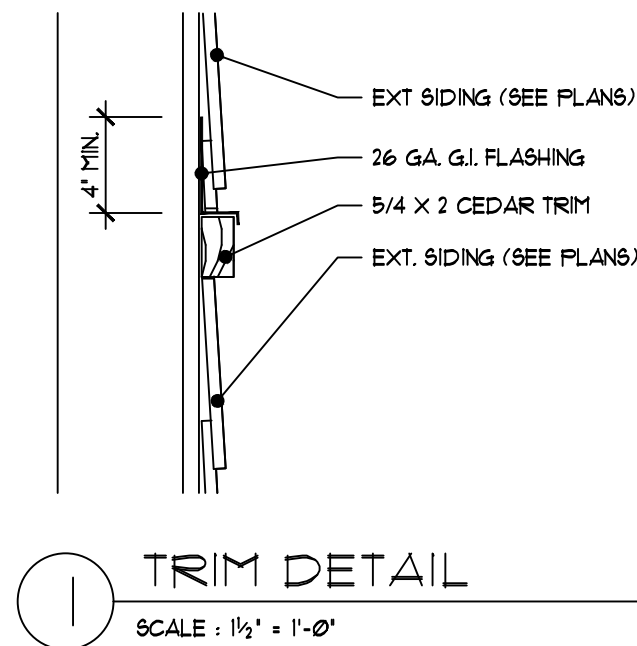


LEFT SIDE ELEVATION

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



FRONT ELEVATION

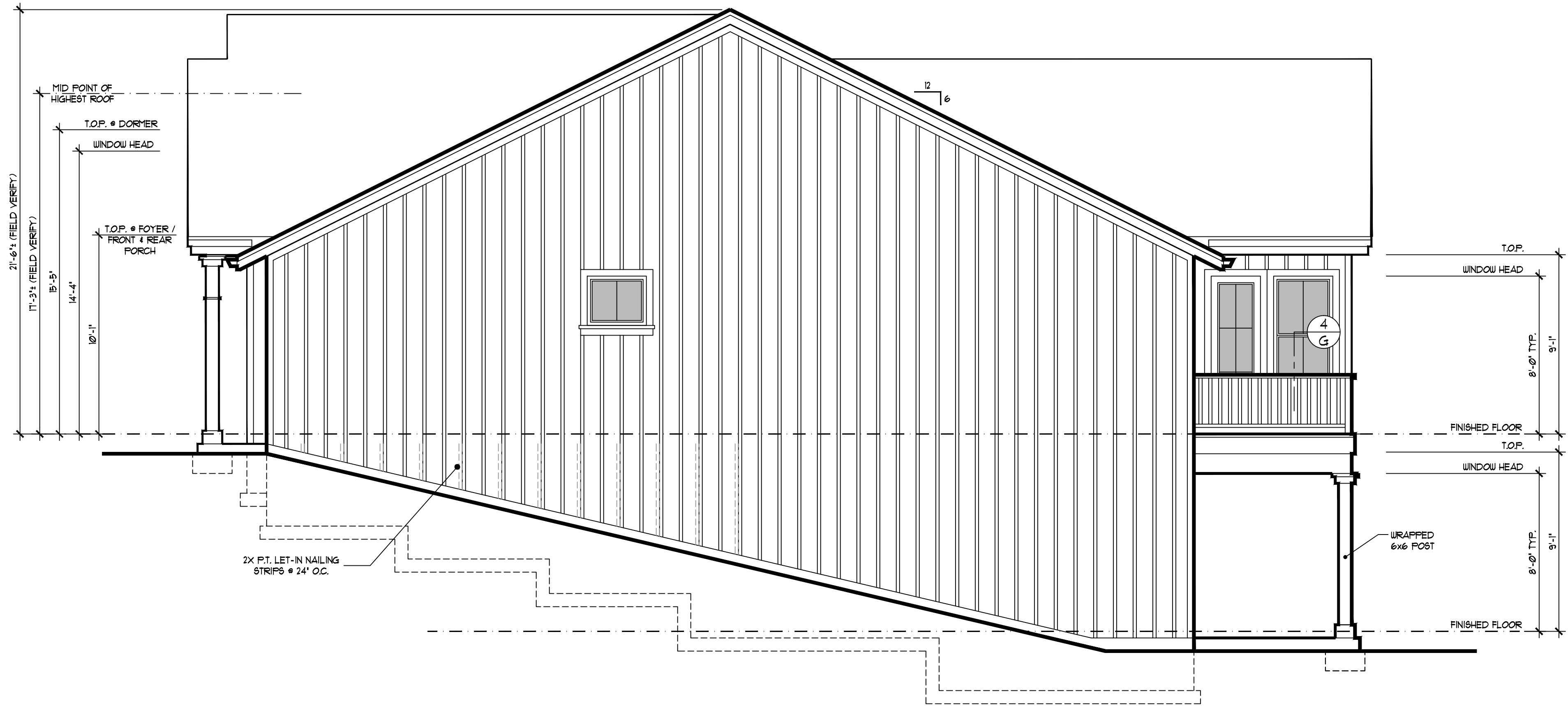
SCALE : 1/4" = 1'-0"

Important:

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

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"

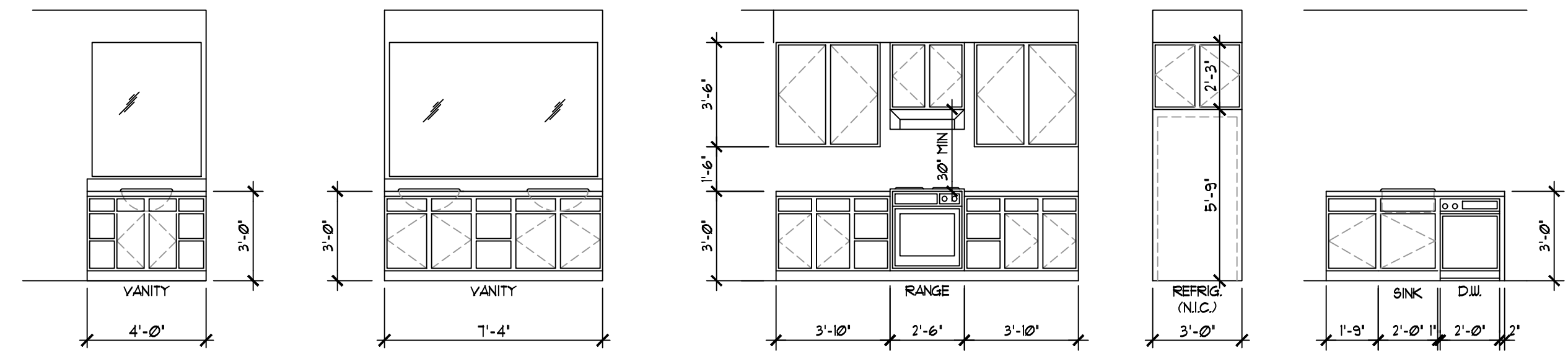
MAIN FLOOR	1514 SQ. FT.
LOWER FLOOR	1025 SQ. FT.
TOTAL AREA	2539 SQ. FT.
GARAGE AREA	+ 444 SQ. FT.

MODIFIED BY Lifestyle DESIGN SERVICE 2528 Lafayette Rd, Wayzata, MN 55391 Ph (888) 266-3439 Fx (651) 602-5050	NAME YARBOROUGH PROJECT NUMBER 2022-410
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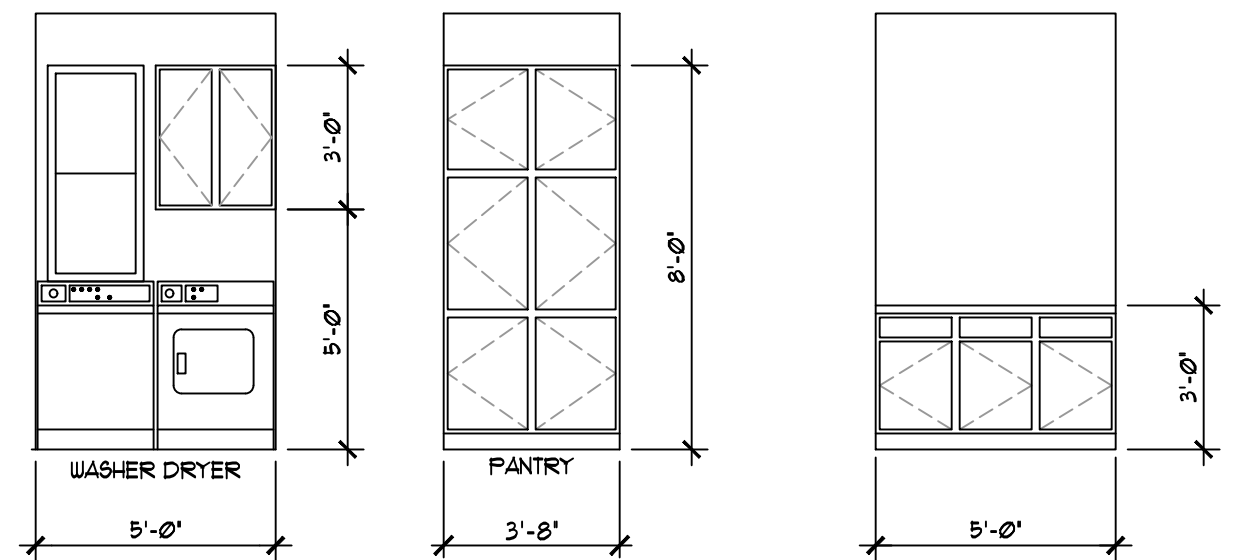
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THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE CORRECT INSTALLATION OF ALL EXTERIOR FINISHES AND WEATHERPROOFING.



HALL BATH MBR. BATH KITCHEN

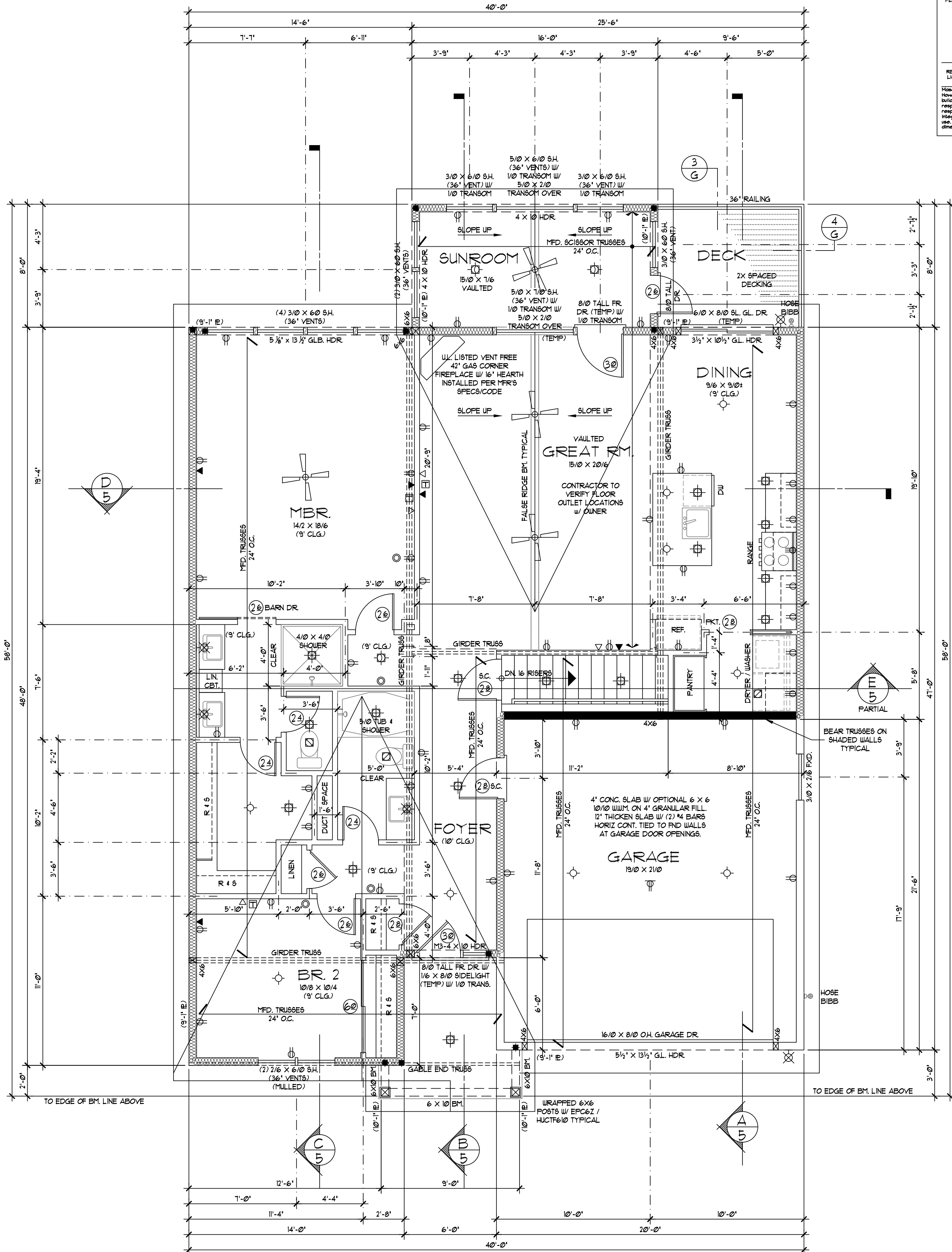


LAUNDRY GREAT RM.

