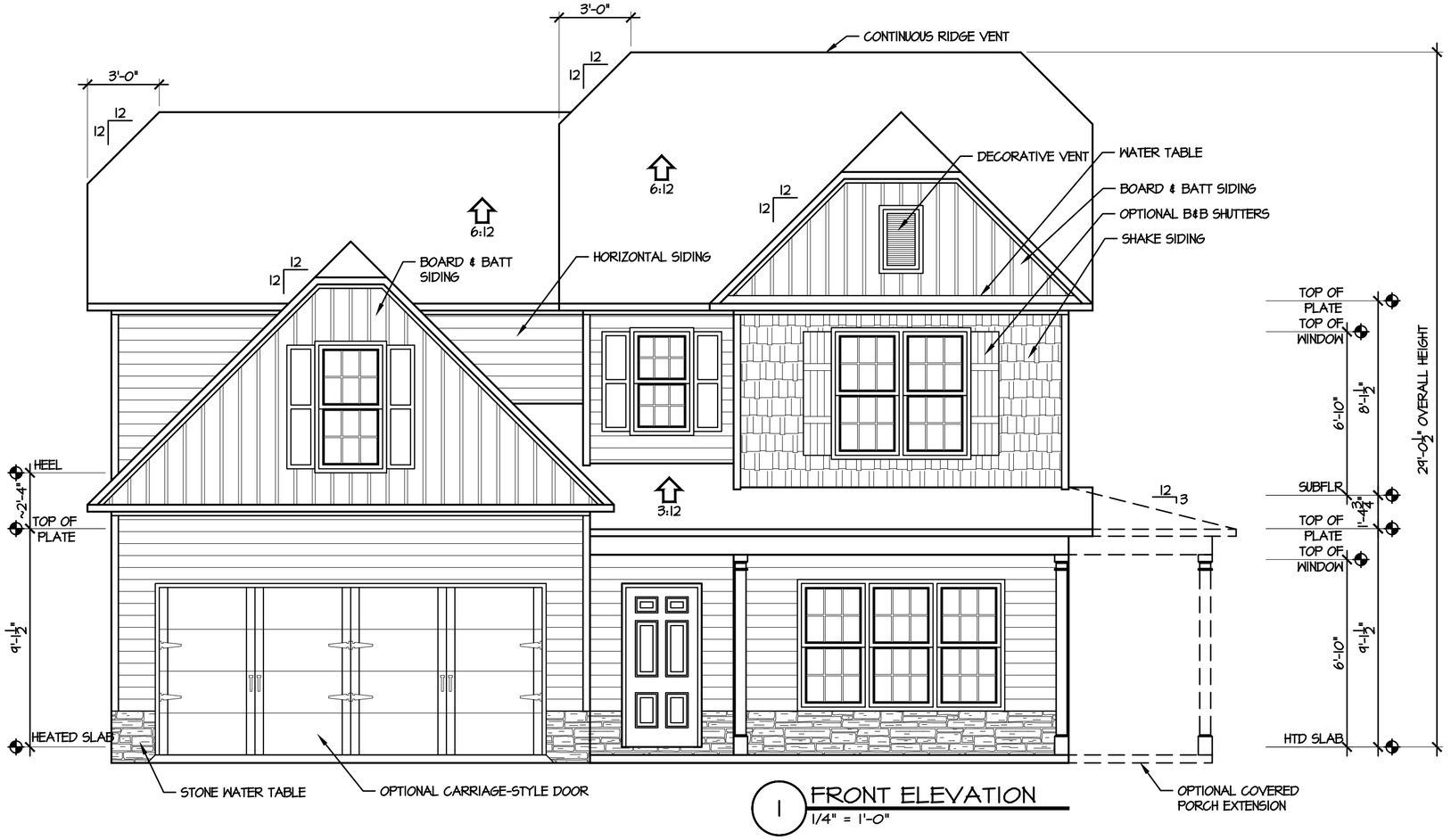
2 FRONT ELEVATION
3/16" = 1'-0" BASE MODEL

3 REAR ELEVATION
3/16" = 1'-0"



1 FRONT ELEVATION
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

05/25/2022

Harnett COUNTY NORTH CAROLINA

SPACE DATA	
FIRST FLOOR, HEATED:	1340 SF
SECOND FLOOR, HEATED:	1677 SF
FRONT PORCH:	144 SF
FRONT PORCH OPTION:	228 SF
REAR PORCH:	72 SF
GARAGE:	347 SF

ATTIC VENT CALC'S.

ATTIC AREA: 1859 S.F.

GABLE VENTS: N/A

RIDGE VENTS: 87 L.F. / 11 S.F. (65%)

SOFFIT VENT: 90 L.F. / 6 S.F. (35%)

RATIO: 17/1859 = 1/110

Carolina Residential Design Group

TODD TUCKER, CPBD
Carolina Residential Design Group, LLC
Professional Member
American Institute of Building Design
Institute of Classical Architecture
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(910) 425-7939

