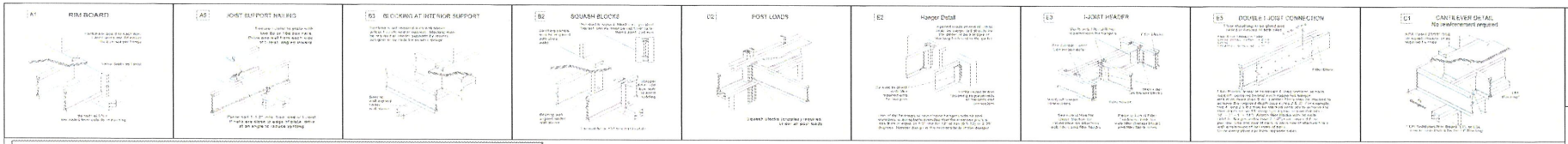
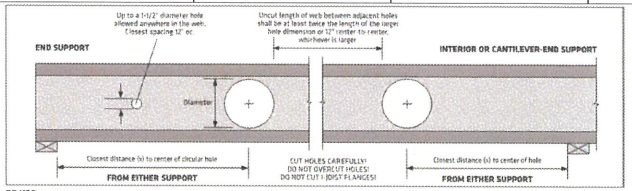




TO USE:

1. Select the required series and depth.
2. Determine the support condition for the nearest bearing and 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 maximum 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'-5"	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'-5"	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"

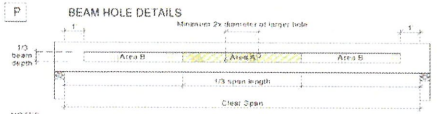
DESIGN ASSUMPTIONS:

1. The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 130 psf (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 locations.
4. The maximum hole depth for circular holes is the I-Joist Depth less 4, except the maximum hole depth is 6" for 9-7/8" 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:

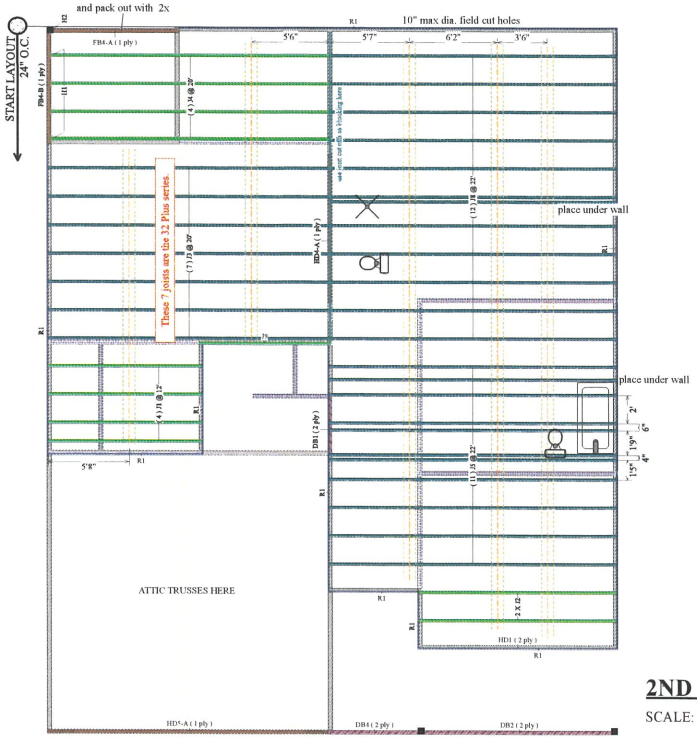
1. Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flanges.
2. Round holes up to 1 1/2" diameter may be placed anywhere in the web.
3. Prefabricated "knockouts" may be neglected when locating web holes.
4. Holes larger than 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 8" 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.

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 on 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.



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

2ND FLOOR FRAMING

SCALE: 1/4" = 1'

2nd Flr

I Joist (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
I4	LPI 20Plus	3.5	14			4	20-0-0
I7	LPI 20Plus	3.5	14			7	14-0-0
I1	LPI 20Plus	3.5	14			1	12-0-0
I9	LPI 20Plus	3.5	14			1	10-0-0
I8	LPI 32Plus	3.5	14			12	22-0-0
I5	LPI 32Plus	3.5	14			11	22-0-0
I3	LPI 32Plus	3.5	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	12x10			1	2	2	14-0-0
DB4	12x10			1	2	2	8-0-0
DB3	12x10			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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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)

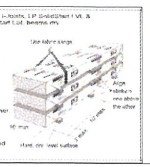
Important Notes: WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.

These instructions are offered as a guide to good practice in the handling, storage and installation of LPI® 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 erections 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 stiffened.
- 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 kept under dry, covered and well ventilated interior conditions in which the equivalent moisture content in lumber will not exceed 18%.