- 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 SPECS)
 - BEARING POINT LOCATION (PROVIDE SOLID BEARING - MIN. OF MEMBER WIDTH UNO.)
 - POINT LOAD FROM ABOVE
 - 4 X 4 POST FROM ROOF HIP, VALLEY OR RIDGE DOWN TO BEARING POINT ON WALL BELOW (MAX. OF 48" FROM VERT.)
 - BEARING WALL SUPPORTING STRUCTURE ABOVE
 - 4 X 10 HDR. • BEARING WALL, INT. DOOR 4 OPENINGS W/ MIN (2) 2 X SUPPORT EA END (UNO.)
 - DROPPED STRUCT. MEMBER BEARING • WALL

- ENERGY ENVELOPE KEY**
- WALL, FLR./CLG. INSUL.
 - FOUNDATION INSUL.
 - (SEE SHEET 'G' 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 (SEE SHEET 'G' FOR ADD'L INFO)



MAIN FLOOR PLAN

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

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

THE Mascord COLLECTION

LICENSE NUMBER: 125766

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AND THEIR DESIGN PROFESSIONAL (AGENT):

LIFESTYLE HOME DESIGN
2528 LAFAYETTE RD
WAYZATA, MN 55391
612-266-3439

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Mascord prepares all 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 occurrence and overall integrity of the Plans in excess of the license fee paid for their use. The contractor, therefore, must carefully inspect all dimensions and details in the Plans for errors or omissions. The owner to be satisfied with all revised releases.

MAIN FLOOR	1514 SQ. FT.
LOWER FLOOR	1035 SQ. FT.
TOTAL AREA	2554 SQ. FT.
GARAGE AREA	+ 444 SQ. FT.

MODIFIED BY

Lifestyle

DESIGN SERVICE

2528 Lafayette Rd, Wayzata, MN 55391
Ph (888) 266-3439 Fx (651) 602-5050

NAME

YARBOROUGH

PROJECT NUMBER

2022-410

Important:

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DETAIL 1
SCALE: 3/4" = 1'-0"

COL. (SEE PLAN)
SLOPE 1/4" FT MIN.
12" MIN. #
6"
12"
12"
(2) #4 BARS
CONT. T & B
WHERE FOOTING SUPPORTS
STRUCTURE DEPTH TO BE
MIN. 18" BELOW FIN. GRADE.

DETAIL 2
SCALE: 3/4" = 1'-0"

3/4" ANCHOR BOLTS
AT 4'-0" OC. TYP.
3 1/2" CONC. SLAB ON 6 MILL
MOISTURE BARRIER ON
4" GRANULAR FILL
3/4" BARS CONT. W/
(24" MIN. LAP)
3' CLR
18"
1'-0"
8"
3 1/2"
3' CLR

3" PERF. PIPE
W/ FILTER
FABRIC
BAR 1" VERTICAL
BAR 1" HORIZ.
#4 @ 16" O.C.
HORIZONTAL
3' CLR
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3% PCF EQUIVALENT FLUID P. PRESS.

H	A	C	B	E	BAR T
4'-0"	8'	1'-4"	7'-8"	14 # 8" OC	
6'-0"	8'	2'-0"	4'-2"	14 # 8" OC	
8'-0"	8'	4'-2"	5'-6"	14 # 8" OC	
10'-0"	12'	5'-6"	7'-2"	15 # 9" OC	

BASE: 5% CHC

* RAISED HEEL TRUSSES AS NECESSARY TO MEET ENERGY CODE. (SEE GENERAL NOTES)

1/2" RATED GYPSUM BD. CEILING
 3/4" GYPSUM BD. CEILING
 INSUL. Baffle • EAVE VENTS
 2" X SOLID BULK. SCREENED VENTS (SEE ROOF PLAN)
 • SIMPSON® WIDE SEISMIC CLIPS • EA. RAFTER 4 INTO BULK.
 OPTIONAL SOFFIT 1/4" "ACX" PLYWOOD 1/1" CONT. BORNED VENT
 G.I. GUTTER ON 2 X 8 FASCIA

EXTERIOR FINISH (SEE ELEV.)
 #12 BLDG. PAPER (SEE TYPE) • PROVIDE MIN 1/4" GAP B/TN EXT FIN 4 WATER RESISTANT BARRIER OR PROVIDE ENHANCED URS
 1/4" RATED SHEATHING
 2 X 6 STUDS • 16" O.C.
 BATT INSUL. (SEE GEN NOTES)
 1/2" GYPSUM BD. CEILING

FINISH FLOOR
 3/4" CDX PLYWOOD SUBFLOOR
 2 X F.L. JOISTS (SEE PLAN)
 BATT INSUL. (SEE GEN NOTES) (OVER UNHEATED SPACES)
 1/4" GYPSUM BD. CEILING

FLOOR FINISH
 1" CONCRETE SLAB (OPT. 6" & 10" W/ 10" W/ 10")
 R-5 EXTRUDED POLYSTYRENE INSUL. EXTEND 24" FROM EXT WALL
 6 MIL. POLY VAPOR BARRIER
 4" COMPACTED GRANULAR FILL
 2 X 6 P.T. MIDSILL WITH 1/4" • A.B.
 • 48" O.C. W/ SIMPSON® "SP5" 4" BRS E OR APPROX EQ. (MIN. OF 2 PER E • 4 W/ 12" OF ANY CORNER)

1/4 CONT. 1" MIN. EMBED
 48" VERT. • 48" O.C. MAX. ALT. BEND
 SLOPE
 1/4 CONT.

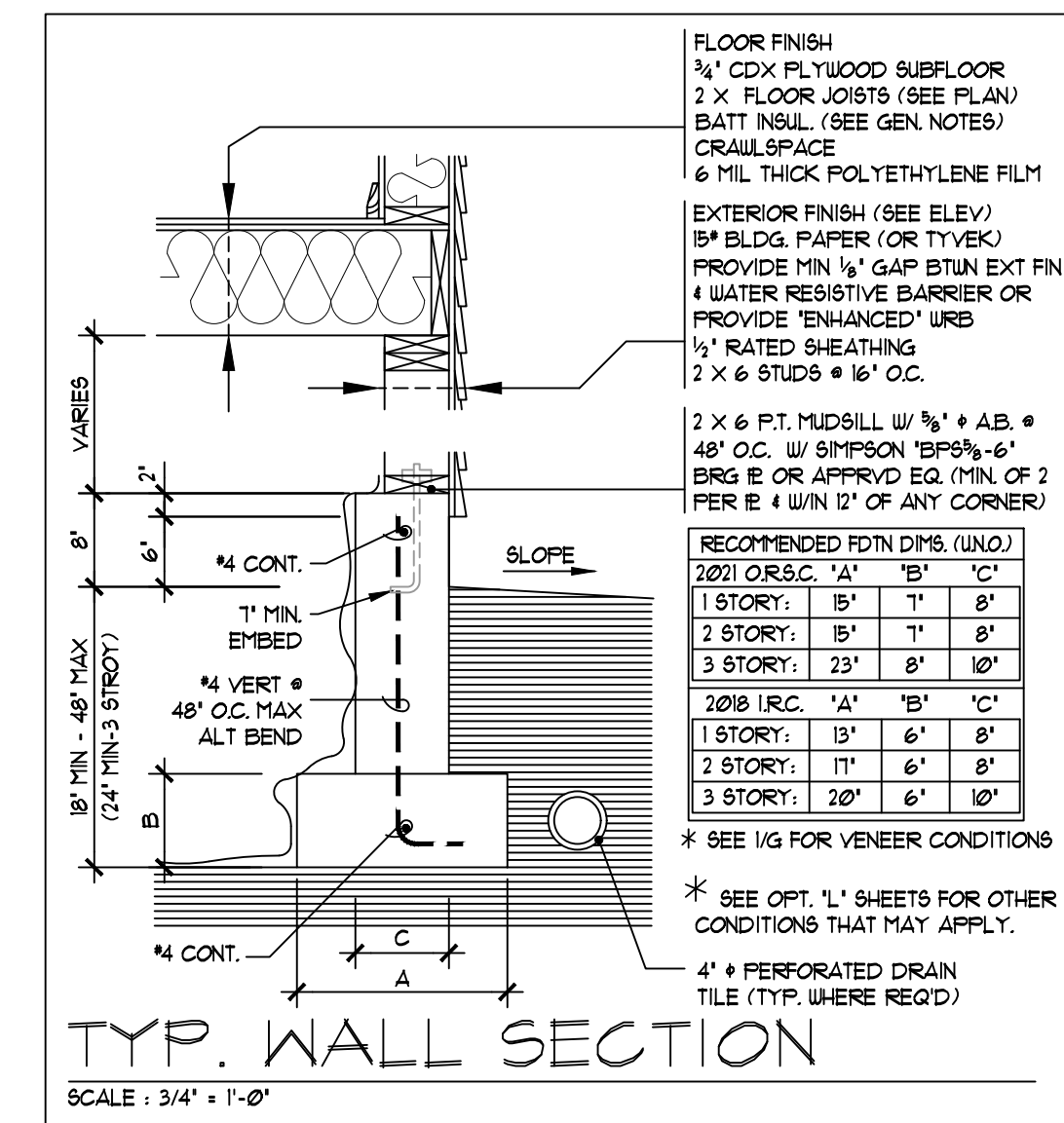
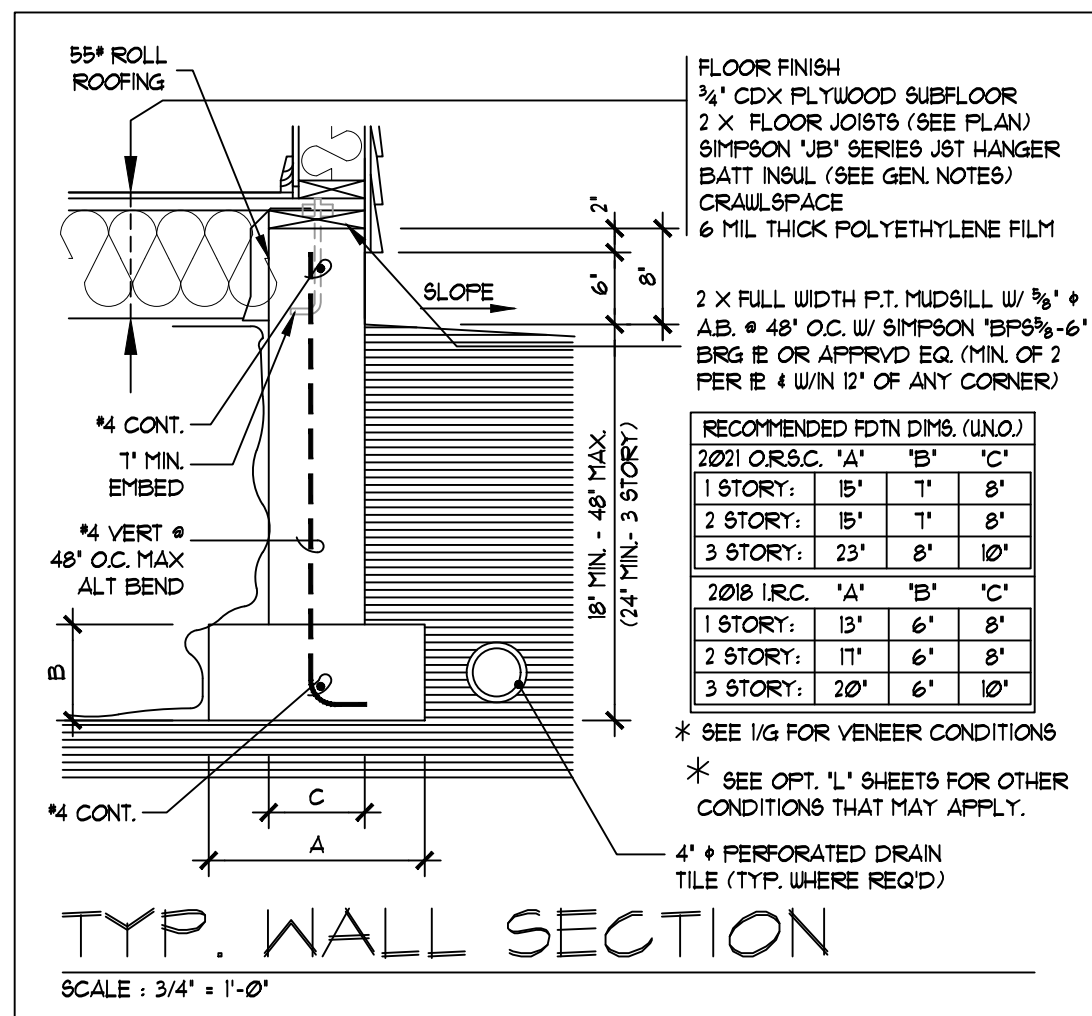
18" MIN. - 24" MAX. (24" MIN. - 3 STORY)
 4" • PERFORATED DRAIN TILE (TYP. WHERE REQ'D)

