



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

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

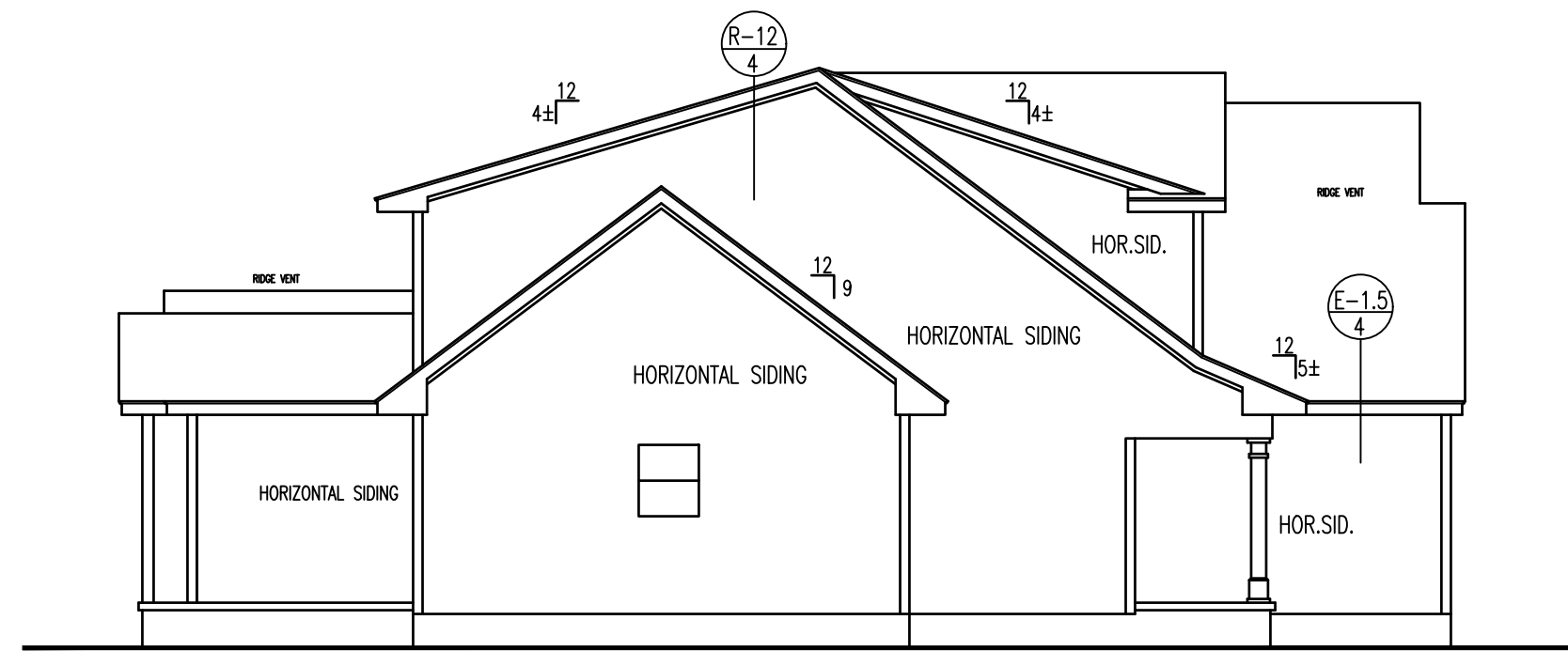
04/11/2023

[Signature]

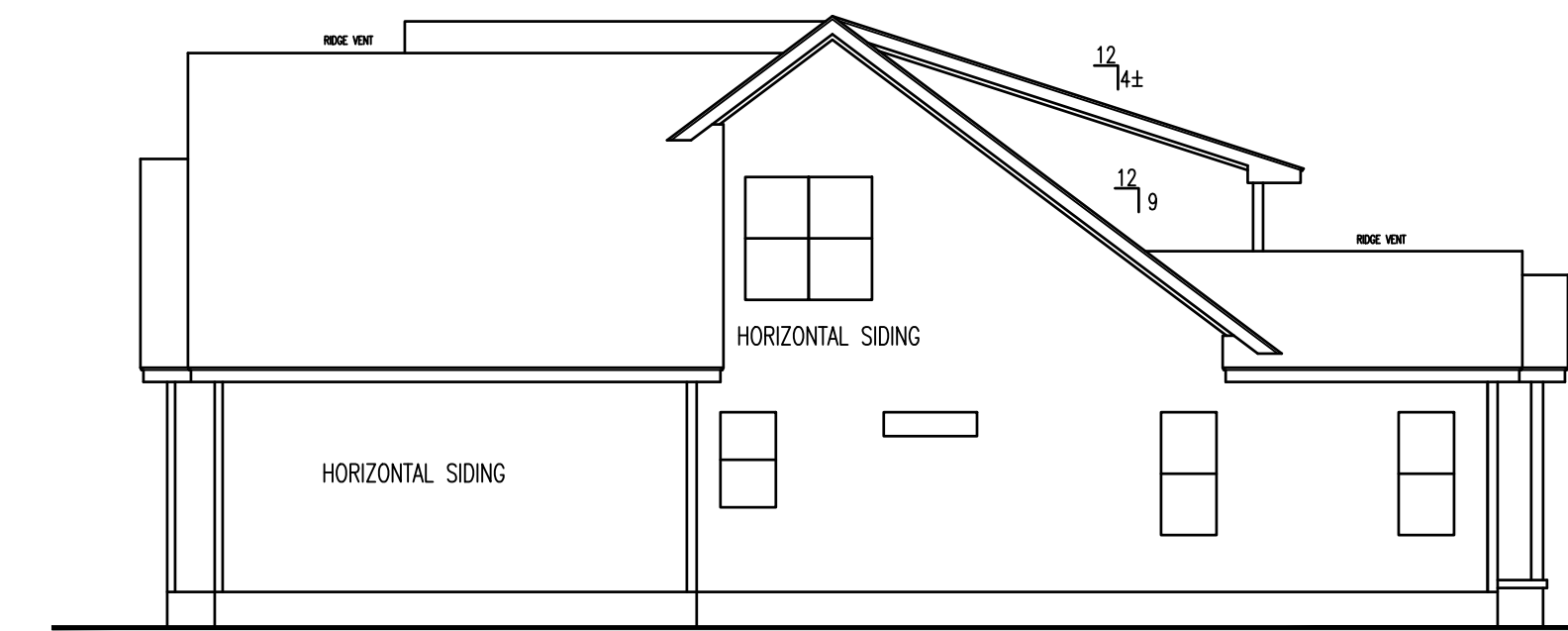
HARNETT COUNTY
NORTH CAROLINA

ATTIC VENTILATION CALCULATIONS

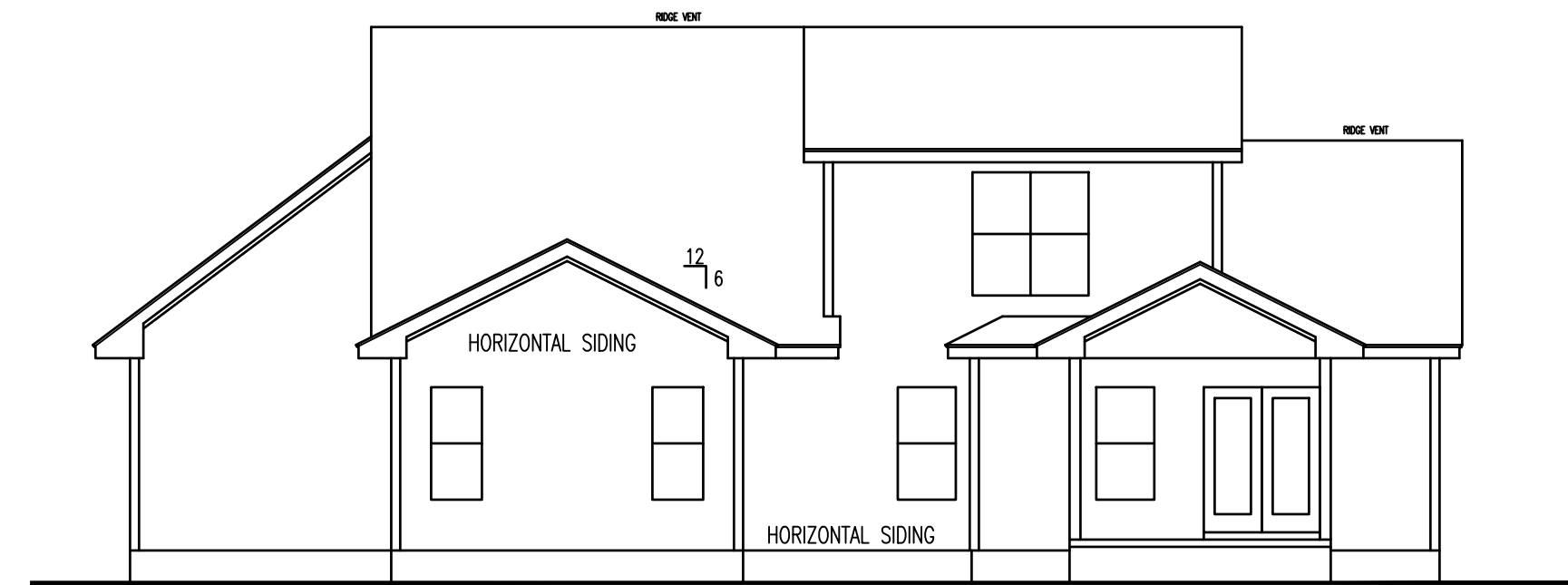
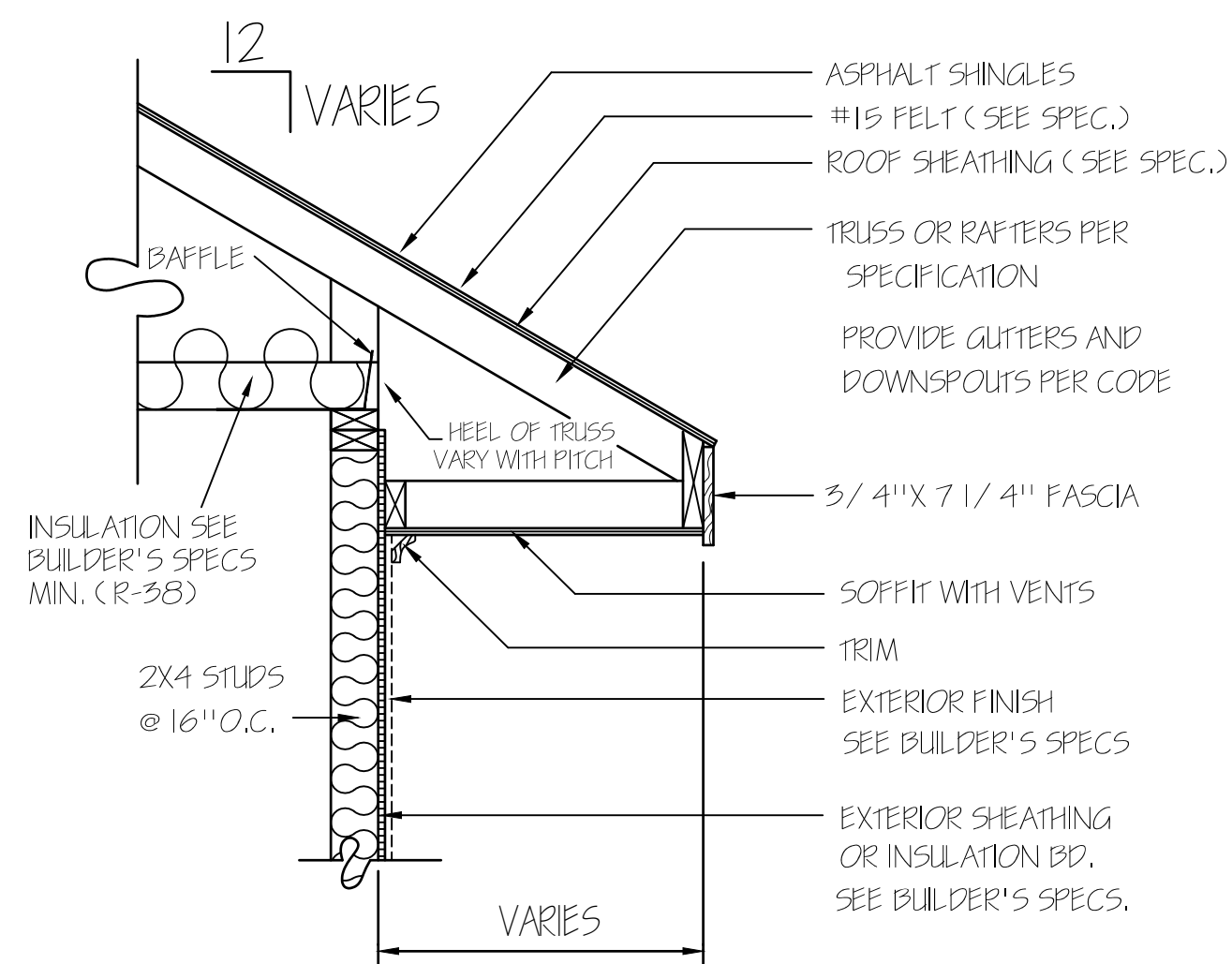
ATTIC AREA	2378 SQ.FT. (AREA VENTILATION REQUIRED 16.6 SQ.FT.)
? EACH ? FT. BASE GABLE LOUVER @ ?	SQ.FT. NET FREE AREA
? EACH ? FT. BASE GABLE LOUVER @ ?	SQ.FT. NET FREE AREA
? EACH ? FT. LOUVER @ ?	SQ.FT. NET FREE AREA
130 LIN.FT. EAVE VENT @ 11 SQ.IN./FT. =	3.9 SQ.FT. NET FREE AREA
102 LIN.FT. RIDGE VENT @ 18 SQ.IN./FT. =	12.8 SQ.FT. NET FREE AREA