AMERICAN INSTITUTE OF BUILDING DESIGN A I B D

NATIONAL COUNCIL OF BUILDING DESIGNER CERTIFICATION

TODD TUCKER 34 - 156

Caviness Land

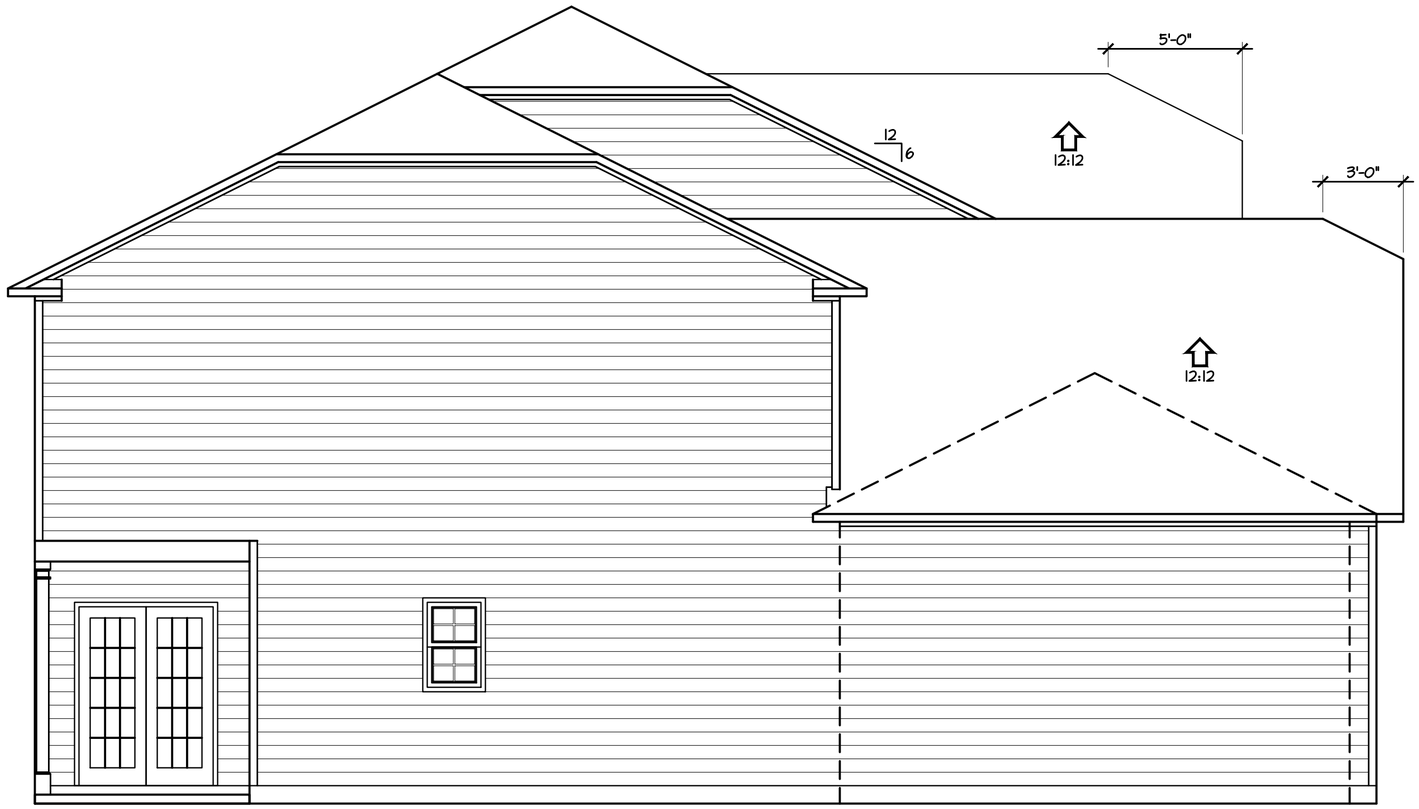
SHEET TITLE: ELEVATIONS

SCALE: AS NOTED

DATE: DECEMBER 2013

PLAN NO: CL 3067 A

SHEET NO: 1



2 LEFT ELEVATION
1/4" = 1'-0"

1 RIGHT ELEVATION
1/4" = 1'-0"

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TODD TUCKER 34 - 156

Caviness Land

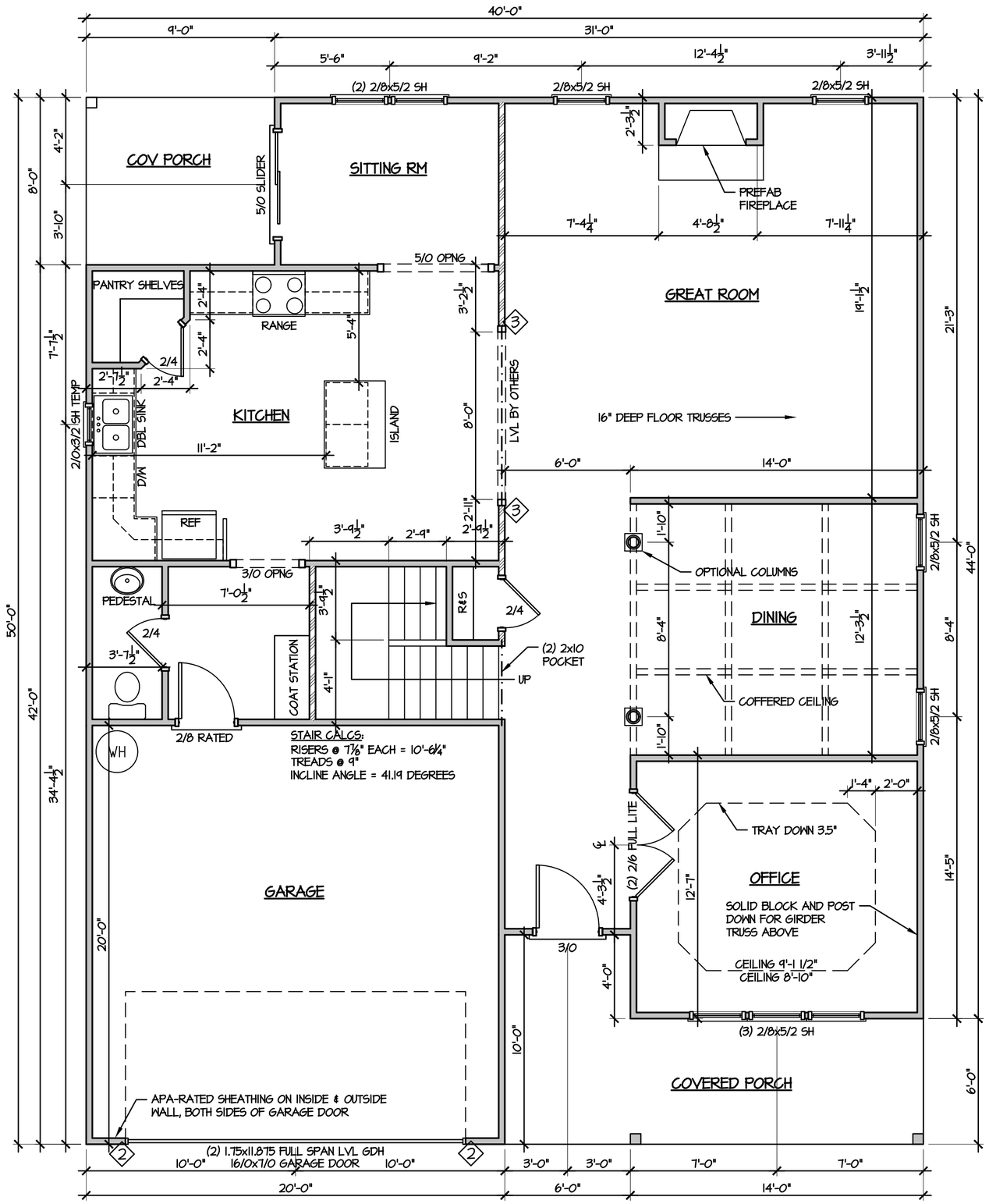
SHEET TITLE: ELEVATIONS

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

DATE: DECEMBER 2013

PLAN NO: CL 3067 A

SHEET NO: 2



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

A PORCH OPTION
1/4" = 1'-0"

GENERAL NOTE:
ALL 2x4 WALLS DRAWN AS 3 1/2"
ALL 2x6 WALLS DRAWN AS 5 1/2"

INTERIOR BEARING WALL

ALL EXTERIOR DIMENSIONS INCLUDE WALL SHEATHING

ALL WALLS ARE 2x4 WALLS UNLESS OTHERWISE NOTED

IN LOAD-BEARING WALLS:
ALL OPENING, WINDOW & DOOR HEADERS TO BE
(2) 2x10 SYP #2 & (1) STUD ON EACH SIDE
UNLESS NOTED OTHERWISE

