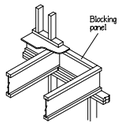
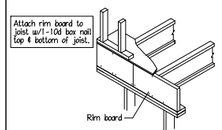
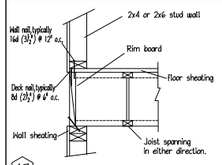


A1



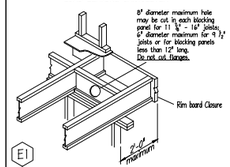
A3 Must have 1 3/4" minimum joist bearing at ends

For information on lateral load capacities refer to literature or local dealership.

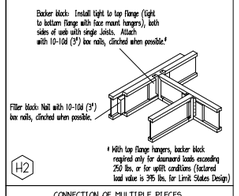


A7

LOAD BEARING CANTILEVER



E1



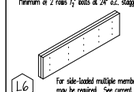
H2

* With top flange hangers, backer block required only for downward loads exceeding 250 lbs. or for uplift conditions (factored load value is 395 lbs. for Limit States Design)

CONNECTION OF MULTIPLE PIECES OF TOP-LOADED BEAMS

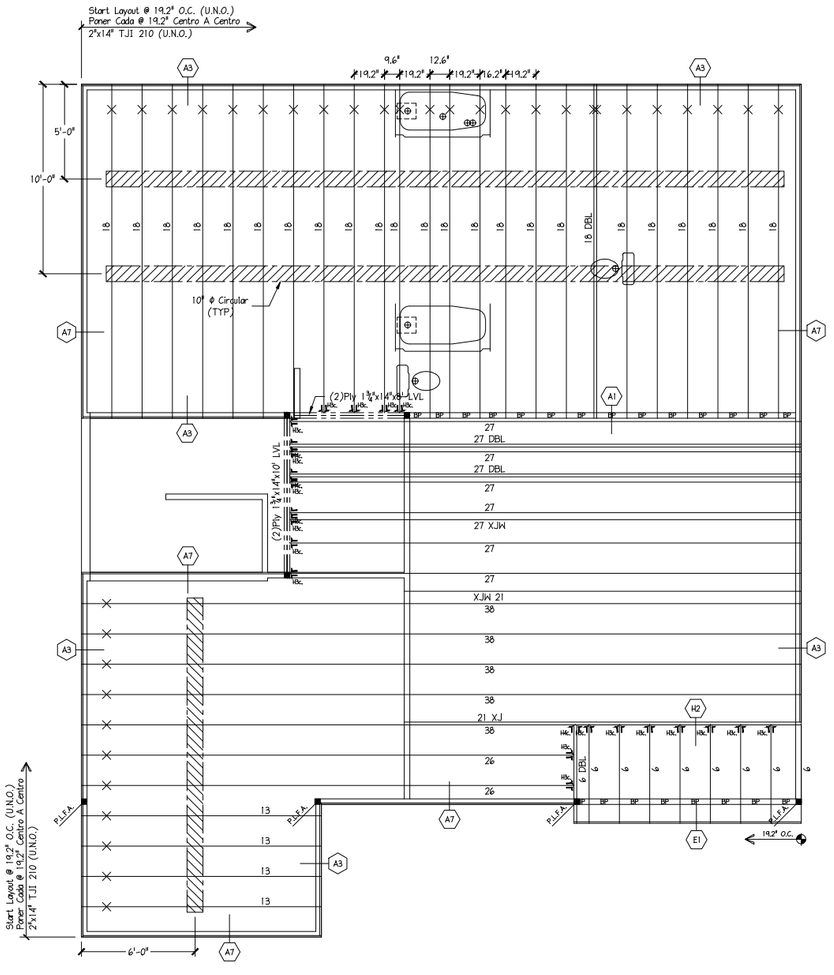
LVL & PSL (1¾" Width Pieces)

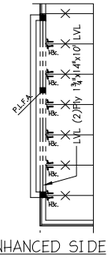
- Minimum of 2 rows 16d (3½") nails at 12" o.c.
- Minimum of 3 rows 16d (3½") nails at 12" o.c. for 14", 16", 18" beams.
- Multiple pieces of LVL & PSL can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7 inches. Minimum of 2 rows ½" bolts at 24" o.c. staggered.



L6 For side-loaded multiple member beams, additional nailing or bolting may be required. See current Joist literature.

Start Layout @ 19.2" O.C. (U.N.O.)
Poner Cada @ 19.2" Centro A Centro
2"x14" TJI 210 (U.N.O.)

