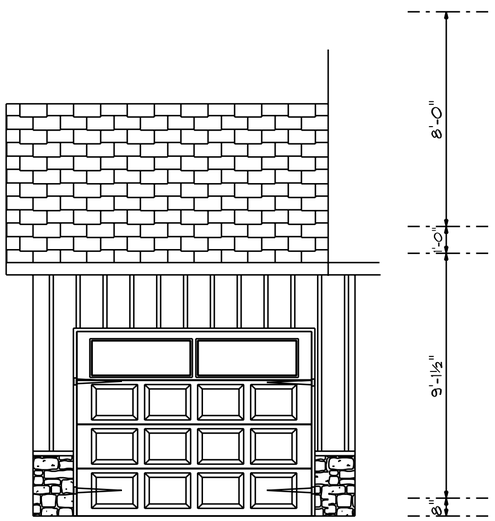
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

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

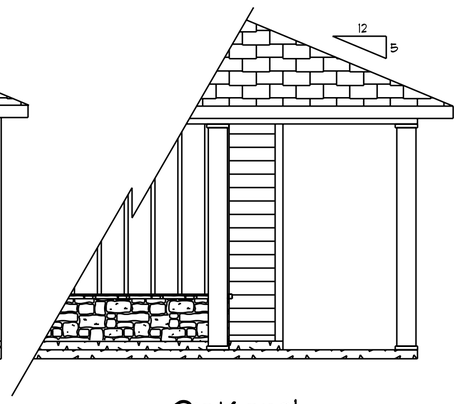
12/21/2020

Harnett COUNTY NORTH CAROLINA

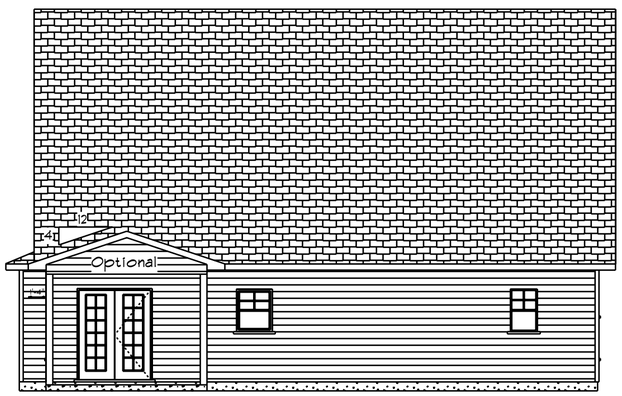


Optional
3rd Garage

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

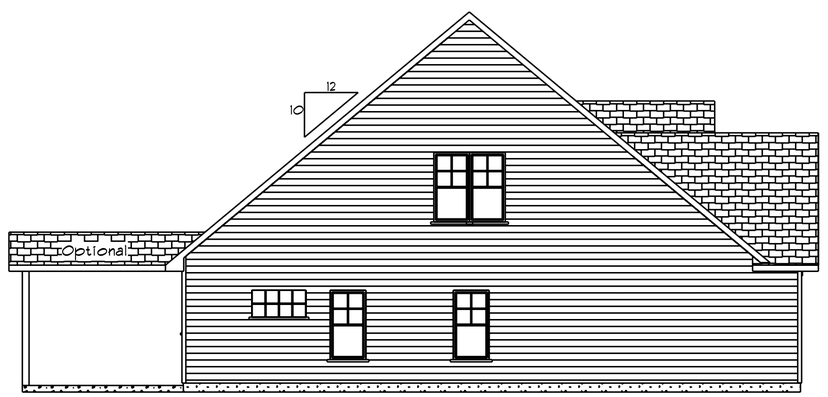


Optional
Wrap-Around
Porch



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

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



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

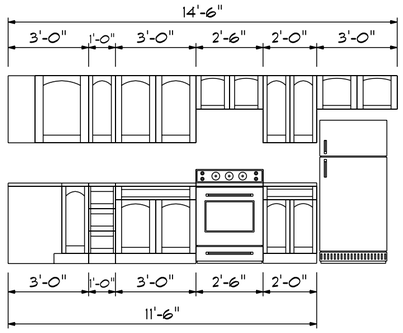
DATE: Tuesday, May 15, 2018
REVISED
DRAWING#

