ELEVATION NOTES:
GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE
FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY. BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN
TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.

ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE.

ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MIN.
NET CLEAR OPENING OF 4.0 SQ FT. THE MIN NET CLEAR OPENING HEIGHT
DIMENSION SHALL BE 22". THE MIN NET CLEAR OPENING WIDTH SHALL BE 20".

EACH EGRESS WINDOW FROM SLEEPING ROOMS MUST HAVE A SILL HIGHT OF
NO MORE THAN 44" FROM THE FLOOR. ALL WINDOW SIZES ARE NOMINAL AND
ARE TO BE VERIFIED WITH MANUFACTURER FOR AVAILABILITY AND CONFORMITY
TO STATE AND LOCAL CODE REQUIREMENTS.

PORCHES, BALCONIES, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30"
ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN
32" NUMBER!

I ASSUME NO RESPONSIBILITY FOR ANY DISTANCES AFTER START OF CONSTRUCTION.

CONTRACTOR/BUILDER SHALL CONSULT WITH HOME OWNER ON ALL INTERIOR AND EXTERIOR MOLDINGS, TRIMS, COLORS, FINISHES, CABINET LAYOUTS, AND MANUFACTORS BEFORE CONSTRUCTION BEGINS.

ALL BEAMS AND FRAMING MEMBERS ARE SIZED BY OTHERS.

1.1 This plan has been drawn to comply with the 2018 NC Building Code

- 1.2 Minimum Design Loads for Building and Other Structures ASCE 7-9B
- 2 Roof Dead Load 115 PSF
- 3 Roof Live Load 20 PSF
- 4 Typical Floor Dead Load 10 PSF
- 5 Floor Live Loads
 5.1 Rooms other than sleeping rooms 40 PSF
- 5.2 Sleeping Rooms 30 PSF
- 5.3 Stairs 40 PSF 5.4 Decks 40 PSF
- 5.5 Exterior Balconies 60 PSF
- Wind Loads 6.1 Ultimate Design Wind Speeds 15 MPH
- 6.2 Wind Importance Factor, IW 1.00
- 6.3 Exposure B
- 6.4 Walls (Component and Cladding) 25 PSF 6.5 Roofs (Component and Cladding)
- 6.5.1 Roof Slopes 2.25/12 to 7/12 34.8 PSF 6.5.2 Roof Slopes 7/12 to 12/12 21 PSF

It is the sole responsibility of the Contractor and/or Builder to conform to all standards, provisions, requirements, methods of construction and uses of materials provided in buildings and/or structures as required by NC Uniform Building Code, Local Agencies and in accordance with good engineering practices. Verify all dimensions prior to construction.



FENESTRATION CALCULATIONS

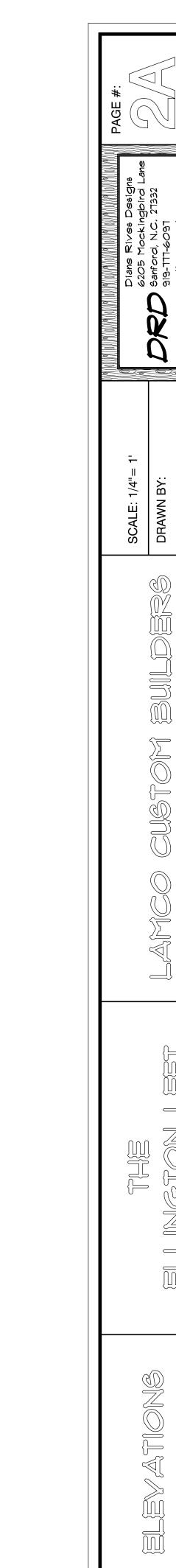
Floor	Height Of Ext. Wall	Area Of Ext. Wall	Ext. Wall					
lst								
2nd	9'	2270	2270					
other								
2270	Total Sq. Ft.	Total Sq. Ft. of Exterior Walls						