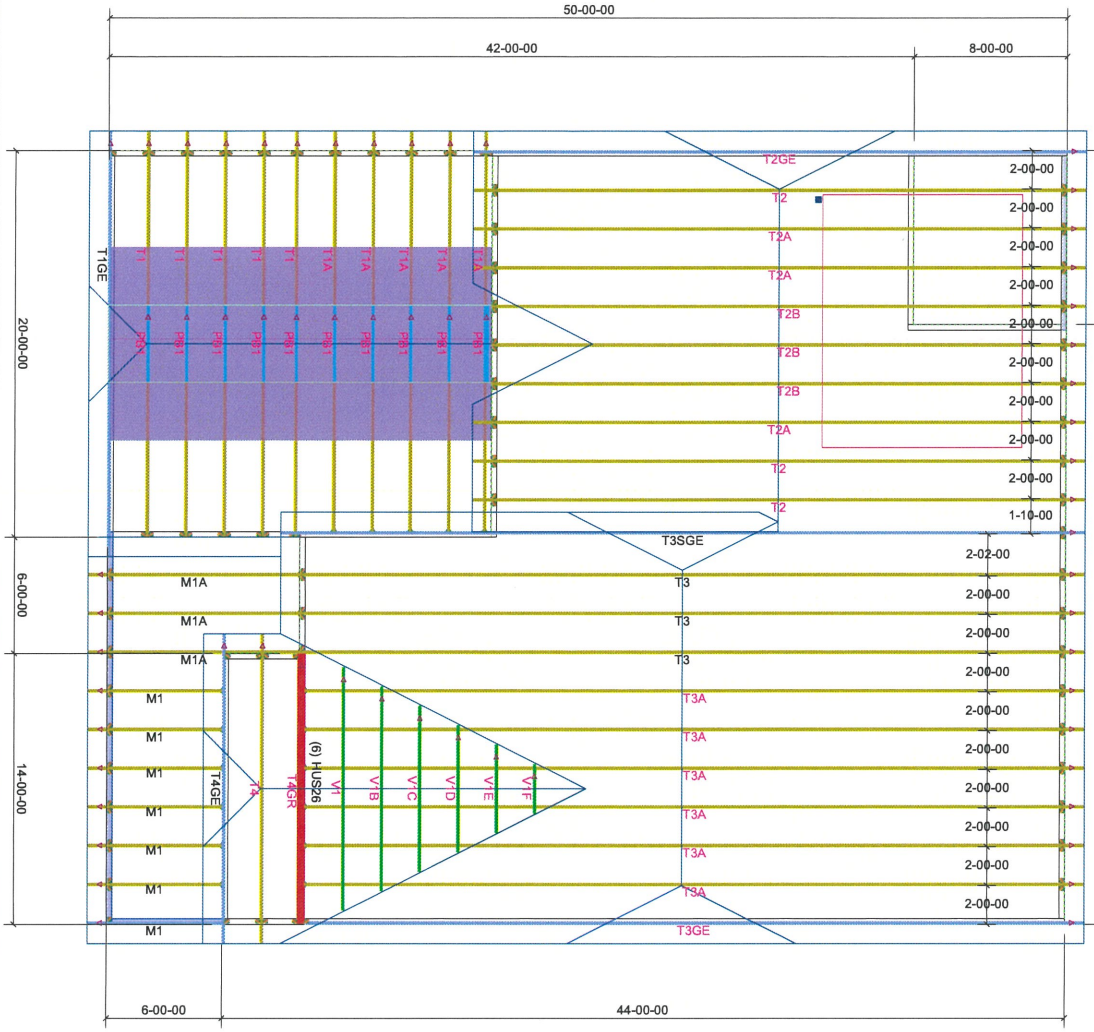
Handling & Storage: Keep LP SolidStart I-Joists, LP SolidStart LVL & LP SolidStart LSL beams dry.

- Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents damage to the edges and ends, such as cutting, crushing, etc. I-Joists should be handled vertically and not sideways.
- Keep stored in wrapped and strapped bundles stacked no more than 15" high. Support and separate bundles with 2 x 4 (or larger) stickers spaced no more than 10' apart. Keep stickers in line vertically.
- Products must not be stored in contact with the ground, to avoid 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.


Use fabric straps
Align
Stagger
Stagger
Stagger

1st Level Roof Area	2nd Level Roof Area
793.86	1981.79

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



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.

WIND SPEED: 115 mph	BOTTOM DEAD LOAD: 10.0 lb/ft²	TOP DEAD LOAD: 10.0 lb/ft²	TOP LIVE LOAD: 20.0 lb/ft²

PROJECT: Caviness Land New CL 3067

CUSTOMER: Caviness Land Development

MODEL: New CL-3067

QUOTE #:	PRINT DATE:	DRAWN BY:	SCALE:
1800483	2/28/2018	Rodney Evans	N.T.S

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