--	--	11ft of wall above
3 - Uniform (PSF)	0 to 5' 3"	4' 8"	10.0	40.0	--	--	Floor/deck above

Member Notes

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- Member reactions must be supported by adequately sized structural member(s).
- If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC).
- The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

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Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@eyerhaeuser.com	Sandford, NC 27330 Ticket # 162106



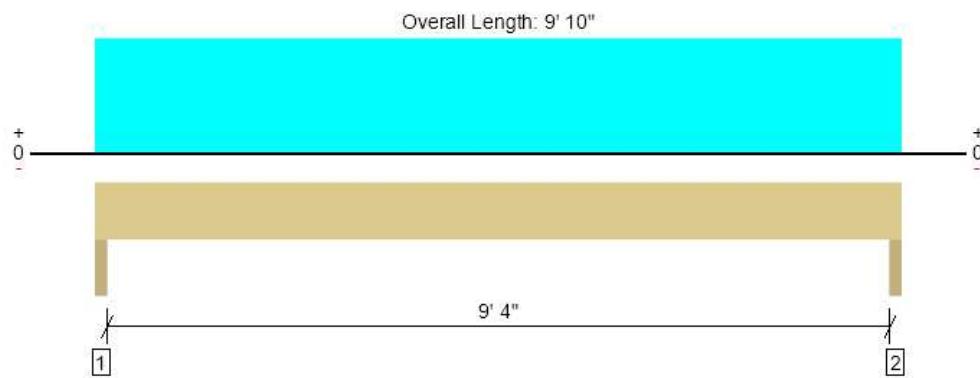
Weyerhaeuser

11/3/2025 7:40:31 PM UTC

ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3

File Name: 162106

Lower Floor, Bedroom 3 Closet Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1811 @ 1 1/2"	7613 (3.00")	Passed (24%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	1435 @ 1' 1/4"	6151	Passed (23%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	4228 @ 4' 11"	11204	Passed (38%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.098 @ 4' 11"	0.240	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.166 @ 4' 11"	0.479	Passed (L/691)	--	1.0 D + 1.0 L (All Spans)

Member Length : 9' 10"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	745	1065	1811	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	745	1065	1811	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' 10" o/c	
Bottom Edge (Lu)	9' 10" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 9' 10"	N/A	9.4	--	
1 - Uniform (PLF)	0 to 9' 10"	N/A	88.0	--	11ft of wall above
2 - Uniform (PSF)	0 to 9' 10"	5' 5"	10.0	40.0	Floor above

Member Notes
<ul style="list-style-type: none"> This calculation is a preliminary analysis based solely on gravity loads and is applicable only to TrusJoist® products for the referenced project. Member reactions must be supported by adequately sized structural member(s). If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC). The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

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Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@weyerhaeuser.com	Sandford, NC 27330 Ticket # 162106



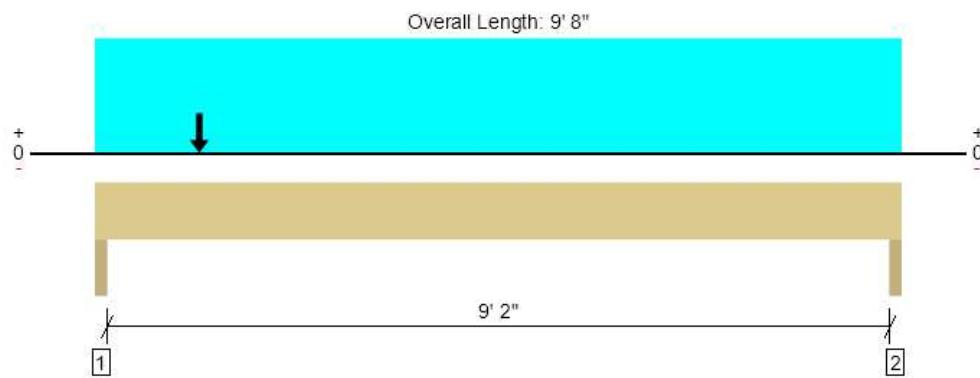
Weyerhaeuser

11/3/2025 7:40:31 PM UTC

ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3

File Name: 162106

Lower Floor, Basement Landing Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1242 @ 1 1/2"	7613 (3.00")	Passed (16%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	1041 @ 1' 1/4"	6151	Passed (17%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	2373 @ 4' 7 5/8"	11204	Passed (21%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.063 @ 4' 10 1/16"	0.235	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.091 @ 4' 9 3/8"	0.471	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)

Member Length : 9' 8"
System : Wall
Member Type : Header
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	517	725	1242	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	266	725	991	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' 8" o/c	
Bottom Edge (Lu)	9' 8" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 9' 8"	N/A	9.4	--	
1 - Uniform (PSF)	0 to 9' 8"	3' 9"	10.0	40.0	Floor above
2 - Point (lb)	1' 3"	N/A	330	--	Point load from double 2x12 carry wall above