(n) SYMBOL FOR REQUIRED STUDS FOR BEAM ABOVE

ARROW INDICATES SPAN DIRECTION

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TODD TUCKER 34 - 156

Caviness Land

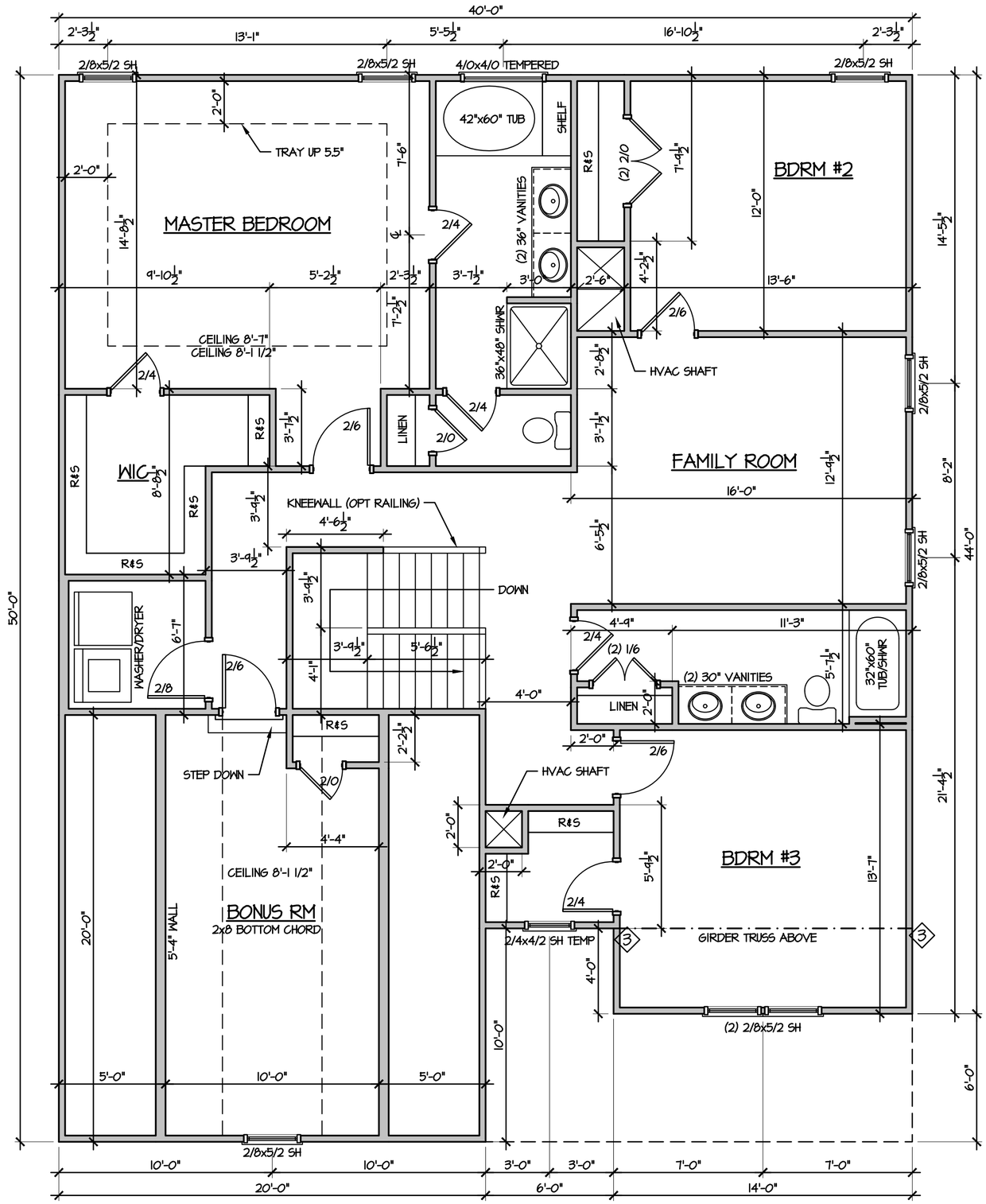
SHEET TITLE: FIRST FLOOR

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

DATE: DECEMBER 2013

PLAN NO: CL 3067 A

SHEET NO: 4



1 SECOND FLOOR OPTION
1/4" = 1'-0"

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TODD TUCKER 34 - 156

Caviness Land

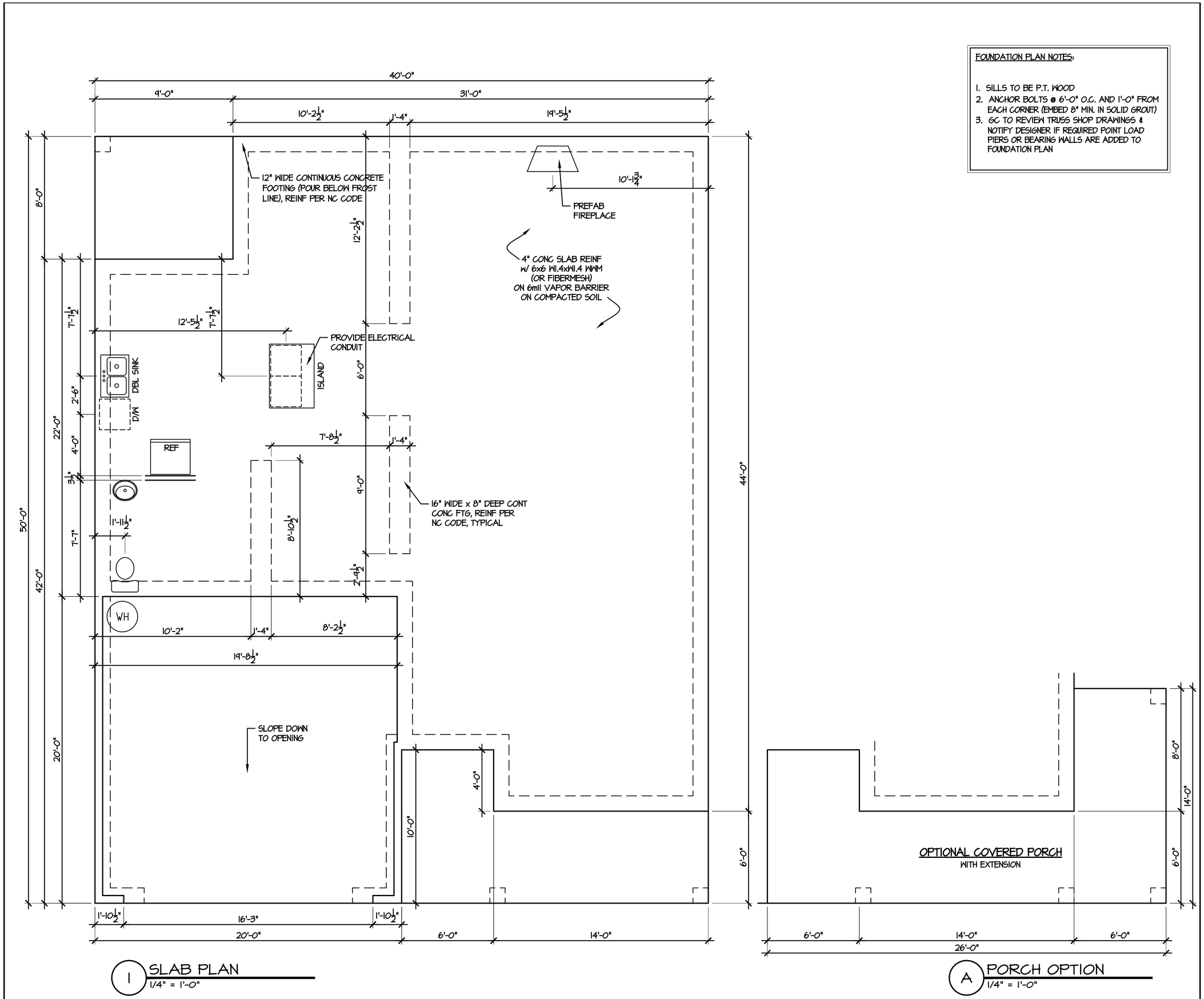
SHEET TITLE: SECOND FLOOR

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

DATE: DECEMBER 2013

PLAN NO: CL 3067 A

SHEET NO: 6



1 SLAB PLAN
1/4" = 1'-0"

A PORCH OPTION
1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. SILLS TO BE P.T. WOOD
2. ANCHOR BOLTS @ 6'-0" O.C. AND 1'-0" FROM EACH CORNER (EMBED 8" MIN. IN SOLID GROUT)
3. GC TO REVIEW TRUSS SHOP DRAWINGS & NOTIFY DESIGNER IF REQUIRED POINT LOAD PIERS OR BEARING WALLS ARE ADDED TO FOUNDATION PLAN

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Caviness Land

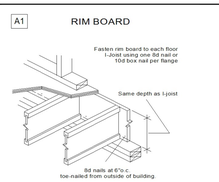
SHEET TITLE: SLAB PLAN

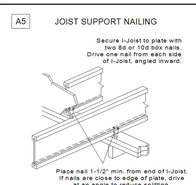
SCALE: 1/4" = 1'-0"

