

BILTMORE

SEAL DATE 02/17/16

2ND FLOOR TJI PLACEMENT PLAN

Length

28' 6 1/2"

28' 4 3/4"

28' 4 3/4"

27' 5 1/4"

11' 10 3/4"

10' 0 1/2"

5' 4 1/2"

3' 6"

2' 0"

2' 0"

1' 0"

Length

22' 0"

16' 0"

4' 0"

16' 0"

4' 0"

Length

16' 0"

Qty

15' 10"

PlotID

F28*A*

F16

CBk2

CBk2

PlotID

M1-3

M4-2

M5-3

PlotID

STRim1

PlotID

TJIs

14" TJI® 110

Product

Product

Framing Connector Summary

Manuf

Simpson

Microllam

1 3/4" × 18" 2.0E Microllam® LVL

1 3/4" × 14" 2.0E Microllam® LVL

1 3/4" × 14" 2.0E Microllam® LVL

TJ Rim Board

1 1/8" x 14" TJ® Rim Board

IUS1.81/14

Product

HU14

1 3/4" × 9 1/4" 2.0E Microllam® LVL

1 3/4" × 9 1/4" 2.0E Microllam® LVL

Product

Plies

Net Qty

Plies

Plies



www.BLDR.com 7601 BOEING DRIVE GREENSBORO, NC 27409 V: 336.884.5454

1135 ROBENSON STREET FAYETTEVILLE NC 28305 V: 910.485.1111

3189 NC HIGHWAY5 ABERDEEN NC 28315 V: 910.944.2516

above (must stack over wall below when present) ∠End of joists at centerline of support

TJI® JOIST NAILING REQUIREMENTS at BEARING

1½" TimberStrand® LSL or TJ® ½" wide TJI® rim joist: Toe nail with 10d (0.128" x 3") nail into each flange 3½" wide TJI® joist TII® joist flange

21/₆" - 25/₆" wide TJI® rim joist: One 16d (0.135" x 3½") nail into each flange

Squash Blocks to TJI® Joist

One 10d (0.128" x 3")

Load bearing or shear wall

Load from above

Use 2x4 minimum squash blocks to transfer load around TJI® joist

Blocking panels may

walls above or below

(See detail B1)

Web stiffeners required if

3/8" of TJI® joist top flange

Hanger height must

be a minimum of

60% of joist depth

beams or walls.

sides of hanger do not laterally support at least

be required with shear

INTERMEDIATE BEARING

NO LOAD BEARING WALL ABOVE

squash blocks

Web stiffeners required

each side at B3W

Top mount hanger

DO NOT walk on joists

until braced.

INJURY MAY RESULT.

6. The flanges must remain straight within 1/2" from true alignment.

Face mount

WARNING

Joists are unstable until braced laterally

Bracing Includes:

Blocking
 Hangers
 Sheathing
 Strut Lines
 Rim Board
 Rim Joist

DO NOT walk on joists

that are lying flat.

WARNING NOTES:

Lack of proper bracing during construction can result in serious

accidents. Observe the following guidelines: 1. All blocking, hangers, rim boards and rim joists at the end supports of the TJI® joists must be completely installed and properly

2. Laterial strength, like braced end wall or an existing deck, must be established at the ends of the bay. This can also be

accomplished by a temporary or permanent deck (sheathing) fastened to the first 4 feet of joists at the end of the bay.

3. Safety bracing of 1x4 (minimum) must be nailed to a braced end wall or sheathed area (as in note 2) and to each joist Without this bracing, buckling sideways or rollover is highly probable under light construction loads - such as a worker or

one layer of unnailed sheathing.

4. Sheathing must be completely attached to each TJI® joist before additional loads can be placed on the system.

5. Ends of cantilevers require safety bracing on both the top and bottom flanges.

TJI® Joist to Bearing Plate

end support; 31/2" minimum

Shear transfer: Connections equivalent to

4" TimberStrand® LSL or

One 8d (0.113" x 21/2") nail each side. Drive — nails at an angle at

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MINIMUM DESIGN DATA -----LIVE LOAD 40 PSF

DEAD LOAD 10 PSF TOTAL LOAD 50 PSF -----

STRESS DURATION = 100%

-----DEFLECTION CRITERIA L/360 (MINIMUM)

FRAMER NOTE !!!! DO NOT stack building materials on unsheathed joists. Stack only over

SOLID BLOCK POST LOADS WITH 2x4 SQUASH BLOCKS FROM ABOVE TO BEARING PLATE BELOW. (ALL EXTERIOR DOOR HEADER JACK)

ARCHITECTUAL PLAN DATE xx / xx / xx

> Sheet 1 of 3