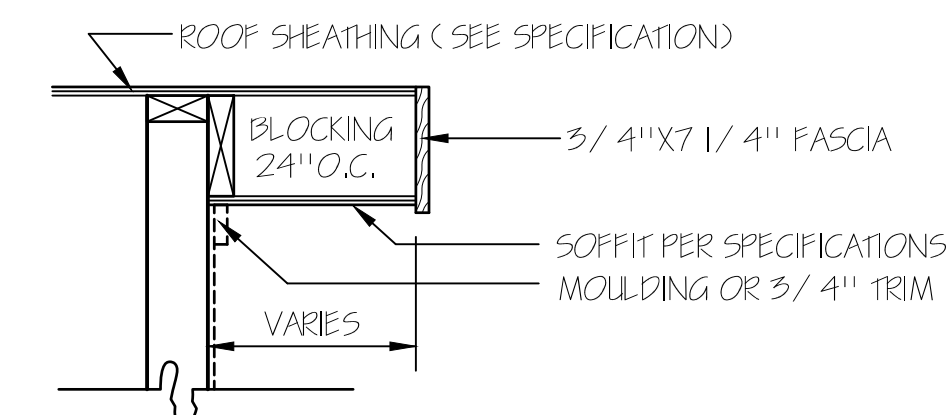
LEFT ELEVATION



RIGHT ELEVATION



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



RAKE DETAIL FOR GABLE ENDS

T M DESIGNS
RESIDENTIAL PLANS BY TINA MCFADDEN
(910) 354-4736 TMDDESIGNS2016@GMAIL.COM

WATERMARK HOMES
EXCLUSIVE RESIDENCE DESIGN FOR:
NAME: THE GINKGO III
LOT: 90 SOUTH CREEK

© 2016 COPYRIGHT ALL RIGHTS RESERVED

T M DESIGNS WILL NOT BE LIABLE FOR ANY ERRORS NOT BROUGHT TO THEIR ATTENTION PRIOR TO THE START OF CONSTRUCTION. WHILE EVERY EFFORT WAS MADE IN THE PREPARATION OF THESE DRAWINGS AND DIMENSIONS TO AVOID ERRORS THE OWNER AND / OR BUILDER SHALL VERIFY ALL DIMENSIONS DETAILS, LOCAL AND STATE CODES.

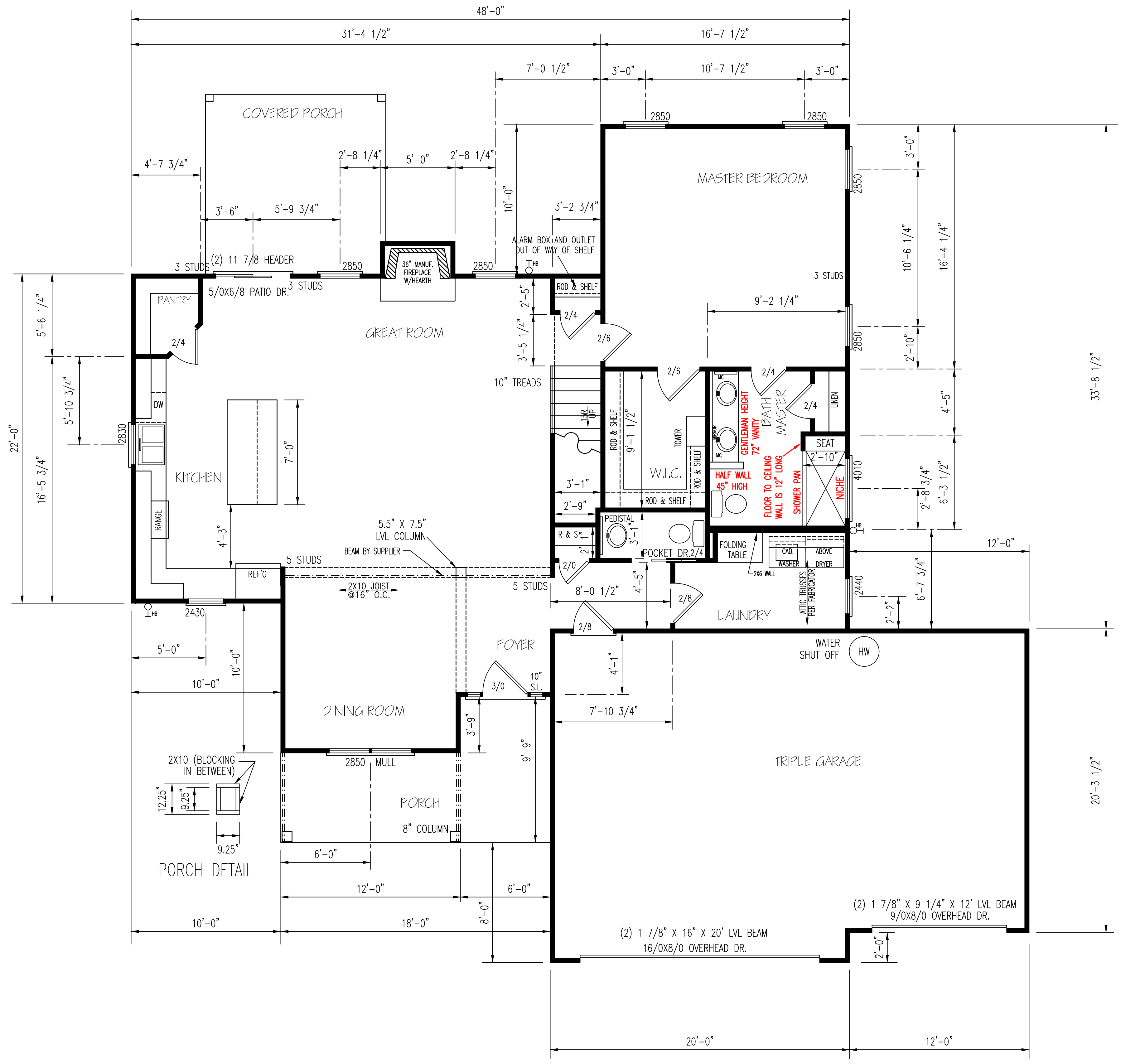
I HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2012 INTERNATIONAL BUILDING CODES

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

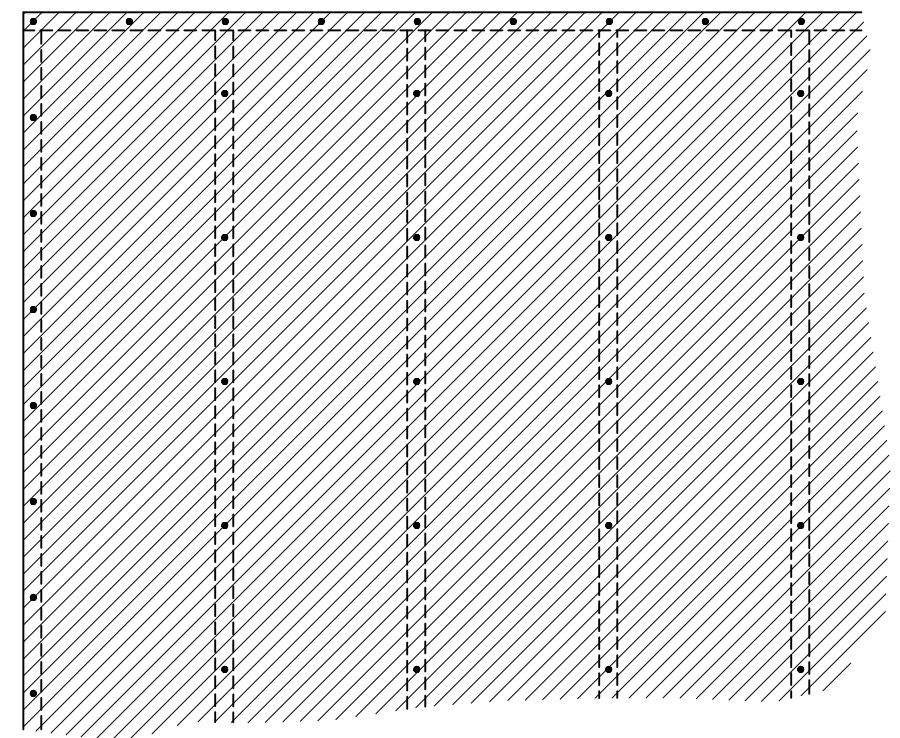
PLAN NUMBER
BQ22-B19

OPTION #6

1	GARAGE	R	F
	DATE:	3/15/23	



BRACING METHOD

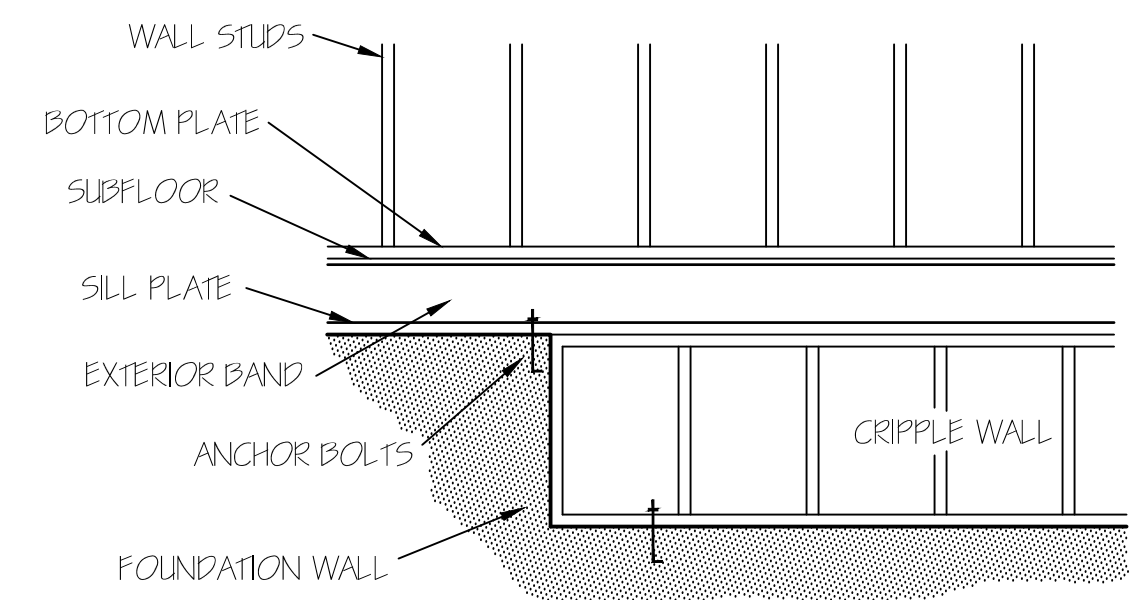


EXTERIOR WALL TO BE FULLY SHEATHED WITH 7/16" OSB. NAILING PATTERN TO BE 8" ON ALL EDGES AND 12" IN FIELD, WITH 8d NAILS.

