

Actual materials and quantities may vary due to jobsite conditions, design changes and installation variations. It is the responsibility of the Builder for this Layout to be reviewed and Approved by an appropriate Design Professional as required by the permitting authority.

ALL ROOF LOADS ASSUMED TO BE SUPPORTED AT EXTERIOR WALLS AND BEAMS BY OTHERS, IF APPLICABLE, UNLESS OTHERWISE NOTED.
NO ROOF LOADS APPLIED TO FLOOR MEMBERS.

11 7/8" TJI
210'S 16" O.C.
UNLESS OTHERWISE NOTED

HANGER NAILING FOR UNIFORMLY LOADED BEAMS

Joint & Beam Hanger Face Nailing Requirements for 2 & 4 Ply Supporting Members

For IUS or THF Hangers - Use 10d (0.148") x 3" nails.

For U, MIU, HU, HHUS, HGUS or HD, THD, THDH Hangers - Use 16d (0.162") x 3 1/2" nails.

*For hangers that have joint fasteners/connections, fill all holes with the manufacturer's recommended fasteners.

MULTIPLE PLY CONNECTION NAILING FOR UNIFORMLY LOADED BEAMS

2&3 PLY BEAMS	NAILING CONNECTION					
8 1/2" - 11 1/2" Depth	(3) Rows of 10d (0.128") x 3" Box Nails at 12" o.c.					
14" - 24" Depth	(4) Rows of 10d (0.128") x 3" Box Nails at 12" o.c.					
4 PLY BEAM	NAILING CONNECTION					
8 1/2" - 24" Depth	(4) Rows of 10d (0.128") x 3" Box Nails at 12" o.c.					

- 16d (0.131") pneumatic nails may be substituted for 10d (0.128") Box nails.
 - Stagger nails by 6" per ply
 - All plies must be same material, grade, and 1 1/2" thickness.
 - Joint-Hanger's connecting into the side of the beam must be installed with minimum 3" long nails.

MULTIPLE PLY CONNECTION NAILING FOR POINT LOADS

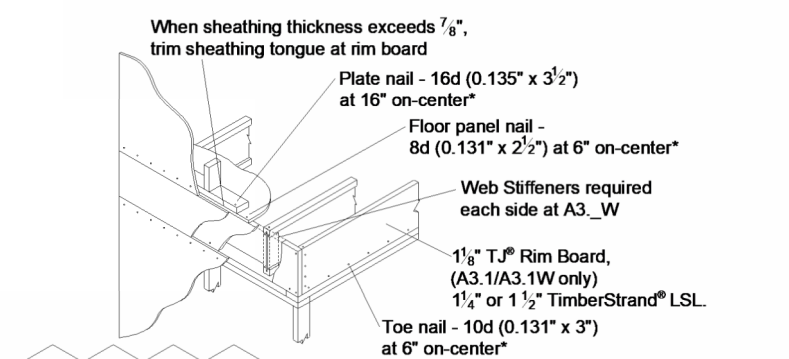
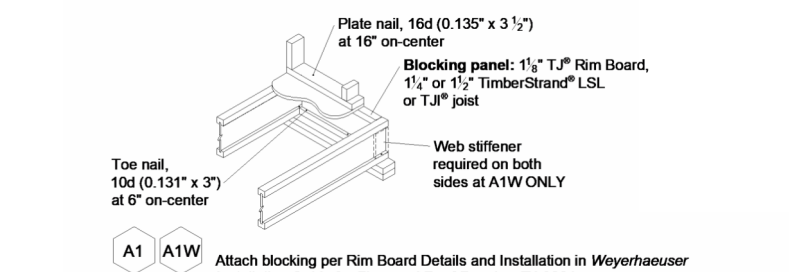
Hanger shown for reference. Install screws from side opposite of hanger.