RECOMMENDED FPDN DIMS. (UNO.)			
2021 ORSC.	"A"	"B"	"C"
1 STORY:	15'	1'	8"
2 STORY:	15'	1'	8"
3 STORY:	23'	8"	10"
2018 I.R.C.	"A"	"B"	"C"
1 STORY:	15'	6"	8"
2 STORY:	17'	6"	8"
3 STORY:	20'	6"	10"

* SEE I/S FOR VENEER CONDITIONS
 * SEE OPT. "L" SHEETS FOR OTHER CONDITIONS THAT MAY APPLY.

TYP. WALL SECTION

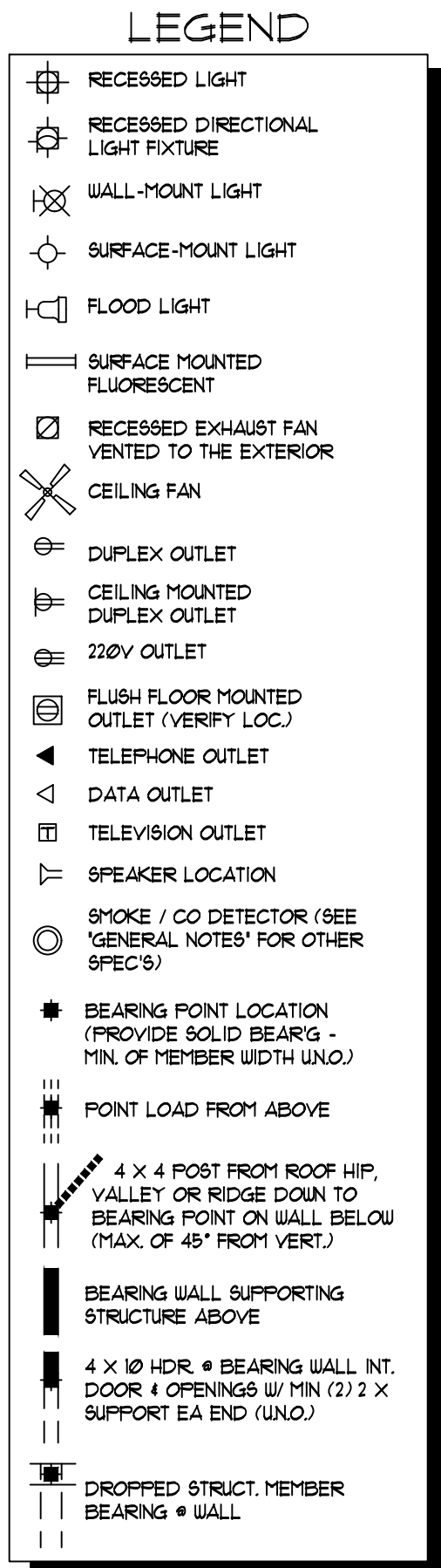
SCALE : 3/4" = 1'-0"




THE OWNER/BUILDER MUST CONFIRM THAT THE SITE SPECIFIC CONDITIONS AND RIGHTS MEET THE DESIGN PARAMETERS OF THIS RETAINING WALL. CONSULT A LOCAL LICENSED ENGINEER TO PROVIDE STRUCTURAL ANALYSIS IN COMPLIANCE WITH LOCAL JURISDICTION REQUIREMENTS.

RETAINING WALL

SCALE: 10' = 1'-0"

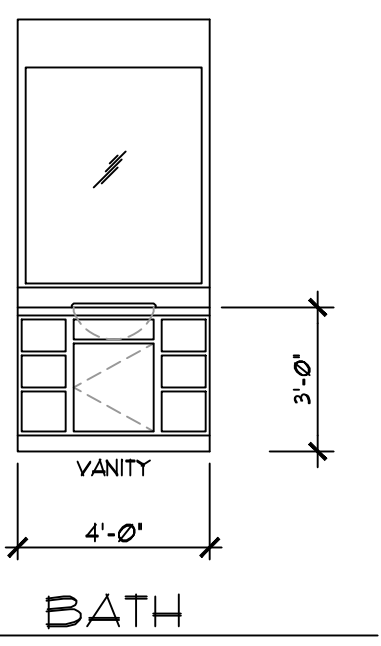


ENERGY ENVELOPE KEY

	WALL/FLR/CLG. INSUL.
	FOUNDATION INSUL.

(SEE SHEET 'G' 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
(SEE SHEET 'G' FOR ADD'L INFO)




Important:
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THE

Mascard

COLLECTION

LICENSE NUMBER: 251766 

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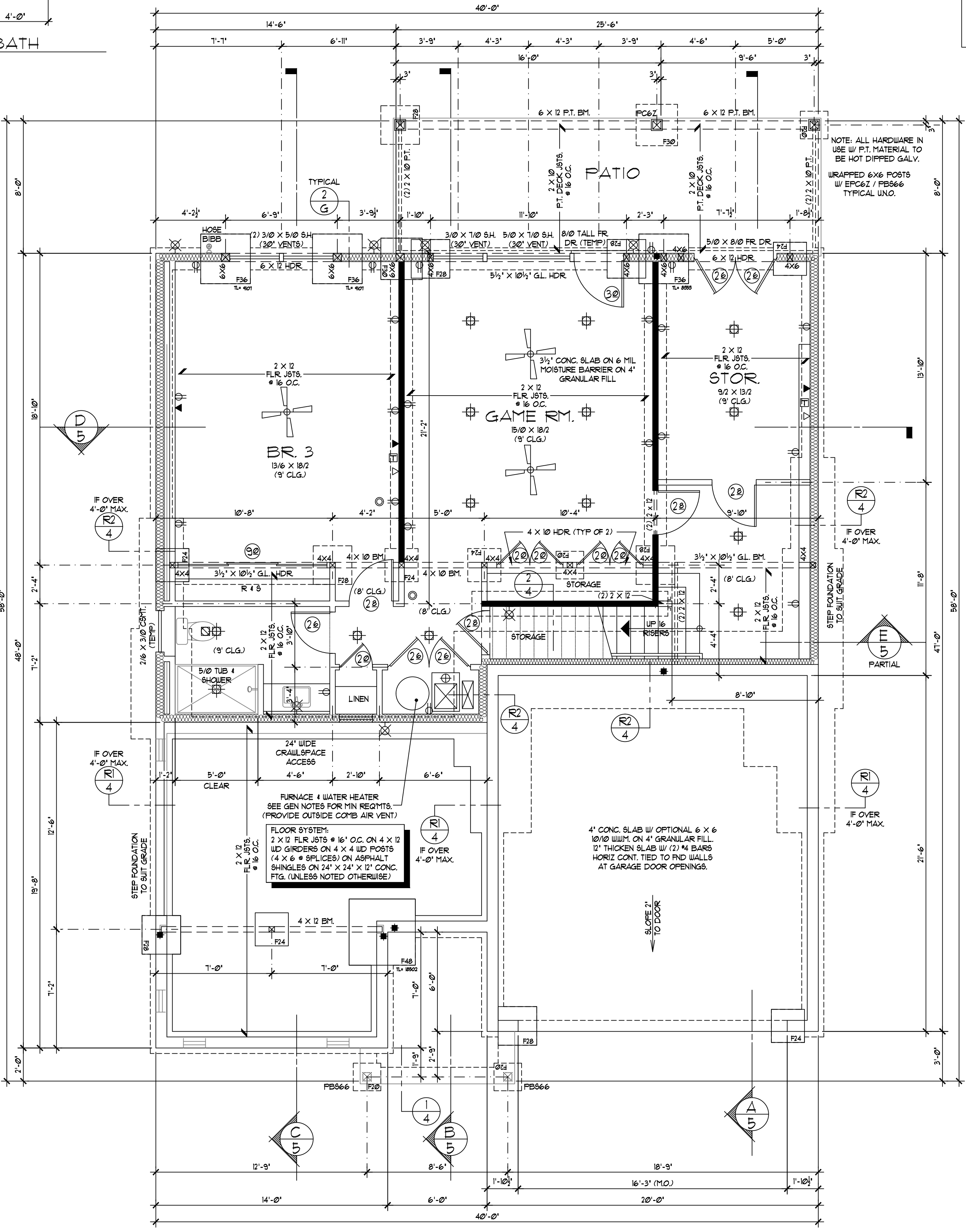
MICHELLE MASCARD
274 CANALINA WAY
SAFORD NC 28585
SITE: BTD

AND THEIR DESIGN PROFESSIONAL (AGENT):

LIFESTYLE HOME DESIGN
253 LAFAYETTE
HAYZATVA TN 38001

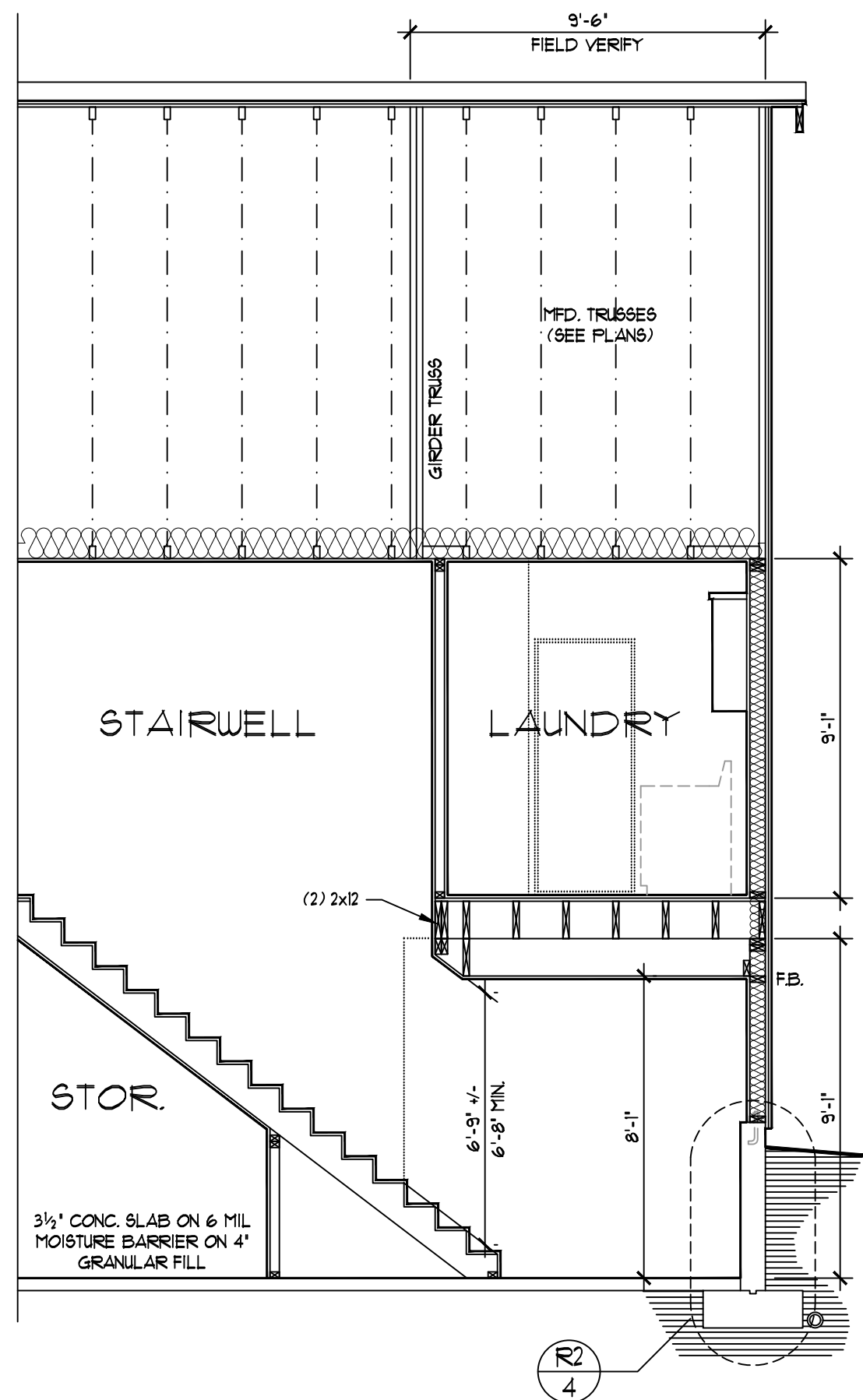
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PLAIN MASCARD DESIGN ASSOCIATES, INC. customers
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building codes is the responsibility of the licensee. It is the
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held responsible for any errors or omissions resulting from the overall
integrity of the Plans or increases of the license fee paid for their
use. The licensee is responsible for any errors or omissions, and
dimensions and details in the Plans for future or possible
changes. The licensee agrees to pay all revised prices.

