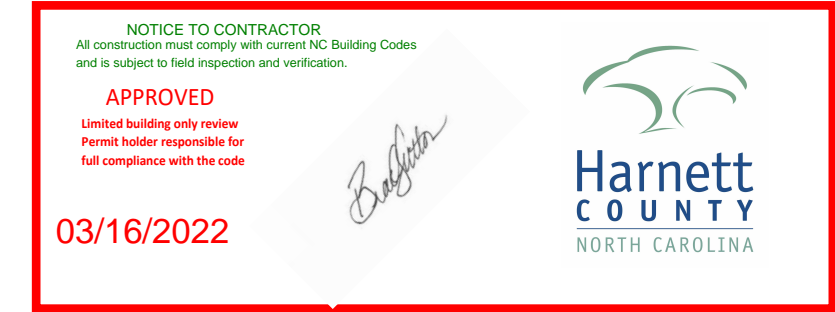




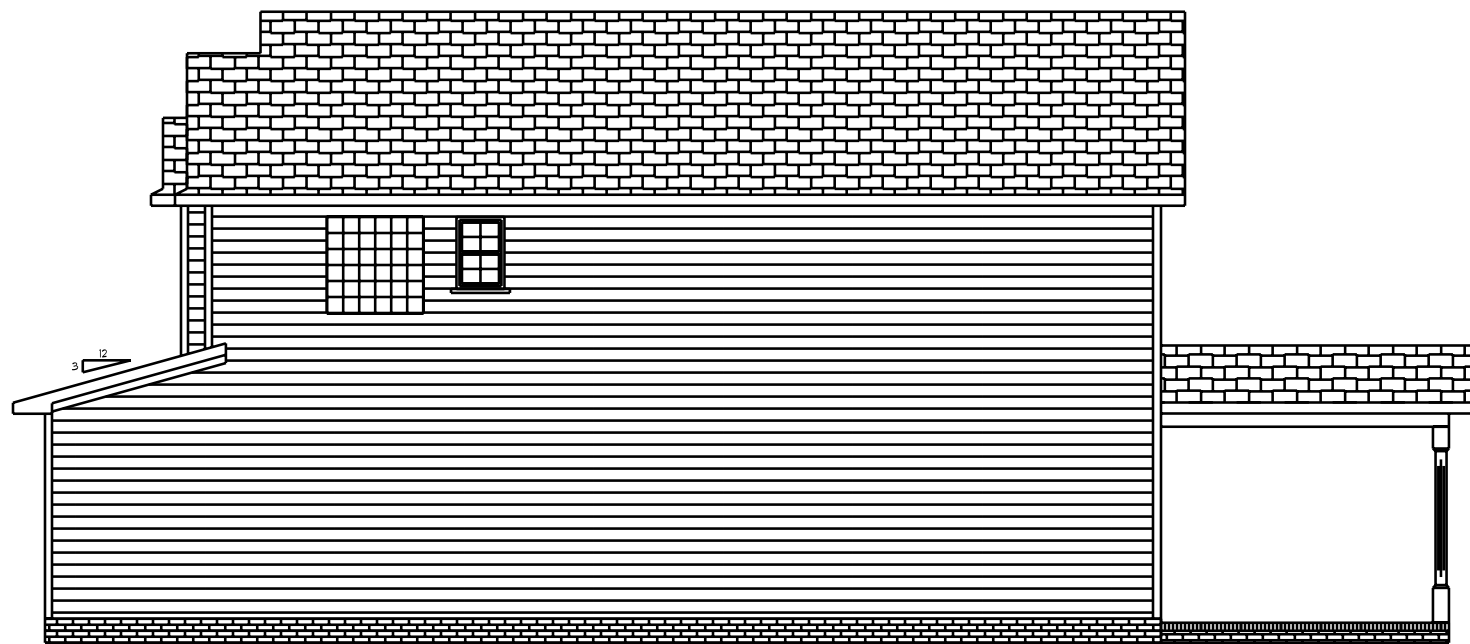
**Front Elevation**  
Scale: 1/4" = 1'0"



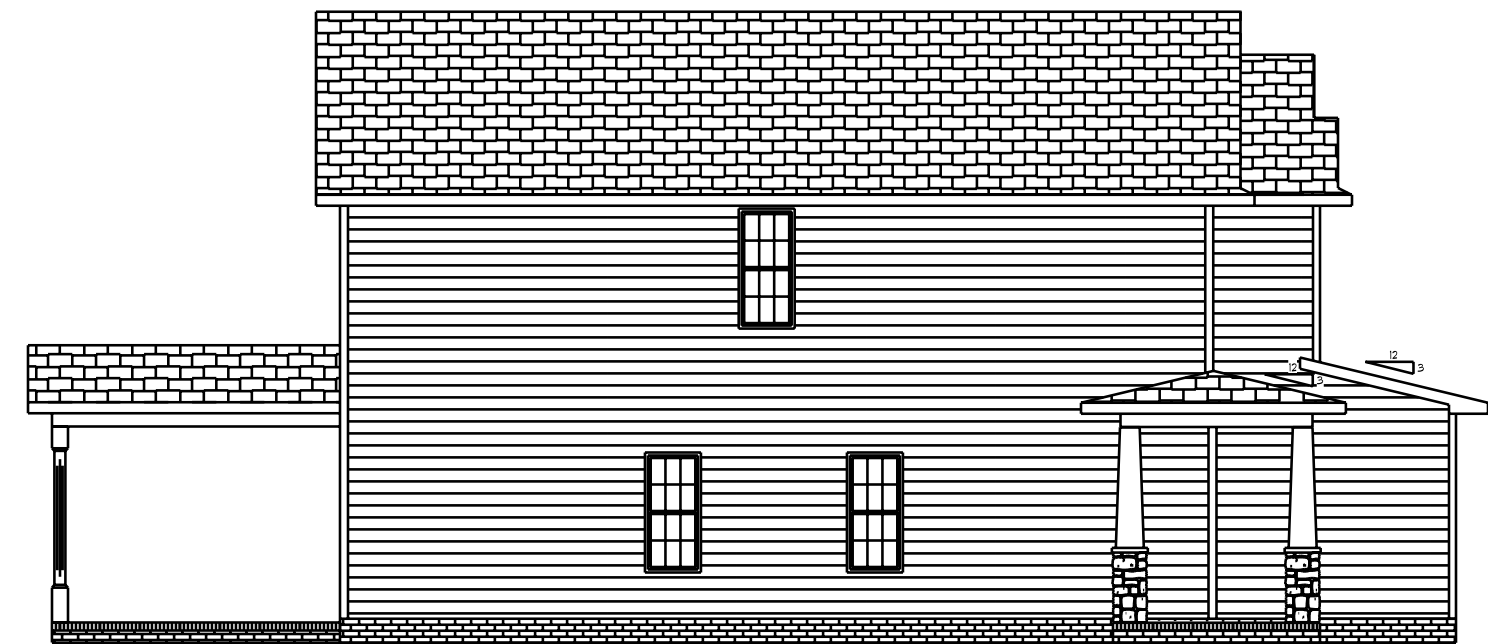
**SPECIAL FASTENING  
REQUIREMENTS FOR 4  
PLY LVL OVER GARAGE**