Install 1/2 the required screws on each side of hanger

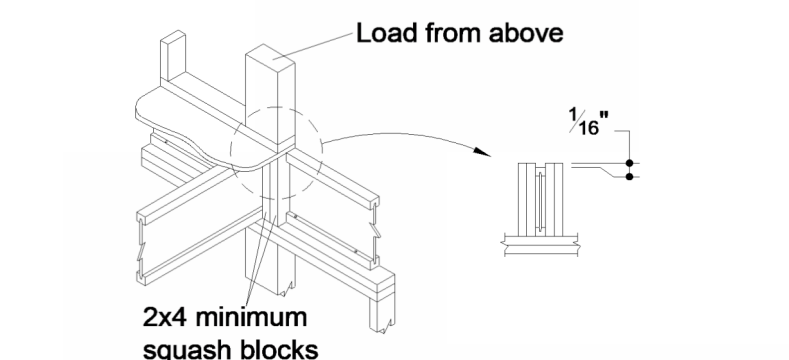
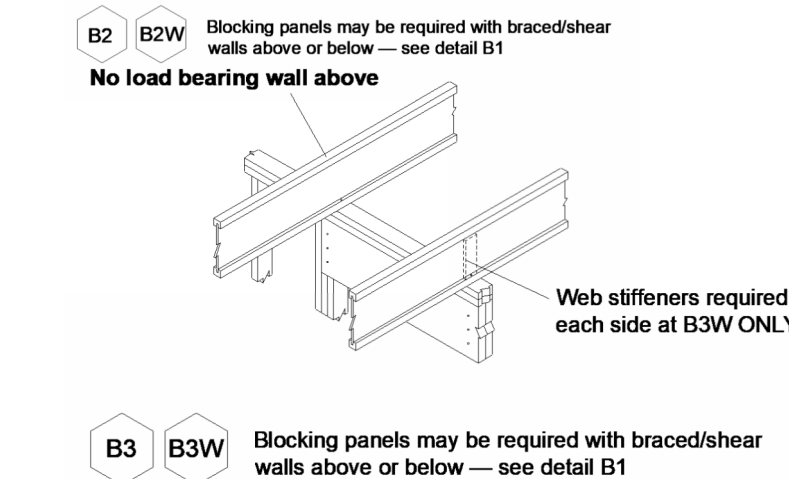
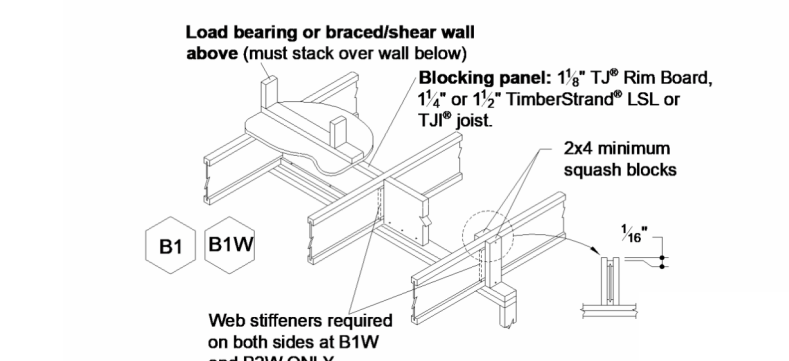
SIMPSON STRONG-TIE® HANGERS

	U	HU	HHUS	HGUS	HD	THD	THDH
3 PLY SUPPORT BEAM							
TOTAL # OF 3 1/2" TRUSSLOK® SCREWS	4	6	8	14	6	12	16
TOTAL # OF 3 1/2" SIMPSON SDS SCREWS	4	4	6	12	6	10	12
4 PLY SUPPORT BEAM							
TOTAL # OF 3 1/2" TRUSSLOK® SCREWS	4	6	10	20	8	16	20
TOTAL # OF 6" SIMPSON SDS SCREWS	6	8	12	24	10	20	26