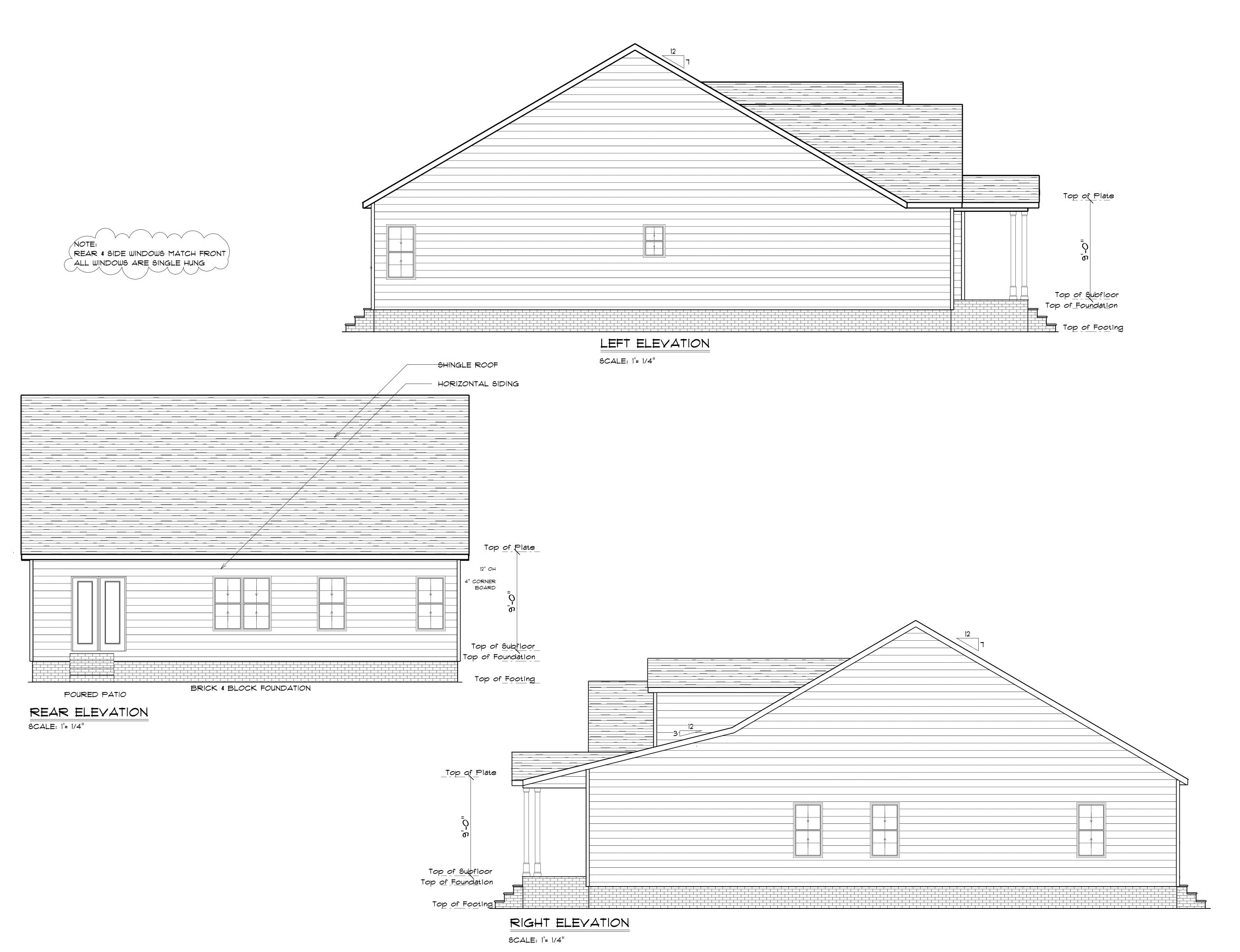
Total Fenestration	Total Exterior Walls	Percentage of wall openings
224	2270	10%

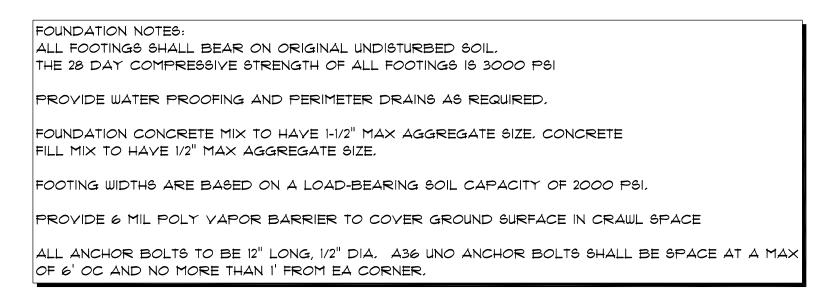
Above Grade Walls
Surrounding Heated Space