**Rear Elevation**  
Scale: 1/8" = 1'0"



**Right Elevation**  
Scale: 1/8" = 1'0"



**Left Elevation**  
Scale: 1/8" = 1'0"

Base Designs  
2727 Chimney Pt.  
Linden N.C. 28356  
910-864-1253

DATE Friday, July 12, 2019

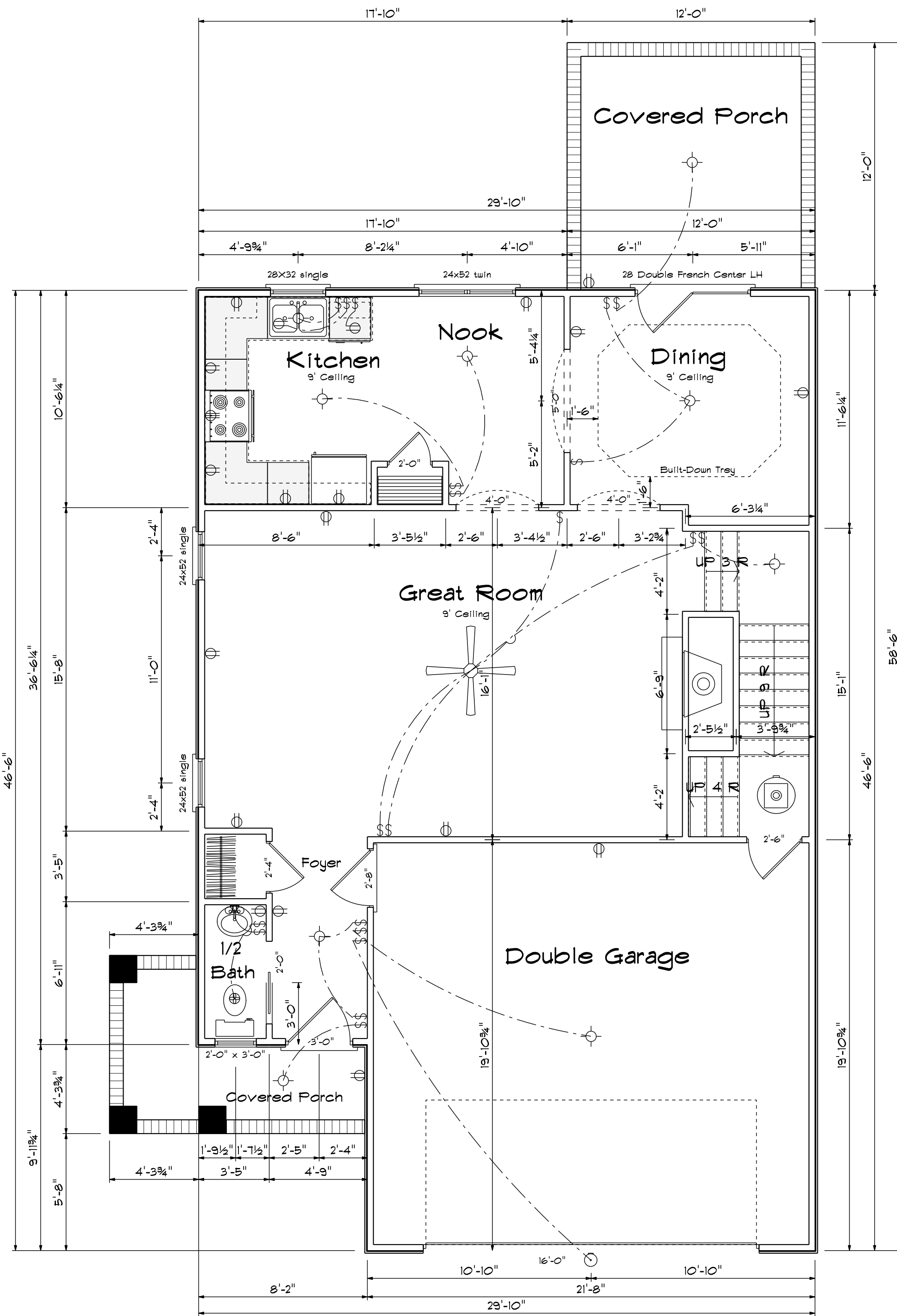
REVISED

DRAWING#

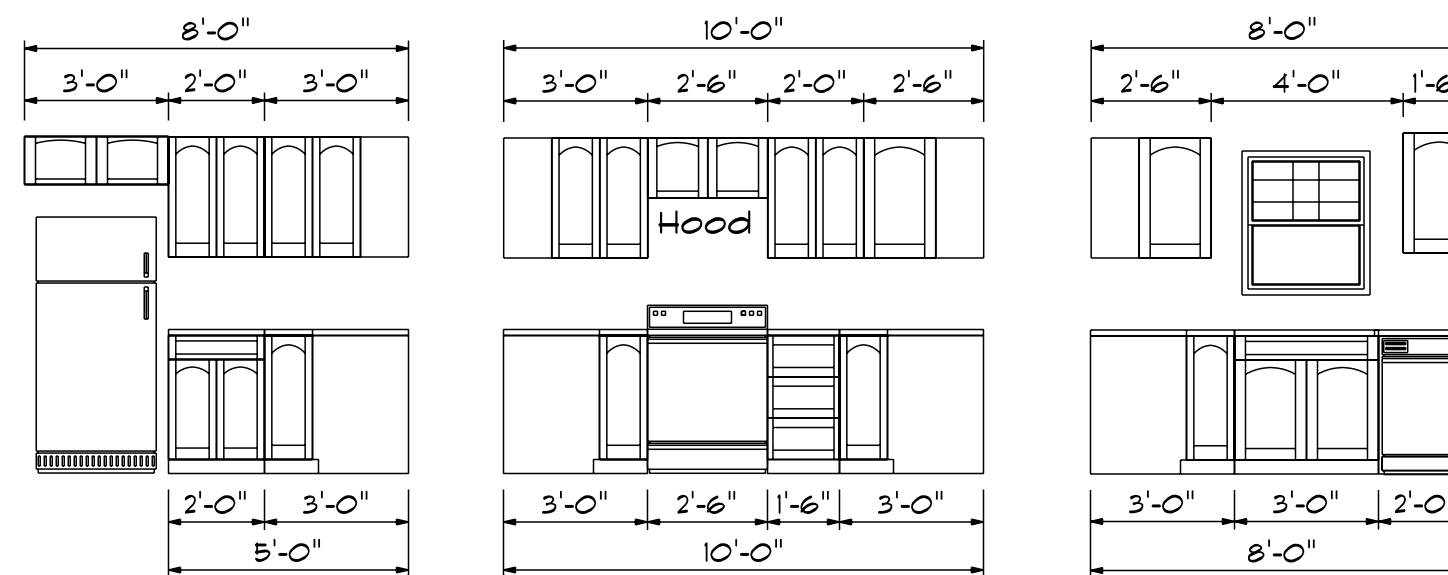
SCALE 1/4" = 1'0"