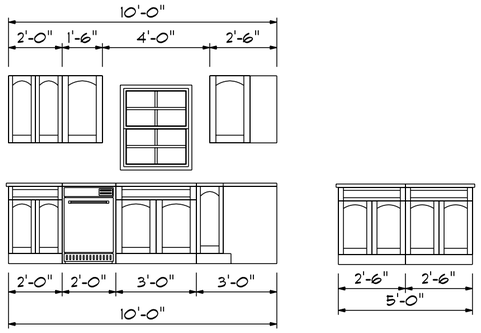
Elev. C

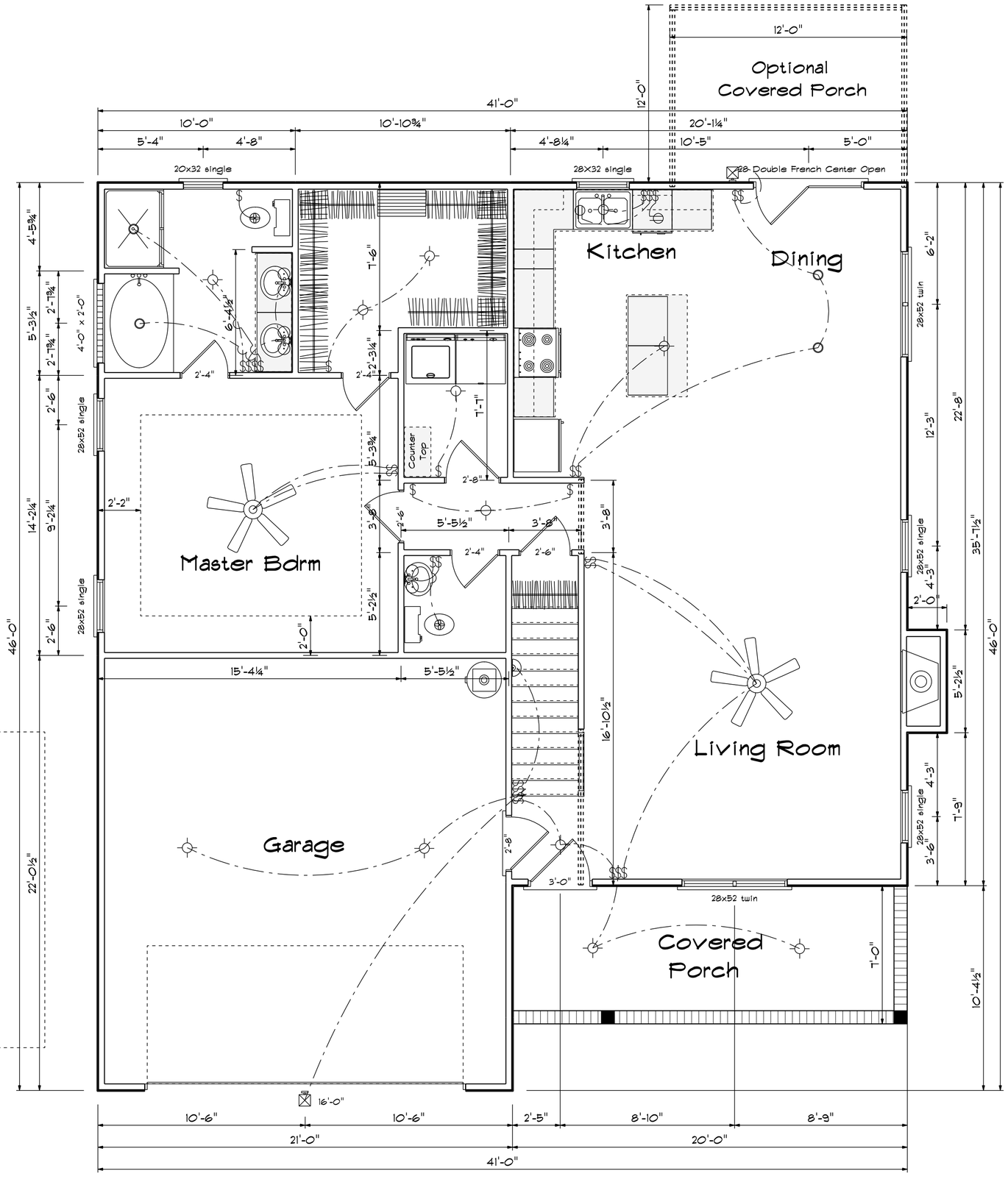
SCALE: 1/4"
DRAWN BY
APPROVED

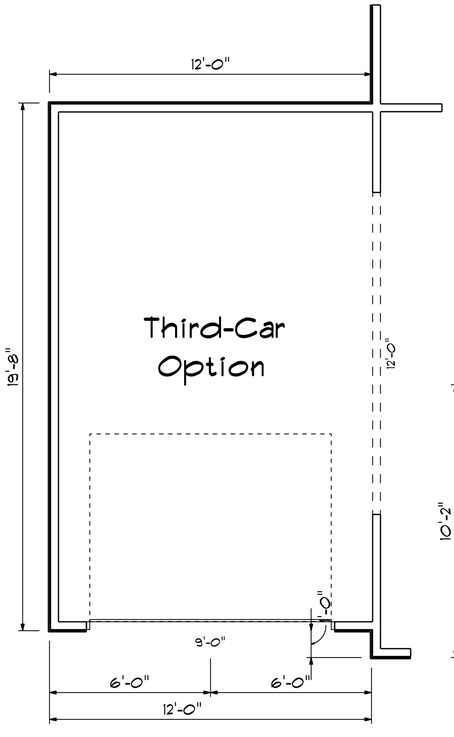
The Woodlake

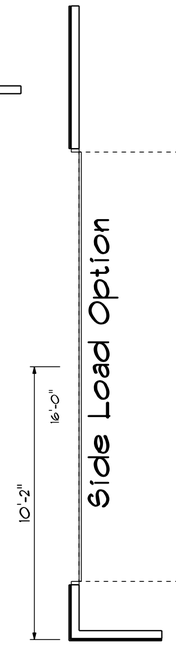
Kitchen Cabinets

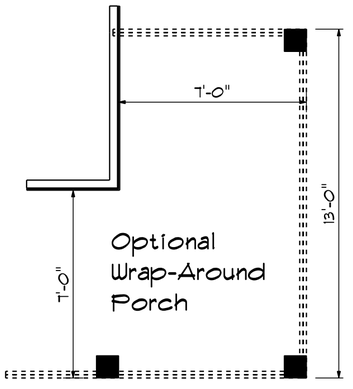












Areas

First Floor	1228
Second Floor	530
Total Heated	1758
Garage	458
Front Porch	139

First Floor Plan

DATE: Tuesday, May 15, 2018
REVISED
DRAWING#
SCALE: 1/4"
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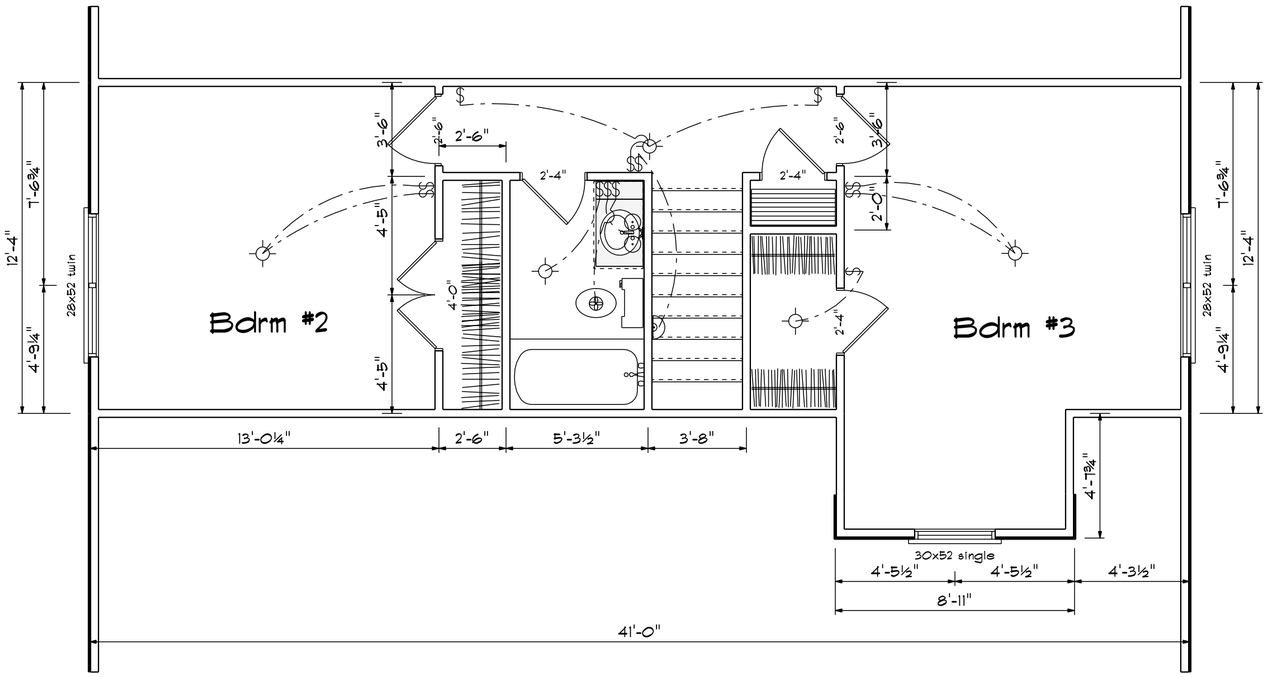
APPROVED

The Woodlake



Second Floor Plan

First Floor Openings

PRODUCT CODE	SIZE	HINGE DIRECTION	COUNT	R.O. WIDTH
36X80 COLONIAL A 1	3'-0"	R	1	3'-3"
28 Double French Center Open	5'-4"	NL	1	5'-7"
192X84 - 1 PANEL	16'-0"	U	1	16'-3"
2-4 Door Unit	2'-4"	R	3	2'-6"
2-6 Door Unit	2'-6"	R	2	2'-8"
2-8 Door Unit	2'-8"	L	2	2'-10"
20x32 single	2'-0" x 3'-2"	N	1	2'-0"
28X32 single	2'-8" x 3'-2"	N	1	2'-8"
28x52 single	2'-8" x 5'-2"	N	4	2'-8"
28x52 twin	5'-4" x 5'-2"	NN	2	5'-4"
4-0x2-0 Glass Block	4'-0" x 2'-0"	N	1	4'-0½"