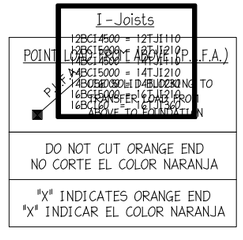




OPT. ENHANCED SIDE ELEVATION

2ND FLOOR I-JOIST PLACEMENT PLAN

MATTAMY HOMES - SHENANDOAH



SCALE: 1/4" = 1'-0" 0 5' 10'

ENGINEERED WOOD MATERIAL LIST

MATTAMY HOMES

SHENANDOAH

2ND FLOOR I-JOIST PLACEMENT PLAN

BASE - ALL ELEVATIONS

MARK	QTY	CUT LENGTH	DESCRIPTION (Holes)
6	10	6'-0"	2" x 14" TJI 210
13a	4	13'-0"	2" x 14" TJI 210 (1)
18a	25	18'-0"	2" x 14" TJI 210 (2)
21	2	21'-0"	2" x 14" TJI 210
26a	2	26'-0"	2" x 14" TJI 210 (1)
27	11	27'-0"	2" x 14" TJI 210
38a	5	38'-0"	2" x 14" TJI 210 (1) [Total 1143']

BEAMS AND HEADERS

LVL	2	8'-0"	1¾" x 14" LVL 2.0E (Flush)
LVL	2	10'-0"	1¾" x 14" LVL 2.0E (Flush)

ACCESSORIES & OTHER MATERIALS (Simpson Hangers)

ITEM	QTY	UNIT	DESCRIPTION
14" Rim	175	LF	1"x14" Rim 15 pcs@12' or 11 pcs@16'
BP	22	1'-5 1/8"	14" Blocking Panel [Total 44']
H4c	3	PCS	MIU14.28/14 Double Face Mnt Hanger
H3c	20	PCS	IUS2.06/14 Single Face Mnt Hanger
10CUT14C	61	HOLE	10" Circular Cutout
TJLAYOUT	1	PCS	TJI Placement Layout
TJGUIDE	1	PCS	TJI Installation Guide

OPT. ENHANCED SIDE ELEVATION

MARK	QTY	CUT LENGTH	DESCRIPTION
H3c	+6	PCS	IUS2.06/14 Single Face Mnt Hanger
14" Rim	-9	LF	1"x14" Rim -1 pcs@12' or 0 pcs@16'
LVL	+2	10'-0"	1¾" x 14" LVL 2.0E (Flush)

SEE MATERIAL LIST FOR DEPTH, SERIES & LENGTH

30	INDICATES I-JOIST
TJW	INDICATES TYREBERSTRAND HDR, LSL
P.S.L.	INDICATES PICRO-LAM, LVL
G.L.	INDICATES GLULAM, PSL
	INDICATES GLUE-LAM, PSL
(B)	INDICATES A SECTION FROM THE INSTALLATION GUIDE DETAIL IS ALSO SHOWN ON THIS SHEET
L.B.H.A.	LOAD BEARING WALL ABOVE
B.B.O.	BEAM BY OTHERS
EXTRA	EXTRA JOIST ADDED
X.H.	EXTRA JOIST (1) UNDER WALL
DBL.	DOUBLE JOIST (2)
TRPL	TRIPLE JOIST (3)
BP	I-JOIST BLOCKING PANEL
B.P.	BLOCKING PANEL BY BOARD
PLFA	CONCENTRATED FLOOR LOAD FROM ABOVE
DROP BEAM	
FLUSH BEAM	

THIS SHOP DRAWING IS BASED ON THE FOLLOWING

PROJECT LOCATION :
PROJECT NUMBER :
ARCH DWGS DATE :
ARCH LATEST REVISION :
DATE :
CHECKED BY :
STRUCTURAL REVIEW BY :

REV	BY	DATE / DESC.
SD	JDS	

DESIGN DATA

LIVE 40 PSF
DEAD 10 PSF
TOTAL LOAD = 50 PSF

STRESS DURATION = 100%
DEFLECTION CRITERIA : (L/480)

Builders FirstSource
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BUILDER TO CERTIFY LOCATION OF SUPPORTS SHOWN AND VERIFY ALL DIMENSIONS.
THIS DESIGN IS BASED ON THE 2015 NBCC AND THE 2014 CSA STANDARD O86 AND SHOULD BE REVIEWED BY THE BUILDING DESIGNER PRIOR TO USE. IT IS NOT VALID FOR USE IN ANY OTHER EDITION OF THE NBCC OR CSA STANDARD O86 UNLESS SPECIFICALLY REVIEWED FOR SUCH USE.
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DO NOT ATTACH OR CUT LEDGERS. USE ADEQUATE BLOCKING FOR STRAIGHTNESS AND ALIGNMENT.
DEAD LOAD DEFLECTION FOR CANTILEVERS MAY BE SIGNIFICANT. CONSIDER APPROPRIATE CAMBER FOR FLOOR SYSTEMS TO BE LEVEL AND FREE TO SLOPE AS DESIGNED.
THIS DESIGN IS BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE FROM THE MANUFACTURER AT THE TIME OF DESIGN. BUILDER TO VERIFY THAT THE LATEST PRODUCT INFORMATION HAS BEEN USED IF CONSTRUCTION IS DELAYED.
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BUILDER: MATTAMY HOMES
MODEL: SHENANDOAH

2ND FLOOR I-JOIST PLACEMENT PLAN

TIME: TUESDAY, 26 OCTOBER 2021 - 11:02 AM
FILE: I:\APEX\TJI\ACAD\DWG\MATTAMY HOMES\SHENANDOAH.DWG

DRAWN BY: NJH DATE: 10/26/21

SHEET: 2 OF 2 SHEETS