DRAWN BY  
APPROVED

DW-2032



### Kitchen Cabinets



### Areas

#### Attic Ventilation

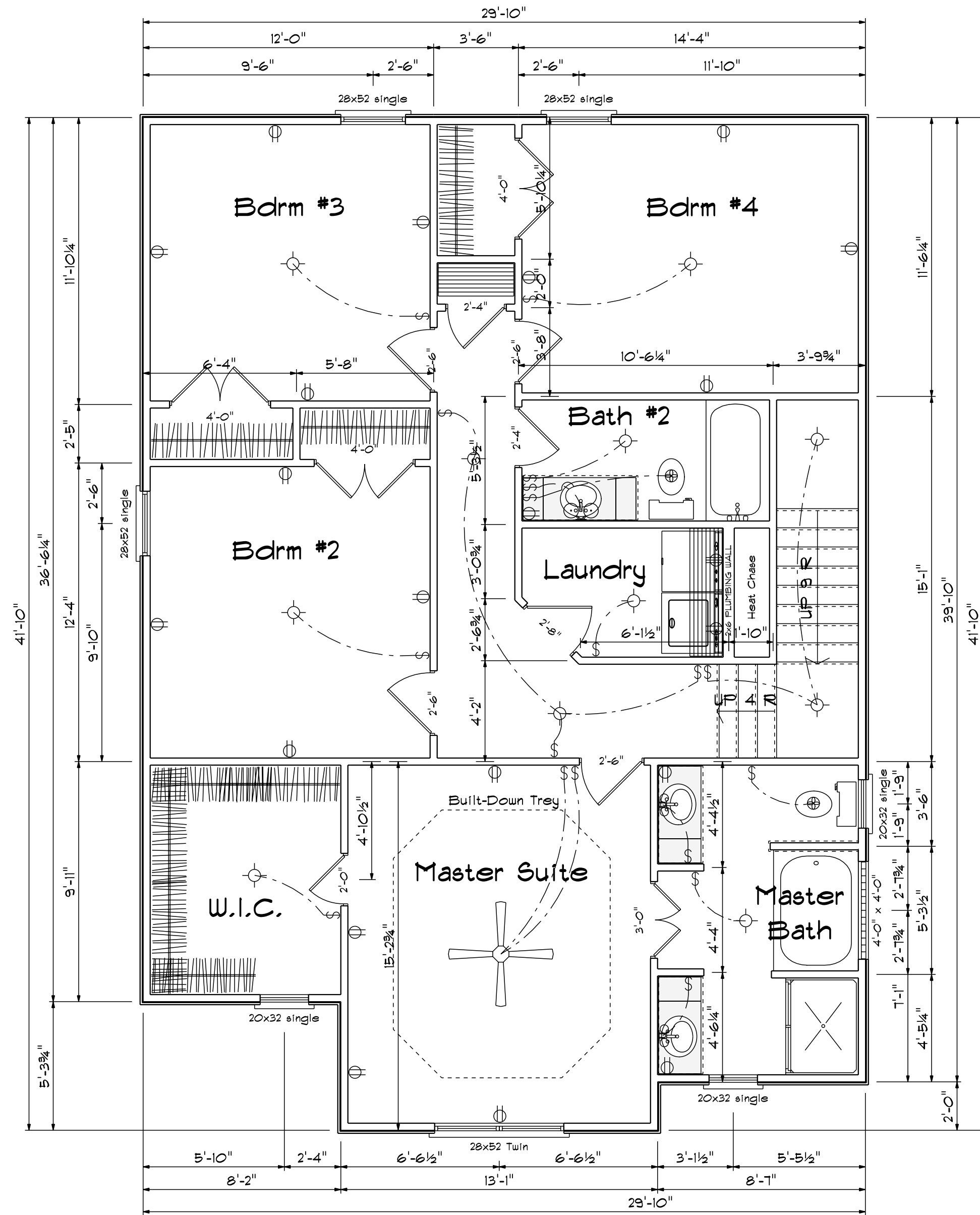
1251 Sq.Ft. Attic Area Requires  
8.38 Sq.Ft. Ventilation. Builder  
To Provide Soffit, Rids And/OR  
Gable Vents Adequate To Meet  
Code Requirements.

First Floor Sq.Ft.	893
Second Floor Sq.Ft.	1139
=====	
Total Heated	2032
Garage	434
Front Covered Porch	34
Rear Covered Porch	144

FIRST FLOOR OPENING SCHEDULE			
PRODUCT CODE	SIZE	HINGE	COUNT
3-0 Exterior Door Unit	3'-0"	L	1
2-8 Double French Center	5'-4"	NL	1
192X84 - Garage Door	16'-0"	U	1
2-8 Exterior Door unit	2'-8"	R	1
2-0 Door Unit	2'-0"	L	1
2-4 Door Unit	2'-4"	L	1
2-6 Door Unit	2'-6"	L	1
20 Single Pocket Door	2'-0"	N	1
2-4x5-2 single	2'-4" x 5'-2"	N	2
2-4x5-2 twin	4'-8" x 5'-2"	NA	1
2-8X3-2 single	2'-8" x 3'-2"	N	1
24X36 OVAL Window	2'-0" x 3'-0"	N	1