LINGTON LEF

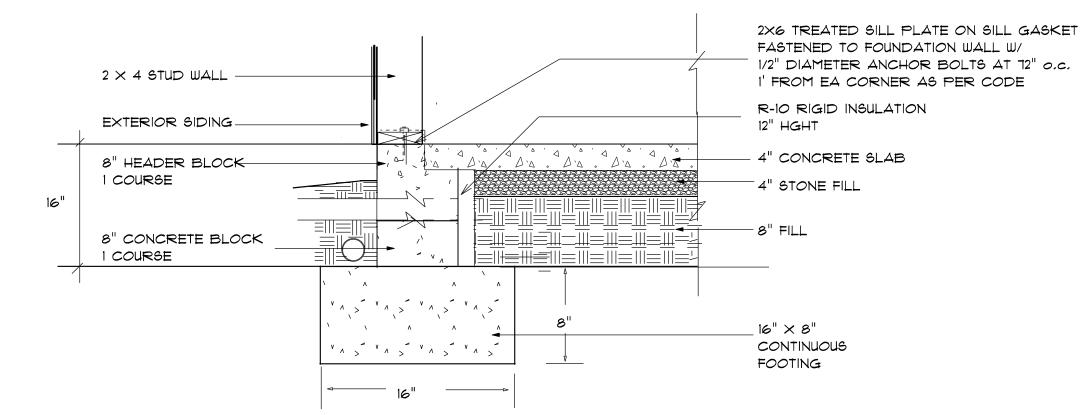
EVATION A



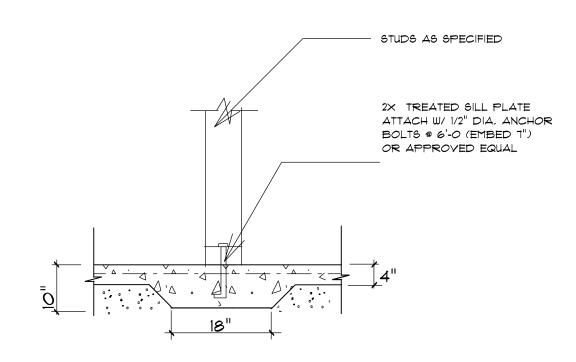




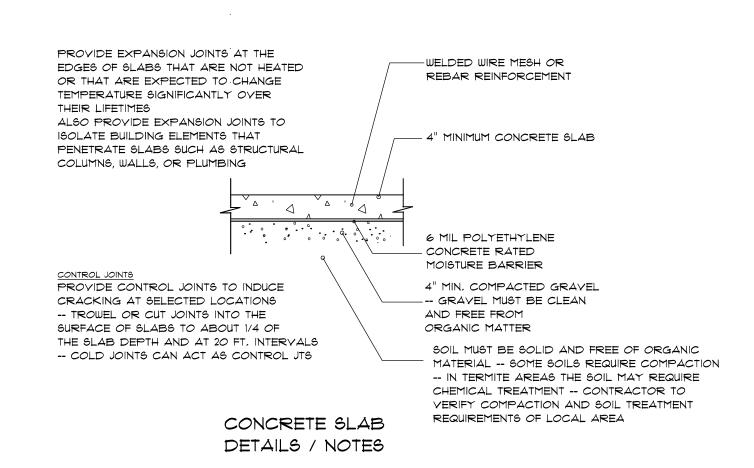
Termite Soil Treatment: Treat entire slab area soil or crawl space surface before vapor barrier is installed and slab is poured with a state approved termiticide. Termiticide should be applied by a licensed and certified pest control professional by the state of North Carolina.

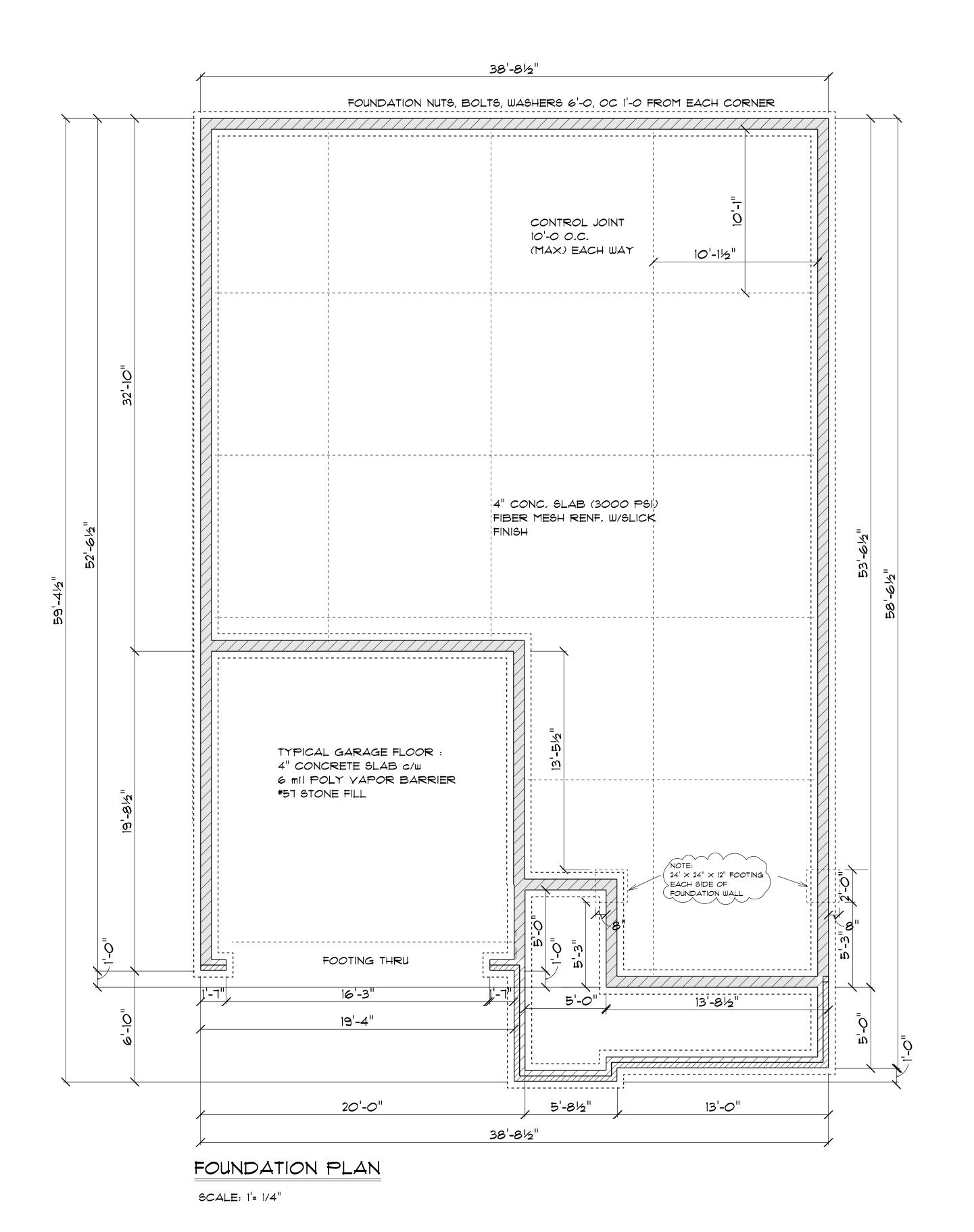


STEM WALL FOUNDATION Detail not to scale



TYPICAL THICKENED SLAB





PAGE #:

Diane Rives Designs

Diane Rives Designs

6205 Mockingbird Lane

8305-111-6091

golfwoman@charter.net

DRD DS0

SCALE: 1/4" = 1'

DRAWN BY:

AMCO CUSTOM BUIL

ELLINGTON RAGE LEFT

OPENING SCHEDULE									
SIZE	COUNT	LIBRARY NAME	R.O. SIZE						
2'-4" x 4'-0"	2	Window\Single Hung	R.O. 28" x 48"						
2'-8" x 5'-0"	6	Window\Single Hung	R.O. 32" x 60-1/2""						
2'-8 x 5'-0" Dbl	2	Window\Single Hung	R.O. 64-1/2" x 60-1/2""						
2'-0" x 3'-0"	1	Window\Single Hung	R.O. 24" x 36"						

GENERAL FRAMING NOTES:

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED

FRAMING LUMBER SHALL BE SYP *2 GRADE AND/OR SPRUCE PINE FIR *1 AND/OR *2, KILN DRIED.