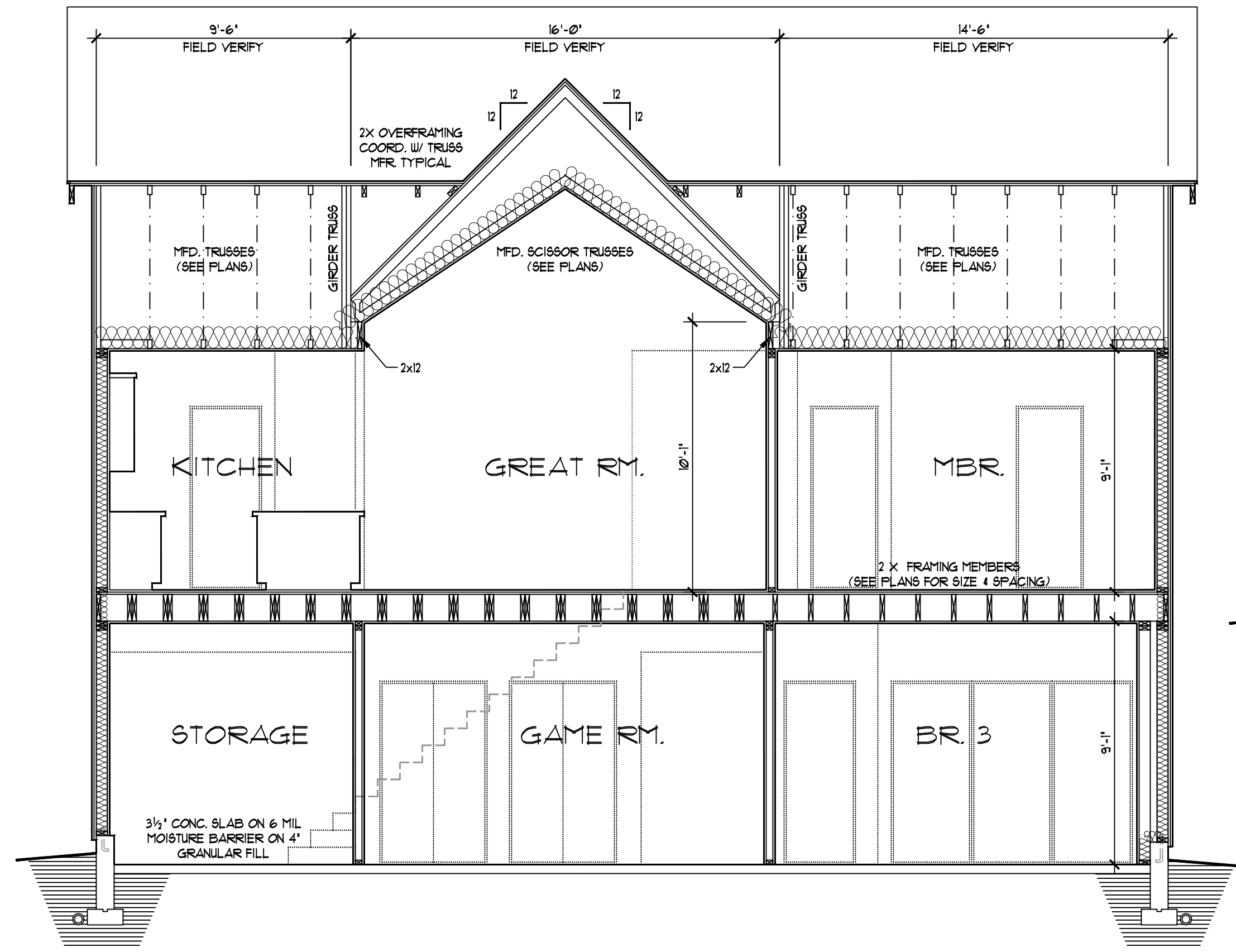


LOWER FLOOR / FOUNDATION PLAN

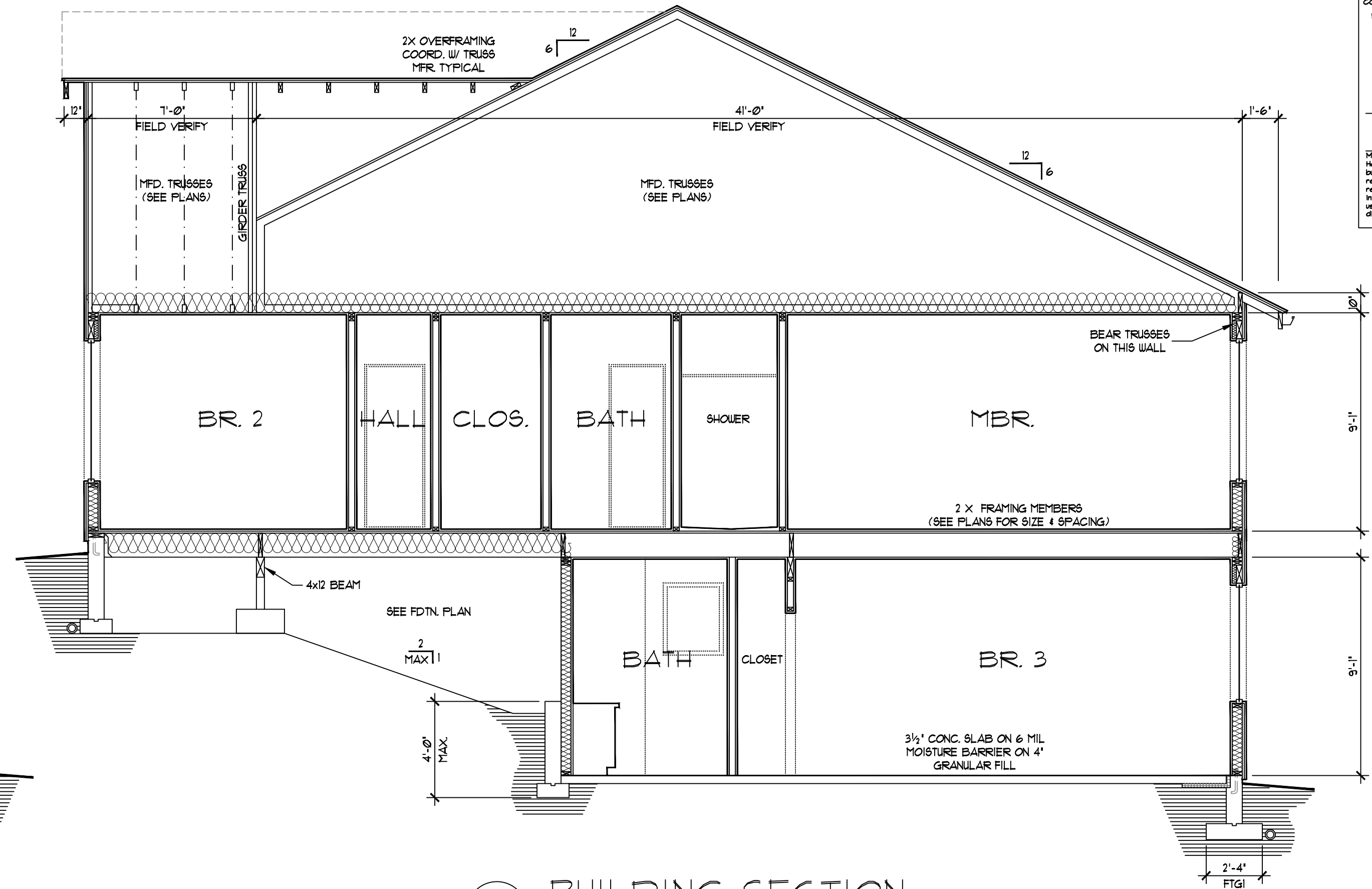
**IF LATERAL ENGINEERING IS REQUIRED, REFER TO
ENGINEERING SHEETS FOR LATERAL SPECIFICATIONS**



E PARTIAL
BUILDING SECTION
SCALE: 1/4" = 1'-0"

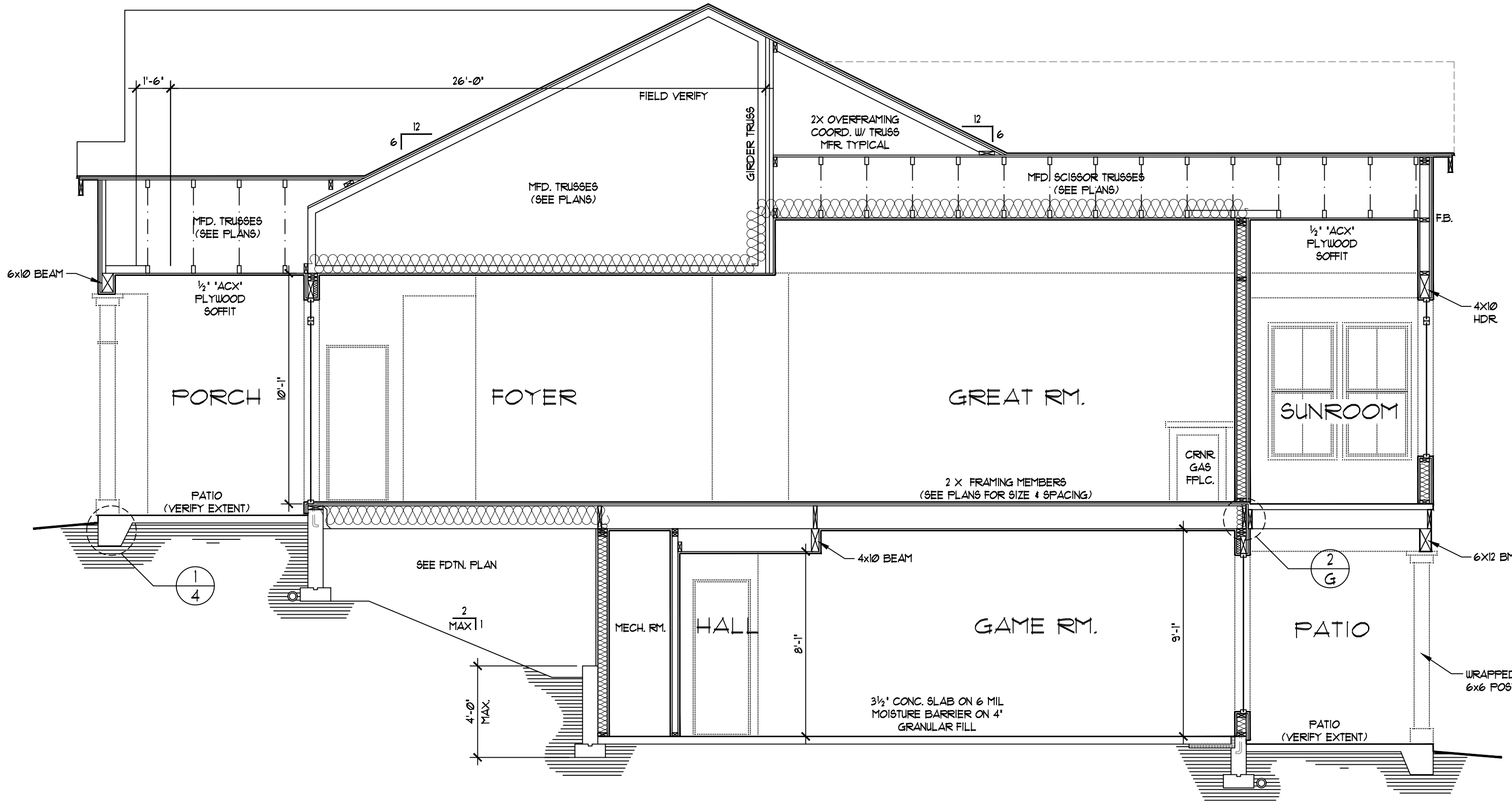


D BUILDING SECTION
SCALE: 1/4" = 1'-0"