Second Floor Openings

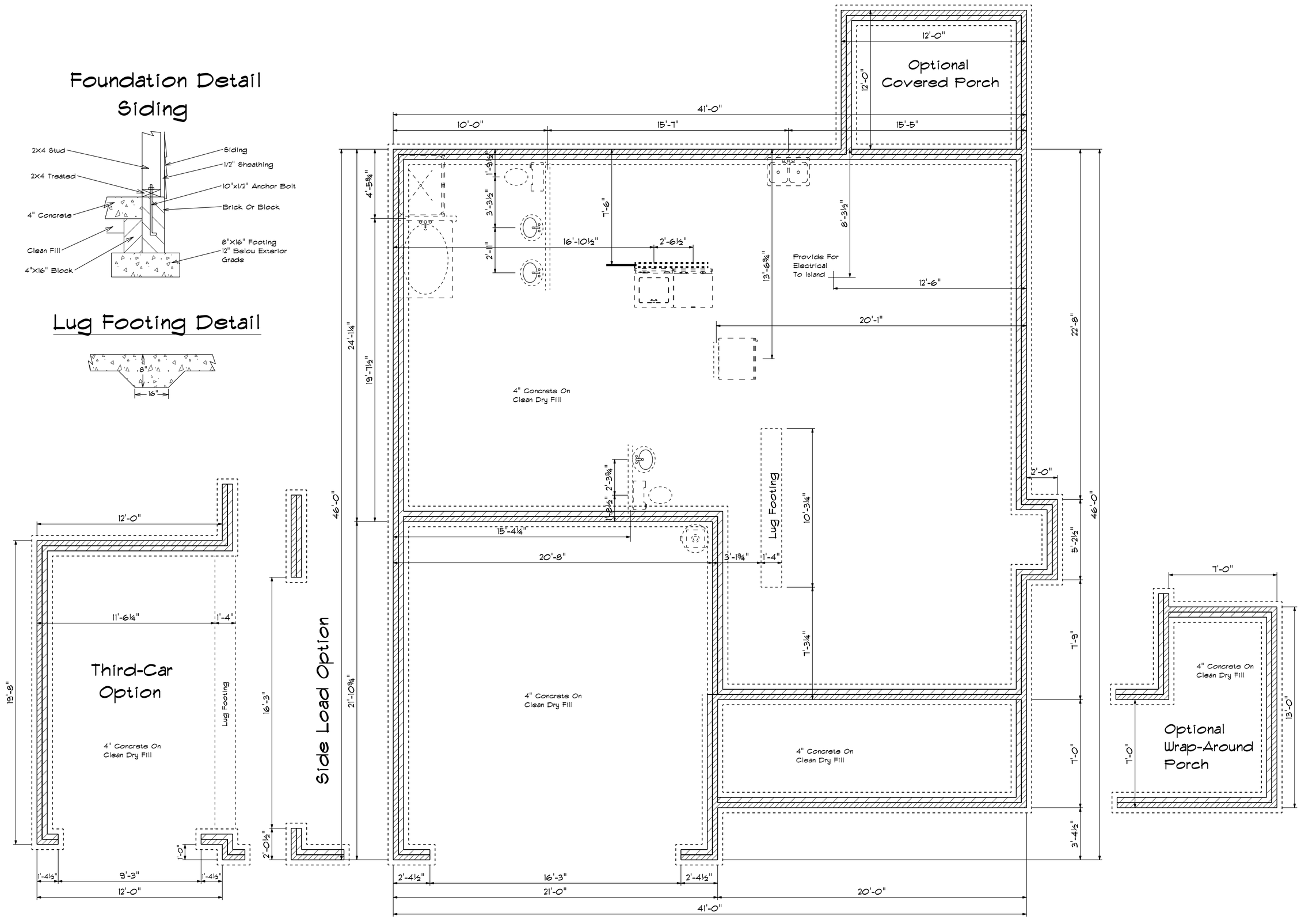
OPENING SCHEDULE			
PRODUCT CODE	SIZE	HINGE	COUNT
2-4 Door Unit	2'-4"	L	3
2-6 Door Unit	2'-6"	L	1
2-6 Door Unit	2'-6"	R	1
4-0 Doublehung Door Unit	4'-0"	LR	1
28x52 twin	5'-4" x 5'-2"	NN	1
30x46 single	3'-0" x 4'-6"	N	1