WHERE PRE-ENGINEERED JOISTS ARE USED, JOIST MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N.C. ENGINEER.

STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN THE MEMBER TO ITS ORIGINAL CAPACITY.

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" OC AN USE 3-16d NAILS 2" IN AT EACH END. DOUBLE ALL STUDS UNDER ROOF POST DOWNS UNO.

NAIL FLOOR JOISTS TO SILL PLATE WITH 8d TOE NAILS.

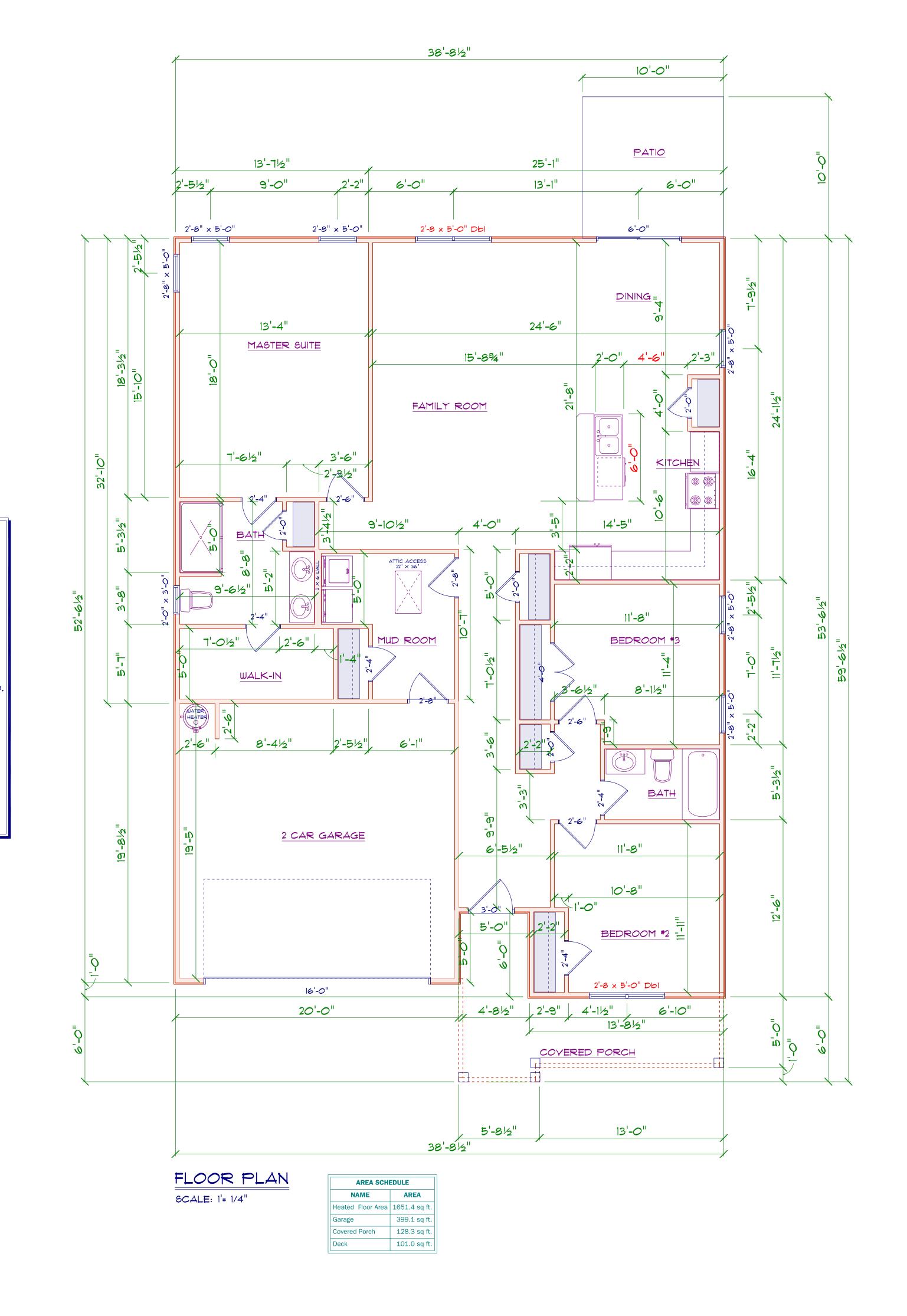
ALL EXPOSED FRAMING ON PORCHES AND DECKS SHALL BE PRESSURE TREATED.

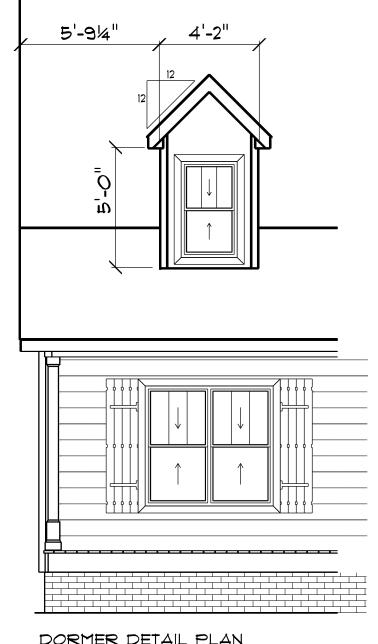
PROVIDE WATERPROOFING AND DRAINS AS REQUIRED.