### First Floor Plan

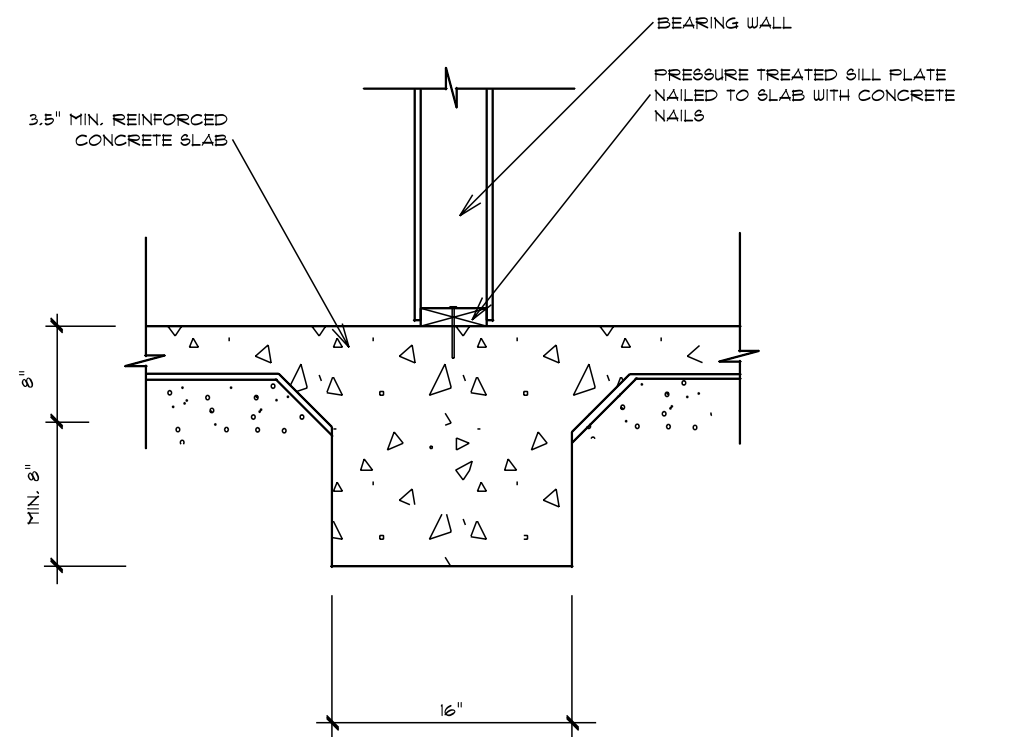
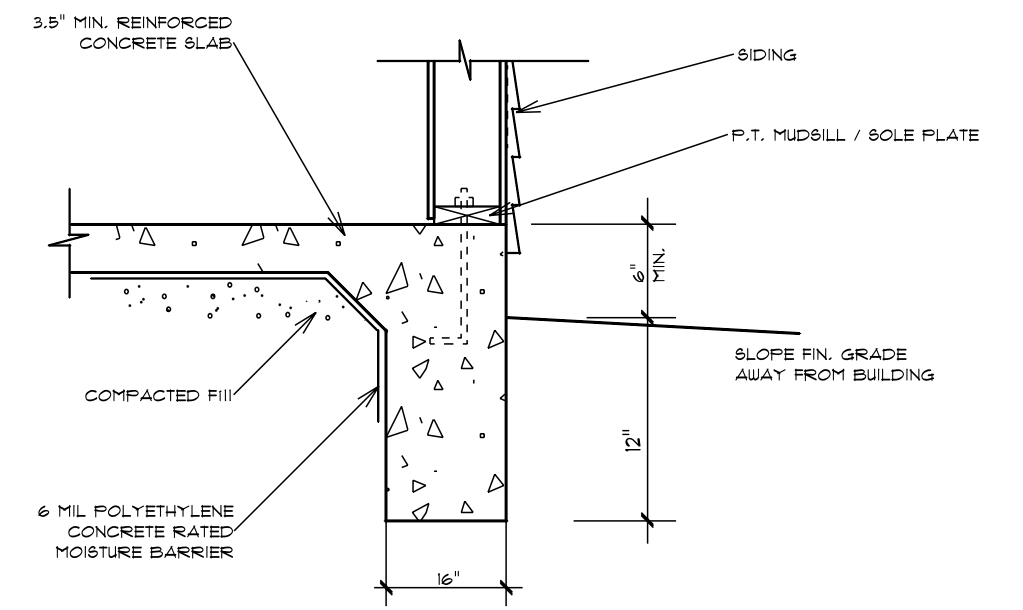
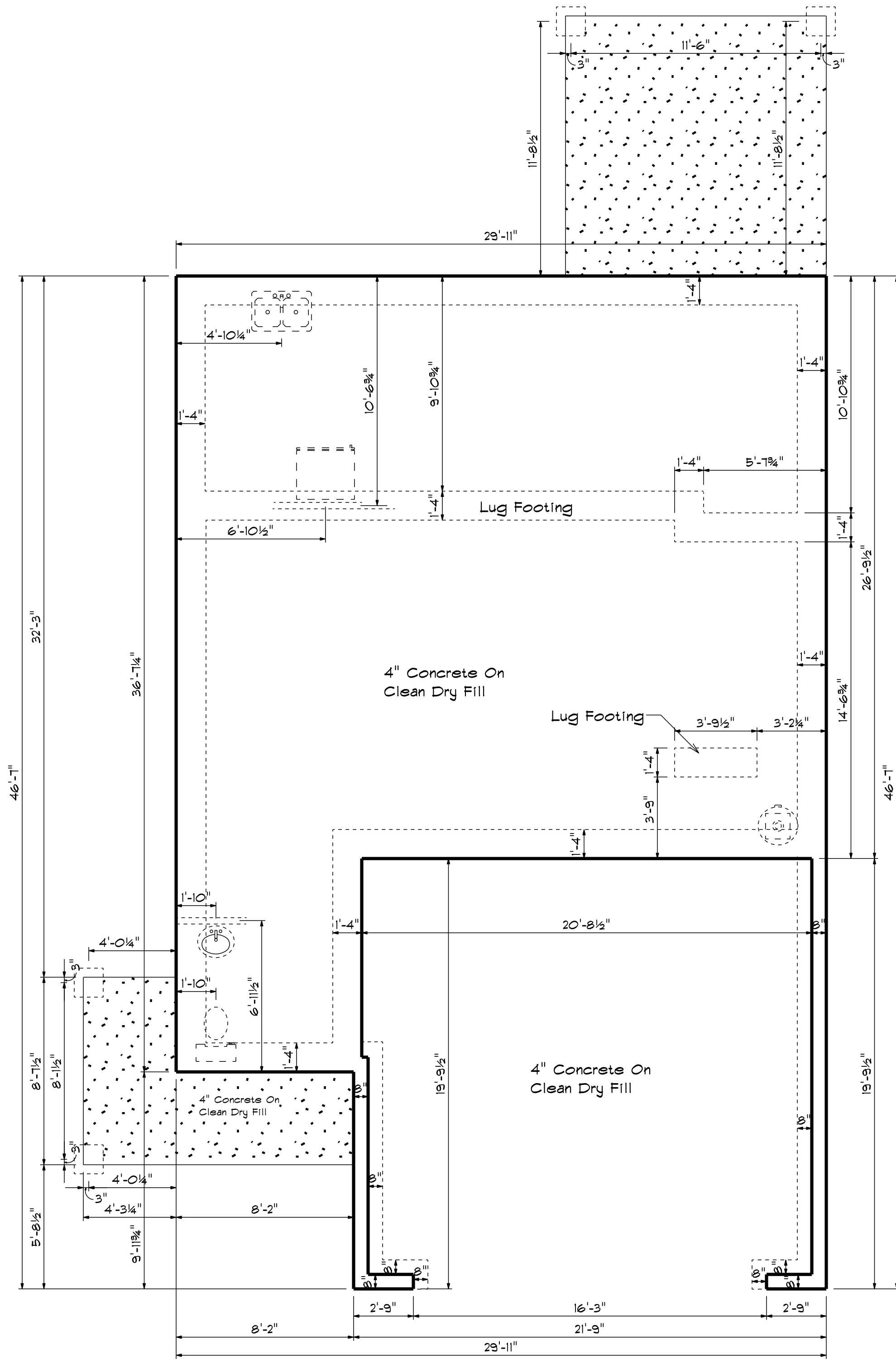
Scale: 1/4" = 1'-0"



## Second Floor Plan

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

SECOND FLOOR OPENING SCHEDULE			
PRODUCT CODE	SIZE	HINGE	COUNT
2-0 Door Unit	2'-0"	R	1
2-4 Door Unit	2'-4"	L	2
2-6 Door Unit	2'-6"	L	3
2-6 Door Unit	2'-6"	R	1
2-8 Door Unit	2'-8"	L	1
3-0 Double Hung Door Unit	3'-0"	LR	1
4-0 Double Hung Door Unit	4'-0"	LR	3
2-0x3-2 single	2'-0" x 3'-2"	N	3
2-8x5-2 single	2'-8" x 5'-2"	N	3
28x52 Twin	5'-4" x 5'-2"	NA	1
4X4 GLASS BLOCK	4'-0" x 4'-0"	N	1