DATE: Tuesday, May 15, 2018
REVISED
DRAWING#
SCALE: 1/4"
DRAWN BY
APPROVED

The Woodlake

Foundation Detail
Siding

Lug Footing Detail



Foundation Plan

DATE: Tuesday, May 15, 2018
REVISED
DRAWING#

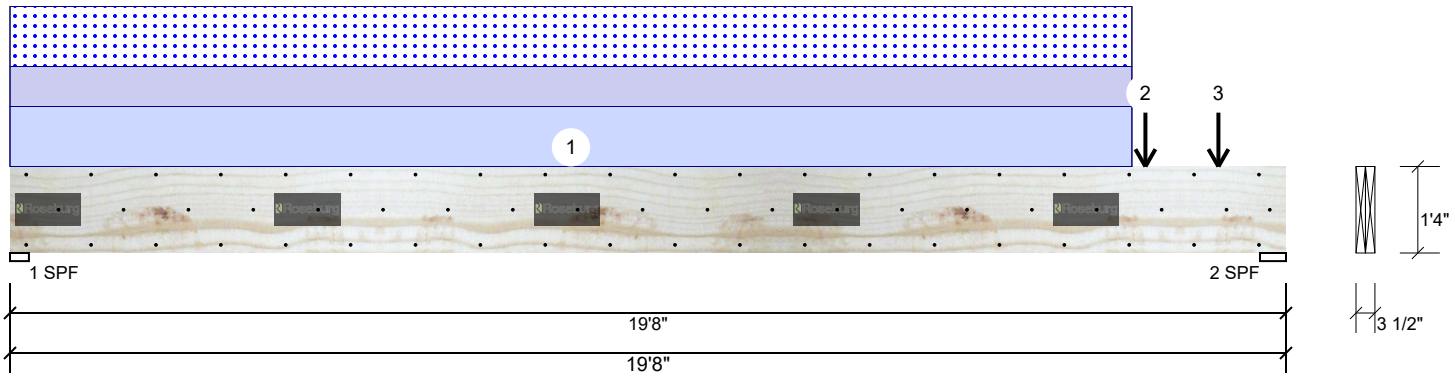
SCALE: 1/4"
DRAWN BY
APPROVED

The Woodlake

Client:		Date:	12/16/2020
Project:		Input by:	
Address:		Job Name:	20-6466-A beam calcs
		Project #:	

BM1 2.0E Rigidlam LVL 1.750" X 16.000" 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		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1313	1752	0	1752
2	0	2949	4204	0	4204

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	59%	1313 / 1752	3065	L	D+S
2 - SPF	4.813"	100%	2949 / 4204	7153	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	17047 ft-lb	11'6 15/16"	42797 ft-lb	0.398 (40%)	D+S	L
Unbraced	17047 ft-lb	11'6 15/16"	17052 ft-lb	1.000 (100%)	D+S	L
Shear	6862 lb	17'11 15/16"	12451 lb	0.551 (55%)	D+S	L
LL Defl inch	0.277 (L/826)	10'2 9/16"	0.477 (L/480)	0.580 (58%)	C	L
TL Defl inch	0.481 (L/477)	10'2 3/8"	0.955 (L/240)	0.500 (50%)	D+C	L

Design Notes

1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
2 Refer to last page of calculations for fasteners required for specified loads.
3 Girders are designed to be supported on the bottom edge only.
4 Top loads must be supported equally by all plies.
5 Top must be laterally braced at a maximum of 6'11 1/4" o.c.
6 Bottom braced at 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	Part. Uniform	0-0-0 to 17-3-8		Top	100 PLF	0 PLF	150 PLF	0 PLF	150 PLF	ATGE01
2	Point	17-6-0		Top	2016 lb	0 lb	3024 lb	0 lb	3024 lb	G01
3	Point	18-7-8		Top	226 lb	0 lb	339 lb	0 lb	339 lb	T01
	Self Weight				15 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

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

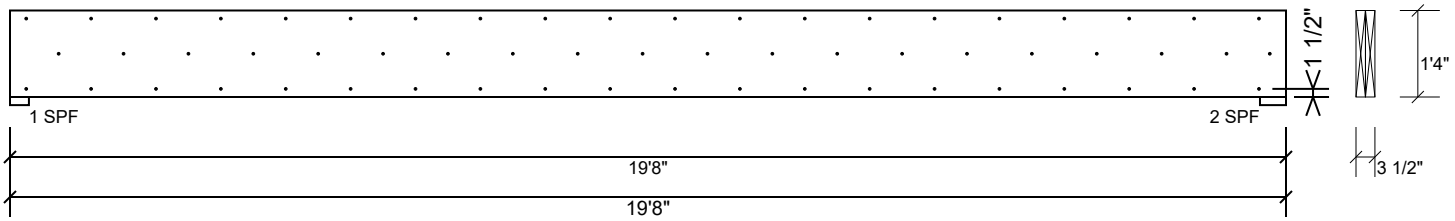
This design is valid until 11/13/2022

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

BM1 2.0E Rigidlam LVL 1.750" X 16.000" 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	0.0 %
Load	0.0 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	
Duration Factor	1.00