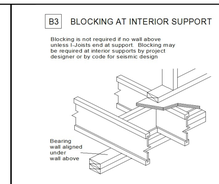
DATE: DECEMBER 2013

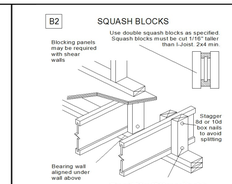
PLAN NO: CL 3067

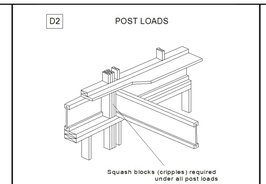
SHEET NO: 3

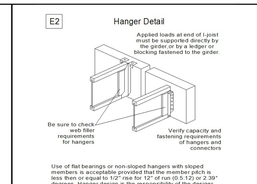


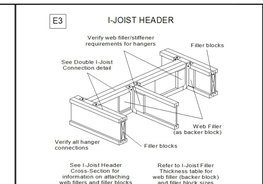


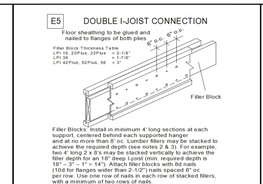


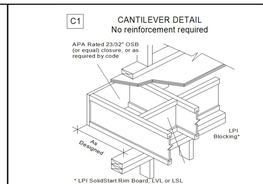


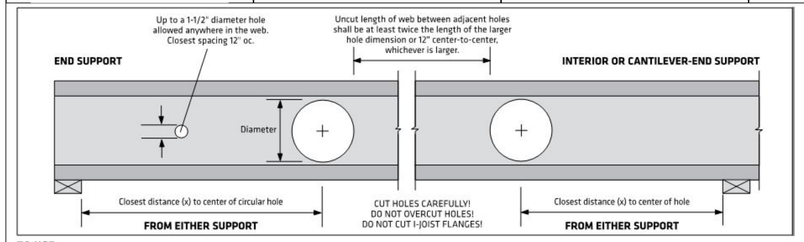












TO USE:

1. Select the required series and depth.
2. Determine the support condition for the nearest bearing: end support or interior support (including cantilever-end supports).
3. Select the row corresponding to the required Clear Span. For spans between those listed, use the next largest value.
4. Select the column corresponding to the required hole diameter. For diameters between those listed, use the next largest value.
5. The intersection of the Clear Span row and Hole Diameter column gives the minimum distance from the inside face of bearing to the center of a circular hole.
6. Double check the distance to the other support, using the appropriate support condition.

Depth	Clear Span (ft)	Distance from End Support – Hole Diameter						Distance from Interior or Cantilever-End Support – Hole Diameter					
		2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
14"	14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-
	18'	1'-0"	1'-0"	1'-9"	3'-1"	4'-6"	-	1'-8"	2'-10"	3'-11"	5'-1"	6'-3"	-
	22'	1'-5"	2'-9"	4'-1"	5'-6"	7'-0"	-	4'-2"	5'-4"	6'-5"	7'-7"	8'-9"	-
	26'	3'-8"	5'-0"	6'-5"	8'-0"	9'-8"	-	6'-8"	7'-10"	8'-11"	10'-1"	11'-4"	-
16"	18'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	4'-11"	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"
	22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	7'-5"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	26'	3'-6"	4'-8"	5'-11"	7'-2"	8'-7"	10'-1"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-9"
	30'	5'-9"	7'-0"	8'-4"	9'-9"	11'-3"	12'-10"	9'-0"	10'-0"	11'-0"	12'-0"	13'-2"	14'-8"

DESIGN ASSUMPTIONS:

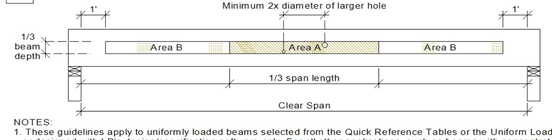
1. The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 130 plf (e.g., 40 psf Live Load and 25 psf Dead Load spaced 24" oc).
2. Hole location is measured from the inside face of bearing to the center of a circular hole, from the closest support.
3. Clear Span has not been verified for these joists and is shown for informational purposes only! Verify that the joist selected will work for the span and loading conditions needed before checking hole location.
4. The maximum hole depth for circular holes is the I-joist Depth less 4", except the maximum hole depth is 6" for 9-1/2" LPI joists, and 8" for 11-7/8" LPI joists.
5. Holes cannot be located in the span where designated "-", without further analysis by a design professional.

NOTES:

1. Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flanges.
2. Round holes up to 1-1/2" diameter may be placed anywhere in the web.
3. Perforated "knockouts" may be neglected when locating web holes.
4. Holes larger than 1-1/2" are not permitted in cantilevers without special engineering.
5. Multiple holes shall have a clear separation along the length of the joist of at least twice the length of the larger adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
6. Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) provided that a 3" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that location and completely encompass the holes.
7. For conditions not covered in this table, use LP's design software or contact your local LP® SolidStart® Engineered Wood Products distributor for more information.

P

BEAM HOLE DETAILS



NOTES:

1. These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables or designed with LP's design/specification software only. For all other applications, such as beams with concentrated loads, please contact your LP® SolidStart® Engineered Wood Products distributor for assistance.
2. Round holes can be drilled anywhere in "Area A" provided that: no more than four holes are cut, with the minimum spacing described in the diagram. The maximum hole size is 1-1/2" for depths up to 9-1/4," and 2" for depths greater than 9-1/4."
3. Rectangular holes are NOT allowed.
4. DO NOT drill holes in cantilevers without prior approval from the project designer.
5. Other hole sizes and configurations MAY be possible with further engineering analysis. For more information, contact your LP SolidStart Engineered Wood Products distributor.
6. Up to three 3/4" holes may be drilled in "Area B" to accommodate wiring and/or water lines. These holes shall be at least 12" apart. The holes shall be located in the middle third of the depth, or a minimum of 3" from the bottom and top of the beam. For beams shallower than 9-1/4", locate holes at mid-depth.
7. Protect plumbing holes from moisture.

Important Notes

WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.

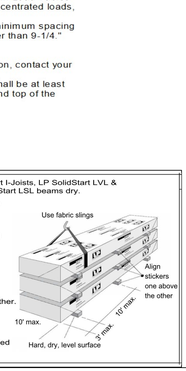
These instructions are offered as a guide to good practice in the handling, storage and installation of LP® SolidStart® I-Joists, LP SolidStart LVL & LP SolidStart LSL beams. They are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In all cases, the procedures used should be as specified by the architect/engineer responsible for the entire building.

