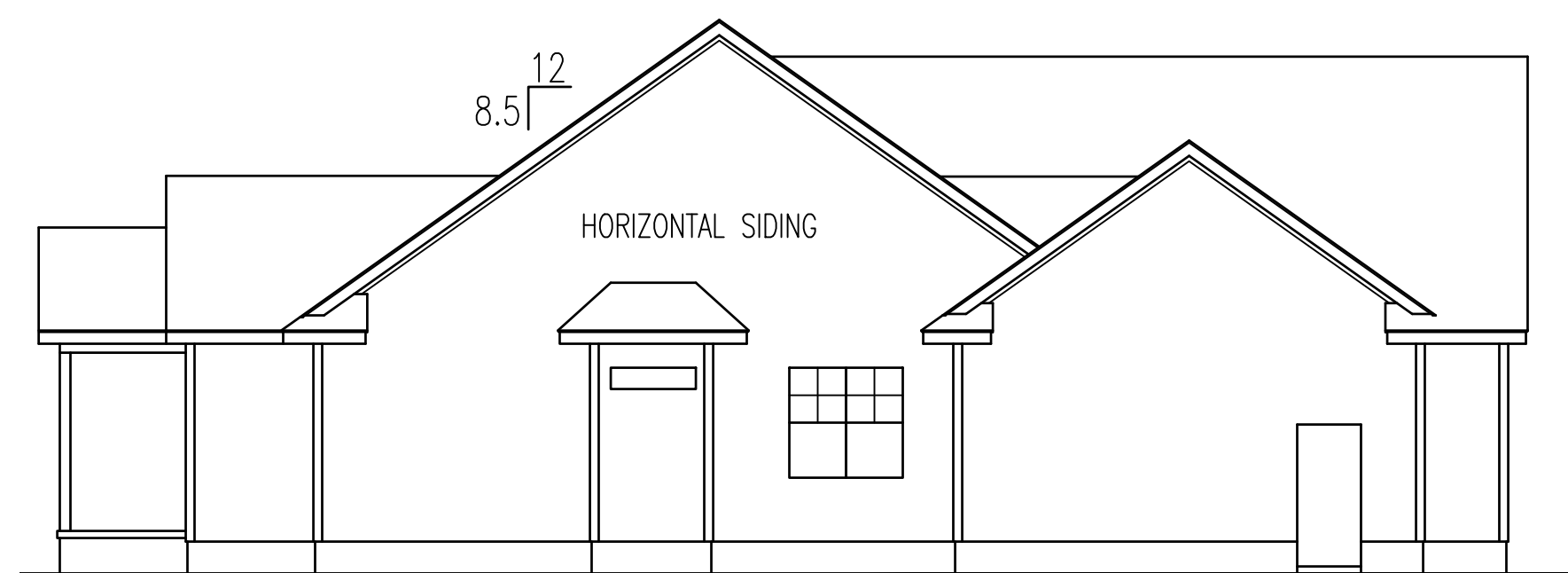
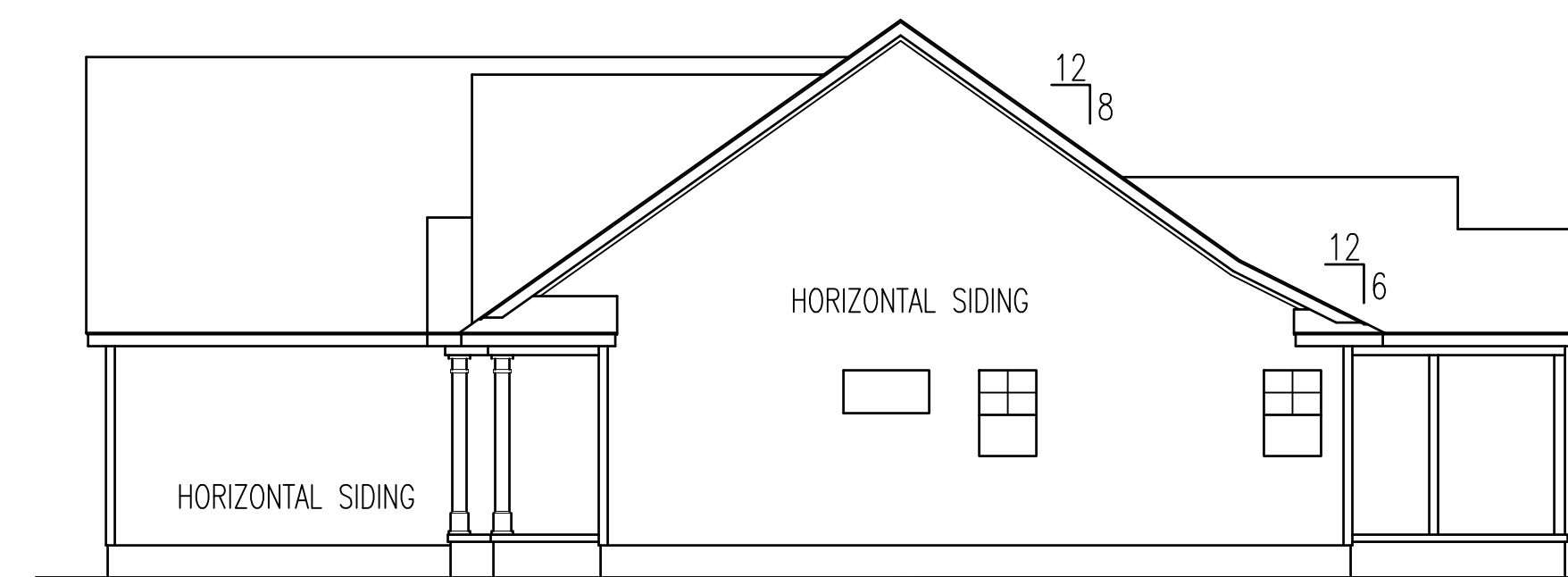
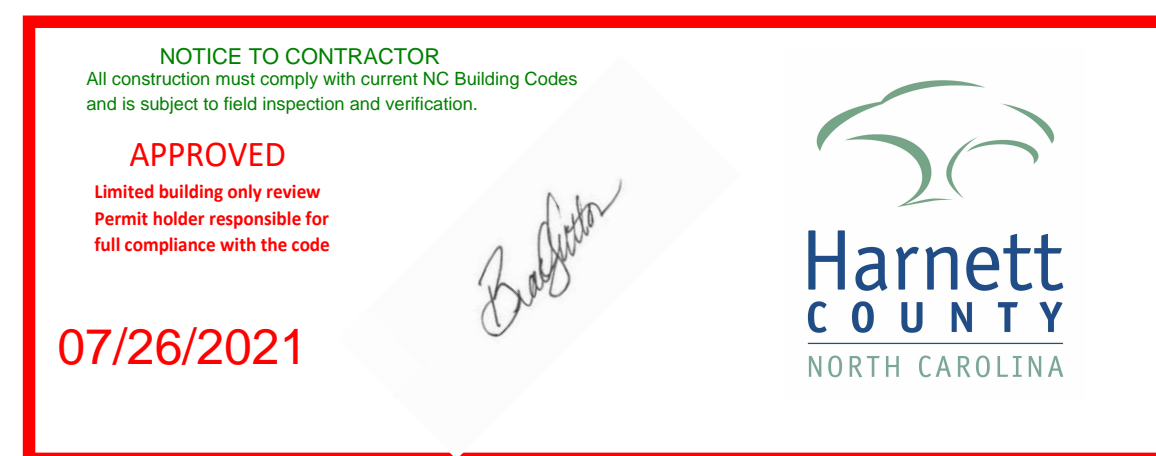


FRONT ELEVATION
SCALE: 1/4" = 1'-0"

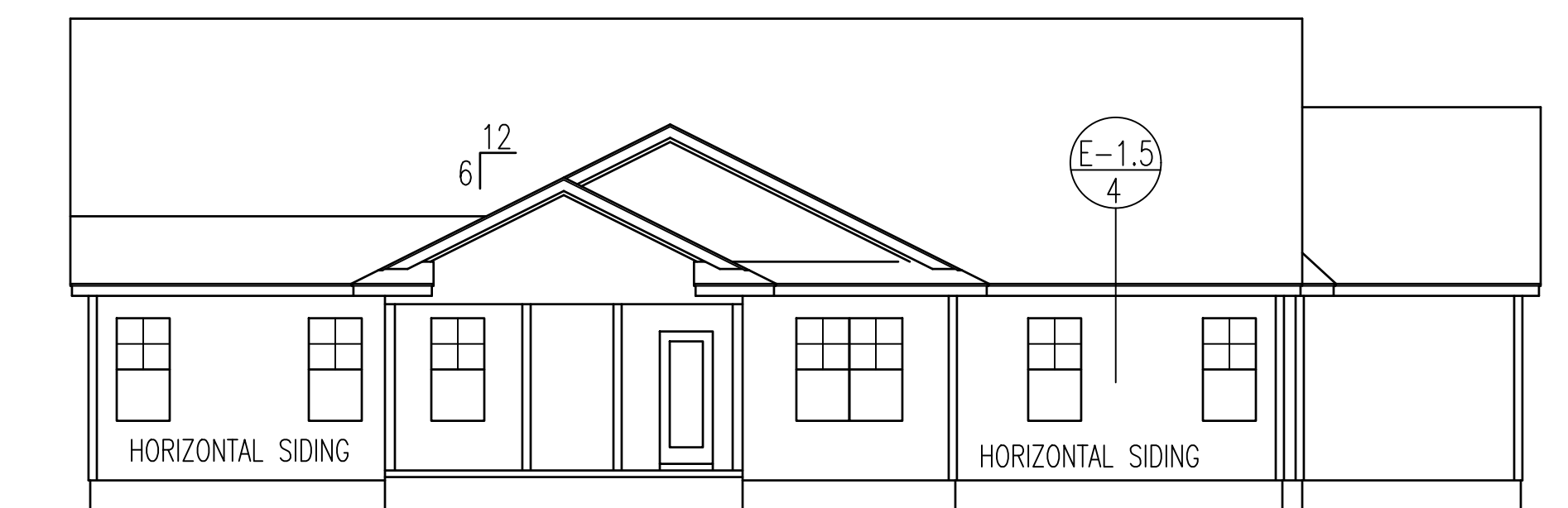
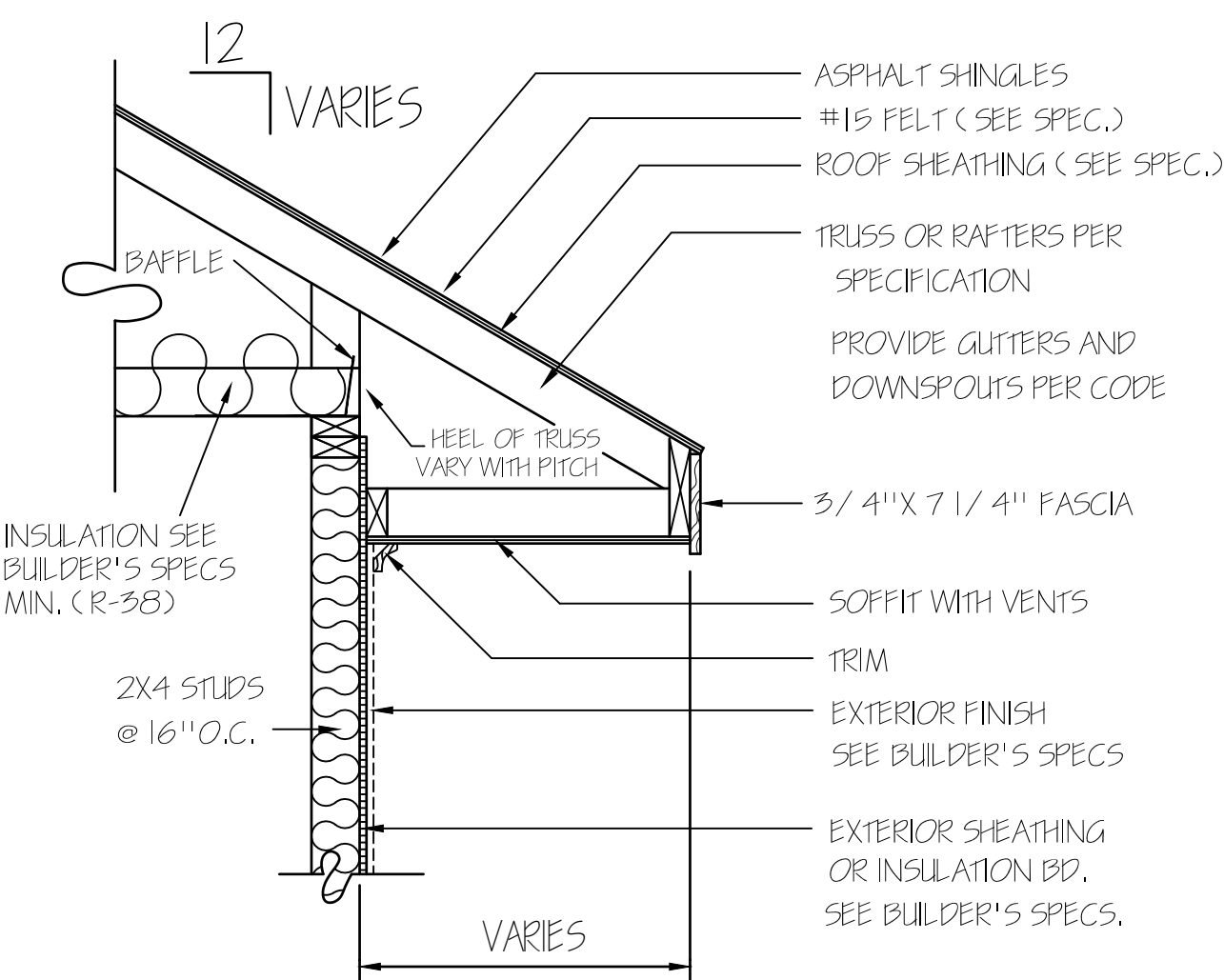