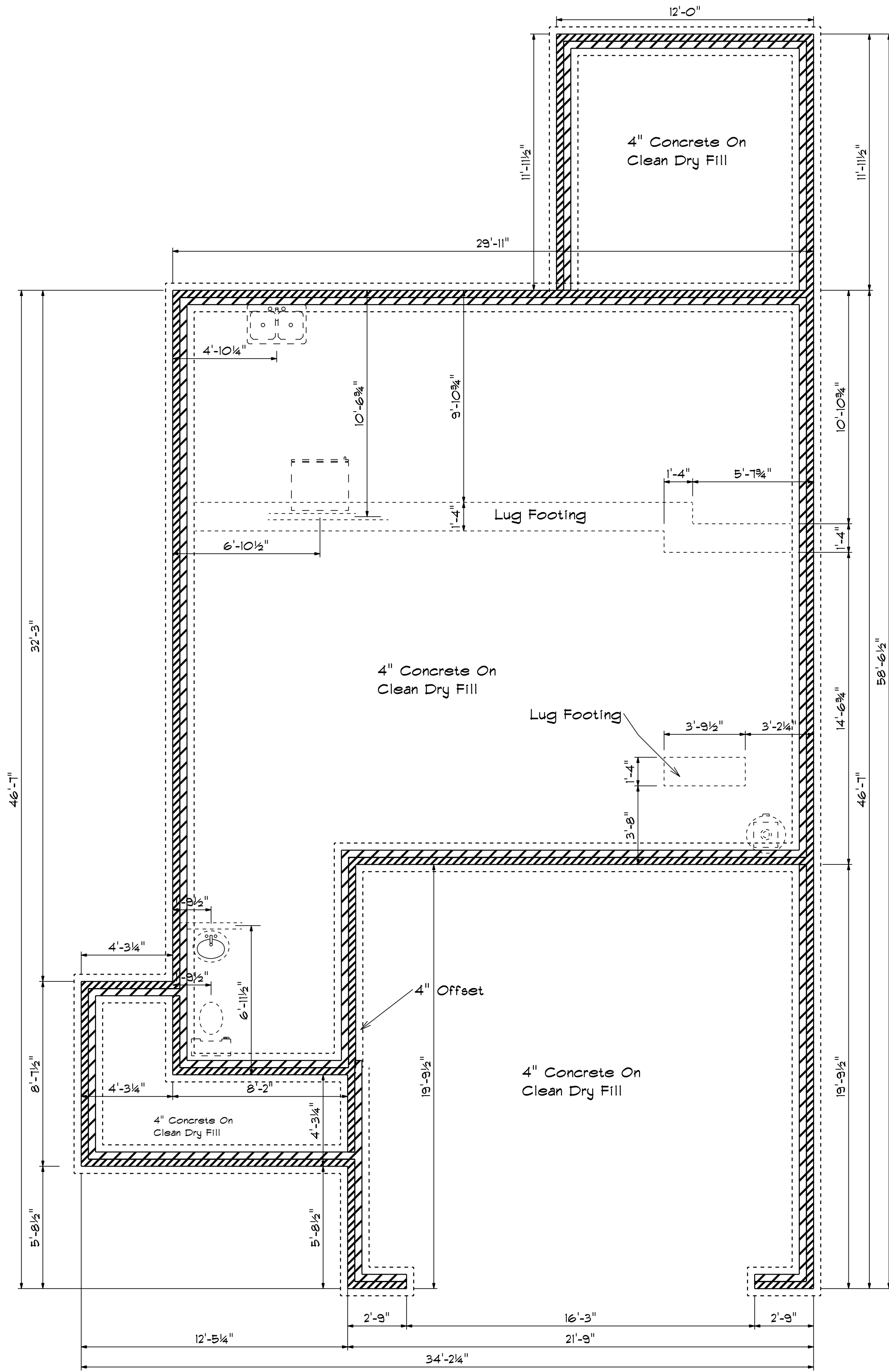
Foundation Plan  
Scale: 1/4" = 1'-0"

Bass Designs  
2121 Chimney Pt.  
Linden N.C. 28356  
910-864-1253

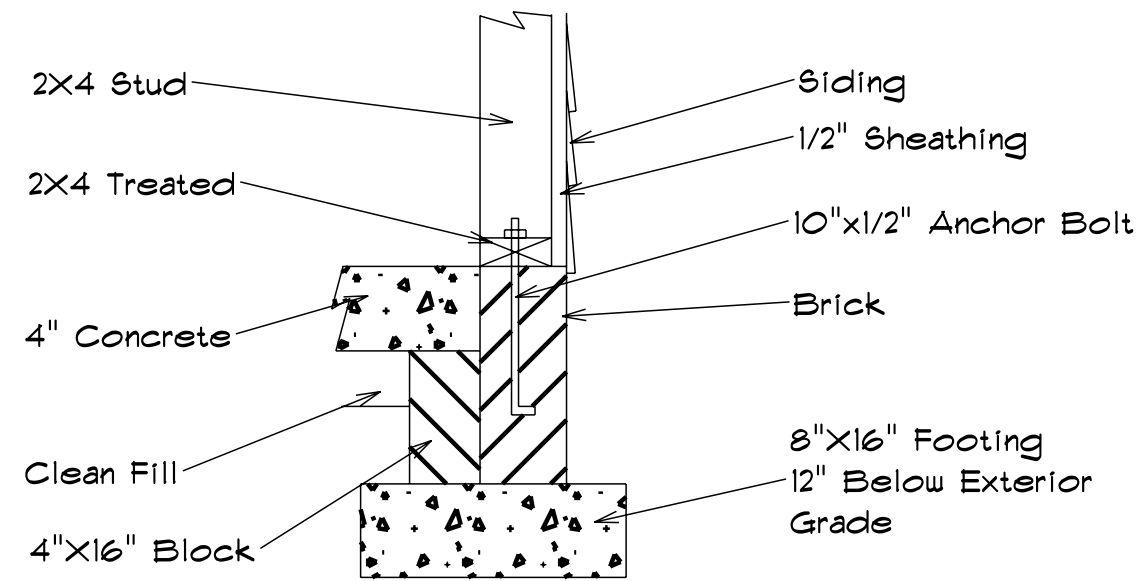
DATE Friday, July 12, 2019  
REVISED  
DRAWING#