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

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.



FOUNDATION CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT SMALLER THAN THE STUDDING 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 R602.3(1), OR CRIPPLE WALLS SHALL BE CONSTRUCTED OF SOLID BLOCKING.

NOTE:
 CEILINGS ARE 9'-0"
 UNLESS NOTED.
 SET WINDOWS @ 7'-4"
 UNLESS NOTED.

EXTERIOR WALLS (2) 2X10 HEADERS		
CLEAR SPAN FOR HEADER	NUMBER OF STUDS	
	JACKS	KINGS
ALL DOOR & C.O. BELOW 4'	1	1
ALL DOOR & C.O. 4' TO 7'-11"	2	2
ALL DOOR & C.O. 8' AND ABOVE	SIZED BY ENGINEER	

UNLESS NOTED OTHER WISE

FIRST FLOOR PLAN

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

HEATED AREA	
1ST FL	1421 SQ FT
2ND FL	910 SQ FT
TOTAL	2331 SQ FT

OTHER AREAS	
GARAGE	683 SQ FT
F.PORCH	131 SQ FT
R.PORCH	143 SQ FT
TOTAL	957 SQ FT

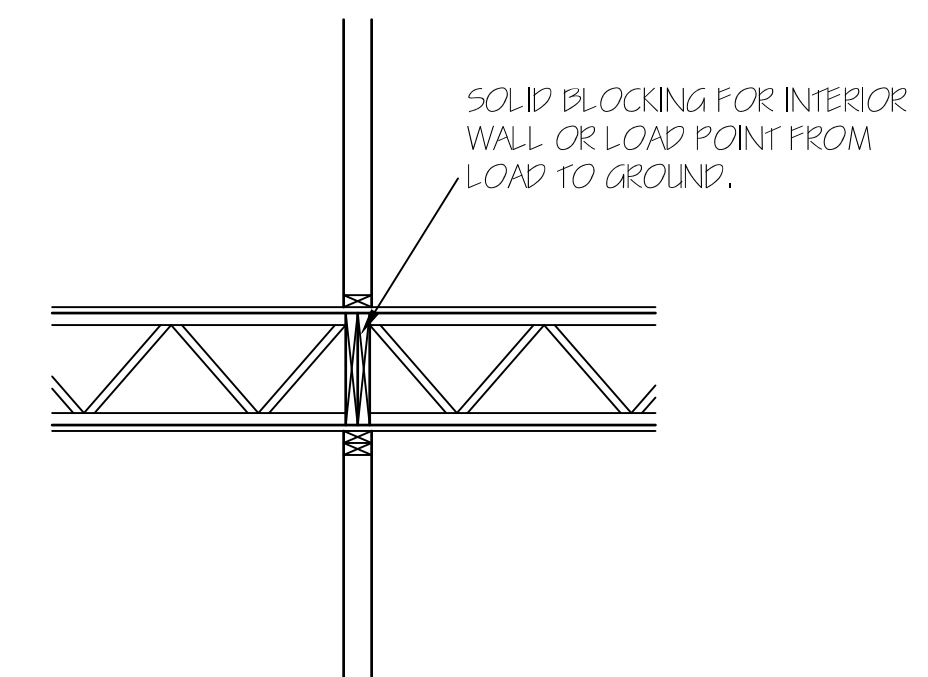
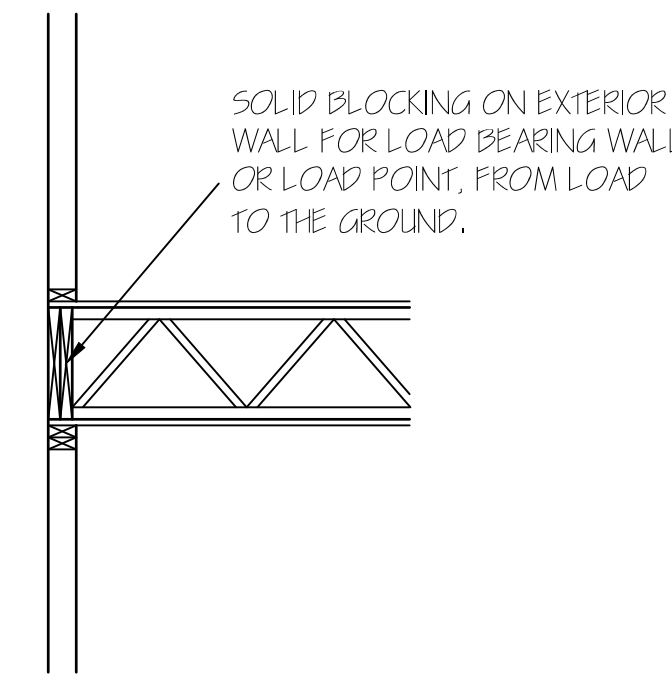
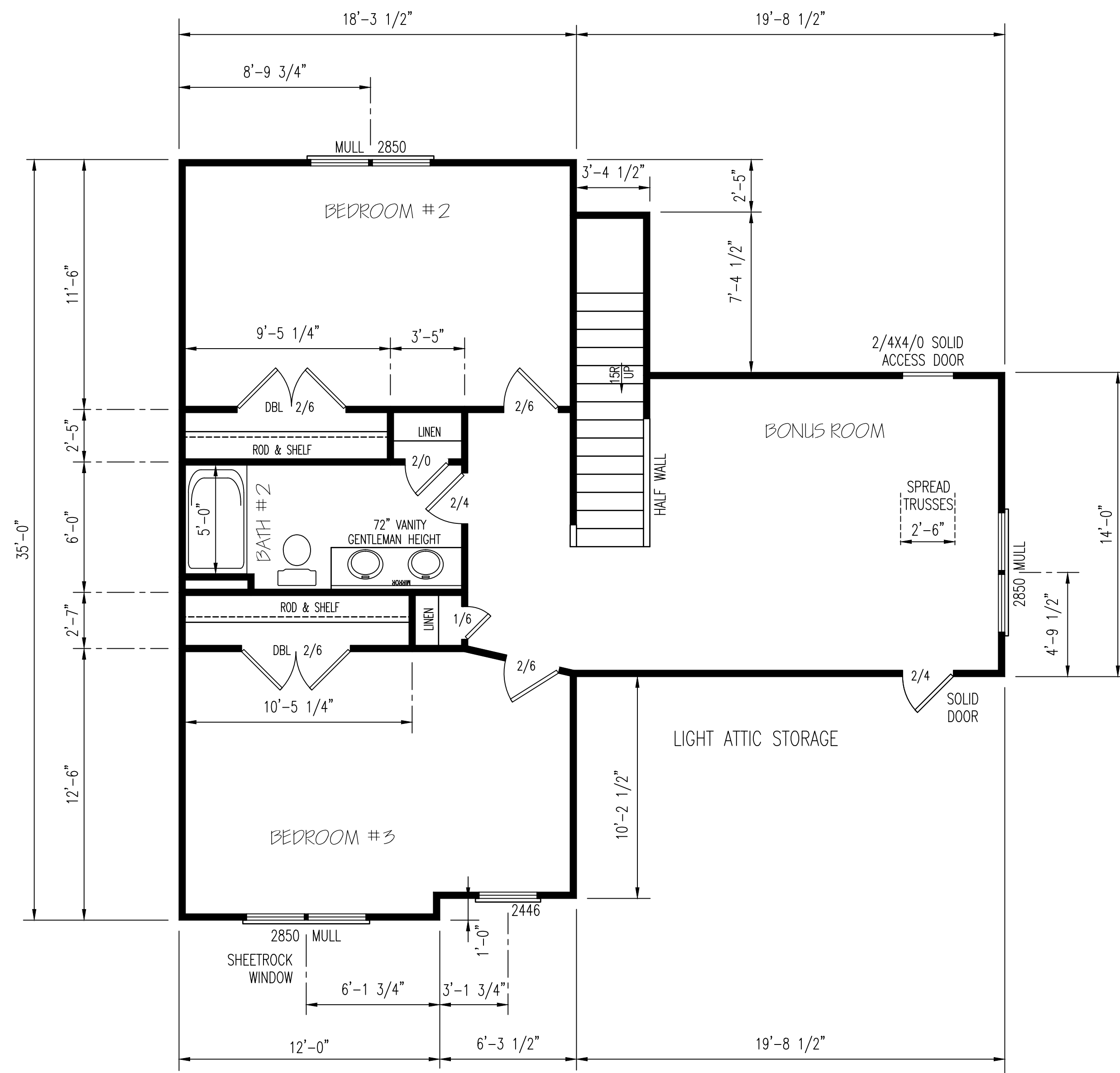
T M DESIGNS
 RESIDENTIAL PLANS BY TINA MCFADDEN
 (910) 354-4736 TMDDESIGNS2016@GMAIL.COM

EXCLUSIVE RESIDENCE DESIGN FOR:
WATERMARK HOMES
 NAME: THE GINKGO
 LOT: 90 SOUTH CREEK

© 2016. COPYRIGHT ALL RIGHTS RESERVED
 T M DESIGNS WILL NOT BE LIABLE FOR ANY ERRORS NOT BROUGHT TO THEIR ATTENTION PRIOR TO THE START OF CONSTRUCTION. WHILE EVERY EFFORT WAS MADE IN THE PREPARATION OF THESE DRAWINGS AND DIMENSIONS TO AVOID ERRORS THE OWNER AND/OR BUILDER SHALL VERIFY ALL DIMENSIONS, DETAILS, LOCAL AND STATE CODES. 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
 BG22-B19
 OPTION #6

DATE:	3/15/23
-------	---------



EXTERIOR WALLS (2) 2X10 HEADERS		
CLEAR SPAN FOR HEADER	NUMBER OF STUDS	
	JACKS	KINGS
ALL DOOR & C.O. BELOW 4'	1	1
ALL DOOR & C.O. 4' TO 7'-11"	2	2
ALL DOOR & C.O. 8' AND ABOVE	SIZED BY ENGINEER	

UNLESS NOTED OTHERWISE

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

© 2016. COPYRIGHT ALL RIGHTS RESERVED

T M DESIGNS WILL NOT BE LIABLE FOR ANY ERRORS NOT BROUGHT TO THEIR ATTENTION PRIOR TO THE START OF CONSTRUCTION. WHILE EVERY EFFORT WAS MADE IN THE PREPARATION OF THESE DRAWINGS AND DIMENSIONS TO AVOID ERRORS THE OWNER AND/OR BUILDER SHALL VERIFY ALL DIMENSIONS, DETAILS, LOCAL AND STATE CODES.

