

Up to a 1-1/2" diameter hole allowed anywhere

Closest distance (x) to centerline of round hole

FROM EITHER SUPPORT

9-1/2"

11-7/8"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

11-7/8"

11-7/8"

9-1/2"

11-7/8"

11-7/8"

9-1/2"

9-1/2"

11-7/8"

CLOSEST DISTANCE (X) - (FT - IN)

SERIES

PWI 18S, LPI 18

PWI 20S,

LPI 20Plus

PWI 32S,

LPI 32Plus

PWI 42S,

LPI 42Plus

PWI 52S,

LPI 52Plus

PWI 36L,

LPI 36

PWI 56L,

LPI 56

PWI-53L,

LPI 530

SERIES

PWI 18S, LPI 18

PWI 20S,

LPI 20Plus

PWI 32S,

LPI 32Plus

PWI 42S,

LPI 42Plus

anywhere in the web.

without special engineering.

to-center, whichever is greater.

distributor for more details.

DO NOT CUT JOIST FLANGES!

CUT HOLES CAREFULLY! DO NOT OVERCUT HOLES!

Round holes up to 1-1/2" diameter may be placed

Holes larger than 1-1/2" are not permitted in cantilevers

Multiple holes shall have a clear separation along the

length of the joist of at least twice the larger dimension

of the larger adjacent hole, or a minimum of 12" center-

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.

These web hole tables are valid for simple and

continuous span I-Joists with uniform loads only, as

product guides. Larger holes, non-uniform loading

sized from the tables contained in PWT's current I-Joist

conditions and/or closer proximity to supports may be

possible, but require further analysis using PWT's design

software. Please contact your local Pacific Woodtech™

The maximum hole depth is the I-Joist Depth less 4,"

except the maximum hole depth is 6" for 9-1/2" PWIs, and 8" for 11-7/8" PWIs. Where the Maximum Hole

Dimension exceeds the hole depth, the dimension

assumed to be the maximum for that joist depth. The

maximum hole width is 18, regardless of I-Joist Depth.

refers to hole width and the depth of the hole is

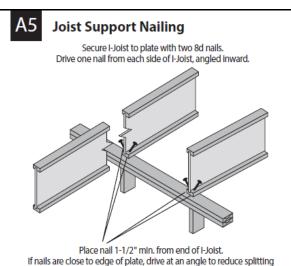
of lumber is 15% or less over a year and does not exceed 19% at any time (CN).

recommended so as not to cut a flange.

Holes may be placed anywhere within the depth of the web. A minimum 1/4" clear distance from the flanges is

in the web. Closest spacing 1'-0" oc

Web Hole Details



WARNING: Do NOT cut or notch flanges. Uncut length of web between adjacent holes shall be

at least twice the largest dimension of the two holes

or 12" center-to-center, whichever is greater.

1'-10"

1'-4"

1'-8"

1'-9"

2'-0"

2'-8"

1'-7"

4'-2"

Beam Hole Details

1/3 beam depth

1'-0"

3'-2"

1'-10"

1'-3"

1'-0"

3'-9"

2'-7"

1'-11"

2'-2"

2'-5"

2'-10"

2'-6"

3'-3"

2'-9"

2'-5"

2'-7"

3'-0"

3'-5"

3'-11"

5'-3"

4'-0"

4'-5"

7'-7"

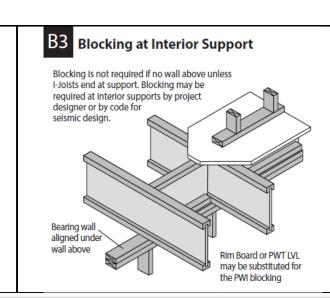
4'-9"

3'-8"

4'-3"

4'-2"

4'-9" 5'-5"



Closest distance (x) to edge of square or rectangular hole

FROM EITHER SUPPORT

4'-6"

4'-8"

5'-11"

8'-10"

11'-3"

11'-7"

6'-5" 7'-9" 9'-8" 10'-4" 11'-0" 11'-8" 12'-6"

5'-1"

5'-1"

6'-7"

12'-1"

8'-4" 9'-7"

7'-6" 9'-4"

6'-10" | 9'-0"