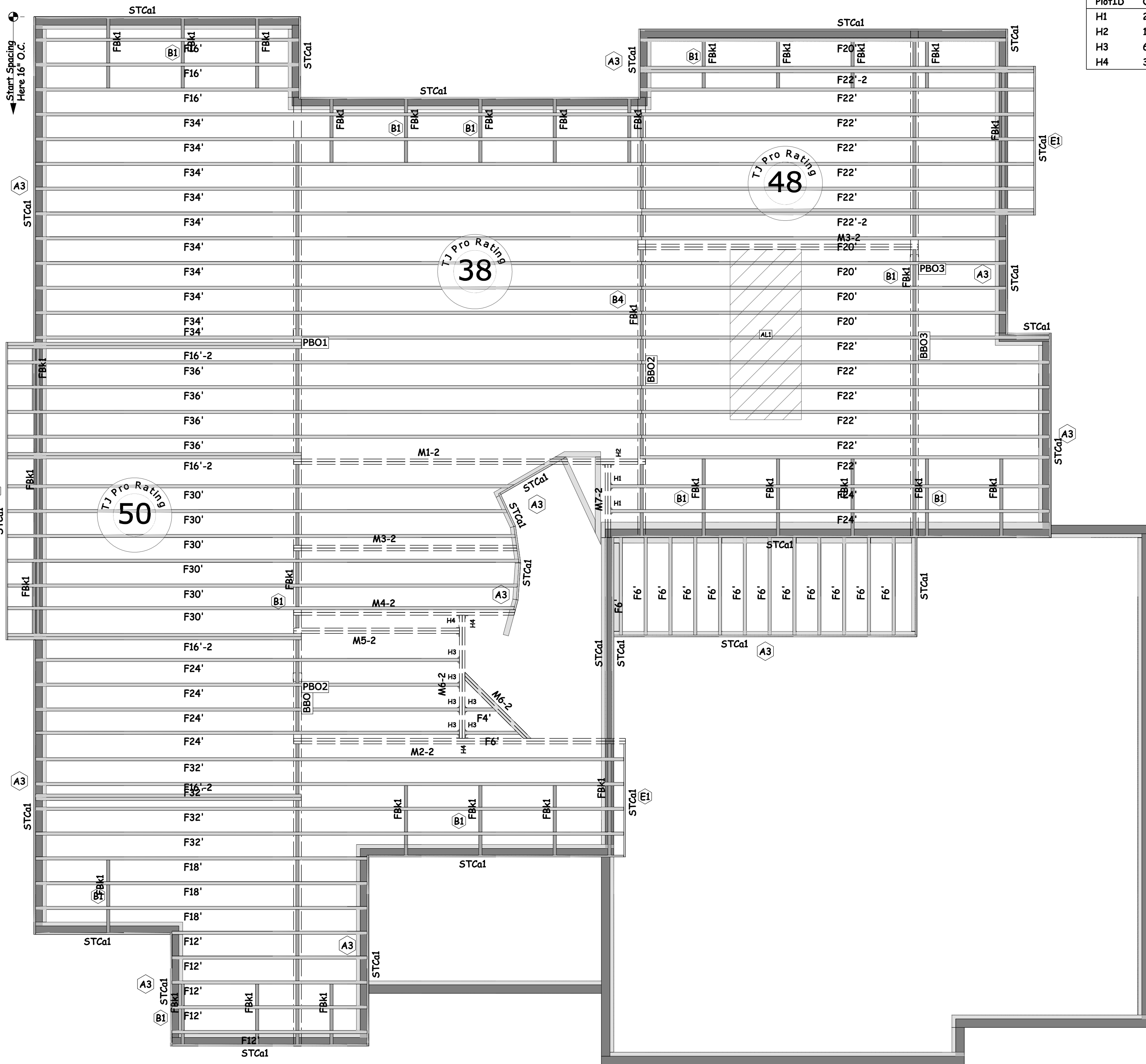
- Connections based on FastenMaster TrussLok® and Simpson Strong-Tie® code reports.
 - All plies assumed to be the same material, grade, and 1 1/2" in thickness
 - Connections based on given hangers maximum capacity at 100% Load Duration Factor. Adequate for 115% and 125% Load Duration Factor as well.
 - Connection assumes the use of 16d nails and max nailing in hangers.
 - See TB-300 for alternate connector types and loading.



* For A3.1-A3.3 installation specifications see Rim Board Details and Installation in Weyerhaeuser Installation Guide for Floor and Roof Framing, TJ-9001.



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



Van Deurzen and Associates, P.A.
11011 King Street, Suite 130
Overland Park, KS 66210
(913) 451-6305 FAX: (913) 451-1021

This shop drawing has been reviewed for conformance with the design concept and information given in the Contract Documents.

☒ Reviewed with no exceptions noted.
☐ Reviewed as noted.
☐ Returned for correction.
☐ Not Reviewed.

By: JWH Date: 11/26/2024

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/09/2025

WARNING

Joists are unstable until braced laterally

Bracing Includes:

- Blocking
- Sheathing
- Hangers
- Rim Board
- Strut Lines
- Rim Joist



DO NOT walk on joists until braced.
INJURY MAY RESULT.



DO NOT walk on joists that are lying flat.



DO NOT stack building materials on unheated joists. Stack only over beams or walls.

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 nailed.
2. Lateral 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. Install bracing with 2- 8d (0.131" x 2-7/8") nails each joist and end support at 6 ft on center (6 ft for TJI 110 joists). 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.
6. The flanges must remain straight within 1/2" from true alignment.
7. See www.weyerhaeuser.com for additional installation information.