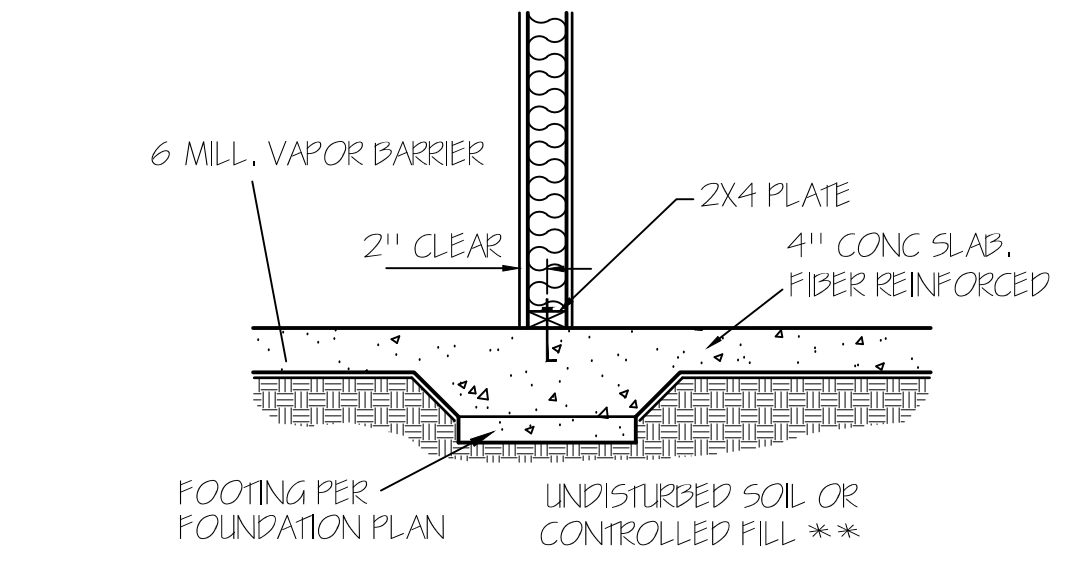
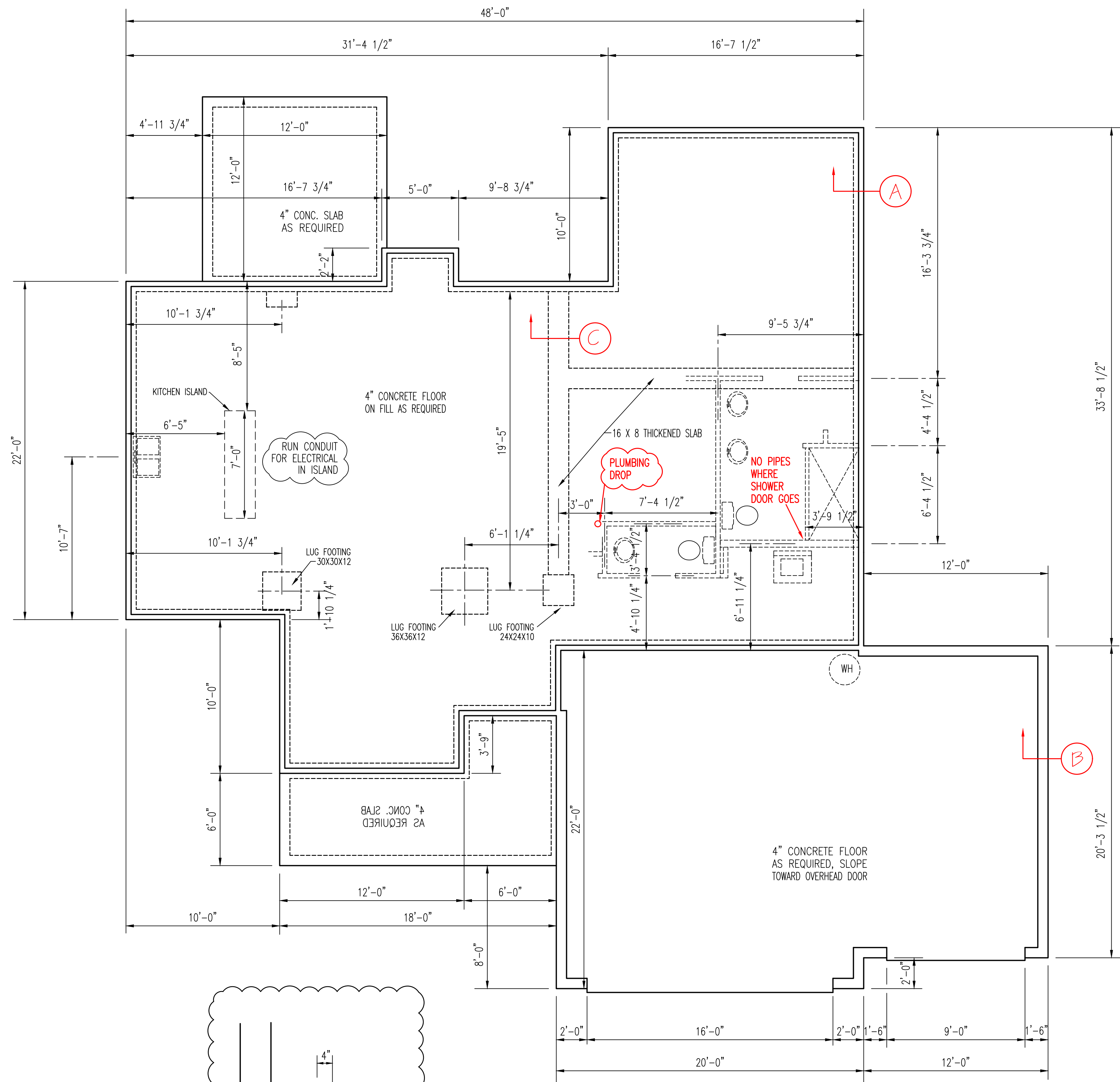
I HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2012 INTERNATIONAL BUILDING CODES

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

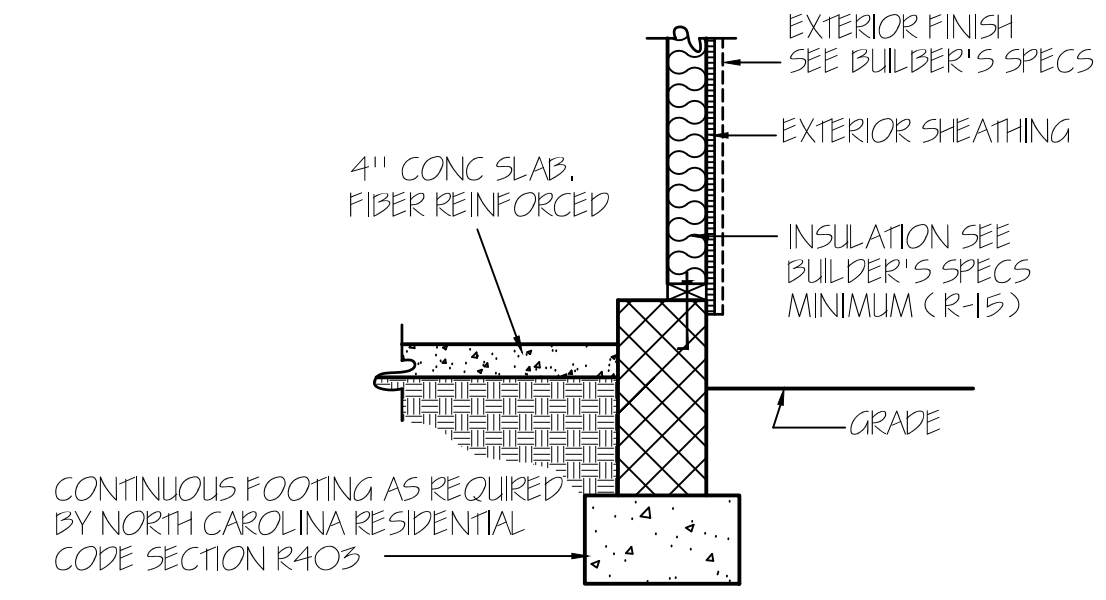
PLAN NUMBER
BG22-B19

OPTION #6

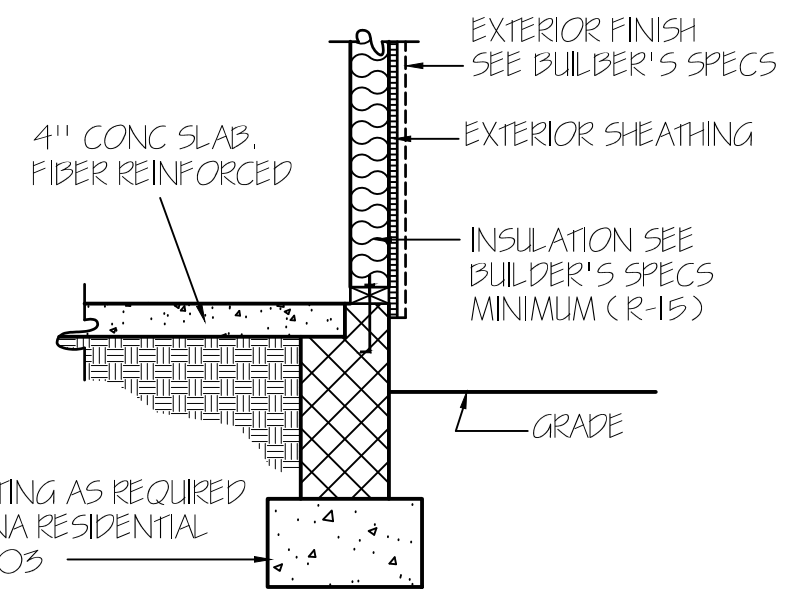
2 _B	GARAGE	R	F
	DATE:	3/15/23	



LOAD BEARING WALL THICKENED SLAB — (C)



GARAGE WALL — (B)



CONCRETE SLAB FLOOR — (A)

ALL FOOTINGS ARE 16" X 8" UNLESS NOTED OTHERWISE.

ALL FOUNDATION WALLS HAVE A 16" X 8" FOOTING UNLESS NOTED OTHERWISE.

NOTE: FOUNDATION DETAILS SHOWN ARE BASED ON ASSUMED SOIL BEARING CAPACITY OF 2000 PSF. LOCAL SITE CONDITIONS MUST BE INVESTIGATED. ALL FOOTING TO BE LOCATED BELOW FROST DEPTH.

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



ROOF & FLOOR TRUSSES & BEAMS

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

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 15000#. 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 15000#.