SCALE 1/4" = 1'-0"  
DRAWN BY  
APPROVED

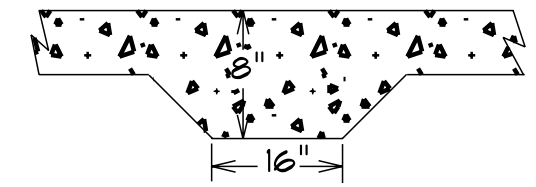
DW-2032



### Foundation Detail Siding



### Lug Footing Detail



### Foundation Plan

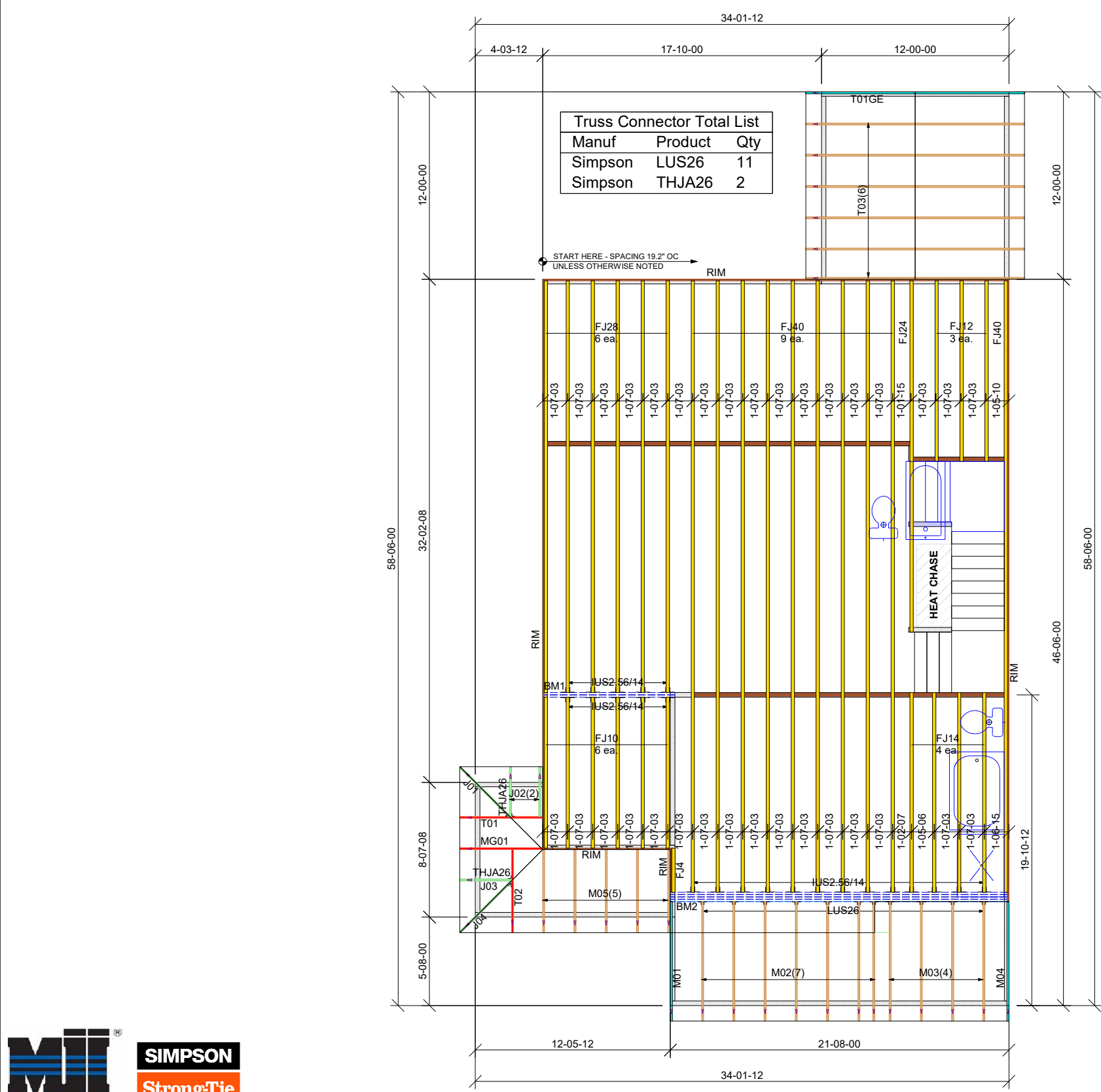
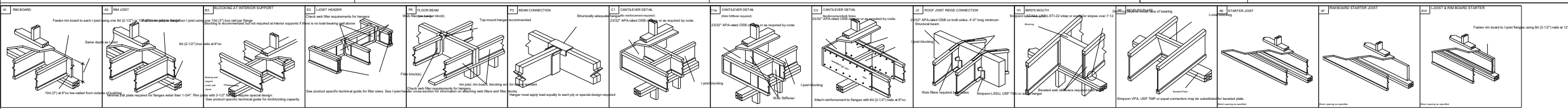
Scale: 1/4" = 1'-0"

- All bracing, blocking, beams, purlins @ 2'0" o.c., ledger, etc. provided by others.
- Roof truss to roof truss connections provided by Riverside Roof Truss.
- Truss to building connections provided by others.

**Refer to Sealed drawings for connection detail of multiple ply trusses.**

**NOT ALL TRUSSES ARE SYMMETRICAL AND MAY NOT PERFORM CORRECTLY IF INSTALLED BACKWARDS. PLEASE REFER TO SEALS WHILE SETTING TRUSSES TO ENSURE TRUSSES ARE ORIENTED CORRECTLY**

Revision: \_\_\_\_\_



PlotID	Length	Product	Plies	Net Qty
FJ40	40-00-00	14" NI-40x	1	10
FJ28	28-00-00	14" NI-40x	1	6
FJ24	24-00-00	14" NI-40x	1	1
FJ14	14-00-00	14" NI-40x	1	4
FJ12	12-00-00	14" NI-40x	1	3
FJ10	10-00-00	14" NI-40x	1	6
FJ4	4-00-00	14" NI-40x	1	1
BM2	22-00-00	1 3/4" x 14" (2.0E 3100) LVL	4	4
BM1	10-00-00	1 3/4" x 14" (2.0E 3100) LVL	2	2
RIM	12-00-00	1 1/8" x 14" APA Rim Board	1	10
BLOCKING	43-00-00	14" NI-40x	1	1

Qty	Manuf	Product
10	Simpson	IUS2.56/14
13	Simpson	IUS2.56/14

**THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.** These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, columns, and sufficient blocking in floor cavity under point loads is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

**SHOP DRAWING APPROVAL**  
THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**Hanger Conversion Chart**

Client:	<b>84 LUMBER FAYETTEVILLE NC # 2307</b>
Job Name:	<b>VULCAN-DW-2032 - EW FLOOR OPTION</b>
Model:	
Lot #:	
Order #:	<b>22-0376-C</b>
Designer:	<b>D M</b>
Date:	<b>01/21/2022</b>