ALL FRAMING TO BE 16" OC UNO. WALL FRAMING DIMENSIONS ARE BASED ON 2×4 STUDS UNO. DOUBLE STUDS UNDER ALL HEADERS.

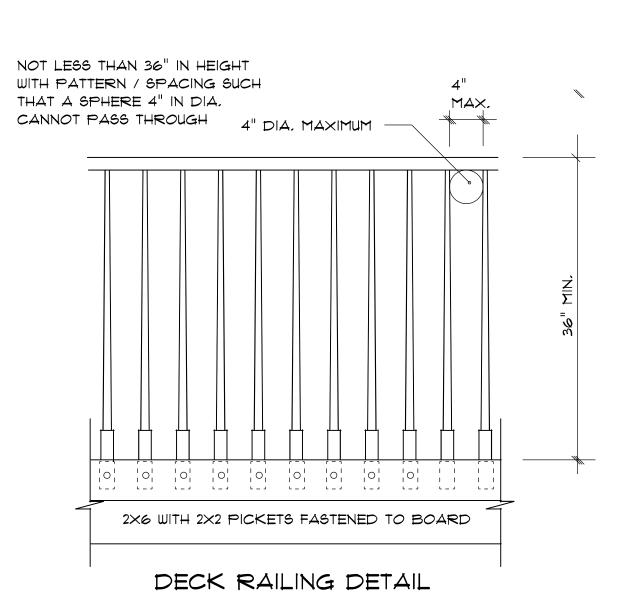
LYL'S AND TJI'S TO BE SIZED BY OTHERS

EXTERIOR WALLS IN LIVING AREAS ARE 2 × 4

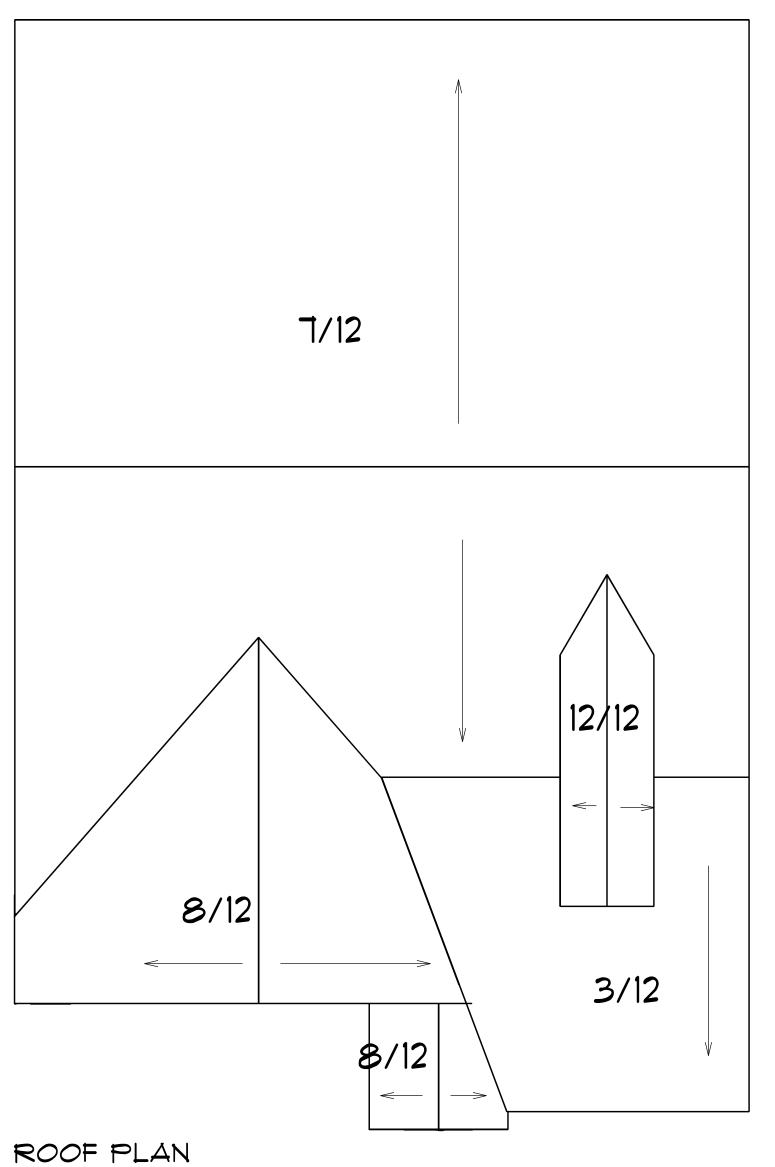




DORMER DETAIL PLAN SCALE: 1'= 1/4"

