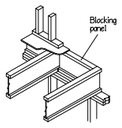
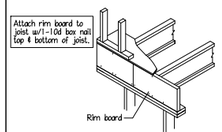
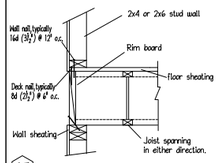


A1



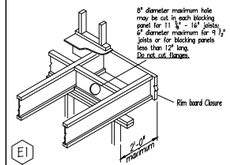
A3 Must have 1¾" minimum joist bearing at ends

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

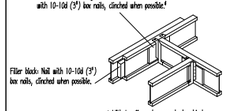


A7

LOAD BEARING CANTILEVER



E1



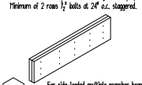
* With top flange hangers, backer block required only for downward loads exceeding 250 lbs. or for uplift conditions (factored load value is 375 lbs. for Limit States Design)

H2

CONNECTION OF MULTIPLE PIECES OF TOP-LOADED BEAMS

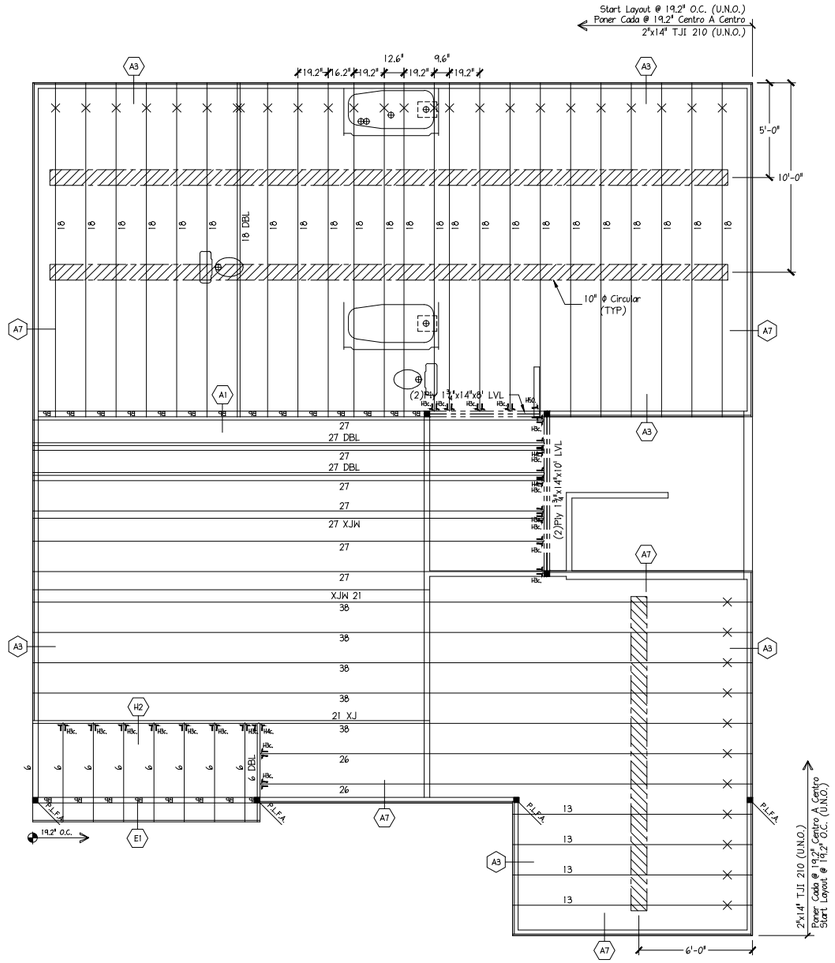
LVL & PSL (1¾" Width Pieces)

- 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.



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

L6



2ND FLOOR I-JOIST PLACEMENT PLAN

MATTAMY HOMES - SHENANDOAH

OPT. ENHANCED SIDE ELEVATION

POINT LOAD FROM ABOVE (P.L.F.A.)

P.L.F.A. — USE SOLID BLOCKING TO TRANSFER LOAD FROM ABOVE TO FOUNDATION

DO NOT CUT ORANGE END
NO CORTE EL COLOR NARANJA

"X" INDICATES ORANGE END
"X" INDICAR EL COLOR NARANJA

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')
H50	1	PCS	HHUS410 3½" Face Mnt -Brn Hgr
H4c	3	PCS	MIU4.28/14 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 TJI	INDICATES TJ-JOIST
90 RIM	INDICATES TJ-RESERVESTRAND HDR, LSL
11 LVL	INDICATES PICO-LAM, LVL
21 PSL	INDICATES PARALLAM, PSL
	INDICATES GLULAM, GL
(B)	INDICATES A SECTION FROM THE INSTALLATION GUIDE DETAIL IS ALSO SHOWN ON THIS SHEET

LBRA.	LOAD BEARING WALL ABOVE
BJ&S.	BEAM BY OTHERS
EXTRA	EXTRA JOIST ADDED
XJW	EXTRA JOIST (1) UNDER WALL
DBL	DOUBLE JOIST (2)
TRPL	TRIPLE JOIST (3)
BP	I-JOIST BLOCKING PANEL
BLK	SOLID BLOCKING BY BOARD
PLFA	CONCENTRATED POINT LOAD FROM ABOVE
DROP BEAM	
FLUSH BEAM	

THIS SHOP DRAWING IS BASED ON THE FOLLOWING

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

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)

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Builders FirstSource

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99. ALL BEARING SURFACES MUST BE CAPABLE OF RESISTING THE REACTION FORCES AND MUST ACCEPT A MINIMUM OF 3 INCHES.
100. ALL BEARING SURFACES MUST BE BETTER THAN OR EQUAL TO SPRUCE-PINE-FIR #2 OR BETTER.

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