LEFT ELEVATION

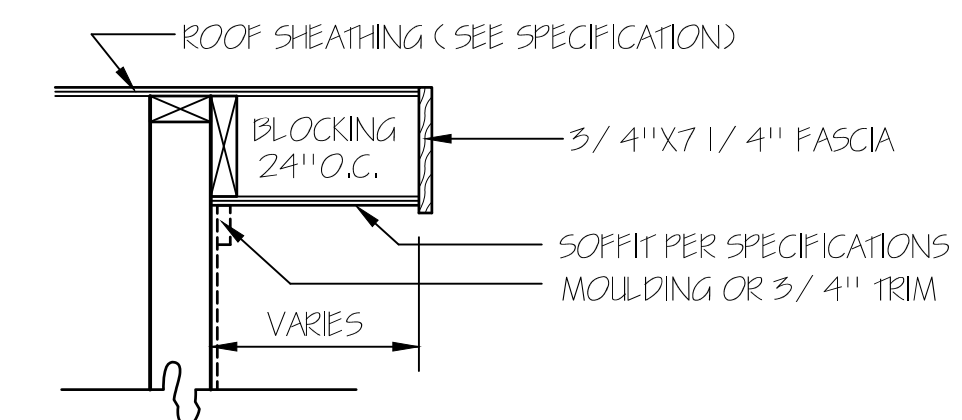


RIGHT ELEVATION

HERO PACKAGE



REAR ELEVATION
SCALE: 1/8" = 1'-0"



RAKE DETAIL FOR GABLE ENDS

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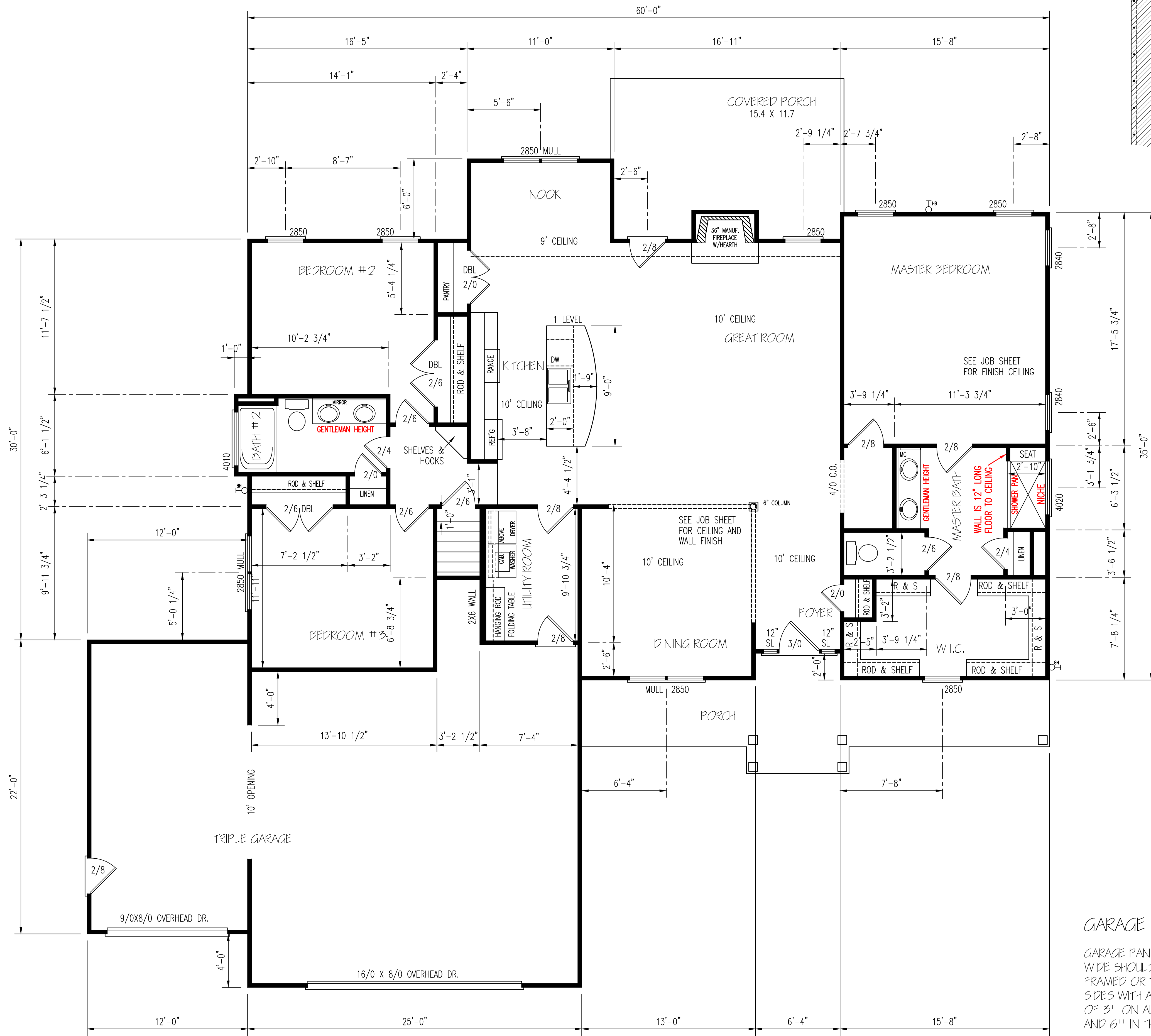
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I HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2012 INTERNATIONAL BUILDING CODES

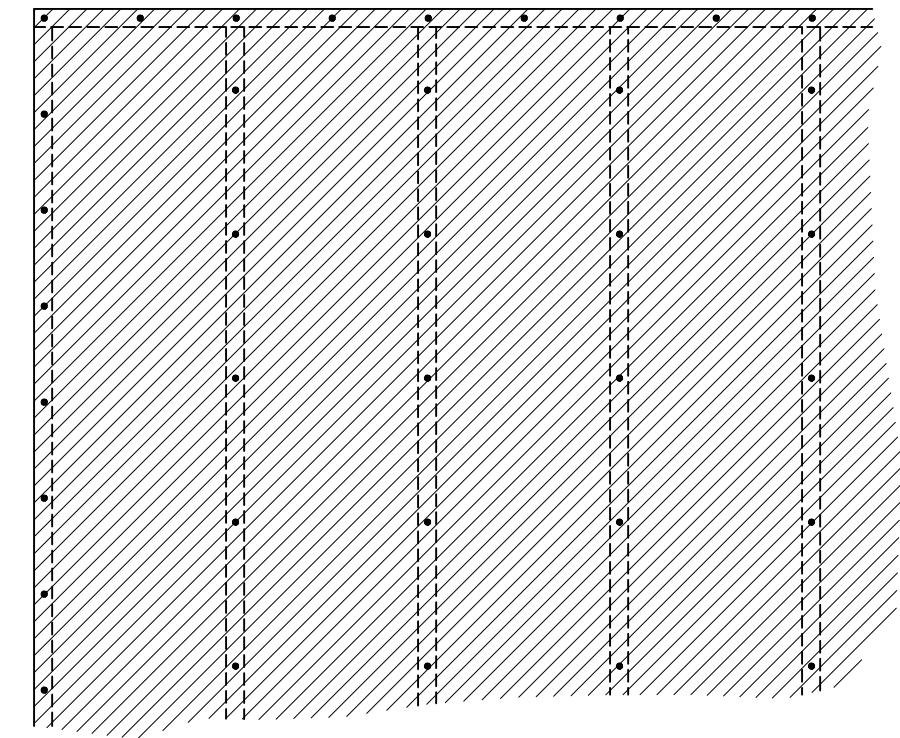
THIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED