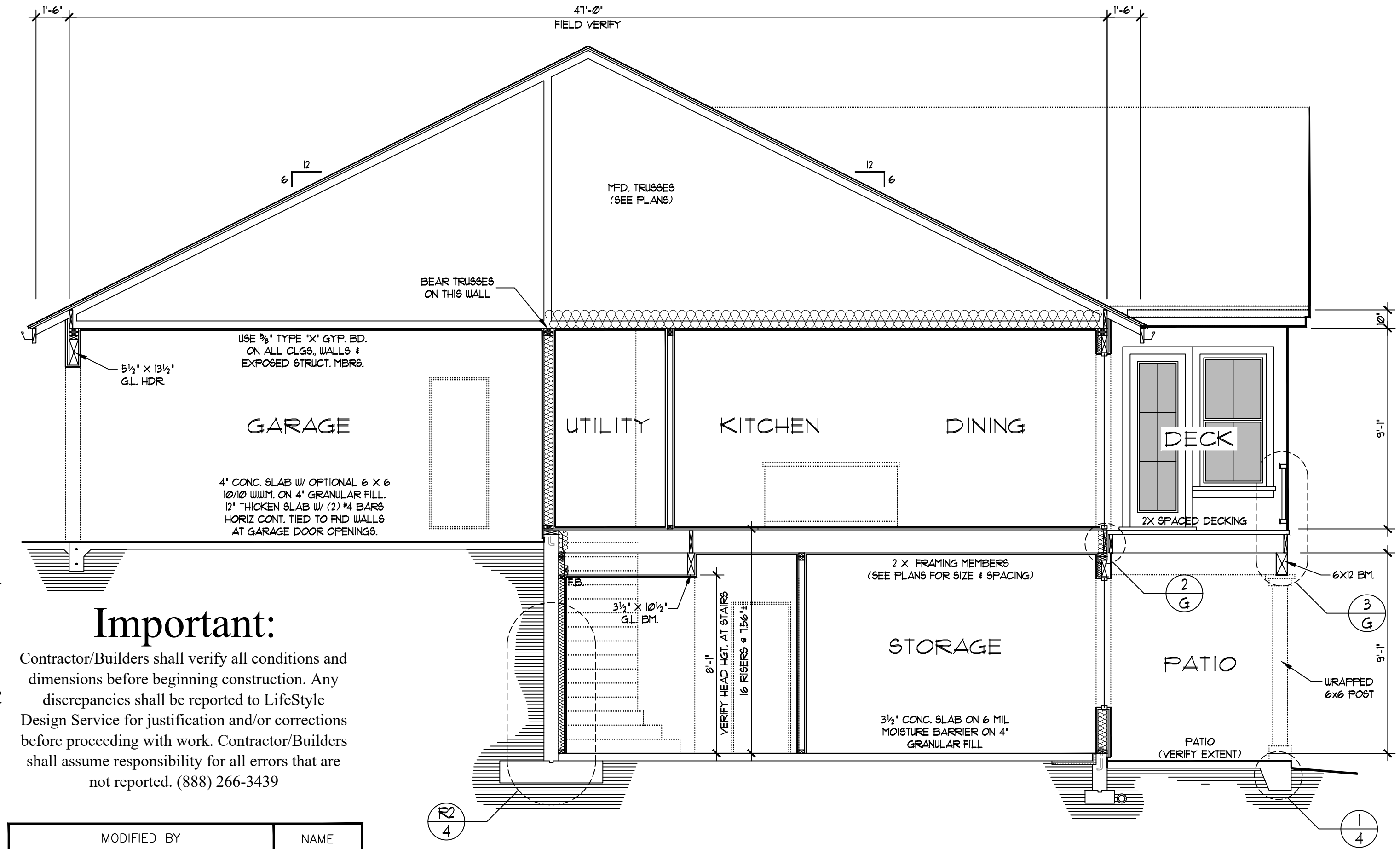


C BUILDING SECTION
SCALE: 1/4" = 1'-0"

ENERGY ENVELOPE KEY	
	WALL/FLOOR/CLG. INSUL.
	FOUNDATION INSUL.
(SEE SHEET 'G' FOR INSULATION VALUES)	



B BUILDING SECTION
SCALE: 1/4" = 1'-0"



A BUILDING SECTION
SCALE: 1/4" = 1'-0"

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MODIFIED BY Lifestyle DESIGN SERVICE 2528 Lafayette Rd, Wayzata, MN 55391 Ph (888) 266-3439 Fx (651) 602-5050	NAME YARBOROUGH PROJECT NUMBER 2022-410
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MAIN FLOOR	1519 SQ. FT.
LOWER FLOOR	1035 SQ. FT.
TOTAL AREA	2554 SQ. FT.
GARAGE AREA	+ 444 SQ. FT.

ROOF DESIGN NOTES

THIS ROOF HAS BEEN DESIGNED TO SUPPORT CEDAR SHAKE ROOFING MATERIALS AND COMPOSITION ROOFING OF VARIOUS TYPES. THE TABLE BELOW DESCRIBES IN DETAIL THE ASSUMPTIONS MADE IN THE DESIGN OF THE ROOF STRUCTURE OF THIS BUILDING.

ROOF LIVE LOAD (SNOW)	25.0 PSF	3.25 PSF	AVE./UET
FRAMING MATERIALS:	2.0 PSF	33.25 PSF	ACTUAL REQ'D
SHEATHING MATERIALS:	15 PSF	6.75 PSF	SAFETY FACTOR
MISC. MATERIALS:	15 PSF		
ROOFING TYPE	DRY / UET	40.0 PSF	TL
MED SHAKES	2.0 / 3.25 PSF		
HVT SHAKES	3.0 / 4.0 PSF		
SHINGLES	2.0 / 3.25 PSF		
COMPOSITION	2.5 / 3.0 PSF		

GYPSUM MATERIALS: ADD 2.0 PSF FOR VAULTED AREAS (COVERED IN SAFETY FACTOR)

NOTE: HIP, VALLEYS & RIDGES SHALL NOT BE LESS IN DEPTH THAN THE END CUT OF THE RAFTERS (FIELD VERIFY ALL CONDITIONS)

LEGEND

- 4 X 4 WOOD POST FROM RIDGE (HIP OR VALLEY) TO WALL BELOW (MIN. (2) 2 X 4 REQ'D AT WALL BEARING POINT) NOTE: SPLICES IN HIP & VALLEYS CAN ONLY OCCUR @ POST DOWN LOCATIONS
- 49 SQ. IN. ROOF VENTS (SEE VENT TABLE FOR QTY. - 50%/50% SHOWN)
- 2X4 FURLIN WALL TO BM, OR WALL BELOW (FRAMG AT 24" O.C.)
- SHADED AREA DENOTES ROOF FRAMED OVER RAFTERS BELOW
- DOWNSPOUTS

COMP/SHAKE ROOF

MAXIMUM SPANS PER 2004 WUPA TBL. RR-28 9" D.F. L/240 25# LL & 15# DL		
SIZE	SPACING	SPAN
2X6	12" O.C.	14'-0"
	16" O.C.	12'-1"
	24" O.C.	9'-10"
2X8	12" O.C.	17'-8"
	16" O.C.	15'-4"
	24" O.C.	12'-6"
2X10	12" O.C.	21'-1"
	16" O.C.	18'-9"
	24" O.C.	15'-3"
2X12	12" O.C.	25'-1"
	16" O.C.	21'-8"
	24" O.C.	17'-9"

% EAVE	AREA (in ²)	% ROOF	AREA (in ²)	3-VENT	4-VENT	49 in ²
60	589.8	40	3932	63	41	8
56.1	551.4	43.3	425.1	59	44	9
53.3	524.0	46.7	459.1	56	42	9
50	491.5	50	491.5	52	39	10

PER 2004 IBC, MINIMUM 1% NET FREE VENTILATING AREA SHALL BE 1/60 OF THE AREA OF THE VENTED SPACE.

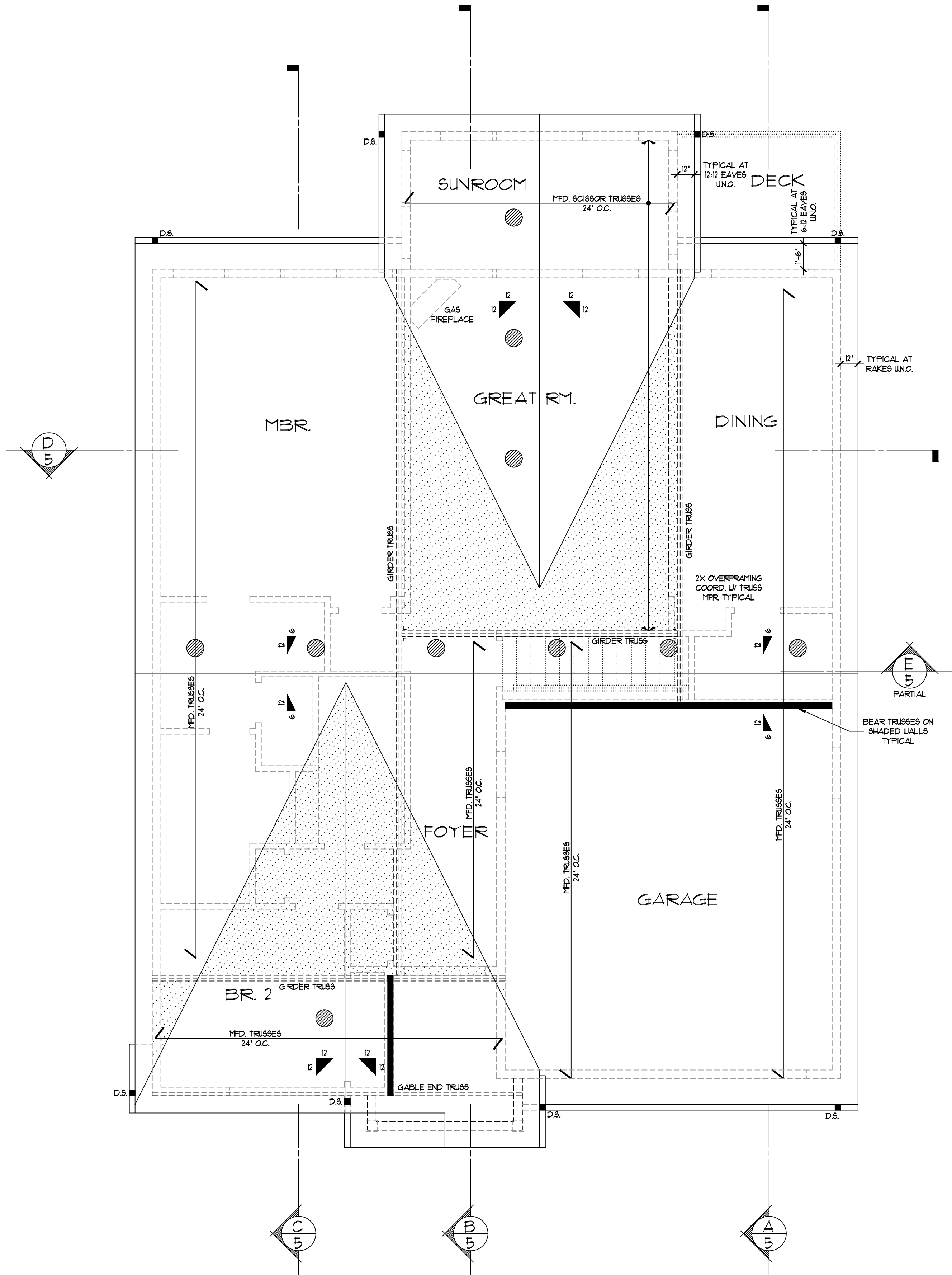
EXCEPTION: THE MIN. NET FREE VENTILATING AREA SHALL BE 1/60 OF THE AREA OF THE VENTED SPACE PROVIDED BOTH OF THE FOLLOWING CONDITIONS ARE MET:

IN CLIMATE ZONES 6, 7 AND 8 A CLASS 1 OR 2 VAPOR RETARDER IS INSTALLED ON THE WARM-INSIDE SIDE OF THE CEILING.