8'-11" | 11'-8" |

CIRCULAR HOLE DIAMETER

3'-6"

3'-6"

4'-8"

6'-9"

7'-3"

8'-11"

9'-8"

6'-3"

10'-5"

6'-2"

RECTANGULAR HOLE MAXIMUM DIMENSION: DEPTH OR WIDTH

2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12"

5'-9"

3'-10" | 4'-4" | 4'-11" | 5'-10" | 7'-0" | 8'-11" | 9'-6" | 10'-2" | 10'-10" | 6'-2"

4'-8"

7'-9"

6'-0"

5'-3" 6'-0" 6'-9" 7'-7" 8'-6" 9'-8" 11'-2" 13'-1" 15'-1" 17'-4" 20'-7"

Minimum 2 x diameter of larger hole

Area A

1/3 span length

Clear span

. These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables within the LVL Beam and Header Technical Guide. For all other

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"

6. Up to three 3/4" holes may be drilled in "Area B" to accommodate wiring and/or water lines. These holes must be at least 12" apart. The holes should be located in the middle third of

applications, such as beams with concentrated loads, please use the PWT's design software or contact your Pacific Woodtech distributor for assistance.

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.

6'-2" 7'-6"

9'-7" 10'-7"

4'-11"

4'-0"

4'-0"

5'-3"

5'-6"

8'-0"

9'-8"

10'-5"

7'-3"

7'-4"

7'-9"

6'-1"

6'-8"

5'-7"

7'-2"

3'-10" 4'-8" 5'-6" 6'-5" 7'-5" 8'-9" 10'-8" 13'-9" 17'-2"

7'-4" 8'-2" 9'-3" 9'-7" 9'-11" 10'-4" 10'-9" 11'-3" 11'-9"

6'-0" 6'-10" 7'-10" 9'-1" 10'-10" 12'-7" 14'-7" 15'-4" 16'-3"

4'-11" 5'-8"

5'-3" | 6'-0" | 6'-11" | 8'-1" | 9'-8" | 11'-5" | 12'-0" | 12'-6" | 13'-3" | 14'-0"

8'-0" 9'-0" 10'-0" 10'-11" 12'-1" 13'-8" 14'-3" 14'-11" 15'-7" 16'-6"

3'-9" 4'-3"

4'-4" 5'-0"

3'-6"

2'-11"

3'-1"

3'-4"

3'-8"

4'-0"

6'-0"

6'-8"

9'-0"

5'-1"

8'-7"

6'-0"

4'-11"

5'-4"

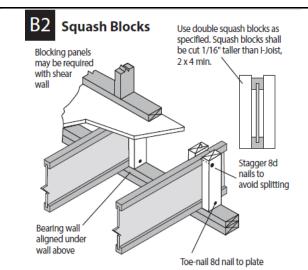
3'-11"

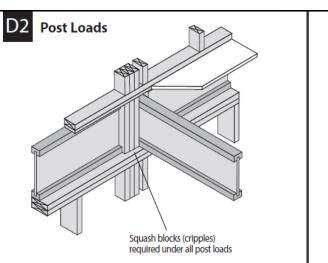
7'-5"

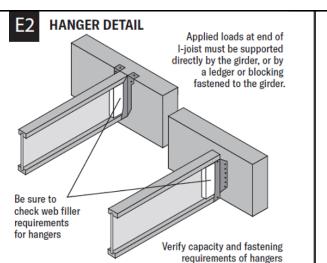
5'-1"

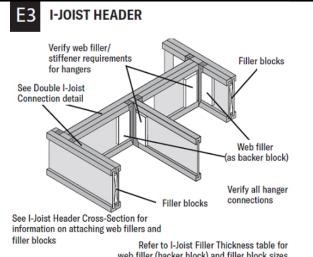
1'-11" | 2'-8" | 3'-9" | 4'-11" | 6'-1"

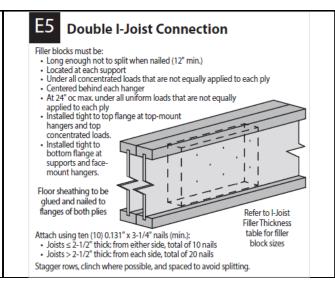
4'-5"