PLAN NUMBER
RG16-A01
OPTION #4

1 GARAGE L L F
DATE: 12/18/19

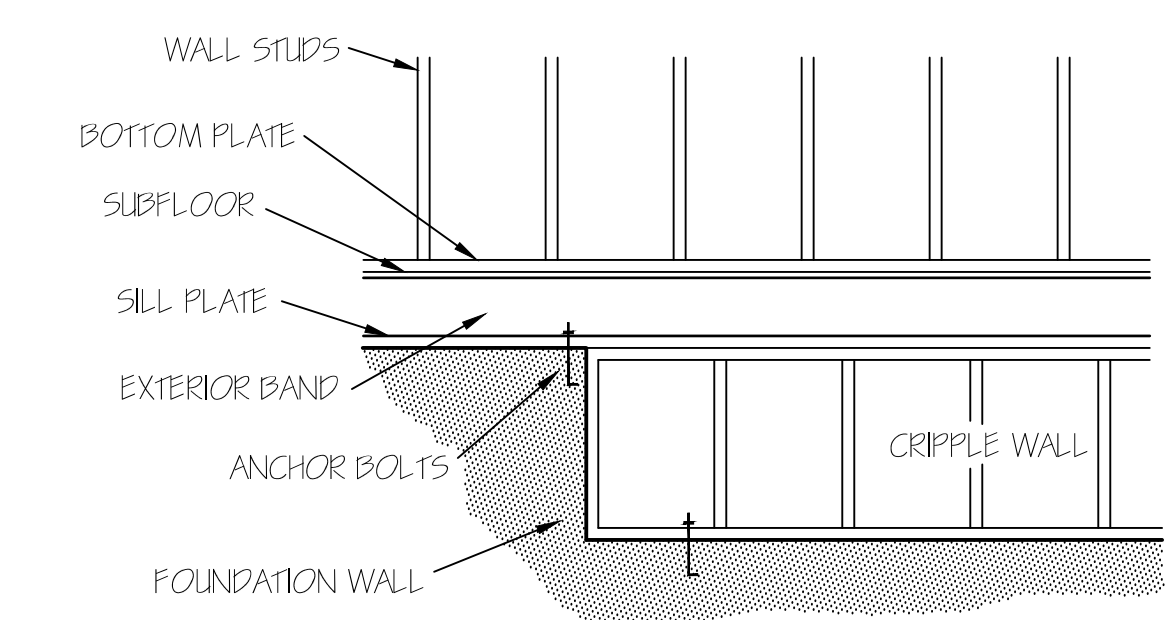


BRACING METHOD

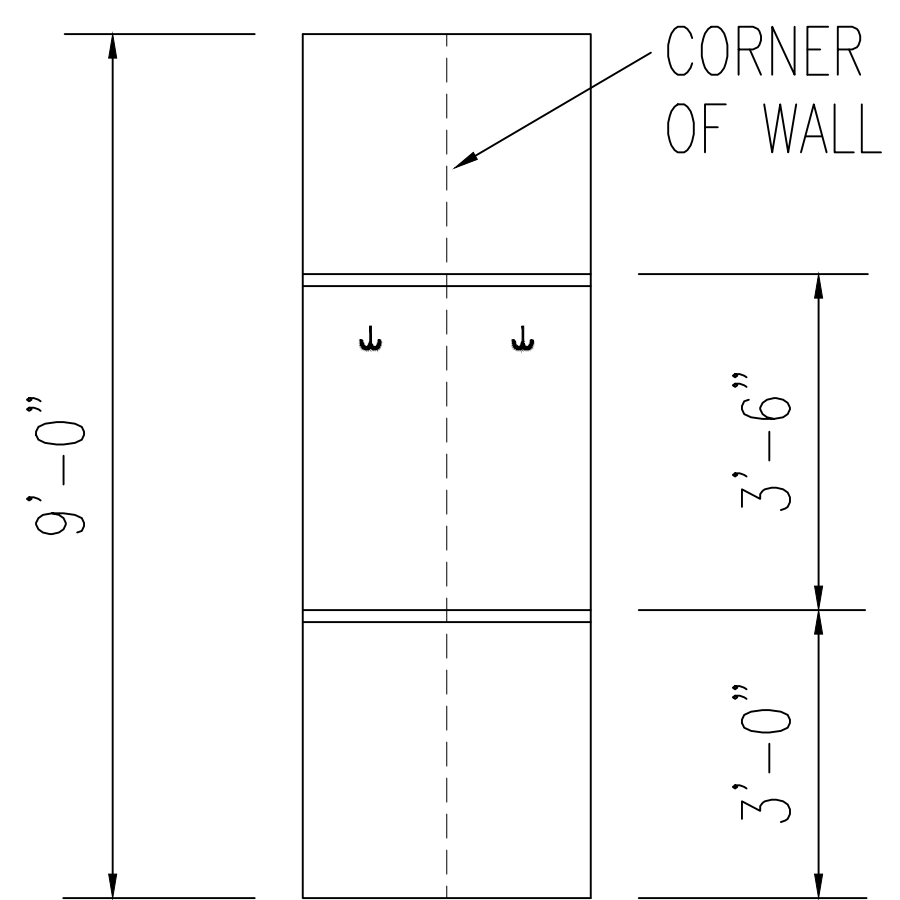


EXTERIOR WALL TO BE FULLY SHEATHED WITH 7/16" OSB. NAILING PATTERN TO BE 8" ON ALL EDGES AND 12" IN FIELD, WITH 8d NAILS.

ENERGY TABLE
 UFACTOR OF WINDOWS .30
 CLIMATE ZONE 3
 INSULATION: WALLS 15
 CEILING 38
 FLOORS 19



FOUNDATION CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT SMALLER THAN THE STUDING ABOVE. WHEN EXCEEDING 4 FT. IN HEIGHT, SUCH WALLS SHALL BE FRAMED OF STUDS HAVING THE SIZE REQUIRED FOR AN ADDITIONAL STORY. CRIPPLE WALLS WITH A STUD HEIGHT LESS THAN 14 INCHES SHALL BE CONTINUOUSLY SHEATHED ON ONE SIDE WITH WOOD STRUCTURAL PANELS FASTENED TO BOTH THE TOP AND BOTTOM PLATES IN ACCORDANCE WITH TABLE R602.2.1(D). OR CRIPPLE WALLS SHALL BE CONSTRUCTED OF SOLID BLOCKING.



SHELVES IN HALLWAY DETAIL

HERO PACKAGE

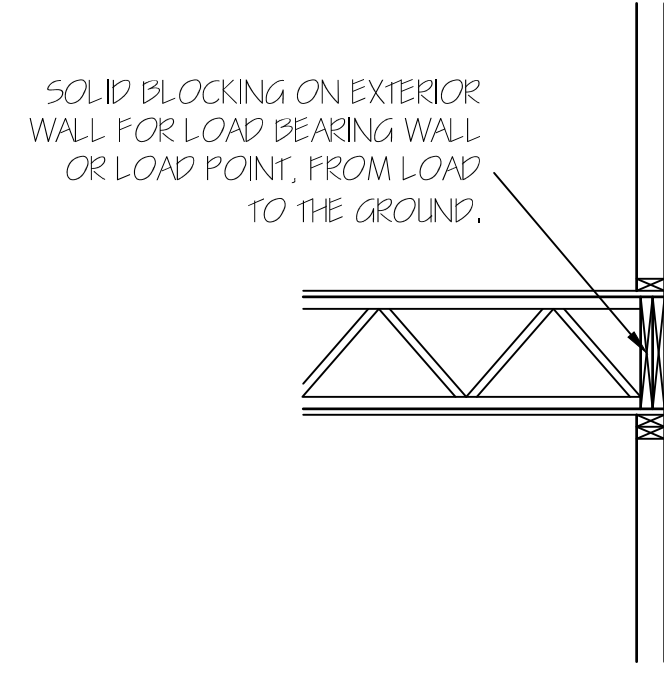
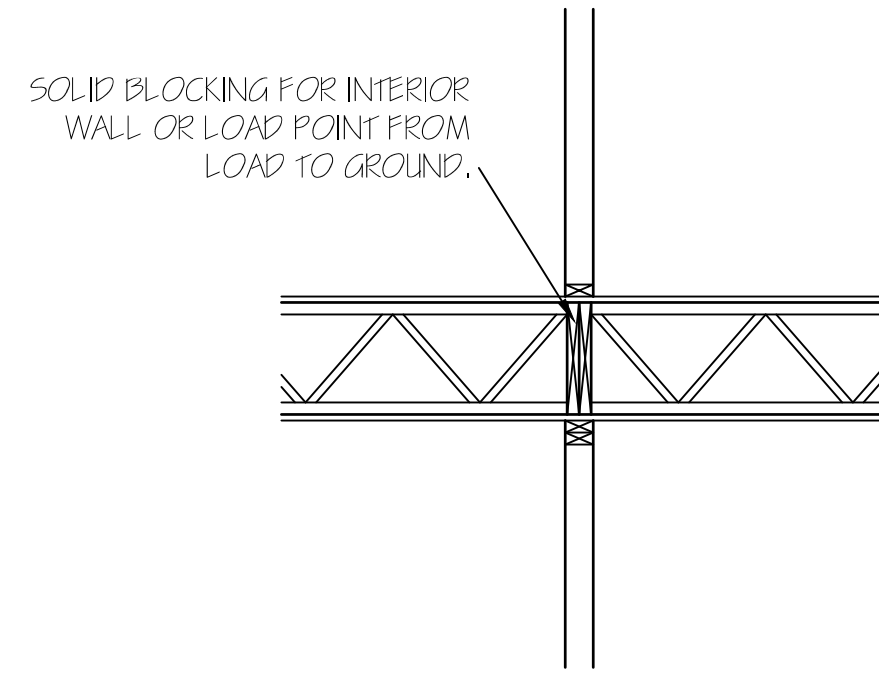
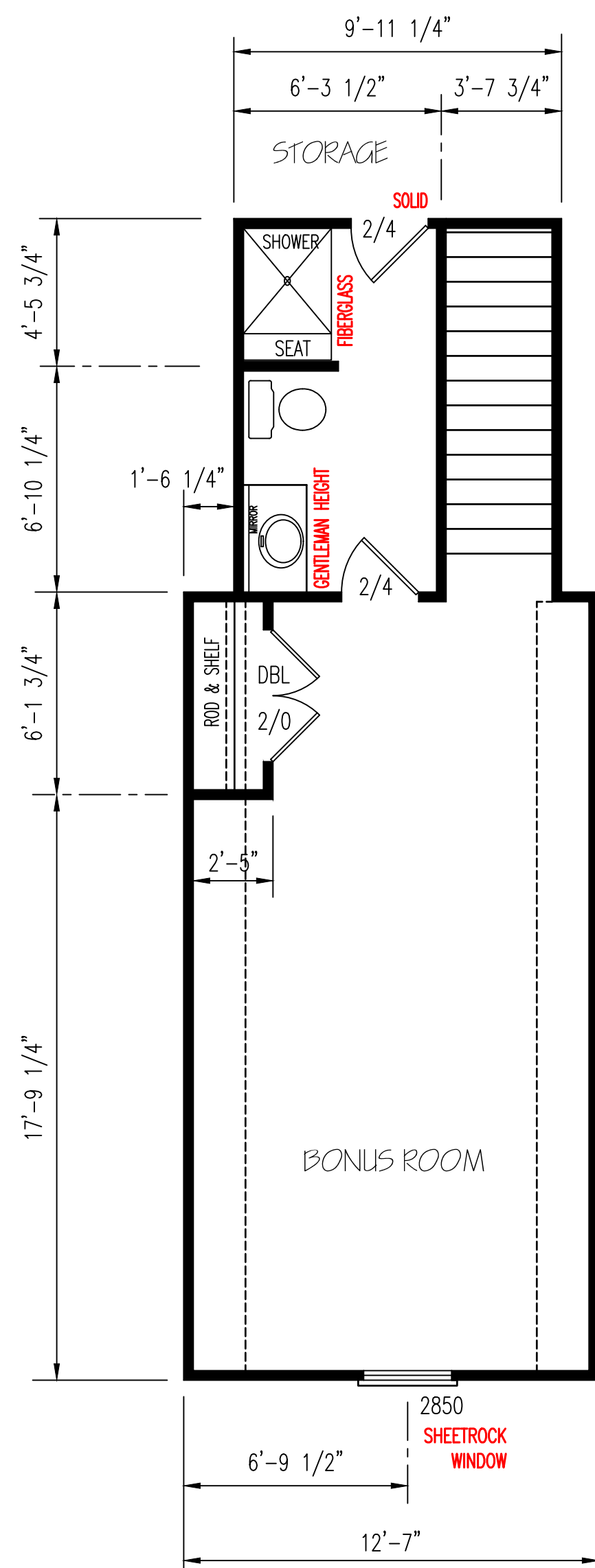
FIRST FLOOR PLAN
 SCALE: 1/4" = 1'-0"

HEATED AREA	
1ST FL	2015 SQ FT
2ND FL	399 SQ FT
TOTAL	2414 SQ FT

OTHER AREAS	
GARAGE	894 SQ FT
F.PORCH	203 SQ FT
R.PORCH	208 SQ FT

GARAGE PANEL WALL

GARAGE PANEL WALLS UNDER 24" WIDE SHOULD BE EITHER PORTAL FRAMED OR 7/16" OSB ON BOTH SIDES WITH A NAILING PATTERN OF 3" ON ALL PANEL EDGES AND 6" IN THE FIELD.