NOT LESS THAN 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATION LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE (UPPER VENTILATIONS SHALL BE LOCATED NO MORE THAN 18" FROM THE RIDGE OR HIGHEST POINT OF THE SPACE MEASURED VERTICALLY. THE BALANCE OF THE REQUIRED VENTILATION PROVIDED SHALL BE LOCATED IN THE BOTTOM ONE-THIRD OF THE ATTIC SPACE WHERE THE LOCATION OF WALL OR ROOF FINISHING FINISHES CORRELATES WITH THE INSTALLATION OF UPPER VENTILATIONS. INSTALLATION MORE THAN 3 FEET (94" MIN) BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

EAVE BLOCKING

- 3-VENT BLOCK (3) 2- $\frac{3}{4}$ " (MIN) HOLES (3.45 in² EA)
- 4-VENT BLOCK (4) 2- $\frac{3}{4}$ " (MIN) HOLES (2.6 in² EA)



MAIN FLOOR	1519 SQ. FT.
LOWER FLOOR	1035 SQ. FT.
TOTAL AREA	2554 SQ. FT.
GARAGE AREA	+ 444 SQ. FT.

ROOF PLAN TO BE VERIFIED W/ TRUSS LAYOUT AND DESIGN BY TRUSS MFR. SEE LAYOUT, TRUSS DRAWINGS AND ENGINEERING BY MFR. FOR ADDITIONAL SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

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

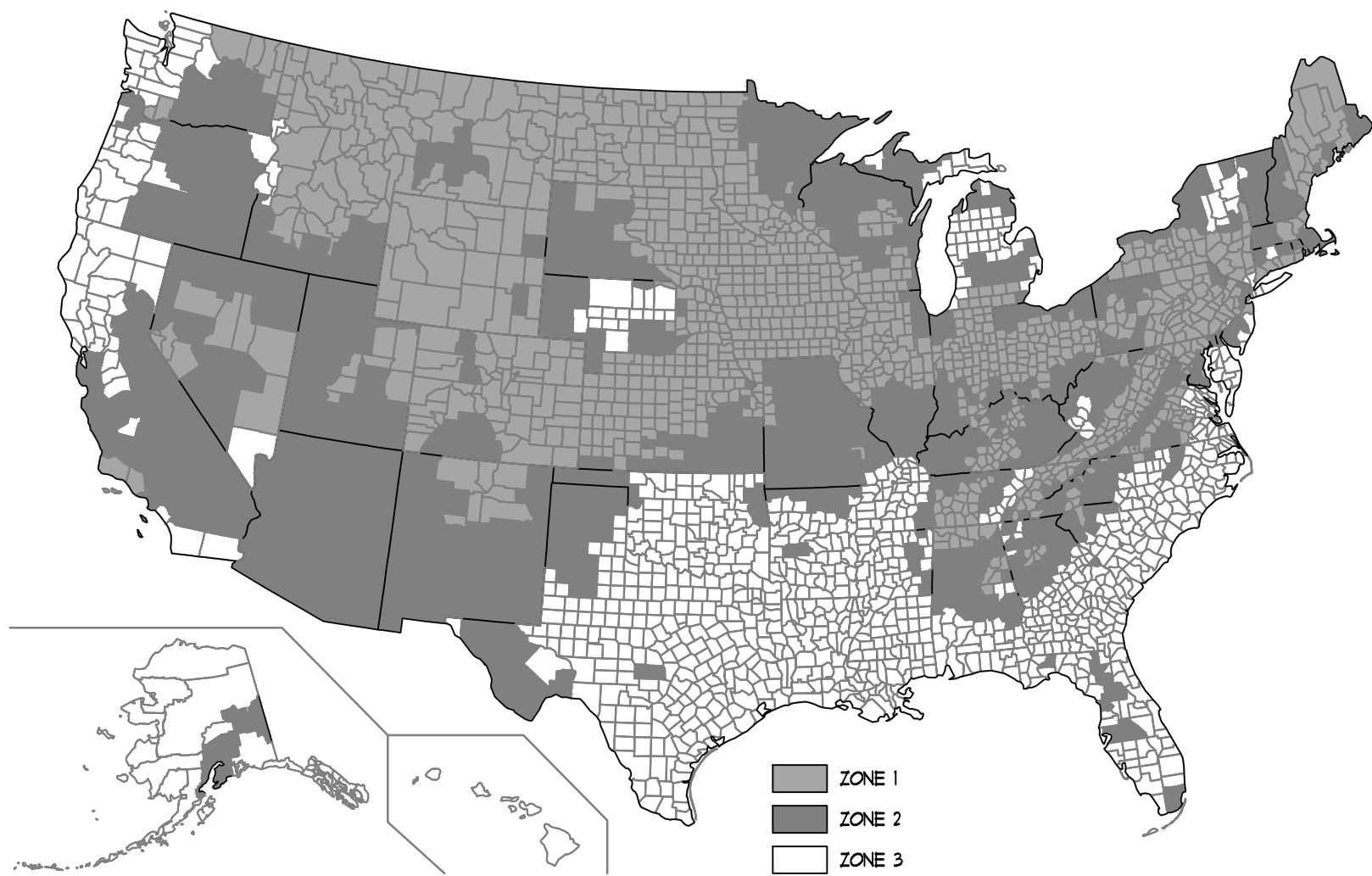
ROOF FRAMING PLAN

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

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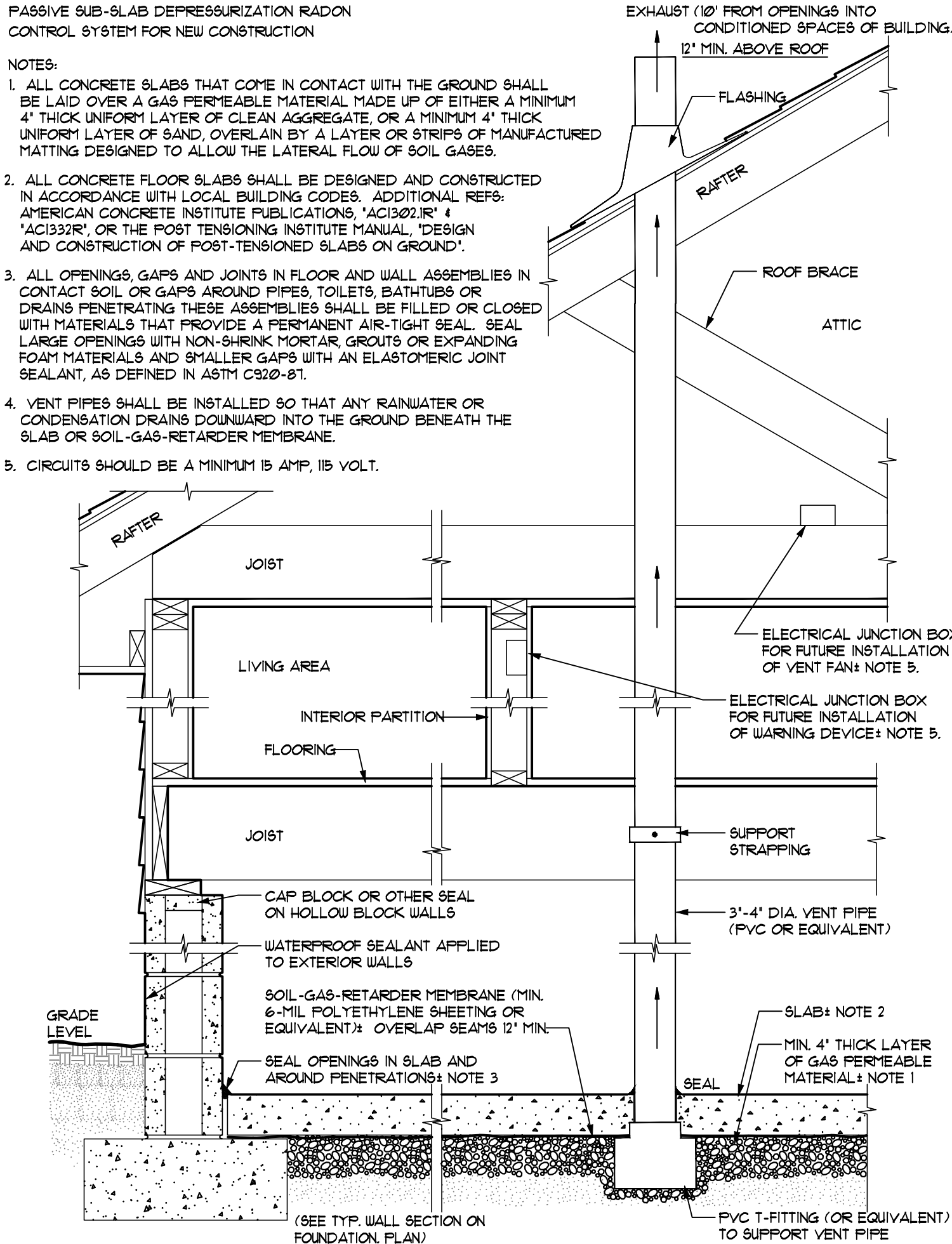
Important:

Contractor/Builders shall verify all conditions and dimensions before beginning construction. Any discrepancies shall be reported to LifeStyle Design Service for justification and/or corrections before proceeding with work. Contractor/Builders shall assume responsibility for all errors that are not reported. (888) 266-3439