Width

2.5

2.5

2.5

2.5

Width

Width

Width

Depth

14

14

Depth

Depth

Qty

Qty

Qty

Qty

Beam/Girder

fasteners

30 16d

26 16d

12 10d

14 LinFt

Plies

Plies

Plies

Pcs

Pcs

Pcs

Varies

Supported Member

fasteners

10 16d

12 10d

Plies

I Joist (Flush)

Label Description

J10 | PWI 20S

J2 PWI 20S

J1 PWI 20S

J6 PWI 20S

J5 PWI 20S

J8 PWI 20S J4 PWI 20S J3 PWI 20S

J11 PWI 20S

J9 PWI 20S

J7 PWI 20S

Label Description

0E 2900Fb PWT LV

2.0E 2900Fb PWT LV

0E 2900Fb PWT L'

.0E 2900Fb PWT LV

2.0E 2900Fb PWT LV

Tolko Rim Board Plus

4

Pcs Description

HUS1.81/10

HU416 (Max)

21 | IUS2.56/14 (Min)

1.125 X 14

2.0E 2900Fb PWT LV

FB4 | 2.0E 2900Fb PWT LV

FB7 2.0E 2900Fb PWT LVL

FB8 PWI 20S

VL/LSL (Flush)

LVL/LSL (Dropped)

DB4

HD1

Rim Board

R1

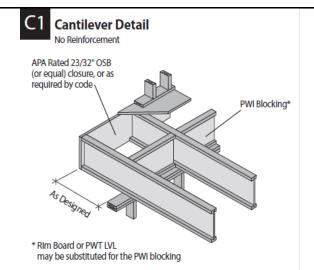
Blocking

Label Description

Label Description

Label Description

Bk1 PWI 20S



Pcs

30-0-0

30-0-0

16-0-0

16-0-0

10-0-0

8-0-0

8-0-0

8-0-0

20-0-0

Length

8-0-0

4-0-0

8-0-0

Length



2160 Satellite Blvd., Suite 450 Duluth, GA 30097



Will Evans

Designer

LL Span L/ TL Span L/ Deflection Header LL Span L/

I-Floor Nailed & Glued Fastener

Legend Web Stiffener

Non-Bearing Wall

Triforce/Open Joist (Color Varies) (Color Varies By Product)

Flush Beam (Color Varies By Product) Field Framed Pony Wall Column

888-613-5078





Dealer 84 Lumber-Fayetteville #2307 Dealer Address 620 Belt Road Fayetteville, NC 28301 (910) 867-9185 Project 68922 Created January 30, 2025 Layout Name 202501-68922 Description Caviness Land CC2724-Lot 501 Creekside Oaks South

Revised January 30, 2025 2nd Floor ASD (USA) Building Code IRC 2021 Deflection Joist LL Span L/ TL Span L/ Deflection Flush Girder LL Span L/ 240 TL Span L/ Deflection Dropped Girder