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

EXCLUSIVE RESIDENCE DESIGN FOR:

WATERMARK HOMES

NAME: OLEANDER II

LOT: 119 BALLARD WOODS

TM DESIGNS

RESIDENTIAL PLANS BY TINA MCFADDEN
(910) 354-4736 TMDESIGNS2016@GMAIL.COM

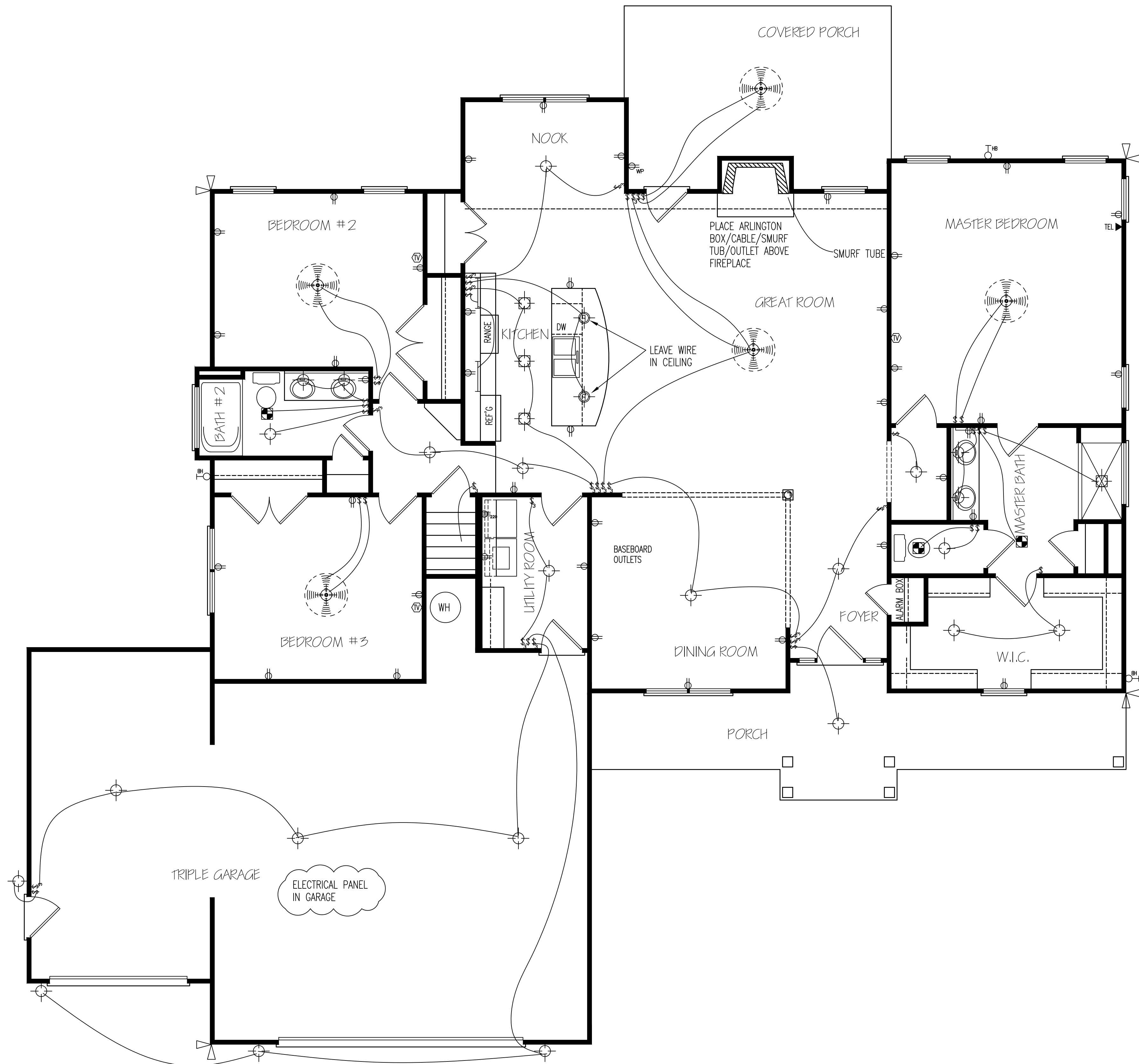
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I HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2012 INTERNATIONAL BUILDING CODES

THIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED

PLAN NUMBER		
RG16-A01		
OPTION #4		
2	GARAGE	L F
	DATE:	12/18/19



HERO PACKAGE

FIRST FLOOR
ELECTRICAL LAYOUT

NOTE: SWITCHED RECEPTACLES ARE HOT TOP AND SWITCHED BOTTOM

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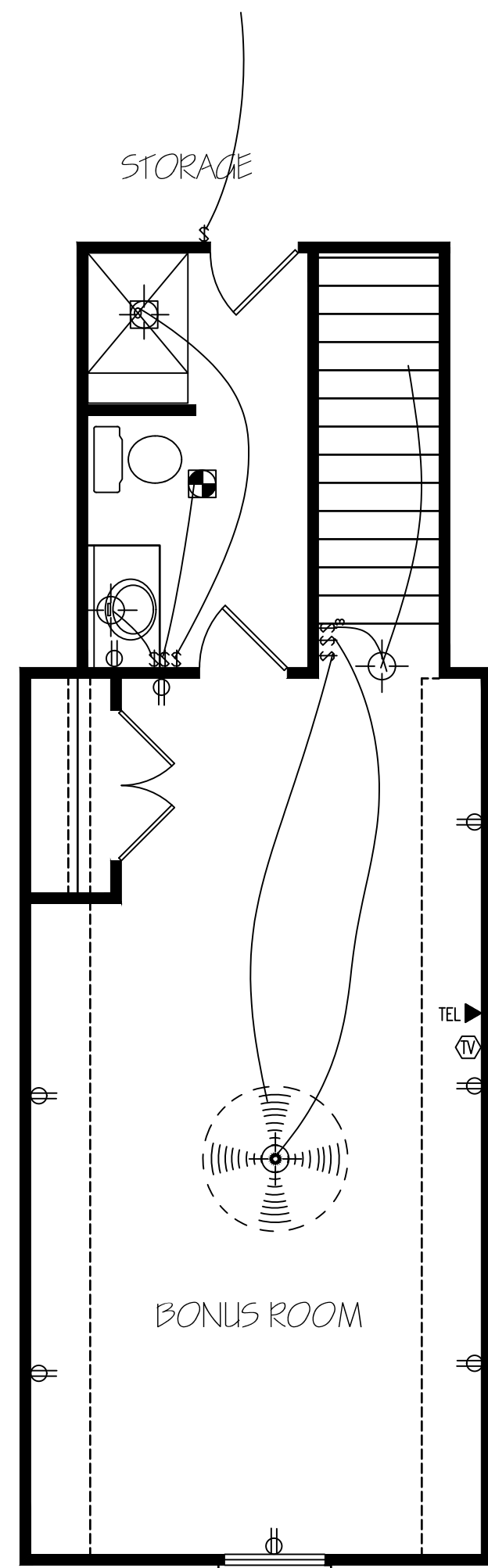
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THIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED

PLAN NUMBER
RG16-A01
OPTION #4

E-1	GARAGE	L	F
	DATE:	12/18/19	



BONUS ROOM
ELECTRICAL LAYOUT

NOTE: SWITCHED RECEPTACLES ARE HOT
TOP AND SWITCHED BOTTOM

HERO PACKAGE

T M DESIGNS
RESIDENTIAL PLANS BY TINA MCFADDEN
(910) 354-4736 TMDESIGNS2016@GMAIL.COM

EXCLUSIVE RESIDENCE DESIGN FOR:
WATERMARK HOMES
NAME: OLEANDER II
LOT: 119 BALLARD WOODS

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THIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED

PLAN NUMBER
RG16-A01

OPTION #4

E-2	GARAGE	L	F
	DATE:	12/18/19	



ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

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. The individual design sheets for each truss design identified on the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 1500#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 1500#.

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 1500#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 1500#.

Signature: _____
Sales Area

Truss List	Truss	Qty	Span	Ply	Overhang	Height
A1-GE	1	39' 11"	1	1' 3"	11' 5 3/4"	
A2	7	39' 11"	1	1' 3"	11' 5 3/4"	
A3	3	37' 11"	1		11' 5 3/4"	
A4	1	37' 11"	1		11' 5 3/4"	
A5	6	37' 11"	1	L: 1' 3" R: 1' 3"	11' 5 3/4"	
A6	4	30' 3 3/4"	1		11' 5 3/4"	
A7	2	20' 1 1/2"	1	L: 1' 3" R:	11' 5 3/4"	
A7A	4	20' 1 1/2"	2	L: 1' 3" R:	11' 5 3/4"	
A8	3	32' 4"	1	L: 1' 3" R:	11' 5 3/4"	
A9-GE	1	32' 4"	1	L: 1' 3" R:	11' 5 3/4"	
B1-GE	1	17' 7"	1	1' 3"	5' 8 7/16"	
B2	2	17' 7"	1	1' 3"	5' 8 7/16"	
C1-GE	1	28' 2 1/2"	1	1' 3"	8' 4 5/16"	
C2	1	28' 2 1/2"	1	1' 3"	8' 4 5/16"	
C3	1	28' 2 1/2"	1	L: 1' 3" R:	8' 4 5/16"	
D1-GE	1	24' 11"	1	1' 3"	11' 5 3/4"	
D2	1	24' 11"	1	1' 3"	11' 5 3/4"	
D3	7	24' 11"	1	L: 1' 3" R:	11' 5 3/4"	
D4	2	24' 11"	1		11' 5 3/4"	
D5	1	24' 11"	1		11' 5 3/4"	
E1-GE	1	7' 7"	1	1' 3"	5' 9 7/16"	
E2	1	7' 7"	1		5' 9 7/16"	
G1-GE	1	21' 11"	1	1' 3"	9' 4 1/4"	
G2	5	21' 11"	1	1' 3"	9' 4 1/4"	
PB1	2	10' 0"	1		3' 6 1/2"	
PB2	24	10' 0"	1		3' 6 1/2"	
PB3	4	6' 2"	1		3' 6 1/2"	
PB4	12	5' 11 5/16"	1		2' 11 11/16"	
VA-1	1	23' 3 9/16"	1		11' 7 3/4"	
VA-2	1	20' 5 9/16"	1		10' 2 3/4"	
VA-3	1	17' 7 9/16"	1		8' 9 3/4"	
VA-4	1	14' 9 9/16"	1		7' 4 3/4"	
VA-5	1	11' 11 9/16"	1		5' 11 3/4"	
VA-6	1	9' 1 9/16"	1		4' 6 3/4"	
VA-7	1	6' 3 9/16"	1		3' 1 3/4"	
VA-8	1	3' 5 9/16"	1		1' 8 3/4"	
VC-1	1	26' 10 5/8"	1		6' 8 5/8"	
VC-2	1	21' 2 5/8"	1		5' 3 5/8"	
VC-3	1	15' 6 5/8"	1		3' 10 5/8"	
VC-4	1	9' 10 5/8"	1		2' 5 5/8"	
VC-5	1	4' 2 5/8"	1		1' 0 5/8"	