Member Notes

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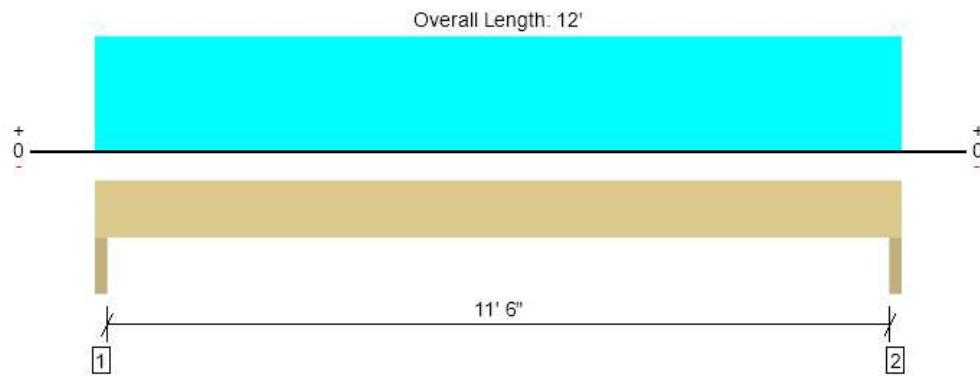
Weyerhaeuser

11/3/2025 7:40:31 PM UTC

ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3

File Name: 162106

Lower Floor, Basement Game Room Header
2 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2686 @ 1 1/2"	7613 (3.00")	Passed (35%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	2052 @ 1' 5"	9310	Passed (22%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	7725 @ 6'	24258	Passed (32%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.058 @ 6'	0.294	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.138 @ 6'	0.587	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)

Member Length : 12'
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1566	1120	2686	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1566	1120	2686	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	12' o/c	
Bottom Edge (Lu)	12' o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 12'	N/A	14.3	--	
1 - Uniform (PSF)	0 to 12'	4' 8"	10.0	40.0	Floor above
2 - Uniform (PLF)	0 to 12'	N/A	200.0	--	Wall above

Member Notes
<ul style="list-style-type: none"> This calculation is a preliminary analysis based solely on gravity loads and is applicable only to TrusJoist® products for the referenced project. Member reactions must be supported by adequately sized structural member(s). If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC). The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

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Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@weyerhaeuser.com	Sandford, NC 27330 Ticket # 162106



Weyerhaeuser

11/3/2025 7:40:31 PM UTC

ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3

File Name: 162106

BC CALC® Member Report

Build 9045

Job name:

File name: C:\Users\MarkLovelace...BCCALCSPEC\P25101839

Address:

Description: GARAGE DOOR

City, State, Zip:

Specifier:

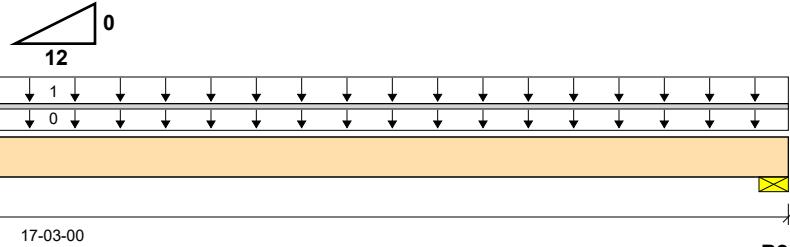
Customer:

Designer: MARK LOVELACE

Code reports:

Company: LONGLEAF TRUSS CO

ESR-1040



17-03-00

B1

B2

Total Horizontal Product Length = 17-03-00

Reaction Summary (Unfactored Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 6"		4452 / 0	4313 / 0		
B2, 6"		4452 / 0	4313 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	17-03-00	Top			16			00-00-00
1	Standard Load	Unf. Area (lb/ft ²)	L	00-00-00	17-03-00	Top			20	20		25-00-00

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	34061 ft-lbs	79.3%	115%	4	08-07-08
Neg. Moment	0 ft-lbs	n\o	115%	4	16-09-12
End Shear	6902 lbs	56.4%	115%	4	01-10-00
Total Load Deflection	L/272 (0.722")	66.1%	n\o	4	08-07-08
Live Load Deflection	L/553 (0.355")	43.4%	n\o	5	08-07-08
Max Defl.	0.722"	72.2%	n\o	4	08-07-08
Span / Depth	12.3				

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	6" x 3-1/2"	8765 lbs	98.2%	55.7%
B2	Wall/Plate	6" x 3-1/2"	8765 lbs	98.2%	55.7%

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets Code minimum (L/180) Total load deflection criteria.

Design meets Code minimum (L/240) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design based on Dry Service Condition.

BC CALC® analysis is based on IRC 2021.

Calculations assume member is fully braced.

BC CALC® Member Report

Build 9045

Job name:

Address:

City, State, Zip:

Customer:

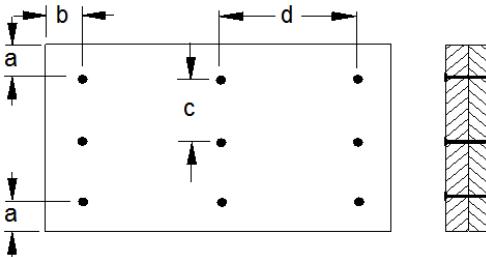
Code reports: ESR-1040

RB01 (Roof Flush Beam)

Dry | 1 span | No cant.

October 17, 2025 09:05:36

File name: C:\Users\MarkLovelace...BCCALCSPEC\P25101839
Description: GARAGE DOOR
Specifier:
Designer: MARK LOVELACE
Company: LONGLEAF TRUSS CO

Connection Diagram: Full Length of Member

a minimum = 2" c = 6"
b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft
Connectors are: 3-1/4 in. Pneumatic Gun
Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.