Signature
Anthony Williams

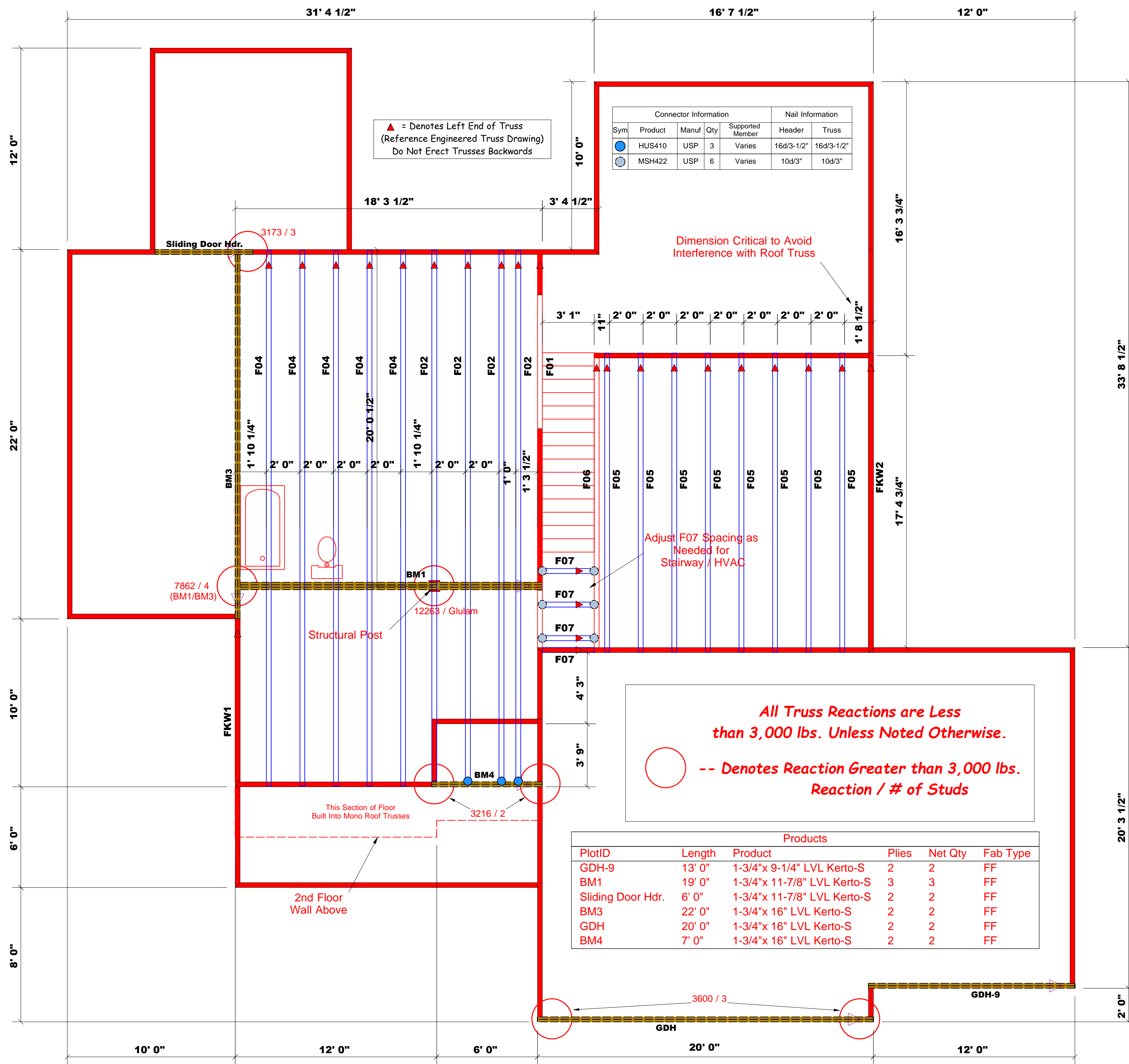
LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (1) 1/2" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1/2" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1/2" HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Watermark Homes	COUNTY	Harnett
JOB NAME	Lot 90 South Creek	ADDRESS	Lot 90 South Creek
PLAN	The Ginkgo	MODEL	Floor
SEAL DATE	Plan Date: 3/15/23	DATE REV.	4/4/23
QUOTE #		DRAWN BY	Anthony Williams
JOB #	JO423-1518	SALESMAN	Anthony Williams

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, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



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



ROOF & FLOOR TRUSSES & BEAMS

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

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 15000#. 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 15000#.

Signature
Anthony Williams

LOAD CHART FOR JACK STUDS

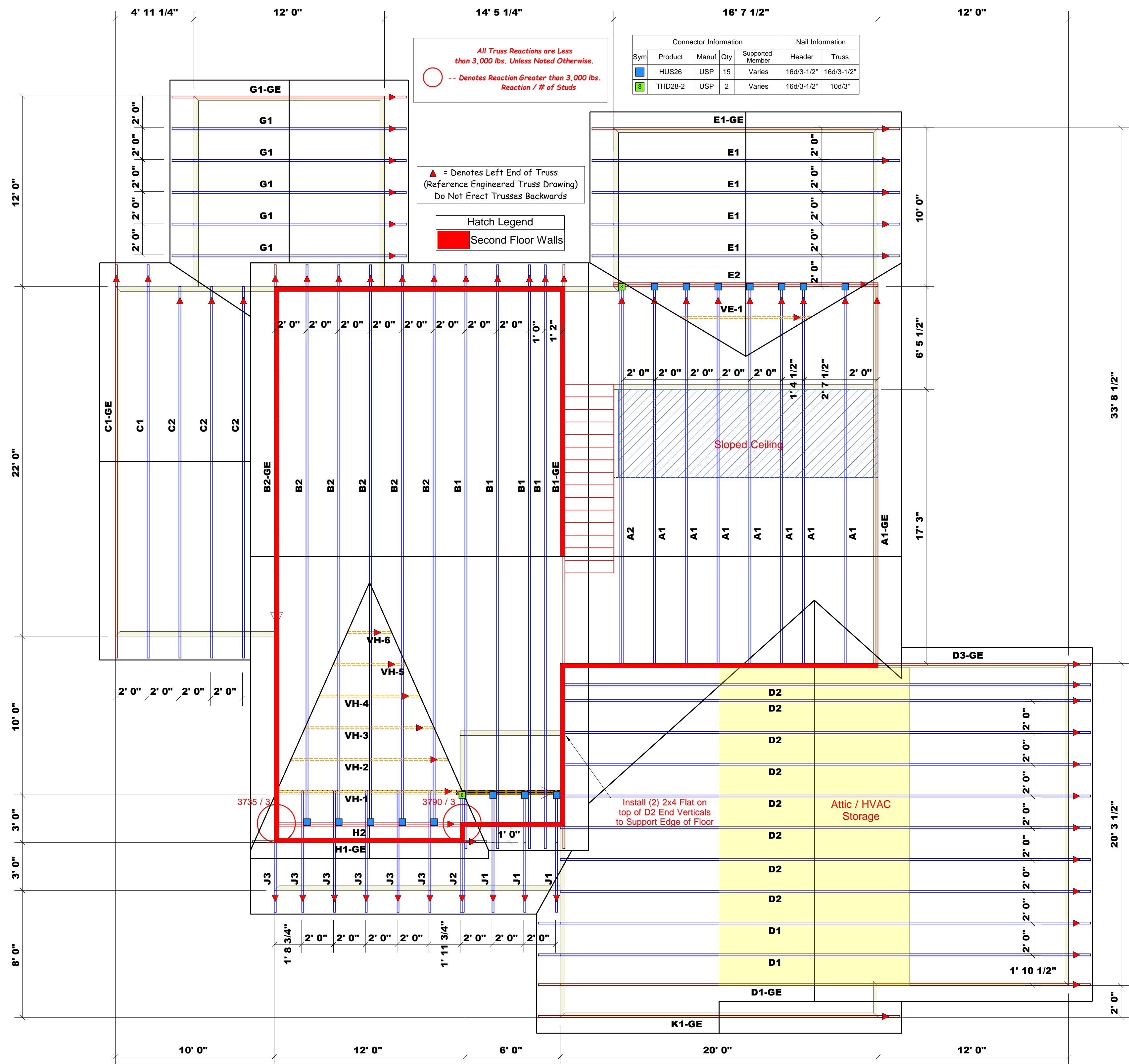
(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ. STUDS FOR (1) 1" X 4" HEADER	END REACTION (UP TO)	REQ. STUDS FOR (1) 1" X 4" HEADER	END REACTION (UP TO)	REQ. STUDS FOR (1) 1" X 4" HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	COUNTY	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALESMAN
Watermark Homes	Harnett	Lot 90 South Creek / Lillington, NC	Roof	4/4/23	Anthony Williams	Anthony Williams
		Lot 90 South Creek				
		The Ginkgo		3/15/23		
						JO423-1517

BUILDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #
	Lot 90 South Creek		3/15/23		

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, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

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

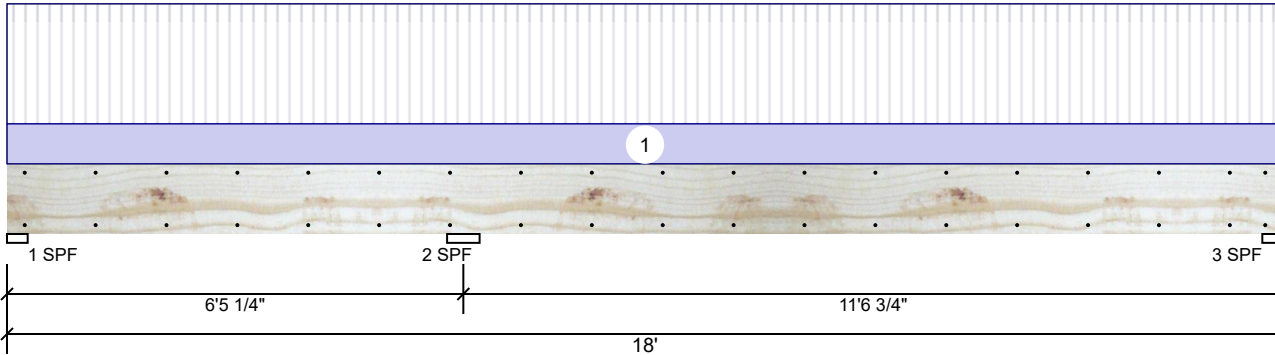
Hatch Legend
Second Floor Walls

Connector Information				Nail Information		
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
■	HUS26	USP	15	Varies	16d/3-1/2"	16d/3-1/2"
■	THD28-2	USP	2	Varies	16d/3-1/2"	10d/3"

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

BM1 Kerto-S LVL 1.750" X 11.875" 3-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof
Plies:	3	Slope:	0/12
Moisture Condition:	Dry	Design Method:	ASD
Deflection LL:	480	Building Code:	IBC 2012
Deflection TL:	360	Load Sharing:	Yes
Importance:	Normal - II	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1162	409	0	0	0
2	Vertical	8927	3140	0	0	0
3	Vertical	3771	1326	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	35%	376 / 2355	2731 (-734)	L_	D+L(D+L)
2 - SPF	5.500"	Vert	100%	3191 / 9072	12263	LL	D+L
3 - SPF	3.500"	Vert	66%	1308 / 3835	5143	_L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-12572 ft-lb	6'5 1/4"	31060 ft-lb	0.405 (40%)	D+L	LL
Unbraced	-12572 ft-lb	6'5 1/4"	12575 ft-lb	1.000 (100%)	D+L	LL
Pos Moment	11556 ft-lb	13' 11/16"	31060 ft-lb	0.372 (37%)	D+L	_L
Unbraced	11556 ft-lb	13' 11/16"	11563 ft-lb	0.999 (100%)	D+L	_L
Shear	5753 lb	7'7 7/8"	13300 lb	0.433 (43%)	D+L	LL
LL Defl inch	0.148 (L/920)	12'5 1/2"	0.283 (L/480)	0.522 (52%)	L	_L
TL Defl inch	0.196 (L/695)	12'5 13/16"	0.378 (L/360)	0.518 (52%)	D+L	_L

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 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- Refer to last page of calculations for fasteners required for specified loads.
- Girders are designed to be supported on the bottom edge only.
- Top loads must be supported equally by all plies.
- Tie-down connection required at bearing 1 for uplift 734 lb (Combination D+L, Load Case _L).
- Top must be laterally braced at a maximum of 12'7 5/16" o.c.
- Bottom must be laterally braced at a maximum of 11'4 11/16" o.c.
- Lateral slenderness ratio based on single ply width.