Notes

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Lumber

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2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

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2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
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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 11/13/2022

Manufacturer Info

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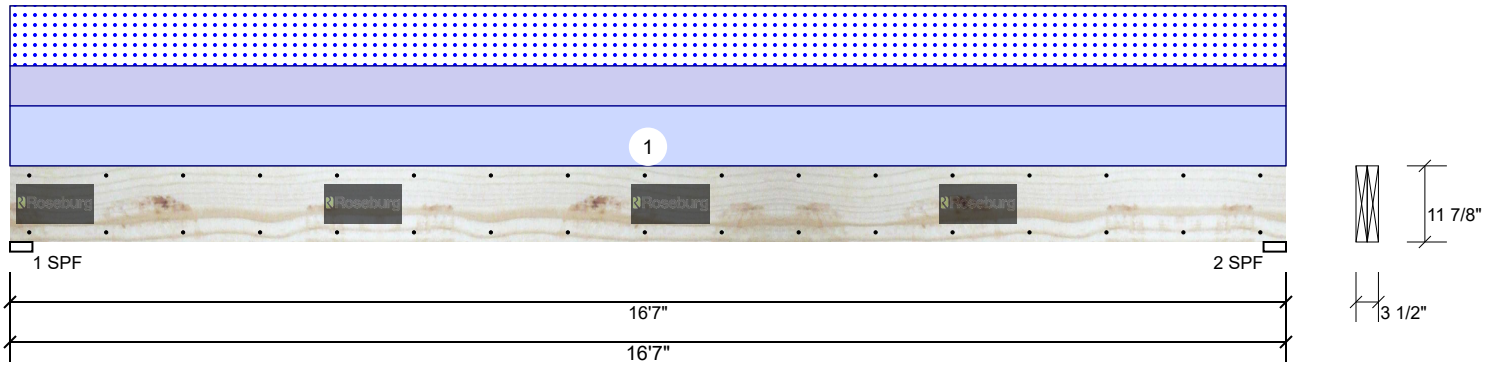
Riddle, OR 97469
(541) 784-4005
www.roseburg.com
APA: PR-L289, PR-L270, ICC-ES: ESR-1210

BM2 2.0E Rigidlam LVL 1.750" X 11.875" 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		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	920	1244	0	1244
2	0	920	1244	0	1244

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	42%	920 / 1244	2164	L	D+S
2 - SPF	3.500"	42%	920 / 1244	2164	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8482 ft-lb	8'3 1/2"	24470 ft-lb	0.347 (35%)	D+S	L
Unbraced	8482 ft-lb	8'3 1/2"	8483 ft-lb	1.000 (100%)	D+S	L
Shear	1846 lb	15'4 3/8"	9241 lb	0.200 (20%)	D+S	L
LL Defl inch	0.234 (L/828)	8'3 9/16"	0.403 (L/480)	0.580 (58%)	C	L
TL Defl inch	0.406 (L/476)	8'3 9/16"	0.806 (L/240)	0.500 (50%)	D+C	L

Design Notes

1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
2 Refer to last page of calculations for fasteners required for specified loads.
3 Girders are designed to be supported on the bottom edge only.
4 Top loads must be supported equally by all plies.
5 Top must be laterally braced at a maximum of 11'4 1/8" o.c.
6 Bottom braced at 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			Top	100 PLF	0 PLF	150 PLF	0 PLF	150 PLF	T01GE
	Self Weight				11 PLF					

Notes

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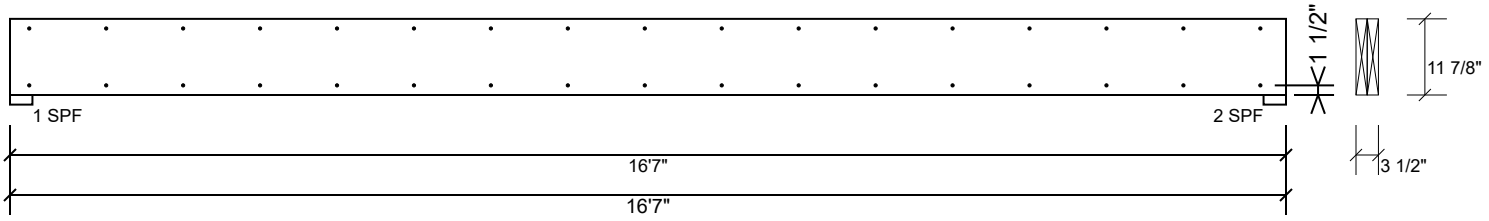
APA: PR-L289, PR-L270, ICC-ES: ESR-1210

BM2 2.0E Rigidlam LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	181.1 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
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