Connector Information				Nail Information		
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
JUS26	USP	4	Varies	10d3"	10d3"	10d3"

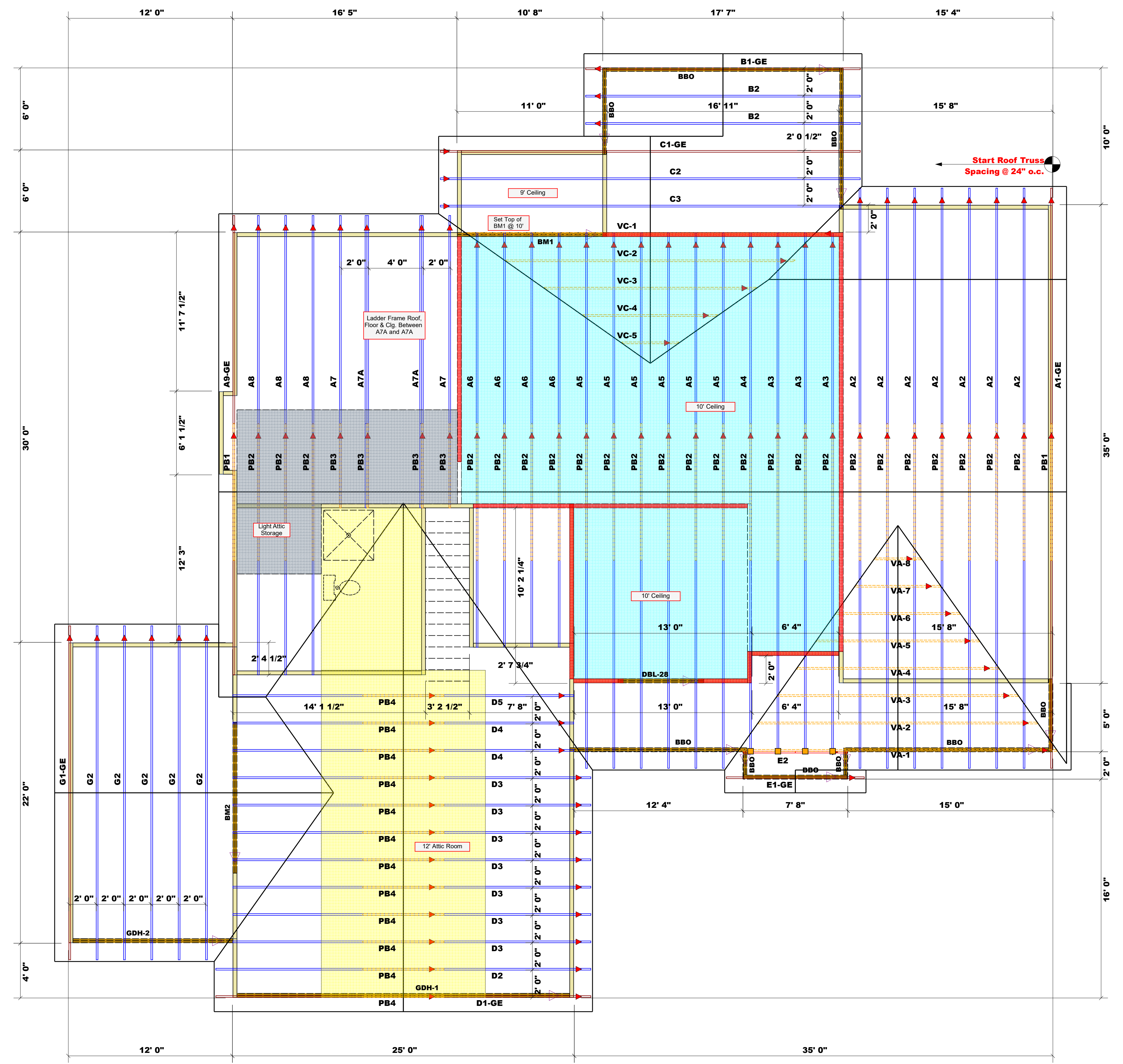
Beam Schedule					
PlotID	Length	Product	Piles	Net Qty	Fab Type
DBL-28	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH-1	25' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
GDH-2	12' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
BM1	11' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
BM2	11' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF

▲ = Indicates Left End of Truss (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

Roof Area = 4581.87 sq.ft.
Ridge Line = 161.78 ft.
Hip Line = 0 ft.
HORIZ. OH = 122.65 ft.
RAKED OH = 278.43 ft.
Decking = 158 sheets

All Walls Shown Are Considered Load Bearing

WALL SCHEDULE	
	9' Plate Height
	10' Plate Height
	Non-Bearing Walls



Truss Placement Plan
SCALE: 1/4" = 1'-0"

COUNTY	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALESMAN
Hammett County	Lot 119 Ballard Woods	Roof	7/6/21	Anthony Williams	Anthony Williams

BUILDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #
Watermark Homes	Lot 119 Ballard Woods	Oleander II Plan	12/18/19	NA	J0721-4155

LOAD CHART FOR JACK STUDS	
REQ. REACTION (LBS)	NO. OF JACK STUDS REQUIRED @ 6" END OF HEADER/BEAM
1700	1
3400	2
5100	3
6800	4
8500	5
10200	6
11900	7
13600	8
15300	9

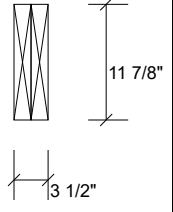
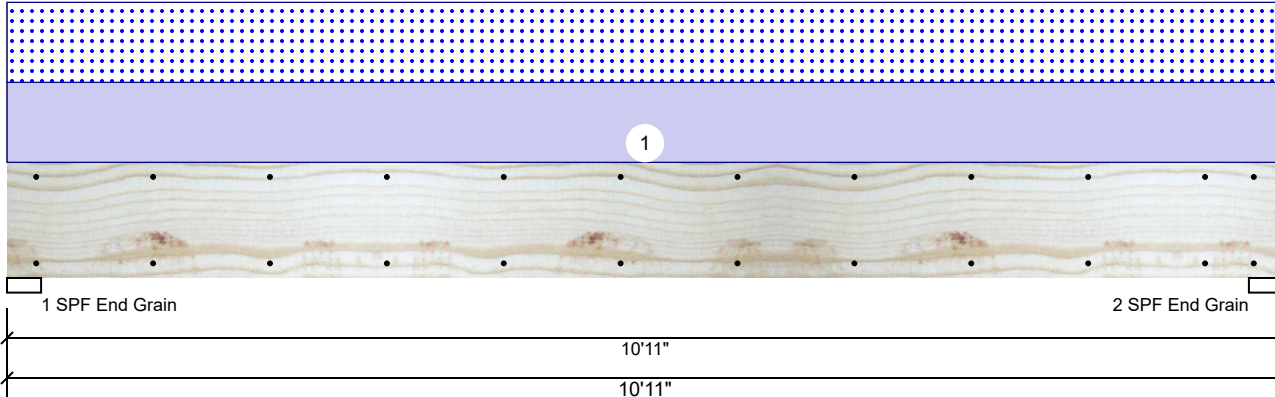


Client: Watermark Homes
 Project:
 Address: Lot 119 Ballard Woods, Lillington NC

Date: 7/8/2021
 Input by: Anthony Williams
 Job Name: Lot 119 Ballard Woods
 Project #: J0721-4155

BM1 Kerto-S 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:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1808	1758	0	0
2	Vertical	0	1808	1758	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	33%	1808 / 1758	3566	L	D+S
2 - SPF End Grain	3.500"	Vert	33%	1808 / 1758	3566	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8931 ft-lb	5'5 1/2"	22897 ft-lb	0.390 (39%)	D+S	L
Unbraced	8931 ft-lb	5'5 1/2"	9033 ft-lb	0.989 (99%)	D+S	L
Shear	2738 lb	9'7 5/8"	10197 lb	0.268 (27%)	D+S	L
LL Defl inch	0.101 (L/1243)	5'5 1/2"	0.261 (L/480)	0.386 (39%)	S	L
TL Defl inch	0.205 (L/613)	5'5 1/2"	0.349 (L/360)	0.587 (59%)	D+S	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 2 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 loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	322 PLF	0 PLF	322 PLF	0 PLF	0 PLF	A5
	Self Weight				9 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 3/30/2024

Manufacturer Info

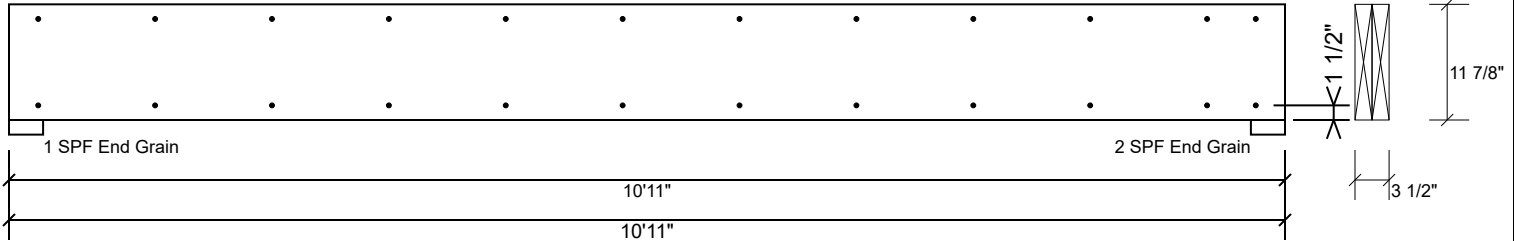
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



BM1 Kerto-S 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	163.7 PLF
Yield Limit per Fastener	81.9 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