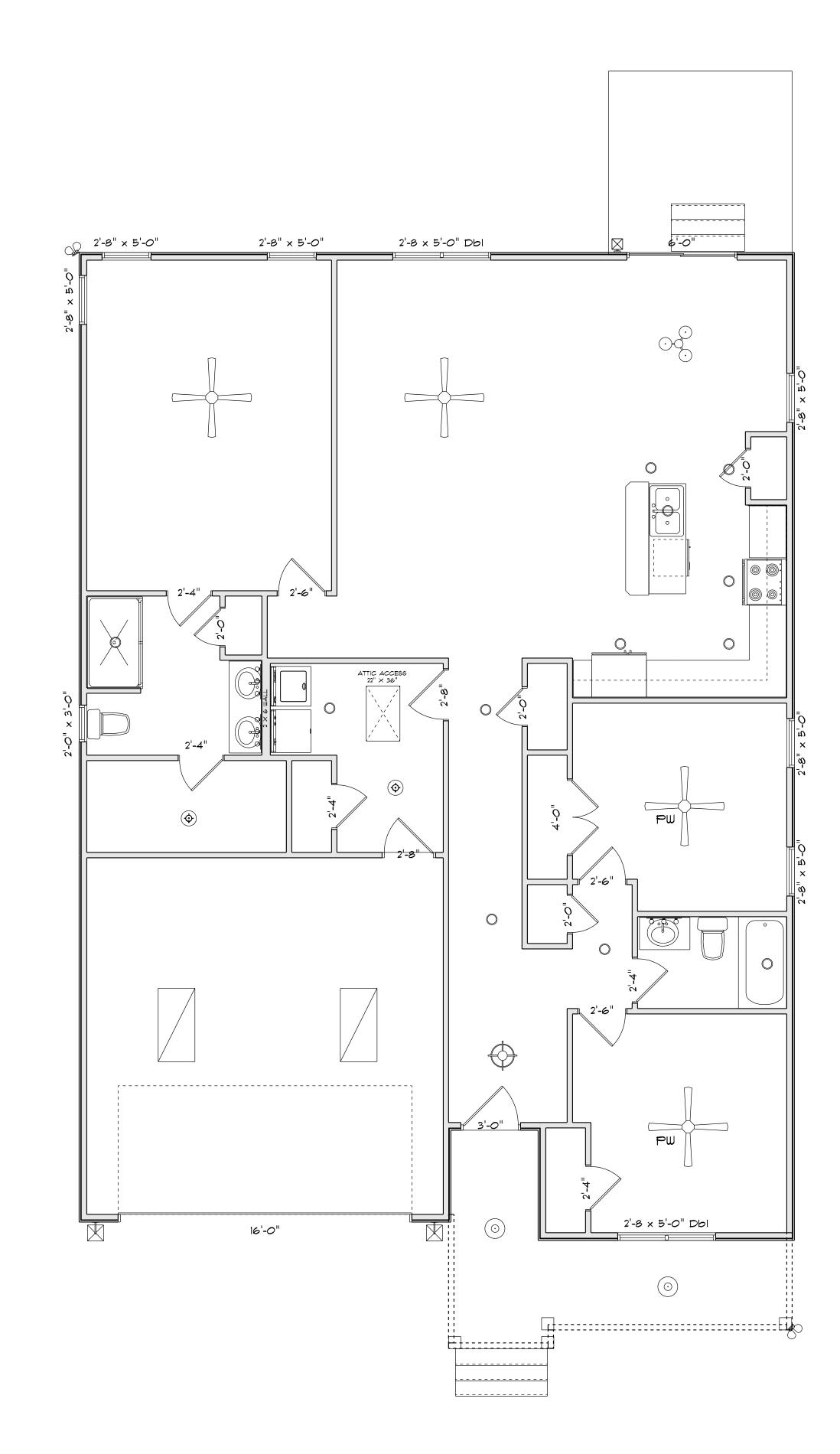


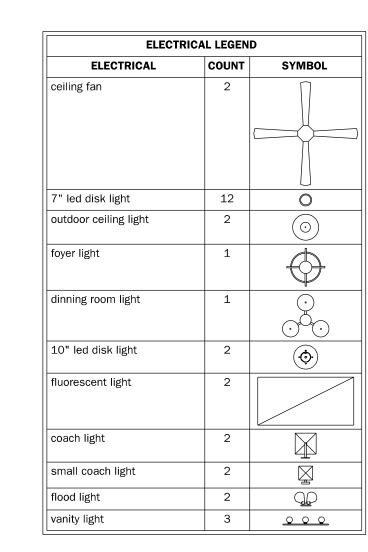
HANDGRIP PORTION OF ALL HANDRAILS SHALL NOT BE LESS THAN 1-1/4" NOR MORE THAN 2" IN CROSS SECTIONAL DIMENSION, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE

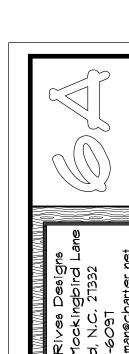


12" OYER HANG ALL

SCALE: 1'= 1/8"







KICAL THE STONANGTON

ROOF TRUSS NOTES:

DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAGE TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying

any truss. Espanol - (NO CORTE, PERFORE, HAGA MUESCAS O DANE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA). Contacte a su representante de BFS para sistencia ANTES de realizar cualquier

- nodification.) This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagram has been prepared by a Truss Technician and is not an engineered drawing.
- The responsibilities of the Owner, Building
 Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard.
- 3. The wood components shown on this diagram are to be used in dry service (moisture content<19%) and non-toxic environmental applications. The metal plates and hangers are galvanized to the G60 Standard unless noted otherwise.