**USP**     **Simpson**

JUS26	LUS26
THD26	HUS26
THD26-2	HHUS26-2
HJC26	THJA26
MSH422	THA422

**733 RIVER PARK DRIVE  
DANVILLE, VA 24540  
(434) 793-0217  
FAX: (434) 799-8767**

**RIVERSIDE ROOF TRUSS, LLC**

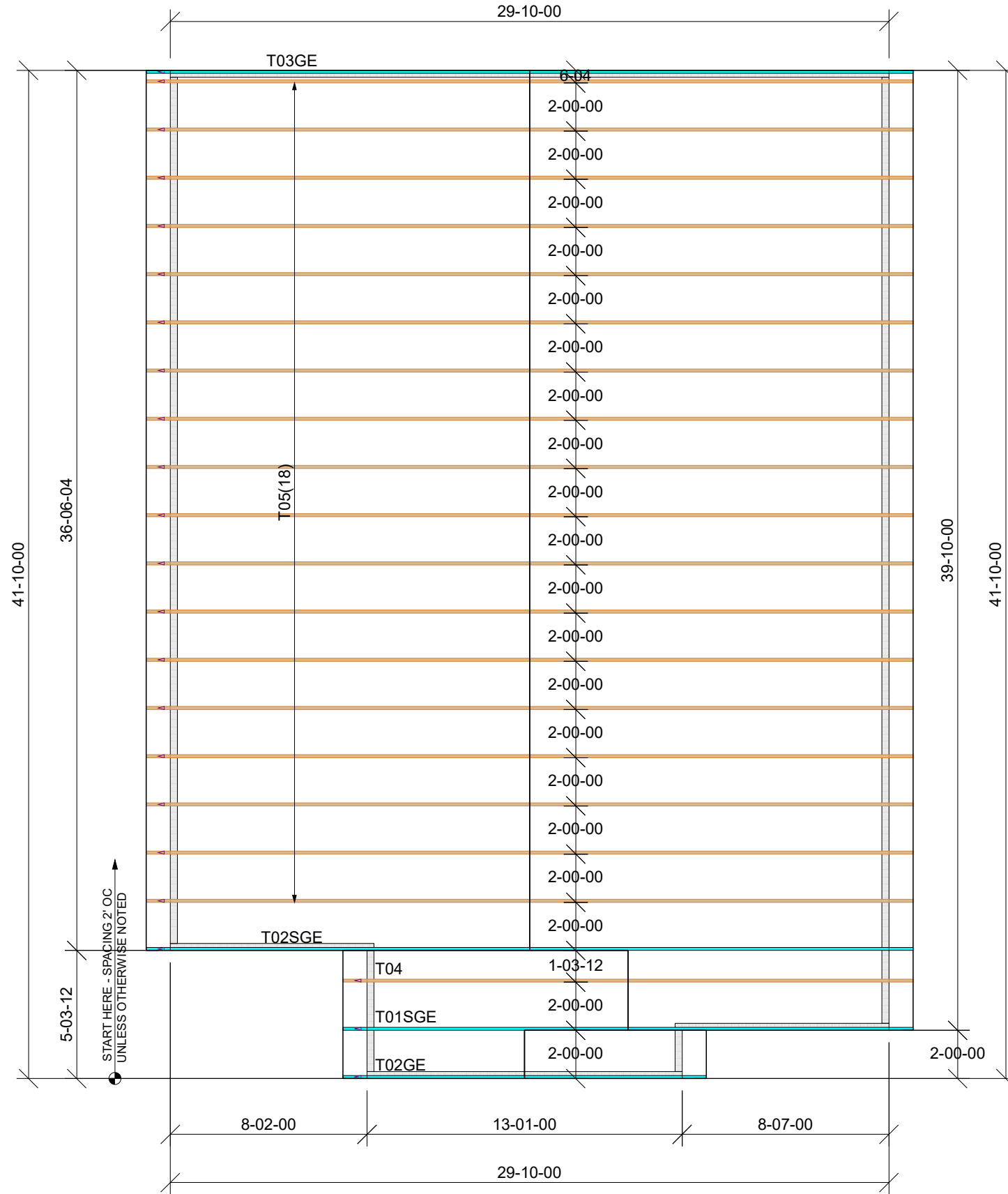
Roof Surface Area: **1845 ft<sup>2</sup> Sq. Ft.**  
Floor Surface Area: **1161 ft<sup>2</sup> Sq. Ft.**



- All bracing, blocking, beams, purlins @ 2'0" o.c., ledger, etc. provided by others.
- Roof truss to roof truss connections provided by Riverside Roof Truss.
- Truss to building connections provided by others.

Refer to Sealed drawings for connection detail of multiple ply trusses.

NOT ALL TRUSSES ARE SYMMETRICAL AND MAY NOT PERFORM CORRECTLY IF INSTALLED BACKWARDS. PLEASE REFER TO SEALS WHILE SETTING TRUSSES TO ENSURE TRUSSES ARE ORIENTED CORRECTLY



= THIS SYMBOL INDICATES THE LEFT END OF TRUSS - REFER TO SEALED TRUSS DRAWINGS TO AVOID SETTING TRUSSES BACKWARDS!

**THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.** These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, columns, and sufficient blocking in floor cavity under point loads is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

**SHOP DRAWING APPROVAL**  
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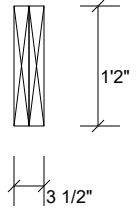
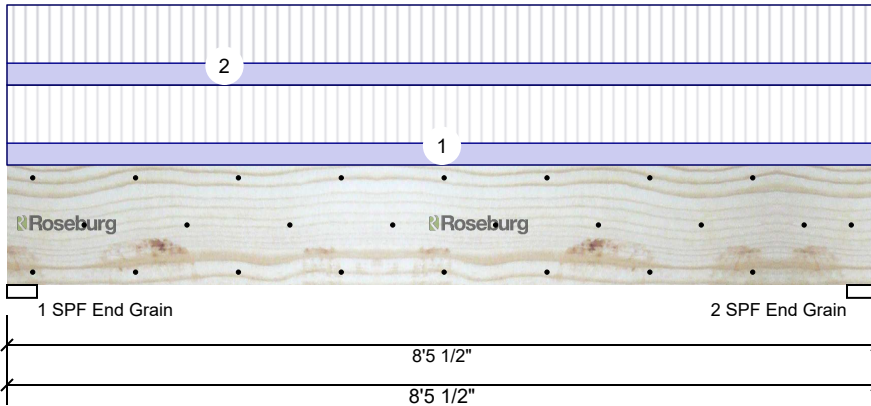
REVIEWED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

<b>Hanger Conversion Chart</b>		Client: <b>84 LUMBER FAYETTEVILLE NC # 2307</b>
<b>USP</b>	<b>Simpson</b>	Job Name: <b>VULCAN-DW - 2032 ROOF</b>
JUS26	LUS26	Model:
THD26	HUS26	Lot #:
THD26-2	HHUS26-2	Order #:
HJC26	THJA26	Subdivision:
MSH422	THA422	Sales Rep: <b>C SMILEY</b>
<b>733 RIVER PARK DRIVE DANVILLE, VA 24540 (434) 793-0217 FAX: (434) 799-8767</b>		Designer: <b>D M</b> Date: <b>1/20/2022</b>
		Roof Surface Area: <b>1845 ft²</b> Sq. Ft. Floor Surface Area: <b>1161 ft²</b> Sq. Ft.



**BM1 2.0E Rigidlam LVL 1.750" X 14.000" 2-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

**Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2199	879	0	0	0
2	Vertical	2199	879	0	0	0

**Bearings**

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	34%	879 / 2199	3079	L	D+L
2 - SPF End Grain	3.500"	Vert	34%	879 / 2199	3079	L	D+L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5823 ft-lb	4'2 3/4"	28972 ft-lb	0.201 (20%)	D+L	L
Unbraced	5823 ft-lb	4'2 3/4"	12871 ft-lb	0.452 (45%)	D+L	L
Shear	2866 lb	1'5 1/2"	9473 lb	0.303 (30%)	D+L	L
LL Defl inch	0.030 (L/3206)	4'2 13/16"	0.200 (L/480)	0.150 (15%)	L	L
TL Defl inch	0.042 (L/2291)	4'2 13/16"	0.400 (L/240)	0.105 (10%)	D+L	L

**Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		8-0-0	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR TRIB
2	Uniform		5-0-0	Near Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR TRIB
	Self Weight				13 PLF					

**Notes**

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

**Lumber**

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

chemicals

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

**Manufacturer Info**

Roseburg Forest Products  
4500 Riddle By-pass Rd  
Riddle, OR 97469  
(541) 784-4005  
www.roseburg.com  
APA: PR-L289, PR-L270, ICC-ES:  
ESR-1210