TL Span L/ Decking Decking 23/32 APA Rated Sturd-

In Hanger Label Denotes Web Point Load Support (D2 Detail) Load From Above

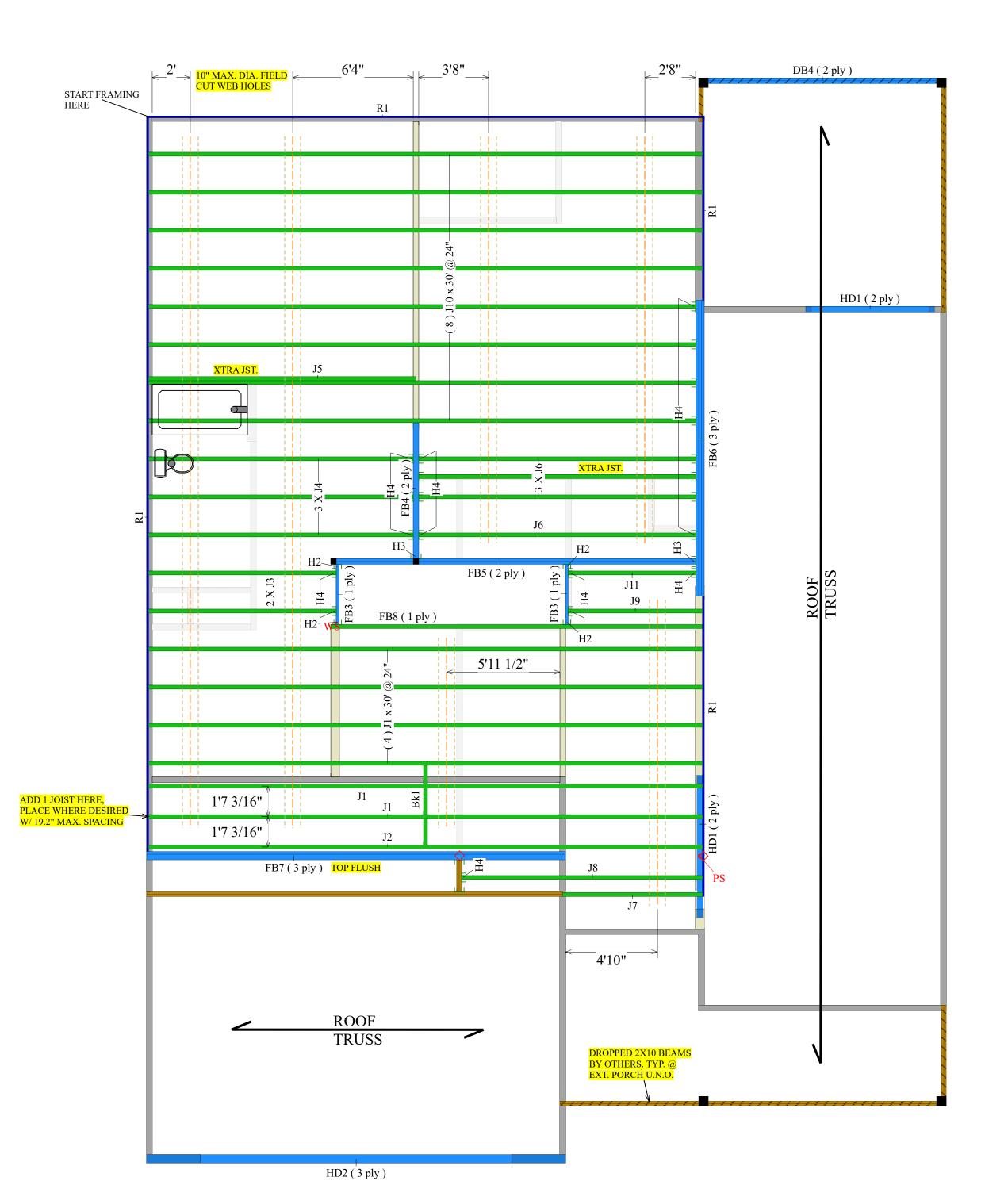
Exterior Bearing Wall Interior Bearing Wall OSB/LSL Rim (Color Varies)

PWI 18S/20S I Joist PWI 32S I Joist PWI 42S/90L I Joist

Dropped Beam

web filler (backer block) and filler block sizes and connectors

W1 Web Stiffener Detail WEB STIFFENER REQUIREMENTS PWI 36L, LPI 36 23/32" 8d (2-1/2") - 4, 8-3/4" 5, 10-7/8" 6, 12-7/8" PWI 42S, PWI 52S, LPI 42Plus, LPI 52Plus 1-1/2" (2 x) 10d (3") 3, 6-3/8" 3, 8-3/4" 3, 10-7/8" 3, 12-7/8" PWI 56L, LPI 56 1-1/2" (2 x) 10d (3") - 4, 8-3/4" 5, 10-7/8" 6, 12-7/8" 1. Web stiffeners shall be installed in pairs – one to each side of the web. Web stiffeners are always required for the "Bird's Mouth" roof joist bearing de 2. Web stiffeners shall be cut to fit between the flanges of the PWT I-Joist, leaving a minimum 1/8" gap (1" maximum). At bearing locations, the stiffeners shall be installed tight to the bottom flange. At locations of concentrated loads, the stiffeners shall be installed tight to the top flange. Web stiffeners shall be cut from APA Rated OSB (or equal) or from PWT LVL or OSB Rim Board. 2x lumber is permissible. 1/8" min., 1" max. gap Do NOT use 1x lumber as it tends to split. Do NOT build up the required stiffener thickness from multiple pieces. 4. Web stiffeners shall be the same width as the bearing surface, with a minimum of 3-1/2." 5. See Web Stiffener Requirements for minimum stiffener thickness, maximum stiffener height and required nailing