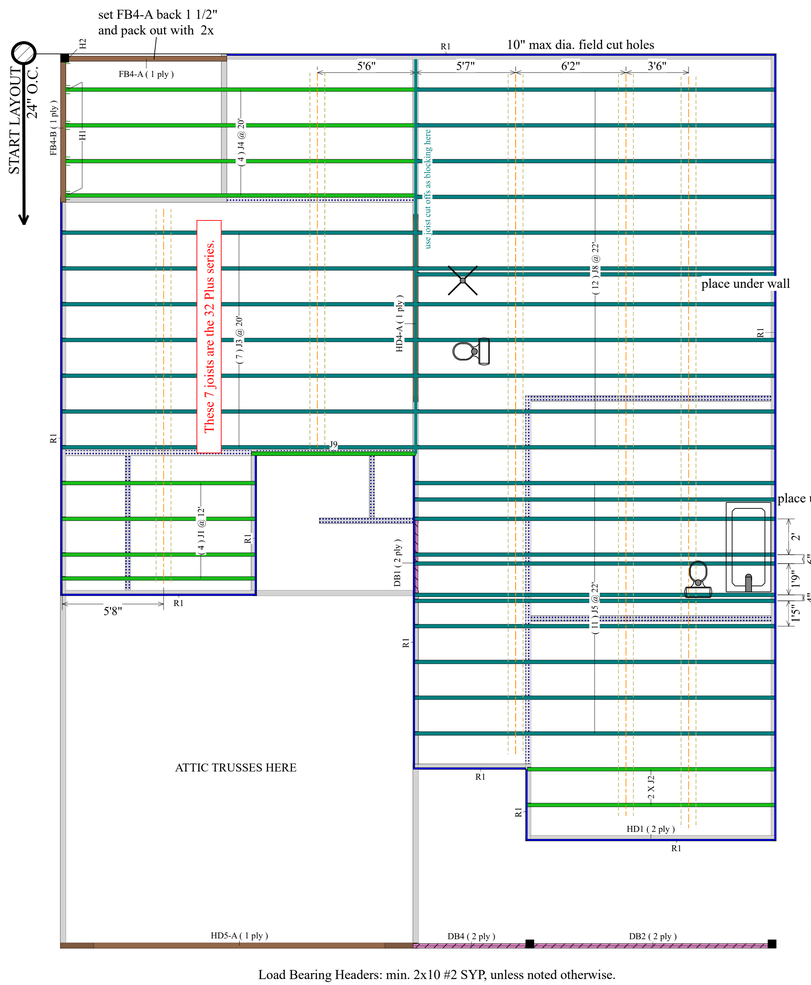
- This is not intended as a manual for selecting products and assumes that components and details have been specified correctly.
- Consult the LP SolidStart I-Joist, LP SolidStart LVL & LP SolidStart LSL brochures or contact your LP SolidStart products distributor for assistance.
- All rim joists, blocking, connections and temporary bracing must be installed before erectors are allowed on the structure.
- No loads other than the weight of the erectors are to be imposed on the structure before it is permanently sheathed.
- After sheathing, do not overload joists with construction materials exceeding design loads.
- LP SolidStart I-Joists, LP SolidStart LVL & LP SolidStart LSL beams must be used under dry, covered and well ventilated interior conditions in which the equivalent moisture content in lumber will not exceed 16%.

Handling & Storage

Keep LP SolidStart I-Joists, LP SolidStart LVL & LP SolidStart LSL beams dry.

- Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents physical damage during measuring, cutting, erection, etc. I-Joists should be handled vertically and not flatwise.
- Keep stored in wrapped and strapped bundles, stacked no more than 10' high. Support and separate bundles with 2 x 4 (or larger) stickers spaced no more than 10' apart. Keep stickers in line vertically.
- Product must not be stored in contact with the ground, or have prolonged exposure to the weather.
- Use forklifts and cranes carefully to avoid damaging product.
- Do not use visually damaged product. Call your local LP SolidStart Engineered Wood Products distributor for assistance when damaged products are encountered.





Load Bearing Headers: min. 2x10 #2 SYP, unless noted otherwise.

2nd Flr

I Joist (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J4	LPI 20Plus	2.5	14			4	20-0-0
J2	LPI 20Plus	2.5	14			2	14-0-0
J1	LPI 20Plus	2.5	14			4	12-0-0
J9	LPI 20Plus	2.5	14			1	10-0-0
J8	LPI 32Plus	2.5	14			12	22-0-0
J5	LPI 32Plus	2.5	14			11	22-0-0
J3	LPI 32Plus	2.5	14			7	20-0-0

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB4-B	LP-LSL 1.55E	3.5	14			1	10-0-0
FB4-A	LP-LSL 1.55E	3.5	14			1	10-0-0

LVL/LSL (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
HD5-A	LP-LSL 1.55E	3.5	11.875			1	20-0-0
HD4-A	LP-LSL 1.55E	3.5	11.875			1	12-0-0

Beam By Others (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
DB2	[2x10]			1	2	2	14-0-0
DB4	[2x10]			1	2	2	8-0-0
DB1	[2x10]			1	2	2	6-0-0

Rim Board

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	LP APA Rated OSB 1.125 X 14	1.125	14			15	12-0-0

Hanger

Label	Pcs	Description	Skew	Slope	Beam/Girder fasteners	Supported Member fasteners
H1	4	IUS2.56/14 (Min)			12 10d	
H2	1	HU416 (Max)			26 16d	12 10d

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84 LUMBER Build on what we know™

Dealer
84 Lumber-Fayetteville #2307

Dealer Address
620 Belt Road
Fayetteville, NC 28301
(910) 867-9185

Project
CL3067A GL

Created
May 11, 2015

Layout Name
CL3067A GL

Description
Caviness Land
CL3067A GL

Designer
Kyle Militzer

Revised
April 27, 2020

2nd Flr

Design Method	ASD (USA)
Building Code	IRC 2012

Floor

Loads	
Live	40
Dead	10
Deflection Joist	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Deflection Girder	
LL Span L/	360
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Decking	
Decking	OSB 23/32 APA Rated Sturd-I-Floor
Fastener	Nailed & Glued

Legend

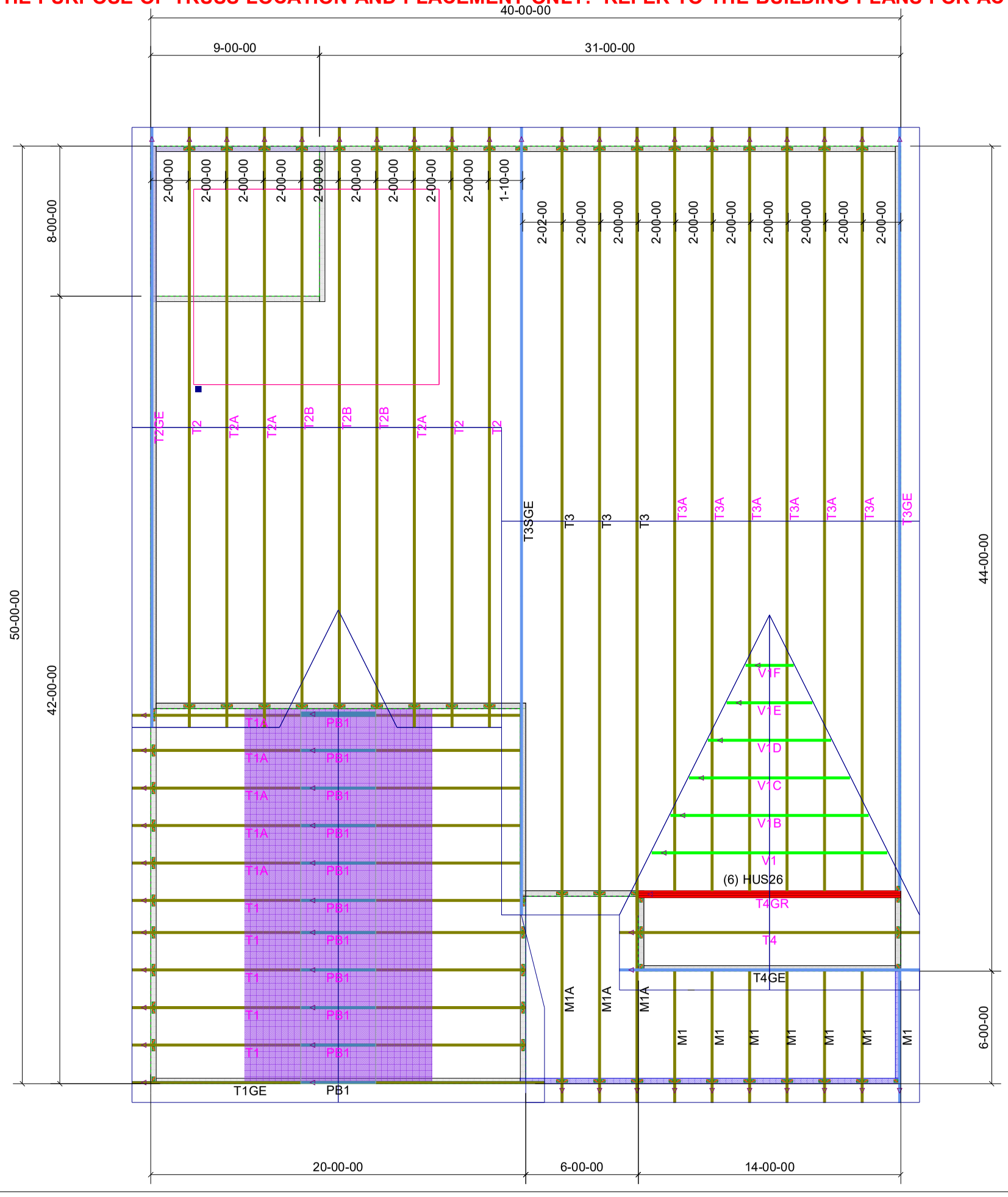
- 2x4 Non-Brg Wall
- 3.5" Non-Brg Wall
- 5.5" Non-Brg Wall
- Wall
- Partition Wall (Non-Load-Bearing)
- Wall Opening
- LP APA Rated OSB 1.125 X 14
- LPI 20Plus 14
- LPI 32Plus 14
- LP-LSL 1.55E 3.5 X 11.875 (Dropped)
- LP-LSL 1.55E 3.5 X 14
- 1.5 X 9.25 (Dropped)