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2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
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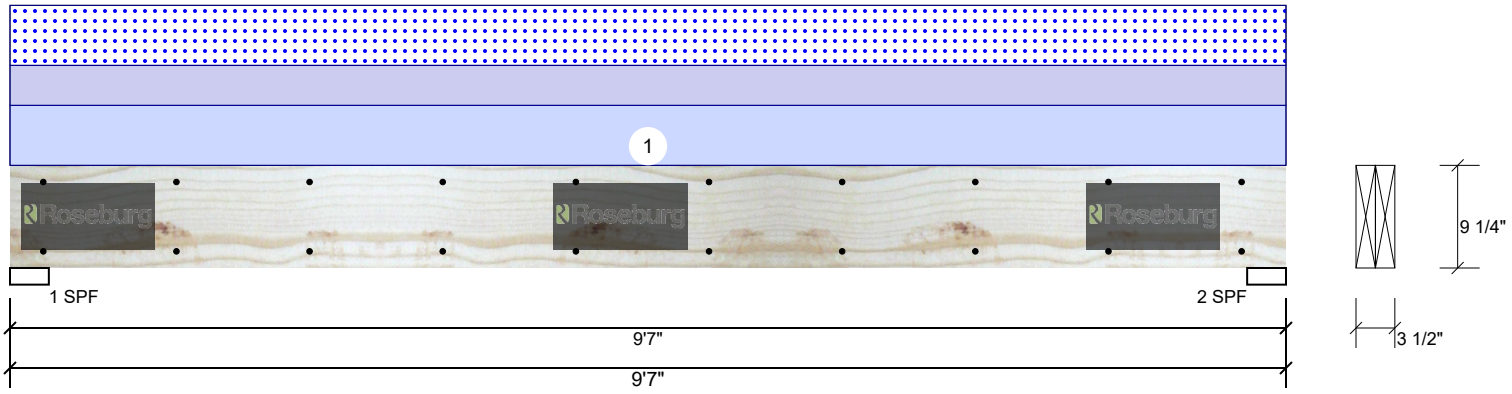
APA: PR-L289, PR-L270, ICC-ES: ESR-1210

Client:		Date:	12/16/2020
Project:		Input by:	
Address:		Job Name:	20-6466-A beam calcs
		Project #:	

BM3 2.0E Rigidlam LVL 1.750" X 9.250" 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		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1079	1557	0	1557
2	0	1079	1557	0	1557

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	51%	1079 / 1557	2636	L	D+S
2 - SPF	3.500"	51%	1079 / 1557	2636	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5727 ft-lb	4'9 1/2"	15318 ft-lb	0.374 (37%)	D+S	L
Unbraced	5727 ft-lb	4'9 1/2"	8027 ft-lb	0.713 (71%)	D+S	L
Shear	2086 lb	1'	7198 lb	0.290 (29%)	D+S	L
LL Defl inch	0.110 (L/997)	4'9 1/2"	0.228 (L/480)	0.480 (48%)	C	L
TL Defl inch	0.186 (L/589)	4'9 1/2"	0.456 (L/240)	0.410 (41%)	D+C	L

Design Notes

1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
2 Refer to last page of calculations for fasteners required for specified loads.
3 Girders are designed to be supported on the bottom edge only.
4 Top loads must be supported equally by all plies.
5 Top braced at bearings.
6 Bottom braced at 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		10-10-0	Top	20 PSF	0 PSF	30 PSF	0 PSF	30 PSF	Roof
	Self Weight				9 PLF					

Notes

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Lumber

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Handling & Installation

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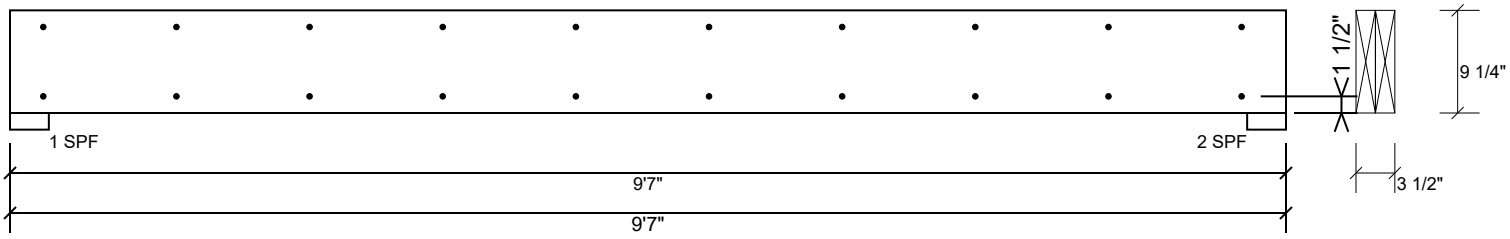
APA: PR-L289, PR-L270, ICC-ES: ESR-1210

BM3 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	181.1 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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