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

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

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

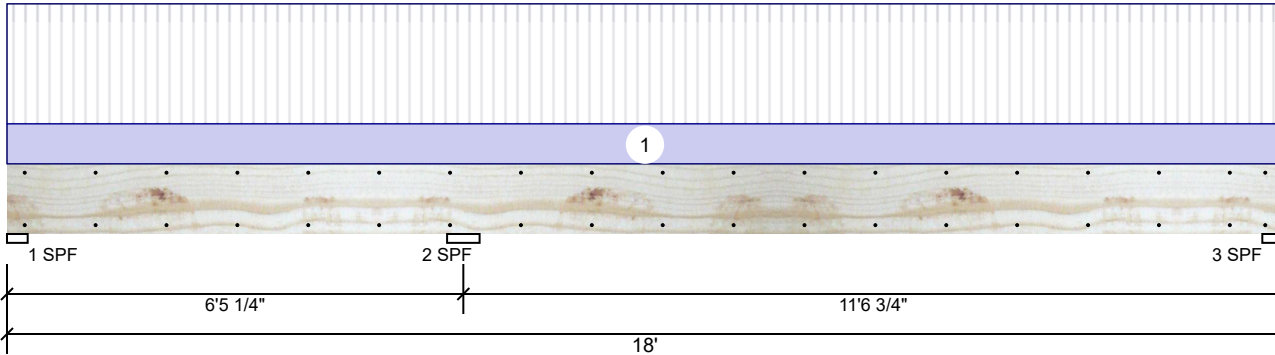
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



BM1 Kerto-S LVL 1.750" X 11.875" 3-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 Self Weight			Top	257 PLF 14 PLF	770 PLF	0 PLF	0 PLF	0 PLF	F04

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

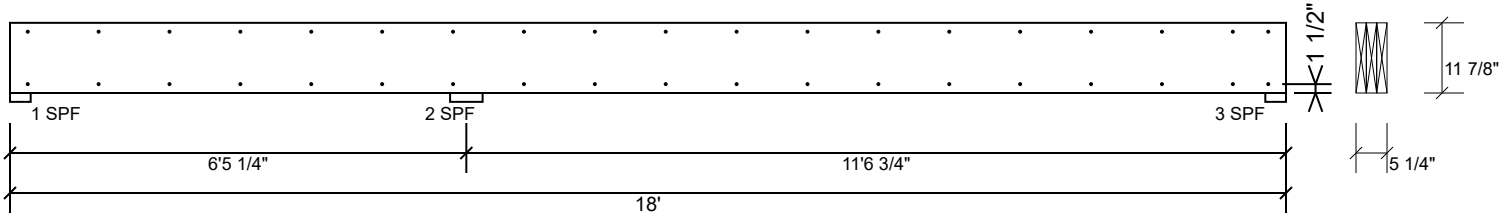
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



BM1 Kerto-S LVL 1.750" X 11.875" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. 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 11/3/2024

Manufacturer Info

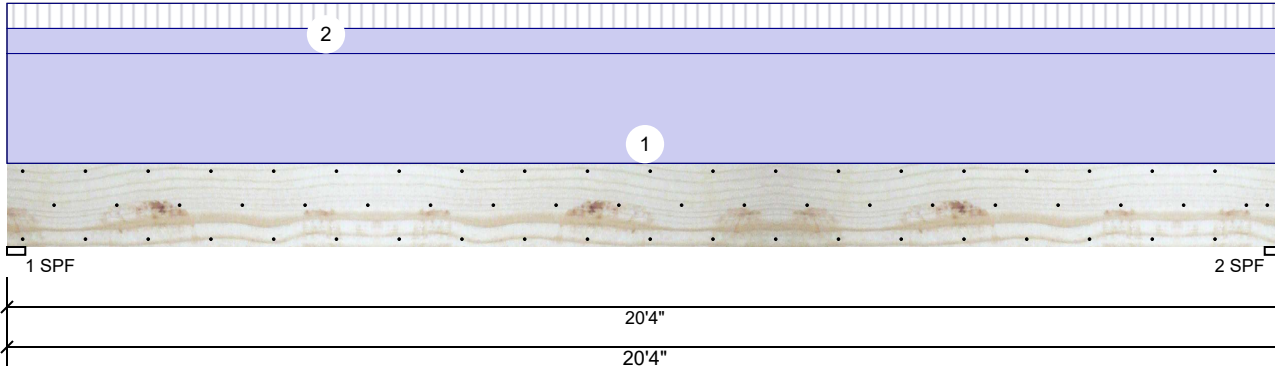
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



BM3 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Roof
Slope:	0/12
Design Method:	ASD
Building Code:	IBC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	407	2312	0	0	0
2	Vertical	407	2312	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	52%	2312 / 407	2719	L	D+L
2 - SPF	3.500"	Vert	52%	2312 / 407	2719	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13233 ft-lb	10'2"	34565 ft-lb	0.383 (38%)	D+L	L
Unbraced	13233 ft-lb	10'2"	13276 ft-lb	0.997 (100%)	D+L	L
Shear	2301 lb	1'7 1/2"	11947 lb	0.193 (19%)	D+L	L
LL Defl inch	0.063 (L/3784)	10'2 1/16"	0.497 (L/480)	0.127 (13%)	L	L
TL Defl inch	0.422 (L/566)	10'2 1/16"	0.663 (L/360)	0.636 (64%)	D+L	L

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 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- Refer to last page of calculations for fasteners required for specified loads.
- 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 8'11 1/4" 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			Top	175 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Uniform			Top	40 PLF	40 PLF	0 PLF	0 PLF	0 PLF	ROOF
	Self Weight				12 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 chemicals

chemicals

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

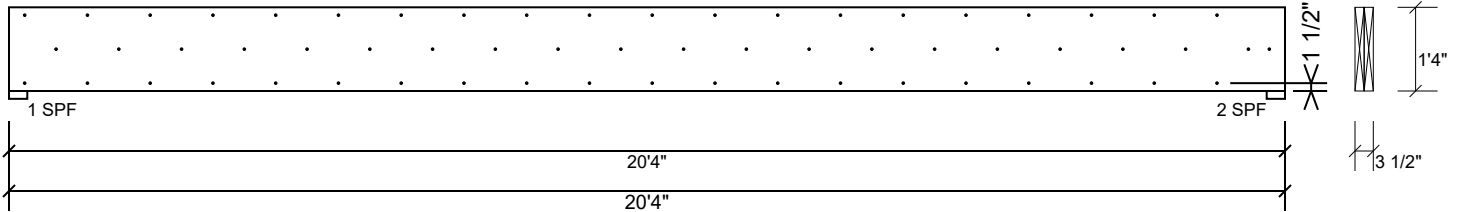
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



BM3 Kerto-S 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	245.6 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 11/3/2024

Manufacturer Info

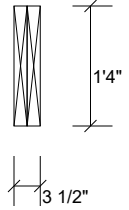
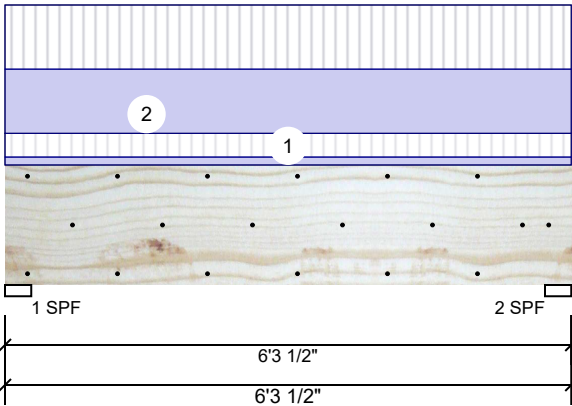
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



BM4 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	ASD
Deflection LL:	480	Building Code:	IBC 2012
Deflection TL:	360	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1746	1471	0	0	0
2	Vertical	1746	1471	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	62%	1471 / 1746	3216	L	D+L
2 - SPF	3.500"	Vert	62%	1471 / 1746	3216	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4380 ft-lb	3'1 3/4"	34565 ft-lb	0.127 (13%)	D+L	L
Unbraced	4380 ft-lb	3'1 3/4"	19678 ft-lb	0.223 (22%)	D+L	L
Shear	1572 lb	1'7 1/2"	11947 lb	0.132 (13%)	D+L	L
LL Defl inch	0.011 (L/6369)	3'1 3/4"	0.146 (L/480)	0.075 (8%)	L	L
TL Defl inch	0.020 (L/3457)	3'1 3/4"	0.195 (L/360)	0.104 (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 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	50 PLF	150 PLF	0 PLF	0 PLF	0 PLF	FLOOR
2	Uniform			Top	405 PLF	405 PLF	0 PLF	0 PLF	0 PLF	J1
	Self Weight				12 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 11/3/2024

Manufacturer Info

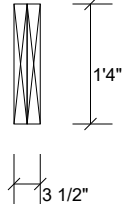
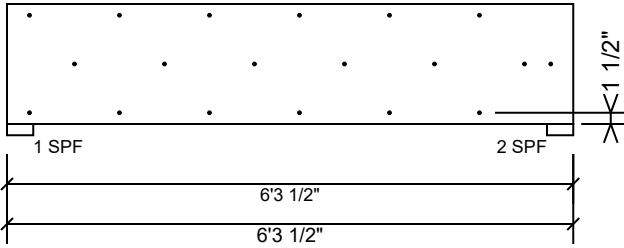
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



BM4 Kerto-S 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	245.6 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 11/3/2024

Manufacturer Info

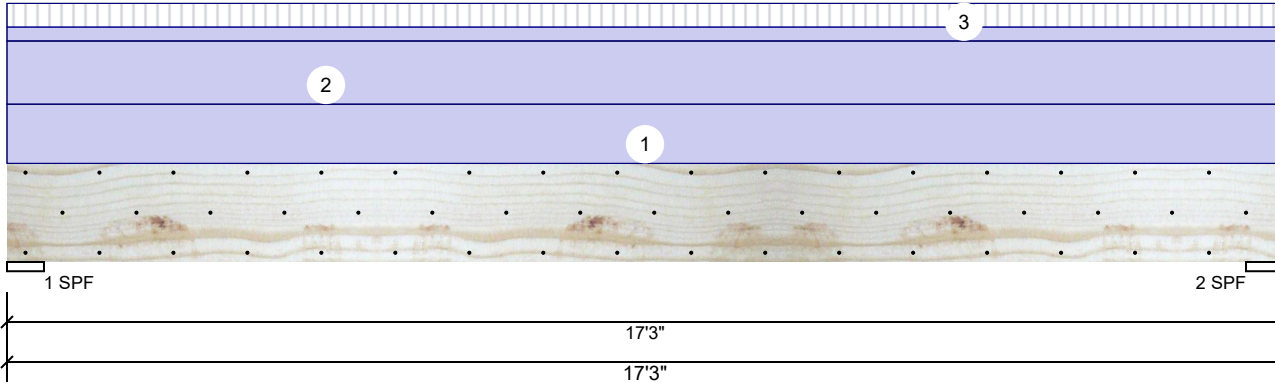
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



GDH Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	600
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Roof
Slope:	0/12
Design Method:	ASD
Building Code:	IBC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	518	3083	0	0	0
2	Vertical	518	3083	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.000"	Vert	40%	3083 / 518	3600	L	D+L
2 - SPF	6.000"	Vert	40%	3083 / 518	3600	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14027 ft-lb	8'7 1/2"	34565 ft-lb	0.406 (41%)	D+L	L
Unbraced	14027 ft-lb	8'7 1/2"	14050 ft-lb	0.998 (100%)	D+L	L
Shear	2852 lb	1'10"	11947 lb	0.239 (24%)	D+L	L
LL Defl inch	0.045 (L/4374)	8'7 9/16"	0.410 (L/480)	0.110 (11%)	L	L
TL Defl inch	0.313 (L/629)	8'7 9/16"	0.328 (L/600)	0.954 (95%)	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 loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 8'5 1/16" 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	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Uniform			Top	160 PLF	0 PLF	0 PLF	0 PLF	0 PLF	BRICK
3	Uniform			Top	35 PLF	60 PLF	0 PLF	0 PLF	0 PLF	Roof/Floor
	Self Weight				12 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