2ND FLOOR FRAMING

SCALE: 1/4'' = 1'

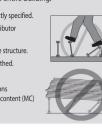
JOIST LABELING SCHEME: (QTY) MARK X LENGTH @ O.C. SPACING

THIS IS A PLACEMENT PLAN ONLY AND HAS NOT BEEN DESIGNED BY U.S. LUMBER OR PACIFIC WOODTECH THIS PLAN IS BASED ON FRAMING PLANS PROVIDED BY MATHEW G. STROTHER, P.E., DATED 12/19/2024 AND IS NOT INTENDED TO REPLACE THE ARCHITECTS STRUCTURAL PLANS. WHEN USED IN CONJUNCTION WITH THE ARCHITECTS PLAN, IF SIZE DISCREPANCIES OCCUR, ANY BEAMS SPECIFIED BY THE ARCHITECT OF RECORD SHALL TAKE JOIST SERIES SUBSTITUTIONS ARE BASED ON MANUFACTURERS PUBLISHED DESIGN PROPERTIES AND SPAN

ALLOWANCES. ALL MEMBER SIZES HAVE BEEN SPECIFIED BY THE DESIGNER OF RECORD. SUITABILITY, LOADING AND CONNECTIONS OF MEMBERS IS THE RESPONSIBILITY OF THE ARCHITECT. HANGERS SPECIFIED ON PLAN ARE BASED ON MATERIAL GEOMETRY ONLY AND MUST BE REVIEWED BY THE ARCHITECT PRIOR TO CONSTRUCTION TO ENSURE PROPER LOADING CAPACITIES.

mportant Notes WARNING: Failure to follow proper procedures for handling, storage and installation ould result in unsatisfactory performance, unsafe structures and possible collapse. hese instructions are offered as a guide to good practice in the handling, storage and installation of PWT I-Joists and LVL. They are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In all ses, the procedures used should be as specified by the architect/engineer responsible for the entire building.

This guide is not intended for product selection, and assumes that all components and details have been correctly specified. Consult the PWT I-Joist & LVL brochures, technical guides, installation guide, or contact your PWT products distributor No loads other than the weight of the workers are to be imposed on the structure before it is permanently sheathed. After sheathing, do not overload joists with construction materials exceeding design loads. PWT Untreated products (I-Joists and LVL) must be used under dry, covered and well-ventilated interior conditions.



for depths up to 9-1/4", and 2" for depths greater than 9-1/4".

For more information, contact your Pacific Woodtech distributor.

 ${\it 4. \;\; DO\;NOT\;drill\;holes\;in\;cantilevers\;without\;prior\;approval\;from\;the\;project\;engineer/architect.}$

5. Other hole sizes and configurations MAY be possible with further engineering analysis.

Rectangular holes are NOT allowed.

7. Protect plumbing holes from moisture.

Product Substitution Warning AILURE may result if this product is stituted with other brands or products his analysis is for PACIFIC WOODTECH oducts only. US Lumber will not be held ponsible if other brands are substitute

This Material Take Off is provided as an estimate of material needed for the referenced project. It is based on information provided and standard building and construction assumptions. The Take Off is provided without representation or warranty of any kind and is in no way guaranteed to reflect the exact quantity or types of material necessary to complete the project. The customer/builder and/or the architect/engineer are responsible for reviewing and verifying the listed materials based on the way they plan to construct the project. Actual material required to complete the project may be more or less than what is reflected in the Take Off, and any shortages or overages are the sole responsibility of the customer/builder and/or the architect/engineer



Installation Guide For access to the PWT installation guide, please use the camera function on your mobile device and scan this QR Code or use the web address shown below to gain access to the installation guide.

https://pwtewp.com/products/pwi-joist/#features

This placement plan is to be used as an installation guide only. It is meant to be used in conjunction with the manufacturers installation guide, the architectural and structural drawings, and not to replace them.