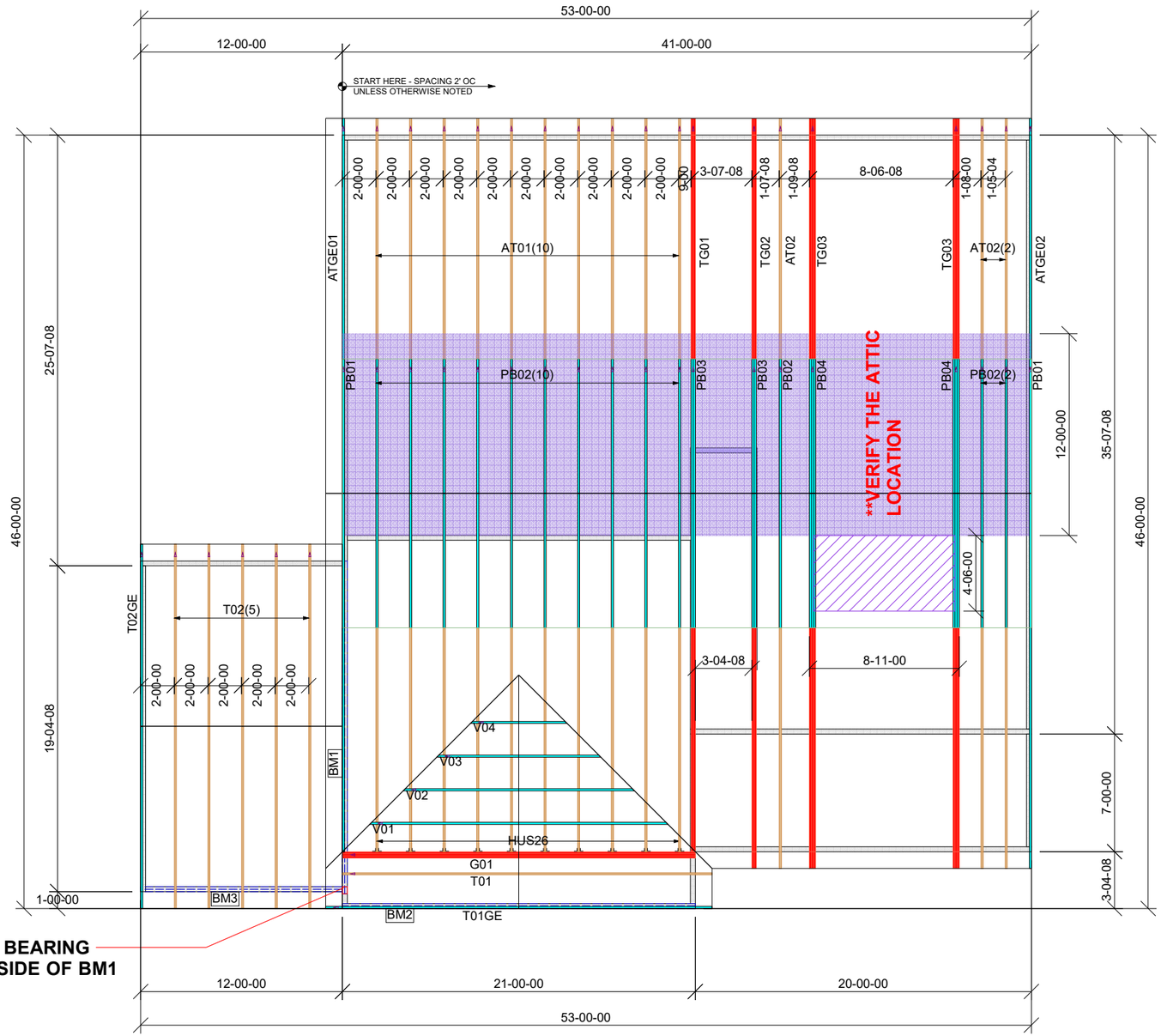
1. All bracing, blocking, beams, purlins @ 2'0" o.c., ledger, etc. provided by others.
2. Roof truss to roof truss connections provided by Riverside Roof Truss.
3. Truss to building connections provided by others.

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

Products				
PlotID	Length	Product	Plies	Net Qty
BM3	12-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	2
BM2	22-00-00	1 3/4" x 11 7/8" (2.0E 3100) LVL	2	2
BM1	20-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	10



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

SHOP DRAWING APPROVAL

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 structural integrity of the building. 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.

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

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

Client: PARKS BUILDING SUPPLY
Job Name: GARY ROBINSON-LOT 73 SOUTH
Model: CREEKWOOD LAKE MODEL ROOF
Lot #: Subdivision:
Order #: 20-6466-A
Sales Rep: C Smiley
Designer: C S
Date: 12/16/2020

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

RIVERSIDE ROOF TRUSS, LLC

Roof Surface Area: 2849 ft² Sq. Ft.
Floor Surface Area: 0 ft² Sq. Ft.

SIMPSON Strong-Tie

MiTek

0 ft²