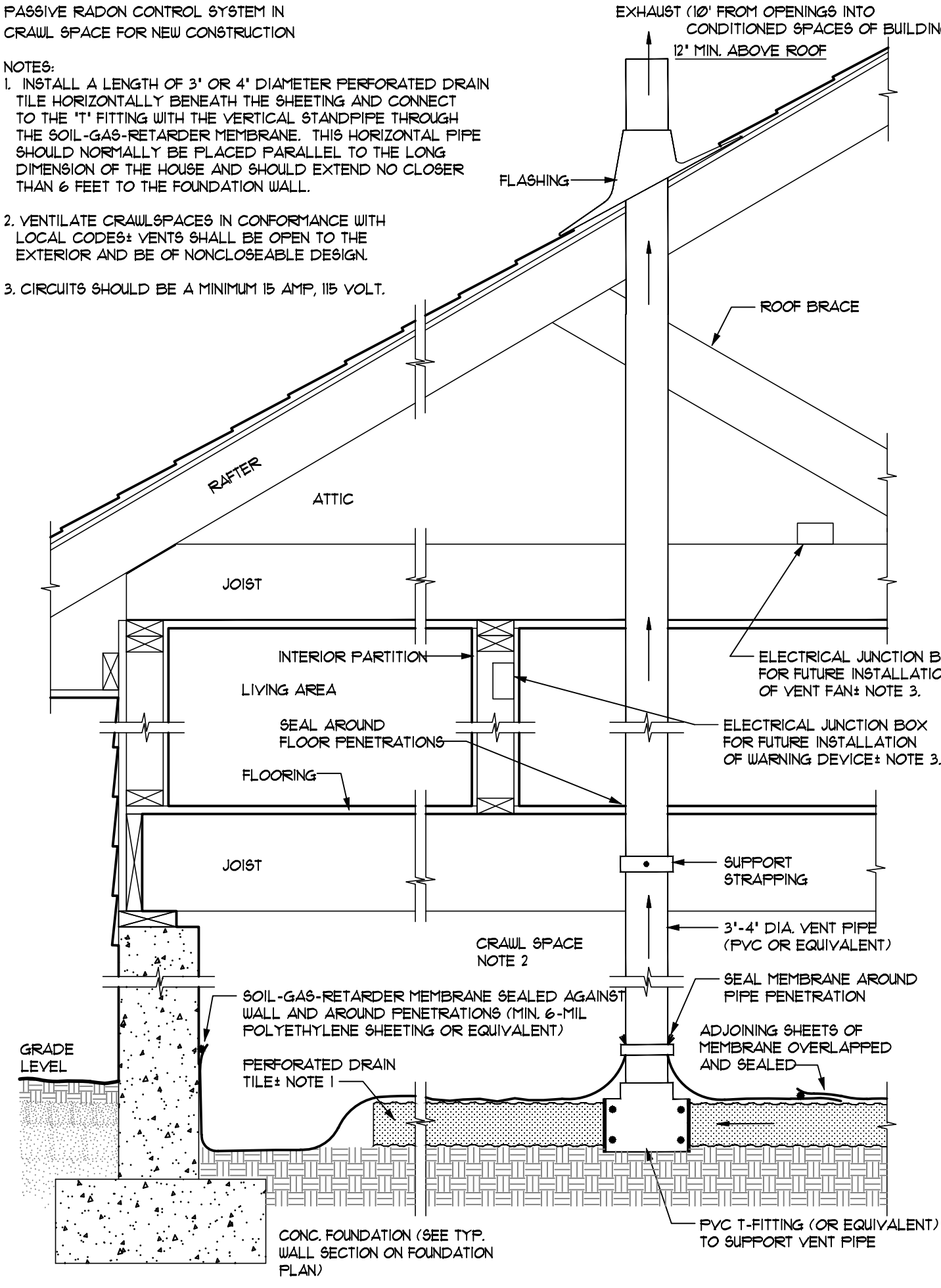


DISCLAIMER: THE PURPOSE OF THIS MAP IS TO ASSIST NATIONAL, STATE AND LOCAL ORGANIZATIONS TO TARGET THEIR RESOURCES AND TO IMPLEMENT RADON-RESISTANT BUILDING CODES. ALL HOMES SHOULD BE TESTED REGARDLESS OF GEOGRAPHIC LOCATION. EPA RECOMMENDS THAT THIS MAP BE SUPPLEMENTED WITH ANY AVAILABLE LOCAL DATA IN ORDER TO FURTHER UNDERSTAND AND PREDICT THE RADON POTENTIAL FOR A SPECIFIC AREA.

EPA RADON ZONES



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



CRAWLSPACE SUB-MEMBRANE DEPRESSURIZATION SYSTEM

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.C., THE COUNTIES OF MULTNOMAH, WASHINGTON, CLACKAMAS, POLK, YAMHILL, HOOD RIVER AND BAKER REQUIRE RADON MITIGATION, AS DO THE COUNTIES OF CLATSOP, FERRY, OKANOGAN, PEND OREILLE, SKAGANAWA, SPOKANE AND STEVENS IN THE STATE OF WASHINGTON, PER 2015 IRC/AIAC 51-51-60101 (AF10) & AF103.

FOLLOWING 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 SPACE - PROVIDE POLYURETHANE CAULK OR EQUIVALENT SEALANT AT THE FOLLOWING CRITICAL POINTS:

SLAB ON-GRADE AND BASEMENT WALLS

- CRACKS IN CONCRETE SLABS
- COLD JOINT BETWEEN TWO CONCRETE POURS
- POSES AND JOINTS IN CONCRETE BLOCKS
- FLOOR-TO-WALL CRACK OR FRENCH DRAIN
- EXPOSED SOIL, AS IN A SUMP
- WEERINGS (DRAIN) TILE, IF DRAINED TO OPEN SUMP
- MORTAR JOINTS
- LOOSE FITTING PIPE PENETRATIONS
- OPEN TOPS OF BLOCK WALLS
- WATER FROM SOME 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 UNCAFFED HOLLOW-BLOCK FOUNDATION
- ELECTRICAL PENETRATIONS
- LOOSE-FITTING PIPE PENETRATIONS
- OPEN TOPS OF BLOCK WALLS
- HEATING 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 THE SUCTION POINT IN A SUB-SLAB DECOMPRESSION SYSTEM, THE LID MUST BE DESIGNED TO ACCOMMODATE THE VENT PIPE. WHERE USED AS A FLOOR DRAINING, THE SUMP PIT LID SHALL HAVE A TRAPPED INLET.

DUCTWORK WHICH PASSES THROUGH OR BENEATH 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 M601.4). ALL JOINTS OF DUCT SYSTEMS USED IN THE HEATING OR COOLING OF A CONDITIONED SPACE SHALL BE SEALED BY MEANS OF TAPES, 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 MESH SHALL BE USED.

CRAWLSPACE ACCESS OR UNDER-FLOOR MECHANICAL EQUIPMENT ACCESS OR ANY OTHER ACCESS 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 DRAIN INTO THE UNIT.

CRAWL SPACE RADON MITIGATION

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

METHOD 1 - MECHANICAL VENTILATION (AF103, EXCEPTION)

- PROVIDE AN APPROVED MECHANICAL CRAWL SPACE VENTILATION SYSTEM OR OTHER EQUIVALENT SYSTEM.

METHOD 2 - PASSIVE SUB-MEMBRANE DEPRESSURIZATION SYSTEM (AF103.5)

- PROVIDE FOUNDATION VENTILATION SYSTEM (SEE FOUNDATION NOTES FOR CRAWLSPACE 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)

METHOD 3 - CRAWLSPACE VENTILATION AND BUILDING TIGHTNESS

- PROVIDE NO LESS THAN ONE NET SQ. FT. OF CRAWLSPACE FOUNDATION VENT AREA PER EACH 150 SQ. FT. OF UNDER-FLOOR AREA (SEE FOUNDATION NOTES FOR CRAWLSPACE VENTING LOCATION REQUIREMENTS)
- OPERABLE LOUVERS, DAMPERS, OR OTHER MEANS TO TEMPORARILY CLOSE OFF VENT OPENINGS ARE NOT ALLOWED TO MEET THE REQUIREMENTS OF THIS RADON MITIGATION METHOD.
- DUELLINGS SHALL BE TESTED WITH A BLOWER DOOR DEPRESSURIZING THE DUELLING TO 50 PASCALS FROM AMBIENT CONDITIONS AND FOUND TO EXHIBIT NO MORE THAN 50 AIR CHANGES PER HOUR.
- INSTALL A MECHANICAL EXHAUST SUPPLY, OR COMBINATION VENTILATION SYSTEM PROVIDING WHOLE-BUILDING VENTILATION RATES AS PER TABLE N101(3).

VENTILATION AIR REQUIREMENTS (cfm)

FLOOR AREA (FT. ²)	0-1	2-3	4-5	6-1	>1
<1500	30	45	60	75	90
1501-3,000	45	60	75	90	105
3,001-4,500	60	75	90	105	120
4,501-6,000	75	90	105	120	135
6,001-15,000	90	105	120	135	150
>15,000	105	120	135	150	165

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 BENEATH THE SLAB FLOOR SYSTEM THROUGH THE FLOORS OF THE DUELLING 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 LIVING 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 3" 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 LATERAL 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 ENCLOSED THE CRAWL SPACE AREA.
- THE SHEETING SHALL FIT CLOSELY AROUND ANY PIPE, WIRE OR OTHER PENETRATIONS OF THE MATERIAL.
- ALL FURTHER OR TEARS IN THE MATERIAL SHALL BE SEALED OR COVERED WITH ADDITIONAL SHEETING.

VENT PIPE (RADON)

- A PLUMBING TEE OR OTHER APPROVED CONNECTION SHALL BE INSTALLED HORIZONTALLY BENEATH THE SOIL-GAS-RETARDER SHEETING AND CONNECTED TO A 3" OR 4" DIAMETER FITTING WITH A VERTICAL VENT 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 INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2 FEET BELOW THE EXHAUST POINT, AND 10 FEET FROM ANY WINDOW OR OTHER OPENING IN ADJOINING 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 BENEATH THE SLAB OR SOIL-GAS-RETARDER.
- RADON VENT PIPES SHALL BE ACCESSIBLE FOR FUTURE FAN 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

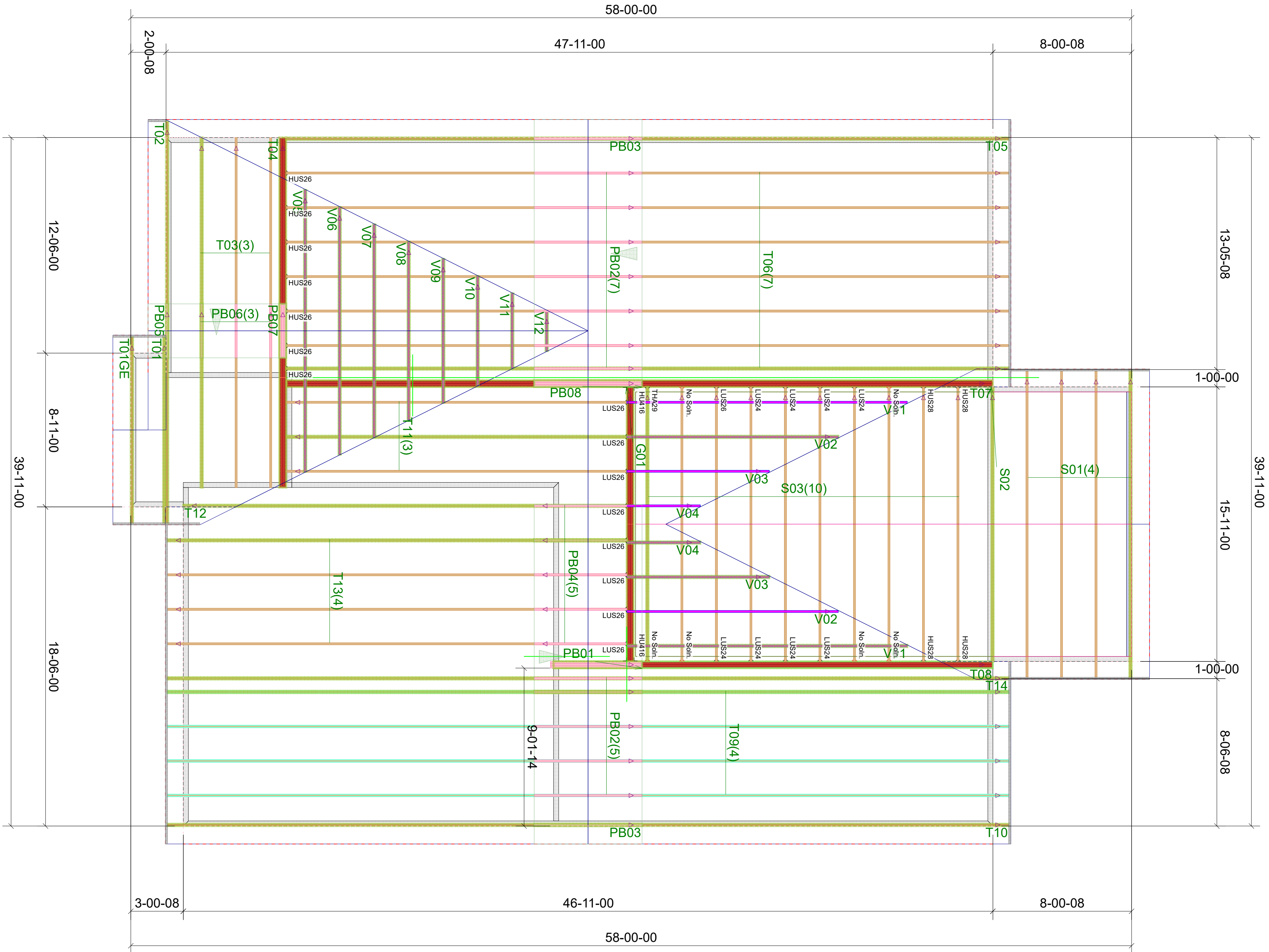
- COMBINATION BASEMENT/CRAWL SPACE OR SLAB-ON-GRADE/CRAWL SPACE FOUNDATIONS SHALL HAVE SEPARATE RADON MITIGATION SYSTEMS IN EACH TYPE OF FOUNDATION AREA. PASSIVE SUB-SLAB AND PASSIVE SUB-MEMBRANE RADON VENT PIPES MAY BE CONNECTED TO A SINGLE VENT TERMINATING ABOVE THE ROOF, OR EACH VENT MAY INDIVIDUALLY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