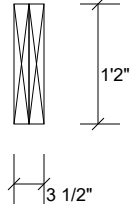
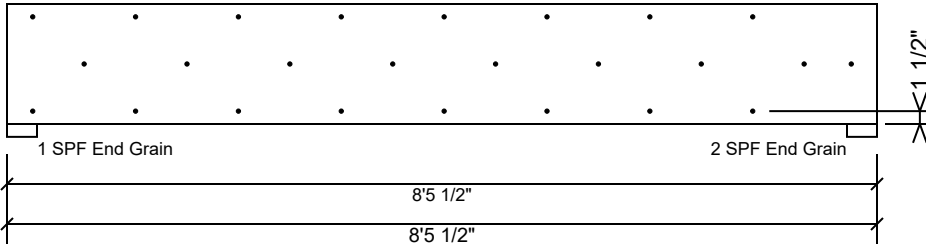
Riverside Roof Truss  
733 River Park Drive, VA  
USA  
24540  
(434)793-0217





**BM1 2.0E Rigidlam LVL 1.750" X 14.000" 2-Ply - PASSED**

Level: Level



**Multi-Ply Analysis**

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	81.0 %
Load	220.0 PLF
Yield Limit per Foot	271.6 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

**Notes**

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

**Lumber**

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

**Manufacturer Info**

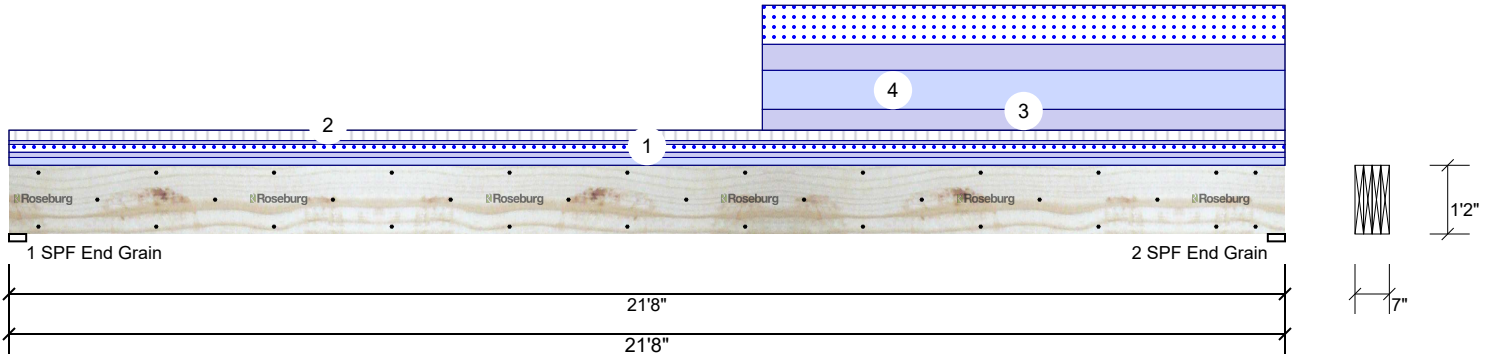
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APA: PR-L289, PR-L270, ICC-ES:  
ESR-1210

Riverside Roof Truss  
733 River Park Drive, VA  
USA  
24540  
(434)793-0217



**BM2 2.0E Rigidlam LVL 1.750" X 14.000" 4-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder	Application:	Floor
Plies:	4	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

**Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2817	2412	1402	0	1402
2	Vertical	2817	3375	2204	0	2204

**Bearings**

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	30%	2412 / 3164	5576	L	D+0.75(L+S)
2 - SPF End Grain	3.500"	Vert	39%	3375 / 3766	7141	L	D+0.75(L+S)

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	28965 ft-lb	11'6 3/8"	60263 ft-lb	0.481 (48%)	D+L	L
Unbraced	32013 ft-lb	11'11 1/4"	32183 ft-lb	0.995 (99%)	D+0.75(L+S)	L
Shear	5797 lb	20'2 1/2"	18947 lb	0.306 (31%)	D+L	L
LL Defl inch	0.446 (L/571)	10'11 3/4"	0.707 (L/360)	0.631 (63%)	0.75(L+C)	Uniform
TL Defl inch	0.812 (L/313)	11' 7/16"	1.060 (L/240)	0.766 (77%)	D+0.75(L+C)	Uniform

**Design Notes**

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- Fasten all plies using 3 rows of SDW22634 at 24" o.c. Maximum end distance not to exceed 12".
- Refer to last page of calculations for fasteners required for specified loads.
- Simpson fasteners applied from a single side of the member use tip values where published.
- Girders are designed to be supported on the bottom edge only.
- Top loads must be supported equally by all plies.
- Top must be laterally braced at a maximum of 6'4 9/16" o.c.
- Bottom must be laterally braced at end bearings.
- Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		3-6-0	Near Face	20 PSF	0 PSF	30 PSF	0 PSF	30 PSF	ROOF TRIB
2	Uniform		6-6-0	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR TRIB
3	Part. Uniform	12-9-8 to 21-8-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL ABOVE
4	Part. Uniform	12-9-8 to 21-8-0		Top	100 PLF	0 PLF	150 PLF	0 PLF	150 PLF	GABLE ABOVE
	Self Weight				26 PLF					

**Notes**

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

**Lumber**

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive

**Handling & Installation**

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

**Manufacturer Info**

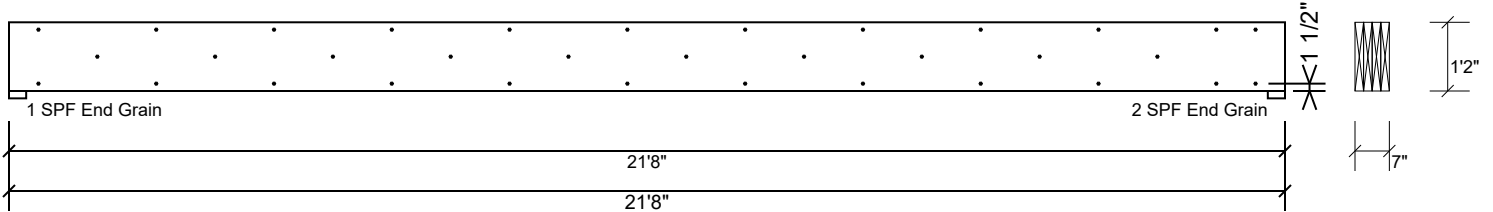
Roseburg Forest Products  
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APA: PR-L289, PR-L270, ICC-ES:  
ESR-1210

Riverside Roof Truss  
733 River Park Drive, VA  
USA  
24540  
(434)793-0217



**BM2 2.0E Rigidlam LVL 1.750" X 14.000" 4-Ply - PASSED**

Level: Level



**Multi-Ply Analysis**

Fasten all plies using 3 rows of SDW22634 at 24" o.c.. Maximum end distance not to exceed 12".

Capacity	70.1 %
Load	268.1 PLF
Yield Limit per Foot	382.5 PLF
Yield Limit per Fastener	255.0 lb.
Yield Mode	Lookup
Edge Distance	1 1/2"
Min. End Distance	6"
Load Combination	D+L
Duration Factor	1.00

**Notes**

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

**Lumber**

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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**Manufacturer Info**

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