2ND FLOOR FRAMING

SCALE: 1/4" = 1'

Calculated Structured Designs

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



1st Level Roof Area	2nd Level Roof Area
789.52	1858.35

84 LUMBER COMPONENTS

DEDICATED TO QUALITY AND EXCELLENCE
200 EMMETT ROAD
DUNN, NORTH CAROLINA 28334
PHONE: 910-892-8400

PROJECT: Elevation 2 CI3067 A New

CUSTOMER: Caviness Land Development

MODEL: CL 3067A New CP Elev 2

QUOTE #: 20062

PRINT DATE: 3/12/2019

DRAWN BY:

SCALE: N.T.S

TOP LIVE LOAD: 20.0 lb/ft²

TOP DEAD LOAD: 10.0 lb/ft²

BOTTOM DEAD LOAD: 10.0 lb/ft²

WIND SPEED: 115 mph

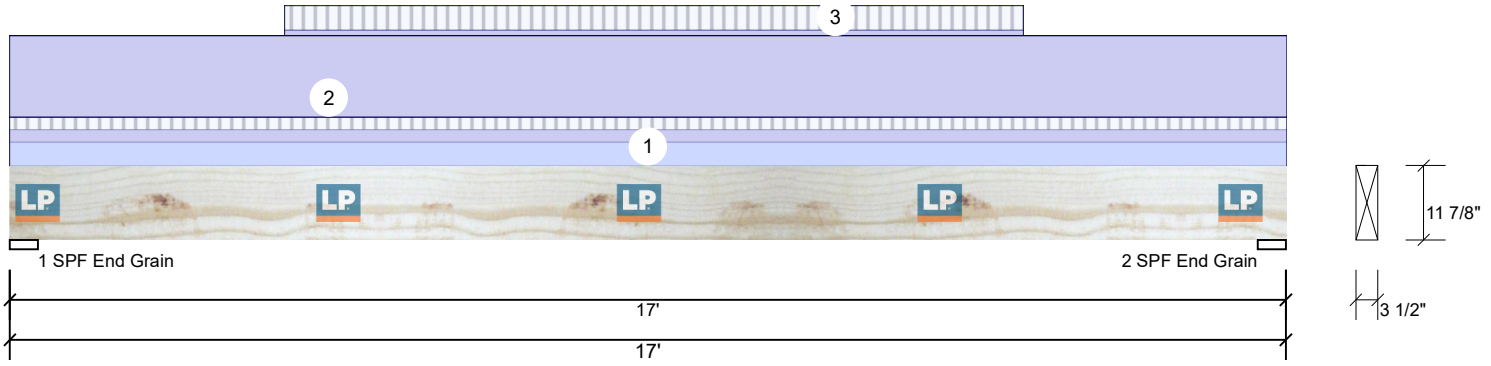
GENERAL NOTES:

- DO NOT CUT OR MODIFY TRUSSES
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.
- PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBILE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

Client:	84 Fayetteville NC	Date:	3/25/2020
Project:	CL3067A GL	Input by:	Kyle Militzer
Address:		Job Name:	CL3067A GL
		Project #:	15244

HD5-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Flr



Member Information

Type:	Girder	Application:	Floor
Plies:	1	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	365	1454	0	0	340
2	369	1455	0	0	340

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	14%	1454 / 528	1982	Uniform	D+0.75(L+C)
2 - SPF End Grain	4.500"	14%	1455 / 532	1986	Uniform	D+0.75(L+C)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7618 ft-lb	8'6 1/16"	16198 ft-lb	0.470 (47%)	D+L	L
Shear	1582 lb	15'8 3/8"	11360 lb	0.139 (14%)	D+L	L
LL Defl inch	0.157 (L/1254)	8'6 1/16"	0.546 (L/360)	0.290 (29%)	0.75(L+C)	Uniform
TL Defl inch	0.548 (L/359)	8'6 1/16"	0.819 (L/240)	0.670 (67%)	D+0.75(L+C)	Uniform

Design Notes

1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
2 Dead Load Deflection: Instant = 0.391", Long Term = 0.587"
3 Girders are designed to be supported on the bottom edge only.
4 Top braced at bearings.
5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 17-0-0		Top	20 PLF	20 PLF	0 PLF	0 PLF	40 PLF	
2	Part. Uniform	0-0-0 to 17-0-0		Top	132 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	3-8-0 to 13-6-0		Top	10 PLF	40 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				13 PLF					

Notes

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This design is valid until 10/31/2021

Manufacturer Info

Louisiana-Pacific Corp
414 Union Street, Suite 2000
Nashville, TN 37219
(888) 820-0325
www.lpcorp.com
APA: PR-L280, ICC-ES: ESR-2403, LADBS: RR-25783, Florida: FL15228

US Lumber
3312 North Berkeley Lake Rd, GA 30096
888-613-5078

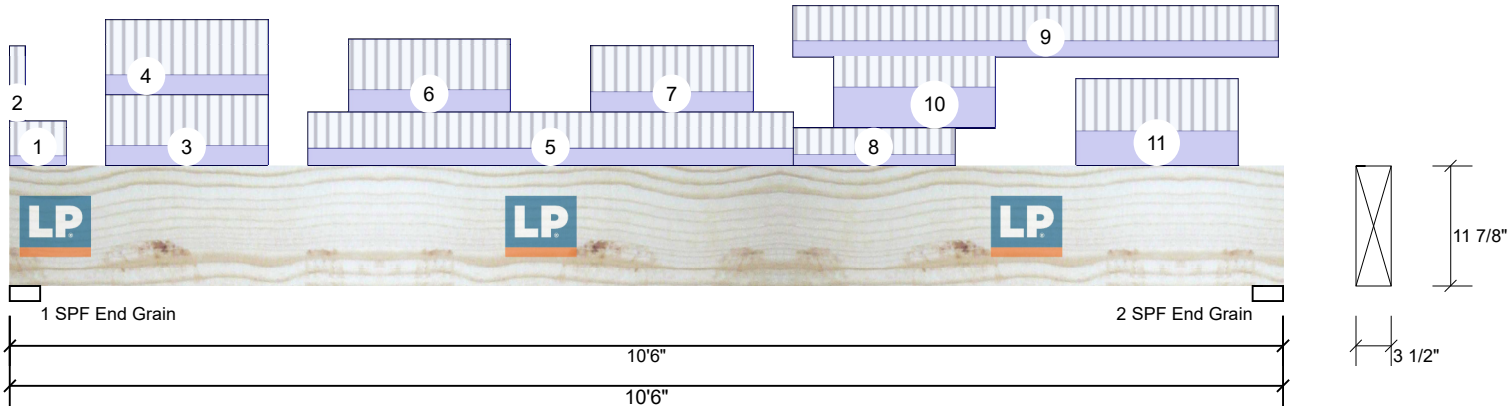
U.S. LUMBER

CSD DRAW DESIGN BUILD

Client:	84 Fayetteville NC	Date:	4/27/2020
Project:	Caviness Land - CL3067	Input by:	Kyle Militzer
Address:		Job Name:	CL3067A GL
		Project #:	15244