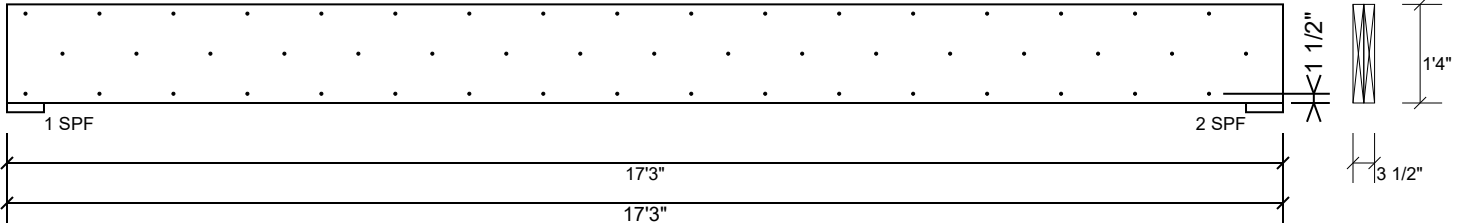
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



GDH Kerto-S 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	245.6 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 11/3/2024

Manufacturer Info

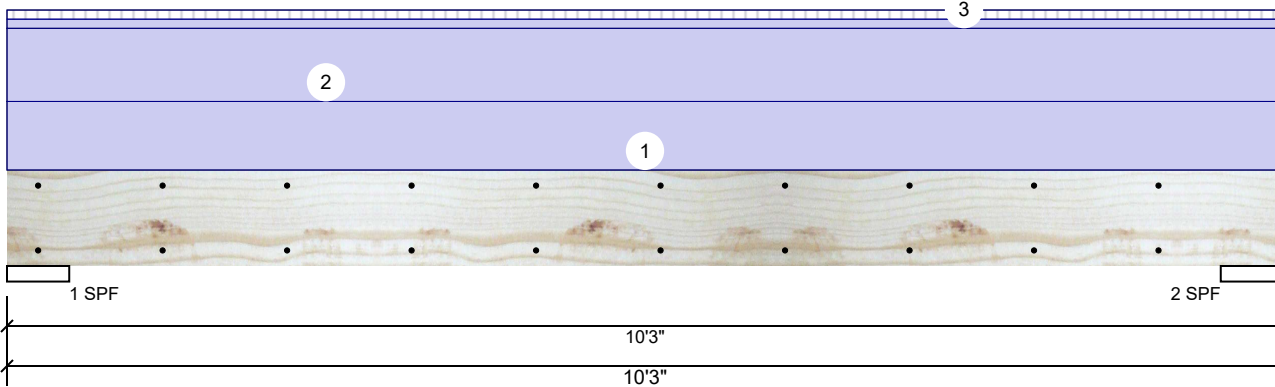
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



GDH-9 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	ASD
Deflection LL:	480	Building Code:	IBC 2012
Deflection TL:	600	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	103	1728	0	0	0
2	Vertical	103	1728	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.000"	Vert	21%	1728 / 103	1831	L	D+L
2 - SPF	6.000"	Vert	21%	1728 / 103	1831	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3705 ft-lb	5'1 1/2"	11288 ft-lb	0.328 (33%)	D	Uniform
Unbraced	3924 ft-lb	5'1 1/2"	7663 ft-lb	0.512 (51%)	D+L	L
Shear	1305 lb	8'11 3/4"	6216 lb	0.210 (21%)	D	Uniform
LL Defl inch (L/13536)	0.008	5'1 1/2"	0.234 (L/480)	0.035 (4%)	L	L
TL Defl inch	0.148 (L/758)	5'1 1/2"	0.188 (L/600)	0.792 (79%)	D+L	L

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 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- Refer to last page of calculations for fasteners required for specified loads.
- 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 end bearings.
- 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			Top	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Uniform			Top	160 PLF	0 PLF	0 PLF	0 PLF	0 PLF	BRICK
3	Uniform			Top	20 PLF	20 PLF	0 PLF	0 PLF	0 PLF	Roof
	Self Weight				7 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

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

chemicals

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

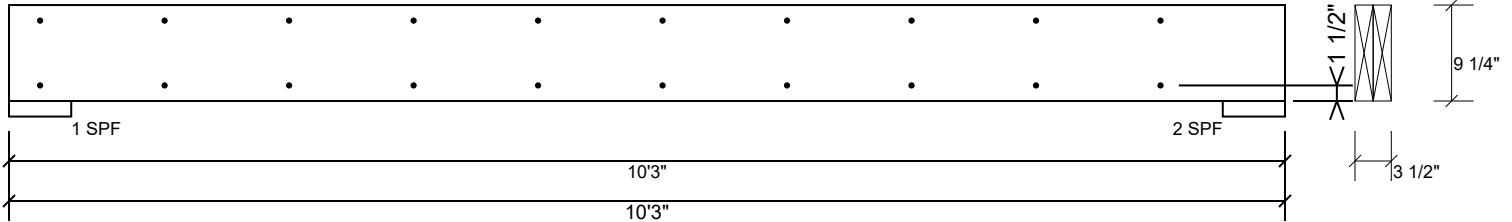
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



GDH-9 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.

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

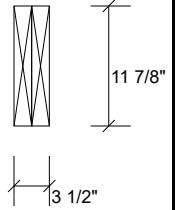
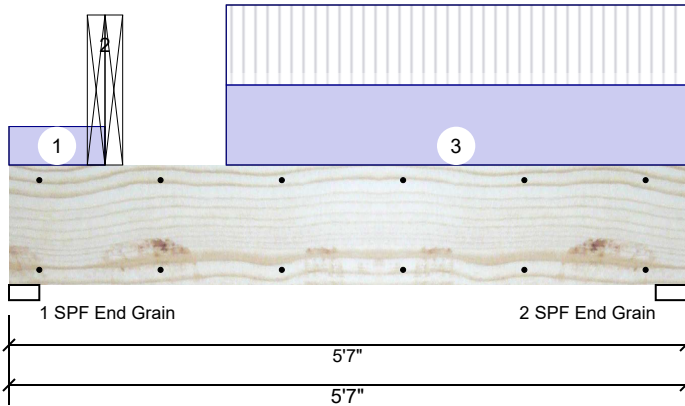
Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



Sliding Door Header 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 2012
Deflection LL:	360	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	684	2489	0	0	0
2	Vertical	709	960	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	36%	2489 / 684	3173	L	D+L
2 - SPF End Grain	3.000"	Vert	19%	960 / 709	1669	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2327 ft-lb	2'5 3/16"	19911 ft-lb	0.117 (12%)	D+L	L
Unbraced	2327 ft-lb	2'5 3/16"	15061 ft-lb	0.155 (15%)	D+L	L
Shear	1840 lb	1'2 7/8"	8867 lb	0.208 (21%)	D+L	L
LL Defl inch	0.007 (L/9597)	2'9 7/8"	0.174 (L/360)	0.038 (4%)	L	L
TL Defl inch	0.018 (L/3391)	2'7 1/2"	0.260 (L/240)	0.071 (7%)	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 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	Part. Uniform	0-0-0 to 0-9-8		Top	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load
2	Point	0-9-8		Top	2312 lb	407 lb	0 lb	0 lb	0 lb	BM3 Brg 1
	Bearing Length	0-3-8								
3	Part. Uniform	1-9-8 to 5-7-0		Top	260 PLF	260 PLF	0 PLF	0 PLF	0 PLF	C2
	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

Manufacturer Info

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

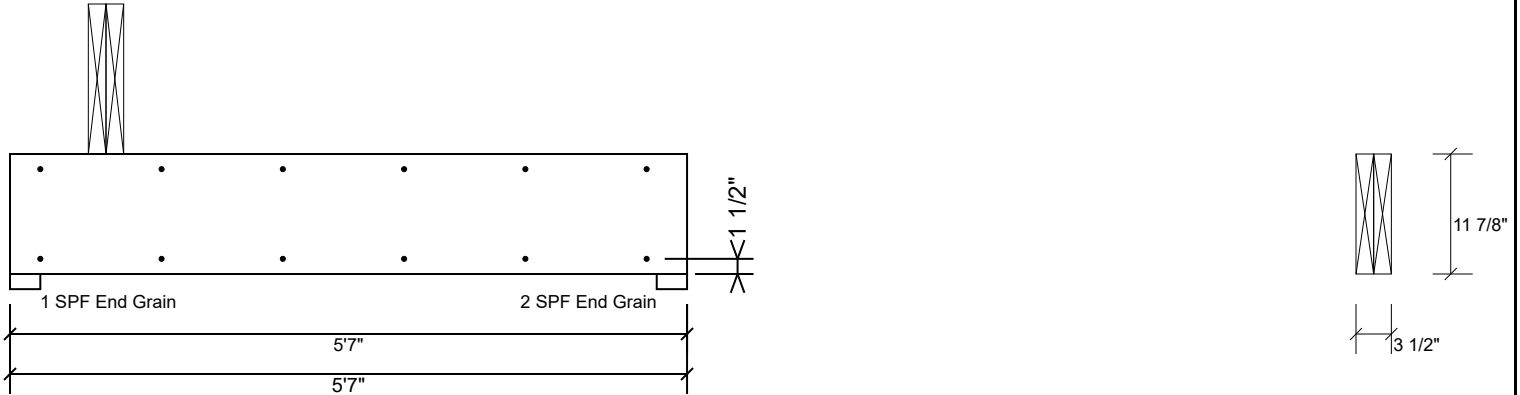
Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



This design is valid until 11/3/2024

Sliding Door Header 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 11/3/2024

Manufacturer Info

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

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



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 #	J0423-1517
ORDER DATE	04/04/23	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Brady Rufenacht	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Josh Thompson	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 988-3421	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annette Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 90 South Creek MODEL: Roof DELIVERY INSTRUCTIONS:	LOT # 90 SUBDIV: South Creek TAG: The Ginkgo III JOB CATEGORY:
	Watermark Homes Lot 90 South Creek Benson, NC	SPECIAL INSTRUCTIONS: Copied from Lot 50 SB (J0822-3932)	PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /
Roof Order	END CUT	RETURN				LAYOUT	/ /
	PLUMB	GABLE STUDS	24 IN. OC	JOBSITE	1	CUTTING	/ /

ROOF TRUSSES **LOADING INFORMATION** **ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)**