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

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 3/30/2024

Manufacturer Info

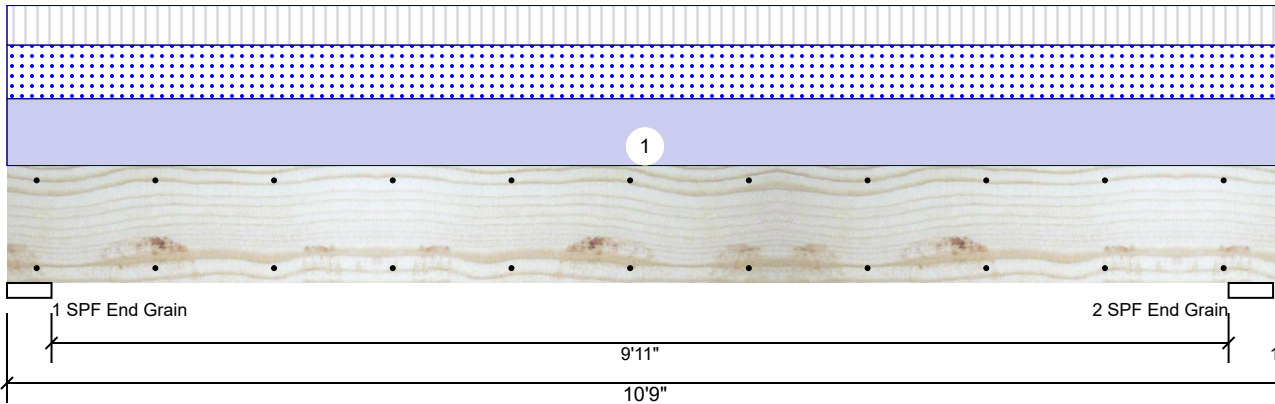
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



BM2 Kerto-S 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:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1036	1798	1403	0	0
2	Vertical	1028	1784	1392	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	26%	1798 / 1829	3627	L_	D+0.75(L+S)
2 - SPF End Grain	4.500"	Vert	26%	1784 / 1815	3599	LL	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2 ft-lb	10'8"	22897 ft-lb	0.000 (0%)	D+0.75(L+S)	LL
Unbraced	-2 ft-lb	10'8"	9241 ft-lb	0.000 (0%)	D+0.75(L+S)	LL
Pos Moment	8685 ft-lb	5'4 3/4"	22897 ft-lb	0.379 (38%)	D+0.75(L+S)	L_
Unbraced	8685 ft-lb	5'4 3/4"	9241 ft-lb	0.940 (94%)	D+0.75(L+S)	L_
Shear	2719 lb	1'4 3/8"	10197 lb	0.267 (27%)	D+0.75(L+S)	L_
LL Defl inch	0.096 (L/1277)	5'4 3/4"	0.254 (L/480)	0.376 (38%)	0.75(L+S)	L_
TL Defl inch	0.189 (L/644)	5'4 3/4"	0.339 (L/360)	0.559 (56%)	D+0.75(L+S)	L_
LL Cant	-0.002 (2L/914)	Rt Cant	0.200 (2L/480)	0.011 (1%)	0.75(L+S)	L_
TL Cant	-0.004 (2L/461)	Rt Cant	0.300 (2L/360)	0.014 (1%)	D+0.75(L+S)	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 2 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 loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

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 3/30/2024

Manufacturer Info

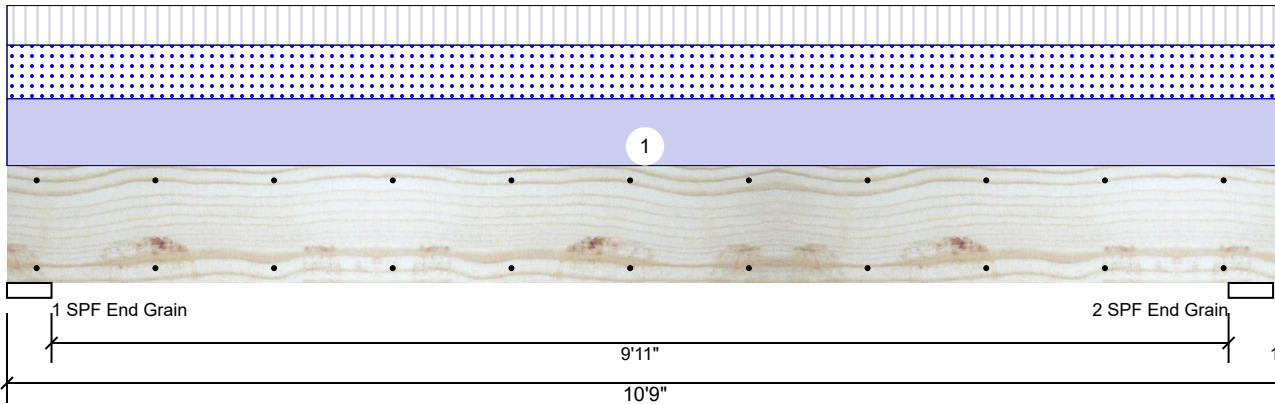
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



BM2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



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	324 PLF	192 PLF	260 PLF	0 PLF	0 PLF	D3
	Self Weight				9 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

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 3/30/2024

Manufacturer Info

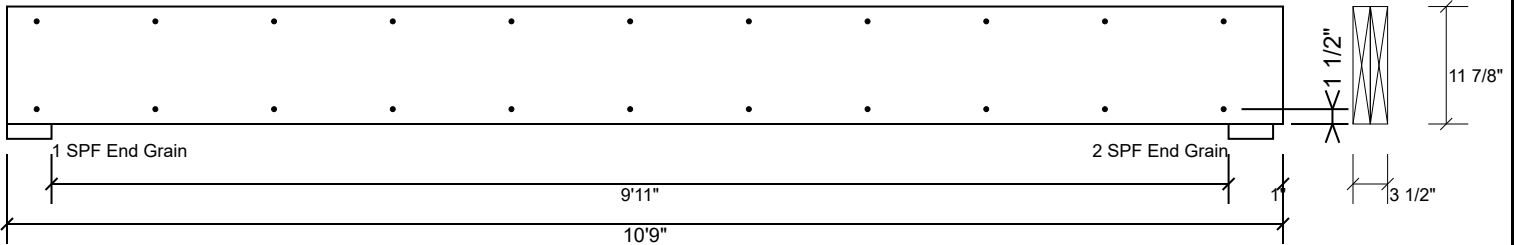
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BM2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

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	163.7 PLF
Yield Limit per Fastener	81.9 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

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

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 3/30/2024

Manufacturer Info

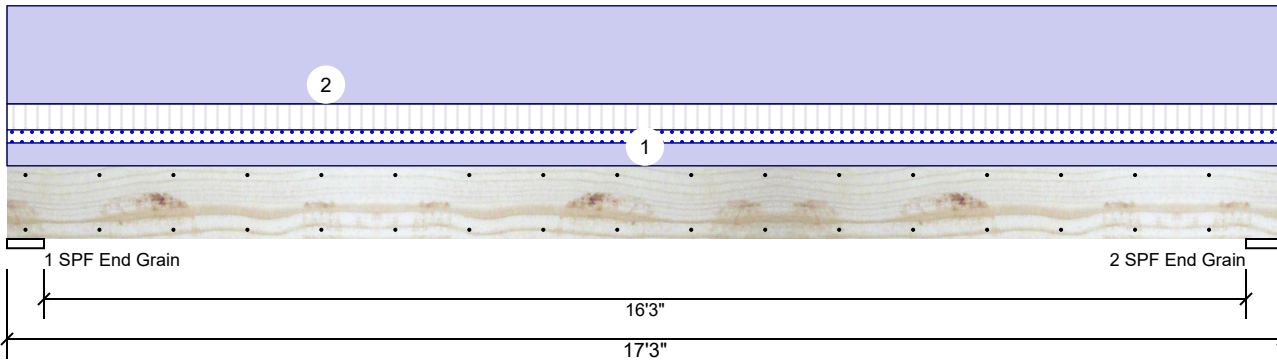
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GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

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:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	345	1675	173	0	0
2	Vertical	345	1675	173	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	6.000"	Vert	11%	1675 / 388	2063	L	D+0.75(L+S)
2 - SPF End Grain	6.000"	Vert	11%	1675 / 388	2063	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7851 ft-lb	8'7 1/2"	19911 ft-lb	0.394 (39%)	D+L	L
Unbraced	8019 ft-lb	8'7 1/2"	8035 ft-lb	0.998 (100%)	D+0.75(L+S)	L
Shear	1681 lb	15'9 1/8"	8867 lb	0.190 (19%)	D+L	L
LL Defl inch	0.079 (L/2497)	8'7 9/16"	0.409 (L/480)	0.192 (19%)	0.75(L+S)	L
TL Defl inch	0.418 (L/470)	8'7 9/16"	0.546 (L/360)	0.767 (77%)	D+0.75(L+S)	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 2 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 loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 12' 11/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	35 PLF	40 PLF	20 PLF	0 PLF	0 PLF	ROOF+FLOOR
2	Uniform			Top	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	Self Weight				9 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 3/30/2024

Manufacturer Info

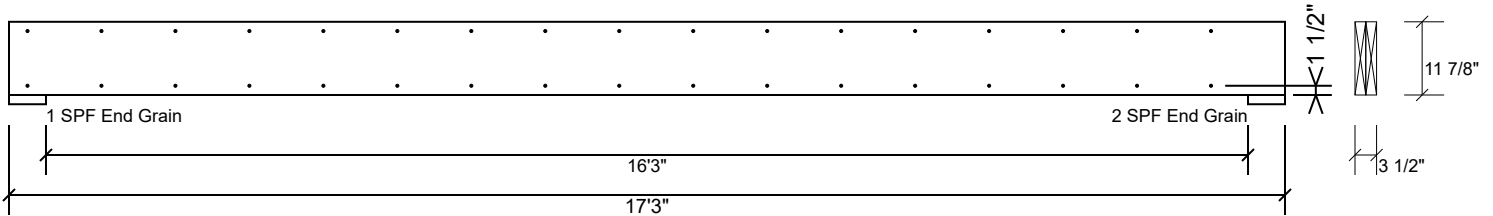
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GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

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	163.7 PLF
Yield Limit per Fastener	81.9 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

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

chemicals

Handling & Installation

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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 3/30/2024

Manufacturer Info

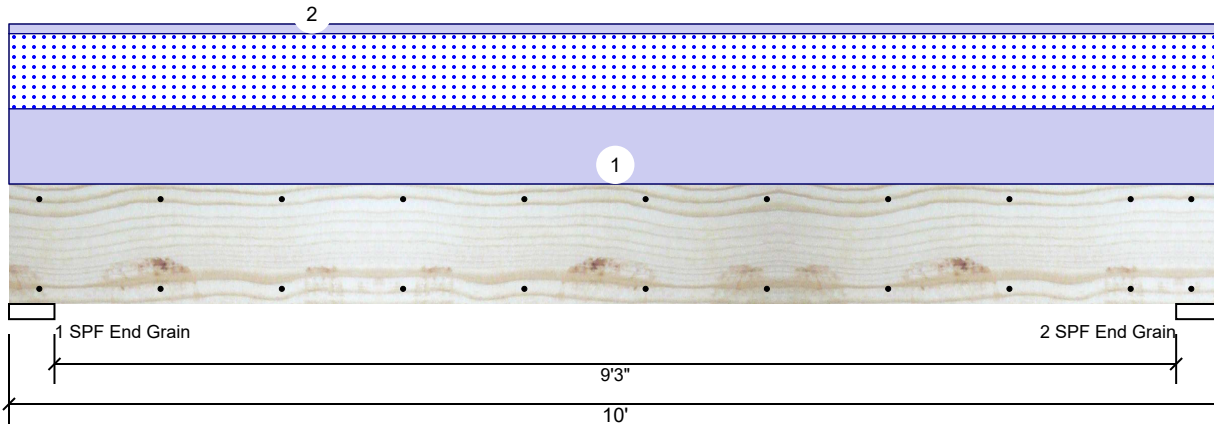
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GDH-2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