HD4-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Flr



Member Information

Type:	Girder	Application:	Floor
Plies:	1	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	3563	1674	0	0	0
2	3629	2061	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	57%	1674 / 3563	5237	L	D+L
2 - SPF End Grain	3.000"	62%	2061 / 3629	5690	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13706 ft-lb	5'5"	16198 ft-lb	0.846 (85%)	D+L	L
Shear	4416 lb	9'3 7/8"	11360 lb	0.389 (39%)	D+L	L
LL Defl inch	0.251 (L/485)	5'3 3/16"	0.338 (L/360)	0.740 (74%)	L	L
TL Defl inch	0.383 (L/317)	5'3 9/16"	0.506 (L/240)	0.760 (76%)	D+L	L

Design Notes

1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
2 Dead Load Deflection: Instant = 0.133", Long Term = 0.199"
3 Girders are designed to be supported on the bottom edge only.
4 Top braced at bearings.
5 Bottom braced at bearings.

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 0-5-8		Top	100 PLF	337 PLF	0 PLF	0 PLF	0 PLF	J8
2	Part. Uniform	0-0-0 to 0-1-8		Top	179 PLF	573 PLF	0 PLF	0 PLF	0 PLF	J3
3	Part. Uniform	0-9-8 to 2-1-8		Top	197 PLF	506 PLF	0 PLF	0 PLF	0 PLF	J8
4	Part. Uniform	0-9-8 to 2-1-8		Top	201 PLF	542 PLF	0 PLF	0 PLF	0 PLF	J3
5	Part. Uniform	2-5-8 to 6-5-8		Top	171 PLF	355 PLF	0 PLF	0 PLF	0 PLF	J3
6	Part. Uniform	2-9-8 to 4-1-8		Top	221 PLF	506 PLF	0 PLF	0 PLF	0 PLF	J8
7	Part. Uniform	4-9-8 to 6-1-8		Top	202 PLF	464 PLF	0 PLF	0 PLF	0 PLF	J8
8	Part. Uniform	6-5-8 to 7-9-8		Top	110 PLF	261 PLF	0 PLF	0 PLF	0 PLF	J8

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Notes

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US Lumber
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888-613-5078

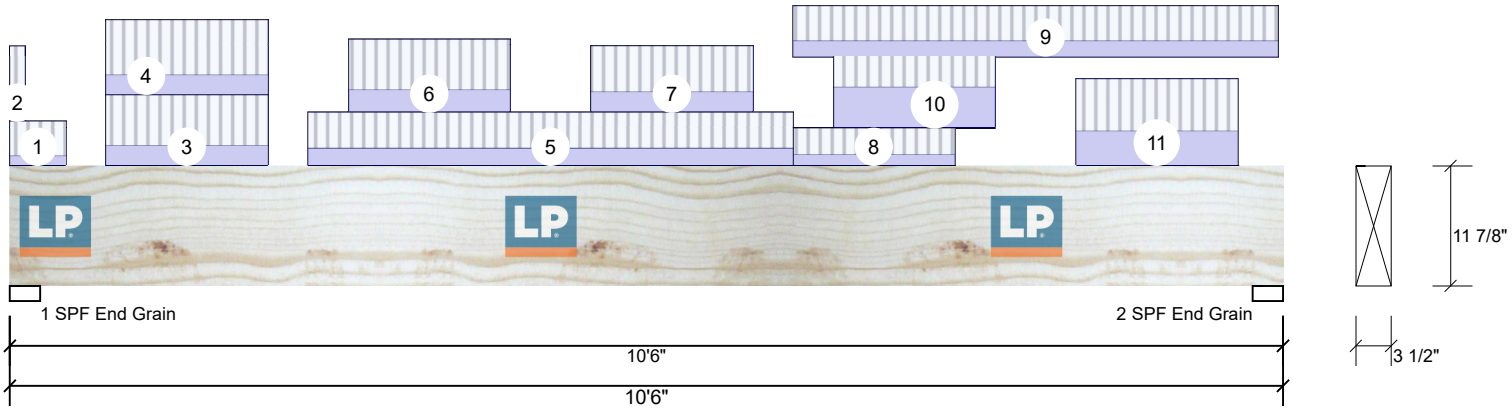
U.S. LUMBER

CSD DRAW DESIGN BUILD

Client:	84 Fayetteville NC	Date:	4/27/2020
Project:	Caviness Land - CL3067	Input by:	Kyle Militzer
Address:		Job Name:	CL3067A GL
		Project #:	15244

HD4-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Flr



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ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
9	Part. Uniform	6-5-8 to 10-5-8		Top	153 PLF	352 PLF	0 PLF	0 PLF	0 PLF	J3
10	Part. Uniform	6-9-8 to 8-1-8		Top	405 PLF	308 PLF	0 PLF	0 PLF	0 PLF	J8
11	Part. Uniform	8-9-8 to 10-1-8		Top	338 PLF	516 PLF	0 PLF	0 PLF	0 PLF	J8
	Self Weight				13 PLF					

Notes

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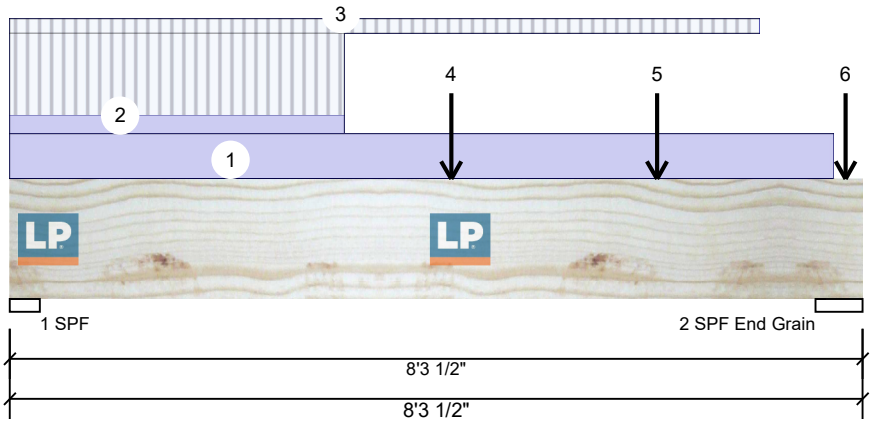
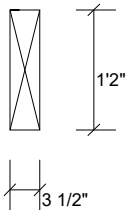
Client:	84 Fayetteville NC	Date:	4/27/2020
Project:	Caviness Land - CL3067	Input by:	Kyle Militzer
Address:		Job Name:	CL3067A GL
		Project #:	15244

FB4-B LP-LSL 1.55E 3.500" X 14.000" - PASSED

Level: 2nd Flr





Member Information

Type:	Girder	Application:	Floor
Plies:	1	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	555 (-105)	523	0	0	0
2	397 (-84)	500	23	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	21%	523 / 555	1078	L	D+L
2 - SPF End Grain	5.500"	5%	500 / 397	896	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1912 ft-lb	4'3 1/2"	22073 ft-lb	0.087 (9%)	D+L	L
Shear	962 lb	6'8 3/4"	13393 lb	0.072 (7%)	D+L	L
LL Defl inch	0.011 (L/8401)	4'2 1/2"	0.256 (L/360)	0.040 (4%)	L	L
TL Defl inch	0.022 (L/4237)	4'1 3/4"	0.383 (L/240)	0.060 (6%)	D+L	L

Design Notes

1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
2 Dead Load Deflection: Instant = 0.011", Long Term = 0.016"
3 Girders are designed to be supported on the bottom edge only.
4 Top braced at bearings.
5 Bottom braced at bearings.