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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	



4476 Hwy. 21 W
West End, NC 27376
(910) 673-4711

NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PERREACTIONS 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.sbindustry.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

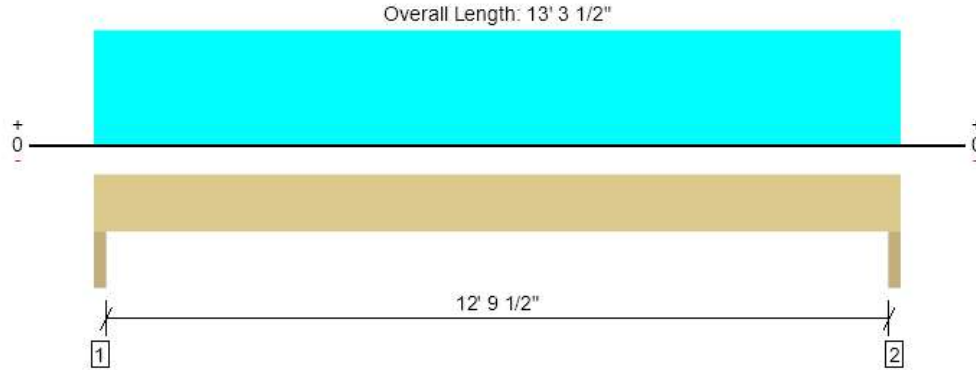


11/3/2025 7:40:31 PM UTC

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)

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

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

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

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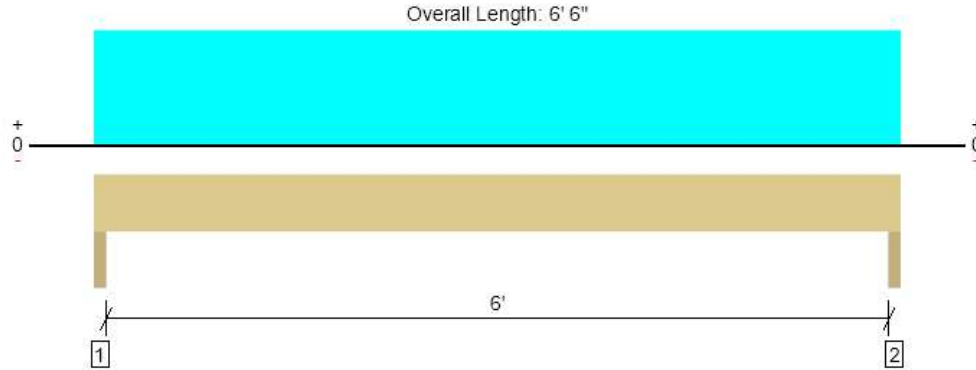
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

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



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

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

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

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

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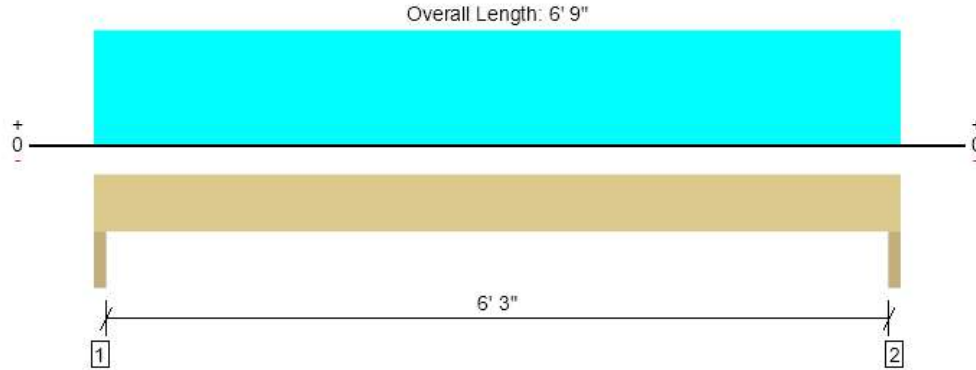
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

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



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 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)

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

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

Supports	Bearing Length			Loads to Supports (lbs)					Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Snow	Factored	
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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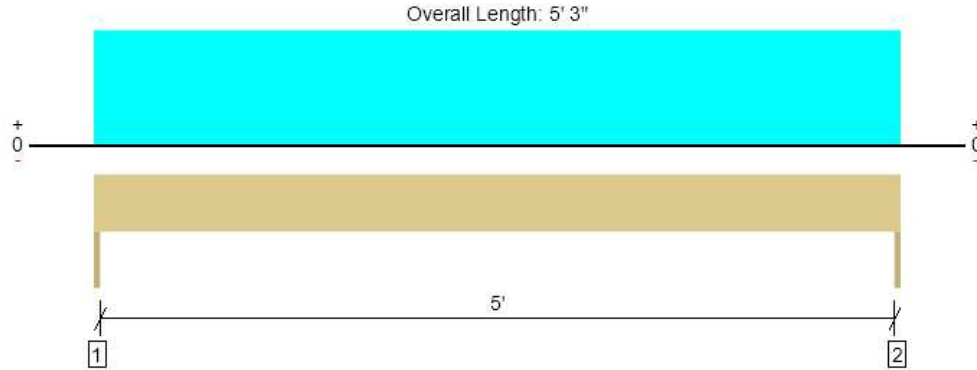
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

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



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 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)	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)

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

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

Supports	Bearing Length			Loads to Supports (lbs)					Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Snow	Factored	
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

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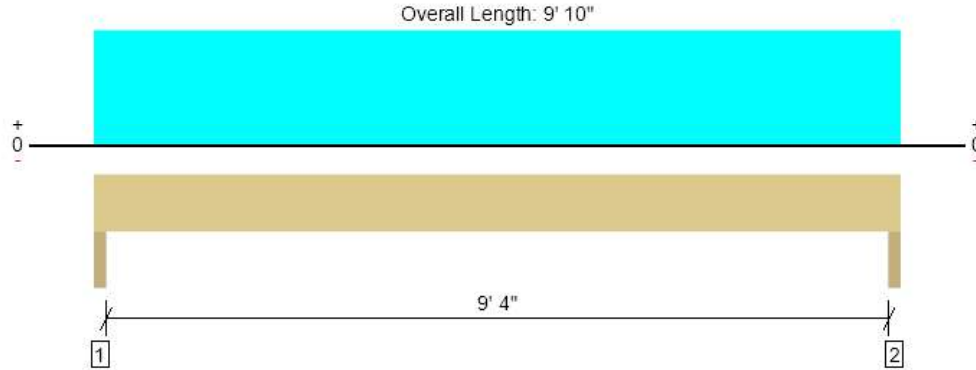
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ForteWEB Software Operator	Job Notes
Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@weyerhaeuser.com	Sandford, NC 27330 Ticket # 162106



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)

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

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

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

- 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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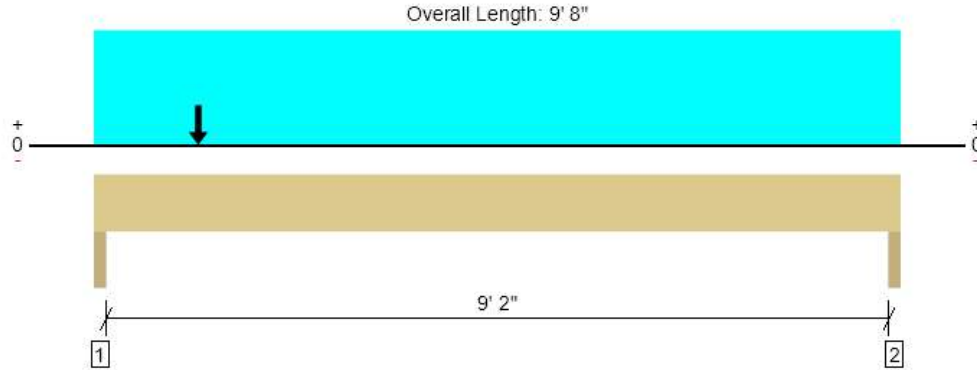
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11/3/2025 7:40:31 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: 162106

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)

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

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

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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- If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC).
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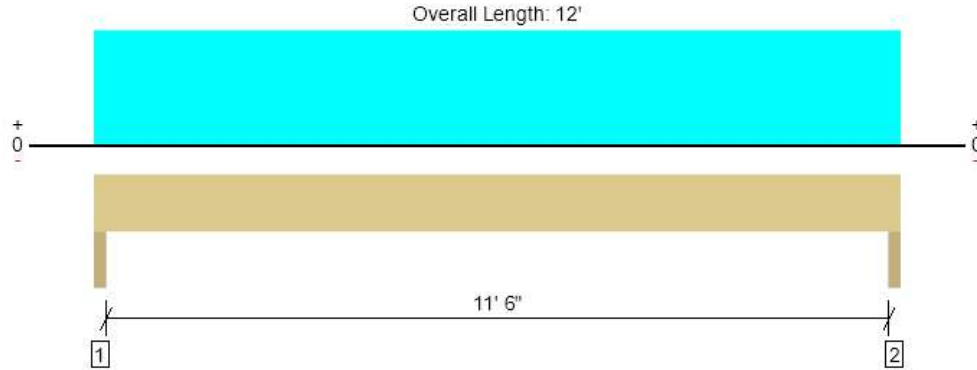
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11/3/2025 7:40:31 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: 162106

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)

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

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

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

- This calculation is a preliminary analysis based solely on gravity loads and is applicable only to TrusJoist® products for the referenced project.
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Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@weyerhaeuser.com	Sandford, NC 27330 Ticket # 162106



11/3/2025 7:40:31 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: 162106



RB01 (Roof Flush Beam)

Dry | 1 span | No cant.

October 17, 2025 09:05:36

BC CALC® Member Report

Build 9045

Job name:

File name:

C:\Users\MarkLovelace...BCCALCSPEC\IP25101839

Address:

Description:

GARAGE DOOR

City, State, Zip:

Specifier:

Customer:

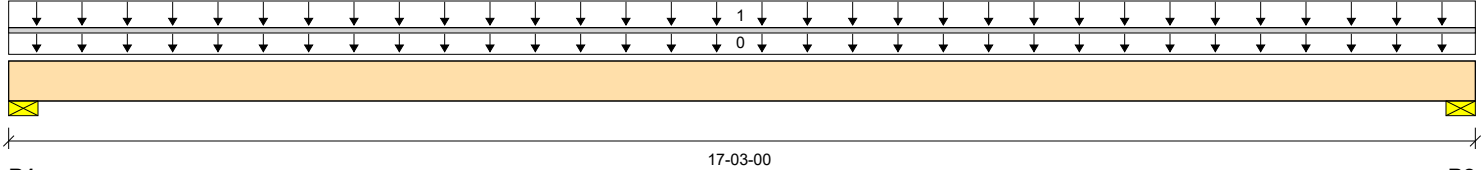
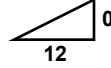
Designer:

MARK LOVELACE

Code reports: ESR-1040

Company:

LONGLEAF TRUSS CO



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 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
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/ft²)	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/a	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/a	4	08-07-08
Live Load Deflection	L/553 (0.355")	43.4%	n/a	5	08-07-08
Max Defl.	0.722"	72.2%	n/a	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%	Spruce-Pine-Fir
B2	Wall/Plate 6" x 3-1/2"	8765 lbs	98.2%	55.7%	Spruce-Pine-Fir

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.



RB01 (Roof Flush Beam)

Dry | 1 span | No cant.

October 17, 2025 09:05:36

BC CALC® Member Report

Build 9045

Job name:

File name:

C:\Users\MarkLovelace...BCCALCSPEC\IP25101839

Address:

Description:

GARAGE DOOR

City, State, Zip:

Specifier:

Customer:

Designer:

MARK LOVELACE

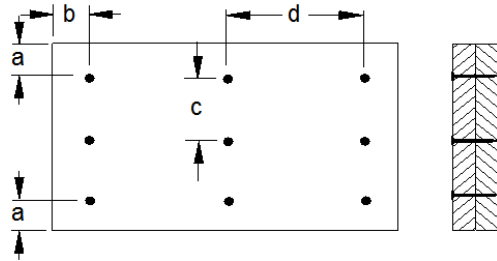
Code reports:

ESR-1040

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.