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
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	
	7	10.00	0.00	ROOF A1	24-00-00 24-00-00	2 X 6	2 X 6			Joint 1 Joint 7 Joint 9 376.7 lbs. 725.5 lbs. 1531.1 lbs. -255.4 lbs. -29.5 lbs. -539.1 lbs.
	1	10.00	0.00	GABLE A1-GE	24-00-00 24-00-00	2 X 6	2 X 6			Joint 1 Joint 6 Joint 13 Joint 14 Joint 15 917.9 lbs. 355.9 lbs. 118.3 lbs. 262.0 lbs. 161.7 lbs. -545.8 lbs. -198.5 lbs. 6.4 lbs. -162.6 lbs. -87.1 lbs.
	1 2 Ply	10.00	0.00	ROOF A2	24-00-00 24-00-00	2 X 6	2 X 6			Joint 1 Joint 7 Joint 9 645.8 lbs. 1243.8 lbs. 2624.8 lbs. -437.9 lbs. -50.6 lbs. -924.2 lbs.
	4	4.00	0.00	COMMON B1	34-00-00 34-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 Joint 8 1426.1 lbs. 1426.1 lbs. -153.5 lbs. -153.5 lbs.
	1	4.00	0.00	COMMON B1-GE	34-00-00 34-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 Joint 20 Joint 22 Joint 23 Joint 24 187.9 lbs. 187.9 lbs. 220.6 lbs. 140.2 lbs. 164.3 lbs. -67.0 lbs. -81.8 lbs. -73.9 lbs. -55.0 lbs. -56.7 lbs.
	5	4.00	0.00	COMMON B2	34-00-00 33-08-08	2 X 6	2 X 6	01-04-08		Joint 2 Joint 8 1418.4 lbs. 1337.7 lbs. -153.3 lbs. -104.4 lbs.
	1	4.00	0.00	COMMON B2-GE	34-00-00 33-08-08	2 X 6	2 X 6	01-04-08		Joint 2 Joint 20 Joint 21 Joint 22 Joint 23 188.0 lbs. 92.3 lbs. 224.5 lbs. 139.7 lbs. 164.3 lbs. -65.6 lbs. 0.8 lbs. -83.7 lbs. -49.1 lbs. -57.2 lbs.
	1	9.00	0.00	COMMON C1	22-00-00 22-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 Joint 8 984.6 lbs. 984.6 lbs. -56.5 lbs. -56.5 lbs.
	1	9.00	0.00	GABLE C1-GE	22-00-00 22-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 Joint 14 Joint 16 Joint 17 Joint 18 284.2 lbs. 239.4 lbs. 264.9 lbs. 152.1 lbs. 218.3 lbs. -88.6 lbs. -29.1 lbs. -215.0 lbs. -69.4 lbs. -116.5 lbs.
	3	9.00	0.00	COMMON C2	22-00-00 22-00-00	2 X 6	2 X 6		01-04-08	Joint 1 Joint 7 912.7 lbs. 985.9 lbs. -38.7 lbs. -56.6 lbs.
	2	9.00	0.00	SPECIAL D1	32-00-00 32-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 Joint 12 1517.1 lbs. 1517.1 lbs. -76.0 lbs. -76.0 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 #	J0423-1517
ORDER DATE	04/04/23	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Brady Rufenacht	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Josh Thompson	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 988-3421	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annette Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 90 South Creek MODEL: Roof DELIVERY INSTRUCTIONS:	LOT # 90 SUBDIV: South Creek TAG: The Ginkgo III JOB CATEGORY:
	Watermark Homes Lot 90 South Creek Benson, NC	SPECIAL INSTRUCTIONS: Copied from Lot 50 SB (J0822-3932)	PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /
Roof Order	END CUT	RETURN				LAYOUT	/ /
	PLUMB	GABLE STUDS	24 IN. OC	JOBSITE	1	CUTTING	/ /

ROOF TRUSSES **LOADING INFORMATION** **ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)**

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		TOP	BOT			TOP	BOT	LEFT	RIGHT	Joint 2	Joint 19	Joint 23	Joint 24	Joint 25
	1	9.00	0.00	QUEENPOST D1-GE	32-00-00 32-00-00	2 X 6	2 X 6	01-04-08	01-04-08	446.4 lbs. -28.2 lbs.	984.1 lbs. -173.5 lbs.	1094.5 lbs. -1.2 lbs.	0.7 lbs. -472.3 lbs.	230.7 lbs. -60.0 lbs.
	8	9.00	0.00	SPECIAL D2	32-00-00 32-00-00	2 X 6	2 X 6	01-04-08		1488.1 lbs. -74.8 lbs.	1421.6 lbs. -54.7 lbs.			
	1	9.00	0.00	MONOPITCH D3-GE	12-00-00 12-00-00	2 X 6	2 X 6	01-04-08		431.7 lbs. -81.7 lbs.	92.8 lbs. -44.5 lbs.	232.8 lbs. -85.7 lbs.	248.3 lbs. -103.8 lbs.	210.1 lbs. -100.2 lbs.
	4	6.00	0.00	COMMON E1	16-07-08 16-07-08	2 X 6	2 X 6	01-04-08	01-04-08	738.0 lbs. -55.9 lbs.	738.0 lbs. -55.9 lbs.			
	1	6.00	0.00	COMMON E1-GE	16-07-08 16-07-08	2 X 6	2 X 6	01-04-08	01-04-08	190.3 lbs. -37.9 lbs.	190.3 lbs. -28.4 lbs.	161.6 lbs. -92.7 lbs.	160.0 lbs. -69.8 lbs.	165.6 lbs. -62.3 lbs.
	1 2 Ply	6.00	0.00	COMMON E2	16-07-08 16-07-08	2 X 6	2 X 10			1642.4 lbs. -1060.4 lbs.	2206.8 lbs. -1474.2 lbs.			
	5	6.00	0.00	COMMON G1	12-00-00 12-00-00	2 X 6	2 X 6	01-04-08	01-04-08	97.7 lbs. -15.4 lbs.	553.0 lbs. -44.9 lbs.	97.8 lbs. -19.0 lbs.	164.5 lbs. 11.7 lbs.	553.0 lbs. -44.9 lbs.
	1	6.00	0.00	GABLE G1-GE	12-00-00 12-00-00	2 X 6	2 X 6	01-04-08	01-04-08	181.2 lbs. -36.0 lbs.	1453.6 lbs. -143.7 lbs.	181.2 lbs. -39.8 lbs.	141.4 lbs. -81.4 lbs.	170.1 lbs. -66.6 lbs.
	1	9.00	0.00	COMMON H1-GE	12-00-00 12-00-00	2 X 6	2 X 6	01-04-08	01-04-08	185.9 lbs. -39.4 lbs.	168.6 lbs. -136.9 lbs.	188.0 lbs. -79.9 lbs.	169.9 lbs. 55.1 lbs.	188.2 lbs. -80.0 lbs.
	1 2 Ply	9.00	0.00	COMMON H2	12-00-00 12-00-00	2 X 6	2 X 8			3790.6 lbs. -313.2 lbs.	3734.4 lbs. -308.2 lbs.			
	3	5.00	0.00	ROOF J1	03-00-00 03-00-00	2 X 6	2 X 6	01-04-08	03-00-00	826.1 lbs. -85.7 lbs.	1617.8 lbs. -175.3 lbs.			

Reaction Summary of Order



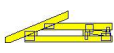
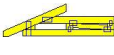


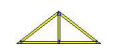
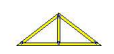
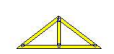
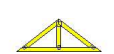


ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park P.O. Box 40408
 Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	ORDER #	J0423-1517
ORDER DATE	04/04/23	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Brady Rufenacht	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Josh Thompson	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 988-3421	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annette Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 90 South Creek MODEL: Roof DELIVERY INSTRUCTIONS:	LOT # 90 SUBDIV: South Creek TAG: The Ginkgo III JOB CATEGORY:
	Watermark Homes Lot 90 South Creek Benson, NC	SPECIAL INSTRUCTIONS: Copied from Lot 50 SB (J0822-3932)	PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /
Roof Order	END CUT	RETURN				LAYOUT	/ /
	PLUMB	GABLE STUDS	24 IN. OC	JOBSITE	1	CUTTING	/ /

ROOF TRUSSES **LOADING INFORMATION** **ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)**

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		TOP	BOT			TOP	BOT	LEFT	RIGHT					
	1 2 Ply	5.00	0.00	ROOF J2	03-00-00 03-00-00	2 X 6	2 X 6	01-04-08	03-00-00	Joint 2 1357.2 lbs. -162.7 lbs.	Joint 9 3010.7 lbs. -331.8 lbs.			
	6	5.00	0.00	ROOF J3	03-00-00 03-00-00	2 X 6	2 X 6	01-04-08	03-00-00	Joint 2 631.9 lbs. -89.5 lbs.	Joint 7 595.4 lbs. -85.8 lbs.			
	1	9.00	0.00	COMMON K1-GE	20-00-00 20-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 1051.8 lbs. -72.2 lbs.	Joint 8 1255.8 lbs. -63.5 lbs.	Joint 14 211.4 lbs. -36.5 lbs.	Joint 16 195.5 lbs. -191.0 lbs.	Joint 17 174.4 lbs. -89.2 lbs.
	1	6.00	0.00	VALLEY VE-1	08-02-04 08-02-04	2 X 4	2 X 4			Joint 1 24.7 lbs. -6.4 lbs.	Joint 3 141.5 lbs. -26.5 lbs.	Joint 4 273.3 lbs. 11.5 lbs.	Joint 5 20.1 lbs. 0.4 lbs.	Joint 6 295.6 lbs. -69.6 lbs.
	1	9.00	0.00	GABLE VH-1	11-07-11 11-07-11	2 X 4	2 X 4			Joint 1 221.9 lbs. -26.2 lbs.	Joint 3 222.0 lbs. -35.4 lbs.	Joint 4 417.3 lbs. 10.3 lbs.		
	1	9.00	0.00	VALLEY VH-2	09-10-05 09-10-05	2 X 4	2 X 4			Joint 1 185.3 lbs. -21.9 lbs.	Joint 2 175.8 lbs. -10.7 lbs.	Joint 3 185.3 lbs. -29.6 lbs.	Joint 4 348.3 lbs. 8.6 lbs.	Joint 7 20.2 lbs. 6.1 lbs.
	1	9.00	0.00	VALLEY VH-3	08-01-00 08-01-00	2 X 4	2 X 4			Joint 1 161.8 lbs. -25.1 lbs.	Joint 3 161.8 lbs. -31.3 lbs.	Joint 4 253.1 lbs. 22.0 lbs.		
	1	9.00	0.00	VALLEY VH-4	06-03-11 06-03-11	2 X 4	2 X 4			Joint 1 121.9 lbs. -18.9 lbs.	Joint 3 121.9 lbs. -23.6 lbs.	Joint 4 190.7 lbs. 16.5 lbs.		
	1	9.00	0.00	VALLEY VH-5	04-06-05 04-06-05	2 X 4	2 X 4			Joint 1 82.0 lbs. -12.7 lbs.	Joint 3 82.0 lbs. -15.8 lbs.	Joint 4 128.2 lbs. 11.1 lbs.		
	1	9.00	0.00	VALLEY VH-6	02-09-00 02-09-00	2 X 4	2 X 4			Joint 1 75.0 lbs. -3.7 lbs.	Joint 3 75.0 lbs. -3.7 lbs.			

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
-----	-----------	------	--------------------	-------------	-------

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 #	J0423-1517
ORDER DATE	04/04/23	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	000030
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY	Brady Rufenacht	INVOICE #	
COUNTY	Harnett	TERMS	Net 10 Days
SUPERINTENDANT	Josh Thompson	SALES REP	Anthony Williams
JOBSITE PHONE #	(910) 988-3421	SALES AREA	Anthony Williams

SOLD TO	Watermark Homes, Inc. 196 Annettte Drive Benson, NC 27504 (919) 938-8194	JOB NAME: Lot 90 South Creek MODEL: Roof	LOT # 90 TAG: The Ginkgo III	SUBDIV: South Creek JOB CATEGORY:
	SHIP TO	Watermark Homes Lot 90 South Creek Benson, NC	DELIVERY INSTRUCTIONS:	
SPECIAL INSTRUCTIONS: Copied from Lot 50 SB (J0822-3932)			PLAN SEAL DATE: BY DATE	

BUILDING DEPARTMENT Roof Order	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	/ /
	END CUT	RETURN				LAYOUT	/ /
	PLUMB		GABLE STUDS	24 IN. OC	JOBSITE 1	JOBSITE 1	CUTTING

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
15	Hangers, USP	HUS 26			SIMPSON (HUS26)
2	Hangers, USP	THD28-2			SIMPSON (HHUS28-2)