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:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1371	1175	0	0
2	Vertical	0	1371	1175	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	19%	1371 / 1175	2546	L	D+S
2 - SPF End Grain	4.500"	Vert	19%	1371 / 1175	2546	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5595 ft-lb	5'	22897 ft-lb	0.244 (24%)	D+S	L
Unbraced	5595 ft-lb	5'	9857 ft-lb	0.568 (57%)	D+S	L
Shear	1860 lb	1'4 3/8"	10197 lb	0.182 (18%)	D+S	L
LL Defl inch	0.049 (L/2297)	5'	0.234 (L/480)	0.209 (21%)	S	L
TL Defl inch	0.106 (L/1060)	5'	0.312 (L/360)	0.340 (34%)	D+S	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 2 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 loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	235 PLF	0 PLF	235 PLF	0 PLF	0 PLF	G2
2	Uniform			Top	30 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	Self Weight				9 PLF					

Notes

Calculated Structural 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
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6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 3/30/2024

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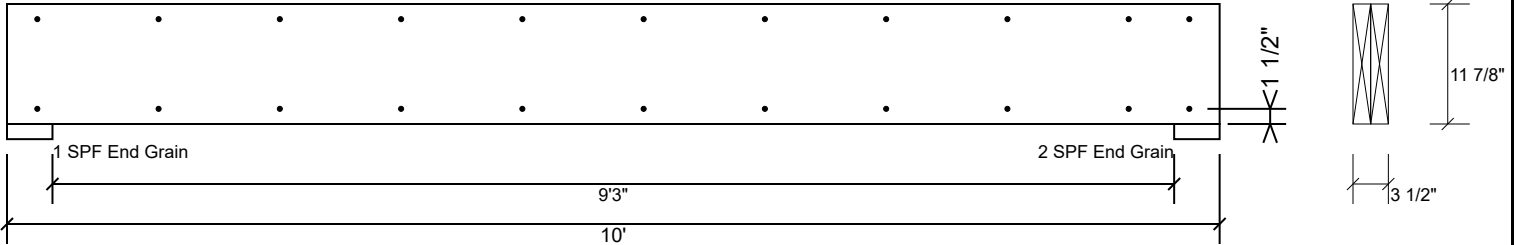
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GDH-2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

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	163.7 PLF
Yield Limit per Fastener	81.9 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

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 3/30/2024

Manufacturer Info

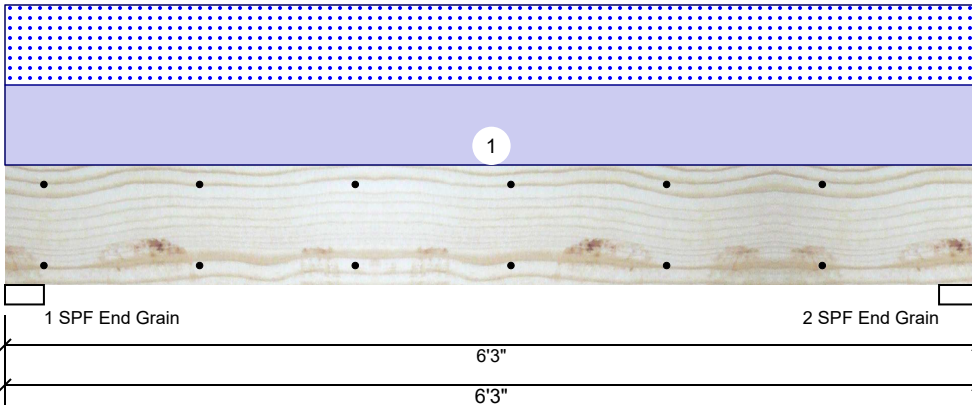
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 28314
 910-864-TRUS



DBL-28 Kerto-S 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:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1432	1409	0	0
2	Vertical	0	1432	1409	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	31%	1432 / 1409	2841	L	D+S
2 - SPF End Grain	3.000"	Vert	31%	1432 / 1409	2841	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3923 ft-lb	3'1 1/2"	14423 ft-lb	0.272 (27%)	D+S	L
Unbraced	3923 ft-lb	3'1 1/2"	10696 ft-lb	0.367 (37%)	D+S	L
Shear	1919 lb	5'2 3/4"	7943 lb	0.242 (24%)	D+S	L
LL Defl inch	0.033 (L/2129)	3'1 1/2"	0.147 (L/480)	0.225 (23%)	S	L
TL Defl inch	0.067 (L/1056)	3'1 1/2"	0.196 (L/360)	0.341 (34%)	D+S	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 2 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 loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	451 PLF	0 PLF	451 PLF	0 PLF	0 PLF	A5
	Self Weight				7 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

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chemicals

Handling & Installation

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6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 3/30/2024

Manufacturer Info

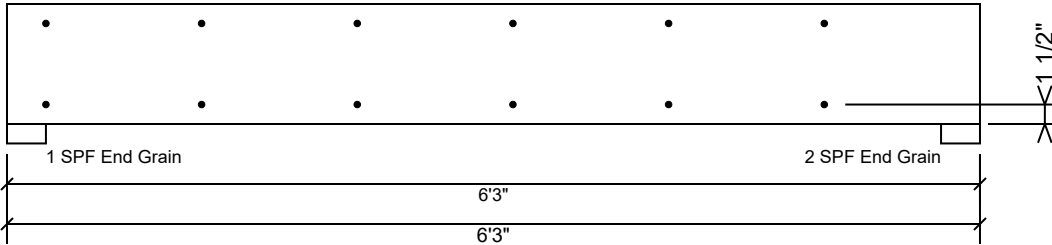
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DBL-28 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

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	163.7 PLF
Yield Limit per Fastener	81.9 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.

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Reaction Summary of Order



ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	ORDER #	J0721-4155
ORDER DATE	07/06/21	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Justin Thomas	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Justin Thomas	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 759-1307	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annette Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 119 Ballard Woods MODEL: Roof TAG: Oleander II DELIVERY INSTRUCTIONS:	LOT # 119 SUBDIV: Ballard Woods JOB CATEGORY: Residential - Roof
	Watermark Homes Lot 119 Ballard Woods Lillington, NC	SPECIAL INSTRUCTIONS: Copied from Lot 6 Oak Haven - J01020-5007 (JB)	PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	aw	07/06/21	
Roof Order	END CUT	RETURN				LAYOUT	aw	07/06/21	
	NO		GABLE STUDS	16 IN. OC	JOBSITE 1	JOBSITE 1	CUTTING	aw	07/06/21

ROOF TRUSSES	LOADING INFORMATION	TCLL-TCDL-BCLL-BCDL	STRESS INCR.	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)
		20.0,10.0,0.0,10.0	1.15	

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		TOP	BOT			TOP	BOT	LEFT	RIGHT	Joint 2	Joint 26	Joint 27	Joint 28	Joint 29
	1	6.00	0.00	GABLE A1-GE	39-11-00 39-11-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 274.3 lbs. -129.9 lbs.	Joint 26 209.7 lbs. -66.5 lbs.	Joint 27 196.4 lbs. -222.7 lbs.	Joint 28 174.9 lbs. -68.9 lbs.	Joint 29 179.0 lbs. -97.3 lbs.
	7	6.00	0.00	PIGGYBACK A2	39-11-00 39-11-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 1417.8 lbs. -83.8 lbs.	Joint 14 1904.8 lbs. -79.4 lbs.			
	3	8.50	0.00	PIGGYBACK A3	37-11-00 37-11-00	2 X 6	2 X 6			Joint 1 1230.8 lbs. -54.5 lbs.	Joint 10 214.8 lbs. -89.3 lbs.	Joint 13 1581.1 lbs. -39.1 lbs.		
	1	8.50	0.00	PIGGYBACK A4	37-11-00 37-11-00	2 X 6	2 X 6			Joint 1 1316.0 lbs. -54.7 lbs.	Joint 10 132.8 lbs. -38.7 lbs.	Joint 13 1569.6 lbs. -68.6 lbs.		
	6	8.50	0.00	PIGGYBACK A5	37-11-00 37-11-00	2 X 6	2 X 6		01-03-00	Joint 1 1286.8 lbs. -57.2 lbs.	Joint 14 1803.6 lbs. -80.2 lbs.			
	4	8.50	0.00	PIGGYBACK A6	30-03-12 30-03-12	2 X 6	2 X 6			Joint 1 1199.5 lbs. -44.4 lbs.	Joint 8 1201.7 lbs. -15.7 lbs.			
	2	8.50	0.00	PIGGYBACK A7	20-01-08 20-01-08	2 X 6	2 X 10	01-03-00		Joint 2 1032.0 lbs. -5.6 lbs.	Joint 9 1332.1 lbs. -163.6 lbs.			
	2 2 Ply	8.50	0.00	PIGGYBACK A7A	20-01-08 20-01-08	2 X 6	2 X 10	01-03-00		Joint 2 2064.1 lbs. -11.2 lbs.	Joint 9 2664.2 lbs. -327.2 lbs.			
	3	8.50	0.00	PIGGYBACK A8	32-04-00 32-04-00	2 X 6	2 X 10	01-03-00		Joint 2 1192.3 lbs. -64.7 lbs.	Joint 11 1019.2 lbs. -59.6 lbs.	Joint 13 772.6 lbs. 6.8 lbs.		
	1	8.50	0.00	GABLE A9-GE	32-04-00 32-04-00	2 X 6	2 X 6	01-03-00		Joint 20 262.8 lbs. -242.7 lbs.	Joint 21 341.8 lbs. -206.6 lbs.	Joint 22 180.3 lbs. -104.1 lbs.	Joint 23 180.7 lbs. -74.3 lbs.	Joint 24 165.8 lbs. 11.2 lbs.
	1	6.00	0.00	GABLE B1-GE	17-07-00 17-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 768.8 lbs. -203.6 lbs.	Joint 10 768.8 lbs. -203.6 lbs.			