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 8-0-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-3-0		Near Face	36 PLF	148 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 7-3-5		Near Face	0 PLF	-26 PLF	0 PLF	0 PLF	0 PLF	
4	Point	4-3-8		Near Face	59 lb	244 lb	0 lb	0 lb	0 lb	J4
5	Point	6-3-8		Near Face	54 lb	227 lb	0 lb	0 lb	0 lb	J4
6	Point	8-1-8		Top	23 lb	0 lb	23 lb	0 lb	0 lb	
	Bearing Length	0-3-8								
	Self Weight				16 PLF					

Notes

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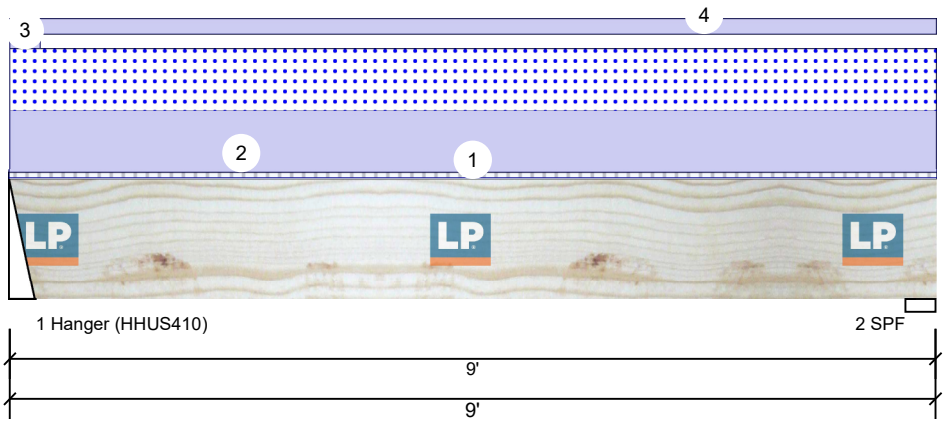
U.S. LUMBER

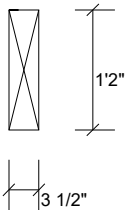
CSD DRAW DESIGN BUILD

Client:	84 Fayetteville NC	Date:	4/27/2020
Project:	Caviness Land - CL3067	Input by:	Kyle Militzer
Address:		Job Name:	CL3067A GL
		Project #:	15244

FB4-A LP-LSL 1.55E 3.500" X 14.000" - PASSED

Level: 2nd Flr





Member Information

Type:	Girder	Application:	Floor
Plies:	1	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	116	1924	1433	0	0
2	117	1918	1447	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	37%	1924 / 1433	3357	L	D+S
2 - SPF	3.500"	65%	1918 / 1447	3365	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6855 ft-lb	4'5 3/4"	25384 ft-lb	0.270 (27%)	D+S	L
Shear	2326 lb	7'7 1/4"	15402 lb	0.151 (15%)	D+S	L
LL Defl inch	0.040 (L/2547)	4'5 3/4"	0.286 (L/360)	0.140 (14%)	S	L
TL Defl inch	0.094 (L/1095)	4'5 3/4"	0.429 (L/240)	0.220 (22%)	D+S	L

Design Notes

1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
2 Dead Load Deflection: Instant = 0.054", Long Term = 0.080"
3 Fill all hanger nailing holes.
4 Girders are designed to be supported on the bottom edge only.
5 Top braced at bearings.
6 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 9-0-0	0-10-6	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 9-0-0		Top	320 PLF	0 PLF	320 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-3-8		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 9-0-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				16 PLF					

Notes

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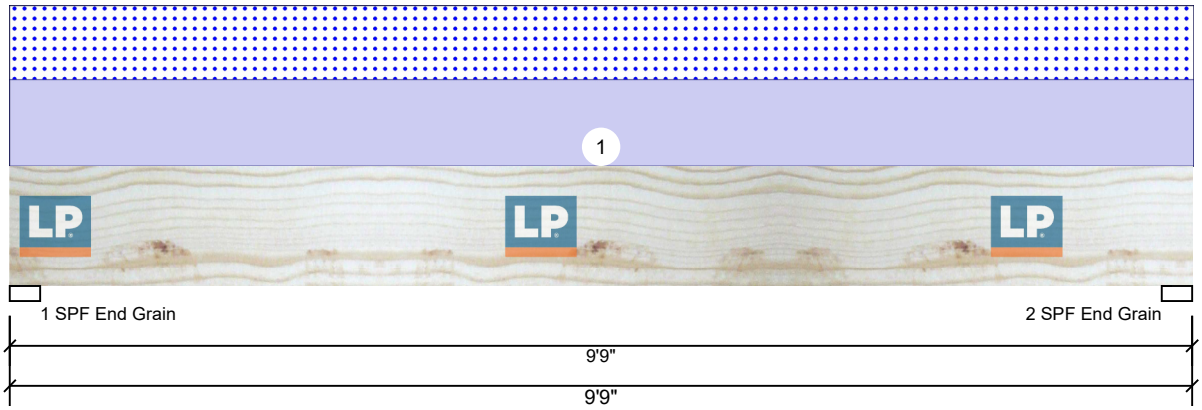
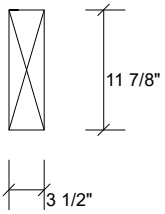
CSD DRAW DESIGN BUILD

Client:	84 Fayetteville NC	Date:	4/27/2020
Project:	Caviness Land - CL3067	Input by:	Kyle Militzer
Address:		Job Name:	CL3067A GL
		Project #:	15244

HD3-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Flr





Member Information

Type:	Girder	Application:	Floor
Plies:	1	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1264	1024	0	0
2	0	1264	1024	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	25%	1264 / 1024	2288	L	D+S
2 - SPF End Grain	3.000"	25%	1264 / 1024	2288	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5156 ft-lb	4'10 1/2"	18628 ft-lb	0.277 (28%)	D+S	L
Shear	1735 lb	1'2 1/8"	13064 lb	0.133 (13%)	D+S	L
LL Defl inch	0.056 (L/1992)	4'10 1/2"	0.312 (L/360)	0.180 (18%)	S	L
TL Defl inch	0.126 (L/892)	4'10 1/2"	0.469 (L/240)	0.270 (27%)	D+S	L

Design Notes

1. Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
2. Dead Load Deflection: Instant = 0.070", Long Term = 0.105"
3. Girders are designed to be supported on the bottom edge only.
4. Top braced at bearings.
5. Bottom braced at bearings.

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 9-9-0		Top	246 PLF	0 PLF	210 PLF	0 PLF	0 PLF	
	Self Weight				13 PLF					

Notes

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