 4. Refer to the Truss Design Drawings for specific
- information about each individual truss design.

 5. The Truss Technician shall provide Truss-to-Truss Connection Requirements. Any special or other connection shall be the responsibility of the Building
- 6. The Truss Placement Diagram and Truss Design Drawings are the property of Builders FirstSource and may not be reused or reproduced in part or in total under any circumstances without prior written
- 7. In some cases, field framing may be required to achieve the final appearance shown on the Construction Documents.
- . Field framing, including valley rafters, installed over roof trusses shall have a knee brace from the rafter to the truss top chord at intervals of 48" on center (O.C.) or less. Stagger knee braces from adjacent rafters such that the load is distributed uniformly over multiple truss locations and not concentrated at one location or along one truss.
- Truss Top Chords shall be fully sheathed or have lateral bracing (purlins) spaced at 24" O.C. or less. Truss Bottom Chord Bracing shall not exceed the maximum shown on the Truss Design Drawing. Field framed bottom chord floor or ceiling attachments shall be spaced at 24" O.C. or less. Proper Bracing prevents buckling of individual truss members due to design loads. 10. This Placement Diagram is based upon the
- supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, and Contractor. 11. If Piggyback Trusses are included in this project
- refer to the Mitek Piggyback Connection Detail applicable for the project details and wind load category.
 12. The Contractor shall follow the SBCA TTB
- Partition Separation Prevention and Solutions for truss attachment to non-load bearing walls and carefully complete these details to avoid gypsum wall board

WARNING:

TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH.

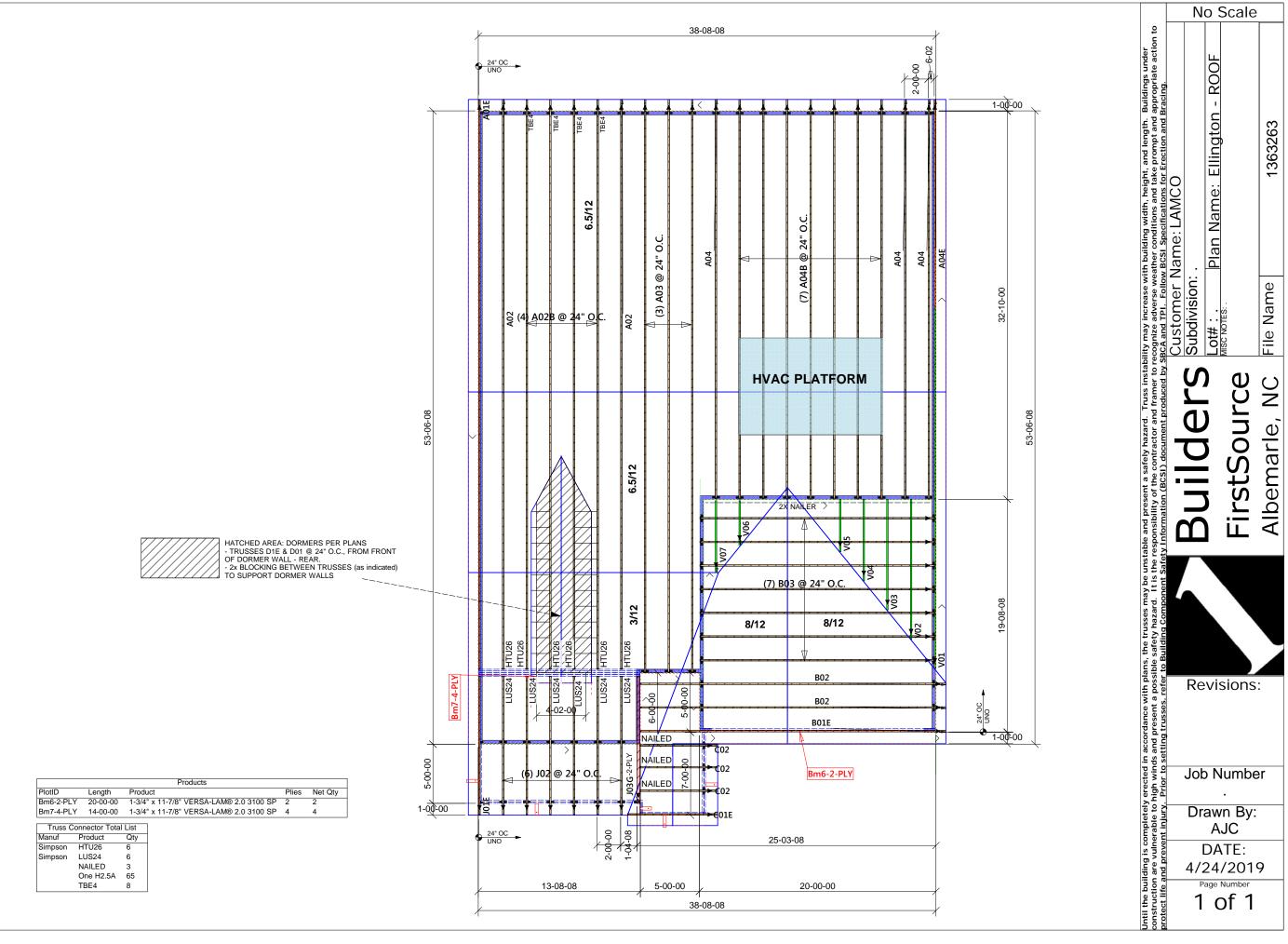
ESPANOI - (TRUSSES (CERCHAS) DEBERAN
ITENER UN SOPORTE DURANTE LA INSTALACION NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.)

- Trusses shall be installed in a safe manner meetin all code, local, OSHA, TPI, and BCSI Specifications. Failure to follow these specifications may result in injury or death.
- . Buildings under construction are vulnerable to high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse veather conditions and shall take appropriate action to prevent injury or death.