Reaction Summary of Order




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 Reilly Road Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	ORDER #	J0721-4155
ORDER DATE	07/06/21	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Justin Thomas	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Justin Thomas	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 759-1307	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annette Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 119 Ballard Woods MODEL: Roof TAG: Oleander II DELIVERY INSTRUCTIONS:	LOT # 119 SUBDIV: Ballard Woods JOB CATEGORY: Residential - Roof
	Watermark Homes Lot 119 Ballard Woods Lillington, NC	SPECIAL INSTRUCTIONS: Copied from Lot 6 Oak Haven - J01020-5007 (JB)	PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT Roof Order	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	aw	07/06/21
	END CUT	RETURN				LAYOUT	aw	07/06/21
	NO		GABLE STUDS	16 IN. OC	JOBSITE	1	CUTTING	aw

ROOF TRUSSES	LOADING INFORMATION	TCLL-TCDL-BCLL-BCDL 20.0,10.0,0.0,10.0	STRESS INCR. 1.15	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)
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PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	2	6.00	0.00	COMMON B2	17-07-00 17-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 Joint 6 768.8 lbs. 768.8 lbs. -157.7 lbs. -157.7 lbs.
	1	6.00	0.00	QUEENPOST C1-GE	28-02-08 28-02-08	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 Joint 16 Joint 20 Joint 21 Joint 22 440.5 lbs. 910.9 lbs. 974.4 lbs. 91.6 lbs. 147.2 lbs. 18.2 lbs. -214.8 lbs. -265.5 lbs. -375.1 lbs. -32.8 lbs.
	1	6.00	0.00	COMMON C2	28-02-08 28-02-08	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 Joint 10 Joint 14 892.4 lbs. 1008.1 lbs. 600.0 lbs. -75.0 lbs. -164.6 lbs. -130.8 lbs.
	1	6.00	0.00	COMMON C3	28-02-08 28-02-08	2 X 6	2 X 6	01-03-00		Joint 2 Joint 10 Joint 13 894.5 lbs. 940.5 lbs. 599.0 lbs. -75.2 lbs. -159.5 lbs. -129.6 lbs.
	1	12.00	0.00	GABLE D1-GE	24-11-00 24-11-00	2 X 6	2 X 10	01-03-00	01-03-00	Joint 18 Joint 22 1622.3 lbs. 1622.3 lbs. 49.0 lbs. 49.0 lbs.
	1	12.00	0.00	PIGGYBACK D2	24-11-00 24-11-00	2 X 6	2 X 10	01-03-00	01-03-00	Joint 12 Joint 16 1622.3 lbs. 1622.3 lbs. 183.9 lbs. 183.9 lbs.
	7	12.00	0.00	PIGGYBACK D3	24-11-00 24-11-00	2 X 6	2 X 10	01-03-00		Joint 11 Joint 15 1552.2 lbs. 1624.2 lbs. 202.5 lbs. 185.3 lbs.
	2	12.00	0.00	PIGGYBACK D4	24-11-00 24-11-00	2 X 6	2 X 10			Joint 10 Joint 14 1554.1 lbs. 1554.1 lbs. 203.9 lbs. 203.9 lbs.
	1	12.00	0.00	PIGGYBACK D5	24-11-00 24-11-00	2 X 6	2 X 10			Joint 10 Joint 14 2331.1 lbs. 2331.1 lbs. 305.8 lbs. 305.8 lbs.
	1	12.00	0.00	COMMON E1-GE	07-07-00 07-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 8 Joint 9 Joint 10 Joint 11 Joint 12 189.1 lbs. 222.8 lbs. 213.1 lbs. 227.1 lbs. 195.1 lbs. -132.4 lbs. -173.8 lbs. 80.6 lbs. -177.6 lbs. -137.8 lbs.
	1	12.00	0.00	COMMON E2	07-07-00 07-07-00	2 X 6	2 X 8			Joint 4 Joint 6 637.6 lbs. 638.5 lbs. -186.0 lbs. -200.9 lbs.

Reaction Summary of Order



ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	ORDER #	J0721-4155
ORDER DATE	07/06/21	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Justin Thomas	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Justin Thomas	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 759-1307	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annette Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 119 Ballard Woods MODEL: Roof TAG: Oleander II DELIVERY INSTRUCTIONS:	LOT # 119 SUBDIV: Ballard Woods JOB CATEGORY: Residential - Roof
	Watermark Homes Lot 119 Ballard Woods Lillington, NC	SPECIAL INSTRUCTIONS: Copied from Lot 6 Oak Haven - J01020-5007 (JB)	PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT Roof Order	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	aw	07/06/21
	END CUT	RETURN				LAYOUT	aw	07/06/21
	NO		GABLE STUDS	16 IN. OC	JOBSITE	1	CUTTING	aw

ROOF TRUSSES	LOADING INFORMATION	TCLL-TCDL-BCLL-BCDL	STRESS INCR.	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)
		20.0,10.0,0.0,10.0	1.15	

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		TOP	BOT			TOP	BOT	LEFT	RIGHT	Joint 14	Joint 15	Joint 16	Joint 17	Joint 19
	1	8.50	0.00	GABLE G1-GE	21-11-00 21-11-00	2 X 6	2 X 6	01-03-00	01-03-00	223.3 lbs. -31.4 lbs.	243.4 lbs. -200.0 lbs.	168.0 lbs. -88.3 lbs.	183.1 lbs. -104.6 lbs.	176.1 lbs. -63.9 lbs.
	5	8.50	0.00	COMMON G2	21-11-00 21-11-00	2 X 6	2 X 6	01-03-00	01-03-00	939.2 lbs. -57.4 lbs.	939.2 lbs. -57.4 lbs.			
	2	8.50	0.00	GABLE PB1	08-06-10 08-06-10	2 X 4	2 X 4			79.6 lbs. -79.3 lbs.	185.2 lbs. -83.3 lbs.	158.8 lbs. -57.1 lbs.	38.2 lbs. -32.1 lbs.	217.2 lbs. -111.3 lbs.
	24	8.50	0.00	PIGGYBACK PB2	08-06-10 08-06-10	2 X 4	2 X 4			219.1 lbs. -37.4 lbs.	219.1 lbs. -45.2 lbs.	302.6 lbs. 26.7 lbs.		
	4	8.50	0.00	PIGGYBACK PB3	05-05-05 05-05-05	2 X 4	2 X 4			192.1 lbs. -4.5 lbs.	0.1 lbs. -52.6 lbs.	267.5 lbs. -8.1 lbs.		
	12	12.00	0.00	PIGGYBACK PB4	04-09-11 04-09-11	2 X 4	2 X 4			140.5 lbs. -47.0 lbs.	140.4 lbs. -53.6 lbs.	149.1 lbs. 8.8 lbs.		
	1	12.00	0.00	GABLE VA-1	23-03-09 23-03-09	2 X 4	2 X 4			235.3 lbs. -140.0 lbs.	182.2 lbs. -60.1 lbs.	190.6 lbs. -138.9 lbs.	108.5 lbs. -78.0 lbs.	122.9 lbs. -97.1 lbs.
	1	12.00	0.00	VALLEY VA-2	20-05-09 20-05-09	2 X 4	2 X 4			185.8 lbs. -106.7 lbs.	162.1 lbs. -67.9 lbs.	294.2 lbs. -135.1 lbs.	459.9 lbs. -184.2 lbs.	371.8 lbs. 71.6 lbs.
	1	12.00	0.00	VALLEY VA-3	17-07-09 17-07-09	2 X 4	2 X 4			207.5 lbs. -23.0 lbs.	182.4 lbs. 10.4 lbs.	524.0 lbs. -213.7 lbs.	344.9 lbs. 62.3 lbs.	524.2 lbs. -213.9 lbs.
	1	12.00	0.00	VALLEY VA-4	14-09-09 14-09-09	2 X 4	2 X 4			159.7 lbs. -32.3 lbs.	138.8 lbs. -4.4 lbs.	418.3 lbs. -177.1 lbs.	344.6 lbs. 59.8 lbs.	418.5 lbs. -177.3 lbs.
	1	12.00	0.00	VALLEY VA-5	11-11-09 11-11-09	2 X 4	2 X 4			112.5 lbs. -65.4 lbs.	90.1 lbs. -43.1 lbs.	337.6 lbs. -160.0 lbs.	223.4 lbs. 54.9 lbs.	337.8 lbs. -160.2 lbs.

Reaction Summary of Order



REQ. QUOTE DATE	/ /	ORDER #	J0721-4155
ORDER DATE	07/06/21	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Justin Thomas	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Justin Thomas	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 759-1307	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annette Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 119 Ballard Woods MODEL: Roof TAG: Oleander II DELIVERY INSTRUCTIONS:	LOT # 119 SUBDIV: Ballard Woods JOB CATEGORY: Residential - Roof
	Watermark Homes Lot 119 Ballard Woods Lillington, NC	SPECIAL INSTRUCTIONS: Copied from Lot 6 Oak Haven - J01020-5007 (JB)	PLAN SEAL DATE:

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	aw	BY	DATE
Roof Order	END CUT	RETURN				LAYOUT	aw		07/06/21
	NO		GABLE STUDS	16 IN. OC	JOBSITE	1	CUTTING	aw	07/06/21

ROOF TRUSSES	LOADING INFORMATION	TCLL-TCDL-BCLL-BCDL	STRESS INCR.	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)
		20.0,10.0,0.0,10.0	1.15	

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	1	12.00	0.00	VALLEY VA-6	09-01-09 09-01-09	2 X 4	2 X 4			Joint 1 Joint 3 Joint 4 191.1 lbs. 191.1 lbs. 291.9 lbs. -25.1 lbs. -25.1 lbs. 11.8 lbs.
	1	12.00	0.00	VALLEY VA-7	06-03-09 06-03-09	2 X 4	2 X 4			Joint 1 Joint 3 Joint 4 136.2 lbs. 136.2 lbs. 174.9 lbs. -24.3 lbs. -24.3 lbs. 23.1 lbs.
	1	12.00	0.00	VALLEY VA-8	03-05-09 03-05-09	2 X 4	2 X 4			Joint 1 Joint 3 Joint 4 67.2 lbs. 67.2 lbs. 86.3 lbs. -12.0 lbs. -12.0 lbs. 11.4 lbs.
	1	6.00	0.00	VALLEY VC-1	26-10-10 26-10-10	2 X 4	2 X 4			Joint 1 Joint 7 Joint 8 Joint 9 Joint 11 168.3 lbs. 168.3 lbs. 410.2 lbs. 336.1 lbs. 399.6 lbs. -2.8 lbs. 6.2 lbs. -84.6 lbs. -69.5 lbs. 71.5 lbs.
	1	6.00	0.00	VALLEY VC-2	21-02-10 21-02-10	2 X 4	2 X 4			Joint 1 Joint 7 Joint 8 Joint 9 Joint 11 59.7 lbs. 51.7 lbs. 268.3 lbs. 350.5 lbs. 358.2 lbs. -3.1 lbs. 9.0 lbs. -54.5 lbs. -77.7 lbs. 52.6 lbs.
	1	6.00	0.00	VALLEY VC-3	15-06-10 15-06-10	2 X 4	2 X 4			Joint 1 Joint 5 Joint 6 Joint 7 Joint 8 102.5 lbs. 102.5 lbs. 338.9 lbs. 273.8 lbs. 338.9 lbs. -3.4 lbs. 2.2 lbs. -75.9 lbs. 32.1 lbs. -75.9 lbs.
	1	6.00	0.00	VALLEY VC-4	09-10-10 09-10-10	2 X 4	2 X 4			Joint 1 Joint 3 Joint 4 159.9 lbs. 159.9 lbs. 375.2 lbs. -21.1 lbs. -26.0 lbs. 0.3 lbs.
	1	6.00	0.00	VALLEY VC-5	04-02-10 04-02-10	2 X 4	2 X 4			Joint 1 Joint 3 119.3 lbs. 119.3 lbs. -7.2 lbs. -7.2 lbs.

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
4	Hangers, USP	JUS26			SIMPSON (LUS26)
2	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	07-00-00		DBL-28
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	25-00-00		GDH-1

Reaction Summary of Order



ROOF & FLOOR
TRUSSES & BEAMS

Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	ORDER #	J0721-4155
ORDER DATE	07/06/21	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
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COUNTY	Harnett	TERMS	Net 10 Days
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	SHIPP TO	Watermark Homes Lot 119 Ballard Woods Lillington, NC	DELIVERY INSTRUCTIONS:
SPECIAL INSTRUCTIONS: Copied from Lot 6 Oak Haven - J01020-5007 (JB)		PLAN SEAL DATE:	

BY DATE

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	aw	07/06/21
Roof Order	END CUT	RETURN				LAYOUT	aw	07/06/21
		NO	GABLE STUDS	16 IN. OC	JOBSITE 1	JOBSITE 1	CUTTING	aw 07/06/21

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	12-00-00		GDH-2
4	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	11-00-00		BM1 & BM2