BCSI INSTRUCTIONS SHALL BE FOLLOWED:

- BCSI-B1 = Safe Truss Handling and Installation BCSI-B2 = Installation and Temporary Restraint
- BCSI-B3 = Permanent Restraint
- BCSI-B4 = Safe Construction Loading
- BCSI-B5 = Truss Damage and Modification Guidelines BCSI-B7 = Floor Truss Installation
- BCSI-B8 = Toe-Nailed Connections BCSI-B9 = Multi-Ply Girders
- BCSI-B10 = Post Frame Truss Installation BCSI-B11 = Fall Protection
- Follow TPI Requirements for Long Span Trusses

TOTAL ROOF AREA 2759.97 SQ FT





Quadruple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

BM7-4 (Roof Beam)

PASSED

July 10, 2019 07:28:30

BC CALC® Member Report

Dry | 1 span | No cant.

Build 7082

Job name:

Ellington

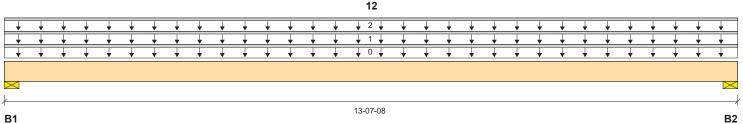
File name: Description: Specifier:

Address: City, State, Zip: Builder:

LAMCO

Code reports: ESR-1040 Designer: Company: **BFS**





Total Horizontal Product Length = 13-07-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	` Dead	Snow	Wind	Roof Live	
B1, 3-1/2"		5474 / 0			5310 / 0	
B2. 3-1/2"		5474 / 0			5310 / 0	

Load Summary						Live	Dead	Snow	Wind	Roof Live	Tributary	
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-07-08	Тор		24				00-00-00
1	A02 Trusses	Unf. Lin. (lb/ft)	L	00-00-00	13-07-08	Top		734			734	n∖a
2	J02 Trusses	Unf. Lin. (lb/ft)	L	00-00-00	13-07-08	Top		46			46	n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	34305 ft-lbs	64.5 %	125%	4	06-09-12
End Shear	8756 lbs	44.4 %	125%	4	01-03-06
Total Load Deflection	L/288 (0.548")	62.4 %	n∖a	4	06-09-12
Live Load Deflection	L/586 (0.27")	41.0 %	n∖a	5	06-09-12
Max Defl.	0.548"	54.8 %	n\a	4	06-09-12
Span / Depth	13.3				

Beari	ing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	3-1/2" x 7"	10785 lbs	n∖a	58.7 %	Unspecified	
B2	Wall/Plate	3-1/2" x 7"	10785 lbs	n∖a	58.7 %	Unspecified	

Cautions

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

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.

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side.

Bolts are assumed to be Grade A307 or Grade 2 or higher.

Member has no side loads.



Quadruple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

BM7-4 (Roof Beam)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

July 10, 2019 07:28:30

Build 7082

Builder:

Code reports:

Job name: Ellington
Address:
City, State, Zip:

LAMCO

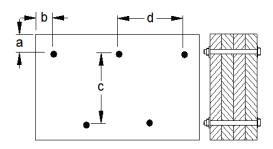
ESR-1040

File name: Description:

Specifier:

Designer: Company: BFS

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 2-1/2" c = 7-7/8" d = 24"

Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side. Bolts are assumed to be Grade A307 or Grade 2 or higher.

Member has no side loads.

Connectors are: 1/2 in. Staggered Through Bolt

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.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

BM6-2 (Roof Beam)

PASSED

BC CALC® Member Report Build 7082

Job name: Ellington Address:

City, State, Zip: LAMCO

Builder:

Dry | 1 span | No cant.

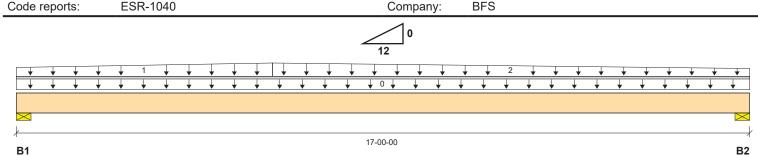
July 10, 2019 07:26:27

File name:

Description:

Specifier: Designer:

Company: **BFS**



Total Horizontal Product Length = 17-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead Snow Wind **Roof Live** B1, 3-1/2" 959 / 0 B2, 3-1/2" 893 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	17-00-00	Тор		12				00-00-00
1	Gable	Trapezoidal (lb/ft)	L	00-00-00		Top		80				n∖a
					05-11-04			120				
2	Gable	Trapezoidal (lb/ft)	L	05-11-04		Top		120				n∖a
		. , ,			17-00-00	•		70				

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	3954 ft-lbs	20.6 %	90%	0	08-02-05
End Shear	920 lbs	12.9 %	90%	0	01-03-06
Total Load Deflection	L/806 (0.246")	22.3 %	n∖a	2	08-06-00
Live Load Deflection	L/999 (0.048")	n∖a	n∖a	5	08-06-00
Max Defl.	0.246"	24.6 %	n∖a	2	08-06-00
Span / Depth	16.7				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 3-1/2"	1228 lbs	n∖a	13.4 %	Unspecified
B2	Wall/Plate	3-1/2" x 3-1/2"	1163 lbs	n∖a	12.7 %	Unspecified

Cautions

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

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.

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Member has no side loads.





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

BM6-2 (Roof Beam)

Dry | 1 span | No cant.

July 10, 2019 07:26:27

PASSED

Build 7082

Job name:

Ellington

File name:

Address:

BC CALC® Member Report

Description:

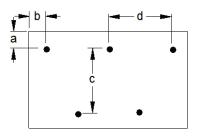
City, State, Zip:

Specifier:

BFS

Builder: Code reports: LAMCO Designer: ESR-1040 Company:

Connection Diagram: Full Length of Member





a minimum = 2" b minimum = 3" c = 7-7/8" d = 24"

Member has no side loads. Connectors are: 16d Sinker 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.

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