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Framing Connector Summary											
PlotID	Qty	Manuf	Product	Design Method	Face Nails	Top Nails	Member Nails	Skew	Slope	Backer Blks	Filler
H1	2	Simpson	ITS2.06/11.88	Geometry Only	2- 10dx1.5	4- 10dx1.5	2- Strong-Grip	-	-	No	No
H2	1	Simpson	MIT411.88	Geometry Only	4- 10dx1.5	4- 10dx1.5	2- 10dx1.5	-	-	No	No
H3	6	Simpson	ITS2.06/11.88	Designed	2- 10dx1.5	4- 10dx1.5	2- Strong-Grip	-	-	No	No
H4	3	Simpson	MIT411.88	Designed	4- 10dx1.5	4- 10dx1.5	2- 10dx1.5	-	-	No	No

LEVEL NOTES	
Current Date:	11/22/2024
File Name:	fpm24-1159_v1
Level Name:	Foundation
Building Code:	IBC/IRC 2018
Members with Design Overridden:	
TJ-Pro Rating (Weighted Average):	46
Minimum Level TJ - Pro Rating & Joist:	TJ-Pro rating = 38, joist = F34' (i2738)
Maximum Level TJ - Pro Rating & Joist:	TJ-Pro rating = 68, joist = F12' (i3061)
FLOOR	
Floor Container:	FC1, FC2
Use/Occupancy:	Residential/LivingAreas
Floor Area Loading is:	40.0 lb/ft² Live Load & 12.0 lb/ft² Dead Load
Operator Added Additional Loads	
Maximum Allowed Deflection:	L/480 Live Load & L/240 Total Load
TJ-Pro Rating Information:	
Weighted Average:	FC2: 46
Directly Applied Ceiling:	None
Decking Attachment:	Glue and Nail
Decking Material:	23/32"x48"x96" Weyerhaeuser Edge Panel (0/24) T&G FF
Perpendicular Partition:	No
Strapping at max 8' o.c.:	None
Blocking at max 8' o.c.:	No
Poured Flooring:	No

Products				
PlotID	Length	Product	Plies	Net Qty
F36'	36' 0"	11 7/8" TJI 210 joist	1	4
F34'	34' 0"	11 7/8" TJI 210 joist	1	10
F32'	32' 0"	11 7/8" TJI 210 joist	1	4
F30'	30' 0"	11 7/8" TJI 210 joist	1	6
F24'	24' 0"	11 7/8" TJI 210 joist	1	6
F22'-2	22' 0"	11 7/8" TJI 210 joist	2	4
F22'	22' 0"	11 7/8" TJI 210 joist	1	11
F20'	20' 0"	11 7/8" TJI 210 joist	1	5
F18'	18' 0"	11 7/8" TJI 210 joist	1	3
F16'-2	16' 0"	11 7/8" TJI 210 joist	2	8
F16'	16' 0"	11 7/8" TJI 210 joist	1	3
F12'	12' 0"	11 7/8" TJI 210 joist	1	5
F6'	6' 0"	11 7/8" TJI 210 joist	1	13
F4'	4' 0"	11 7/8" TJI 210 joist	1	1
M1-2	20' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL	2	2
M2-2	18' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL	2	2
M3-2	16' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL	2	4
M4-2	14' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL	2	2
M5-2	10' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL	2	2
M6-2	8' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL	2	4
M7-2	4' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL	2	2
STCa1	16' 0"	1 1/8" x 11 7/8" TJ Rim Board	1	17

Accessories				
PlotID	Length	Product	Plies	Net Qty
23/32"x48"x96" Weyerhaeuser Edge Panel (0/24) T&G FF			1	69

Blocking				
PlotID	Length	Product	Plies	Net Qty
FBK1	2' 0"	11 7/8" TJI 210 joist	1	138
FBK1	1' 0"	11 7/8" TJI 210 joist	1	35

Total Lengths	
Length	Product
2049' 0"	11 7/8" TJI 210 joist
228' 0"	1 3/4" x 11 7/8" 2.0E Microlam LVL
332' 0"	1 1/2" x 5 1/2" 1.3E StrandGuard Timber-Strand LSL
272' 0"	1 1/8" x 11 7/8" TJ Rim Board

This layout is intended for product application assurance and is not intended to circumvent the need for a design professional as determined by the Building Codes. The designer of record and/or builder/ framer is responsible to assure these drawings are compatible with the overall project.

ENGINEERED WOOD PRODUCTS

Weyerhaeuser

Symbol Legend

- ◇ User Defined Point Load
- ▨ User Defined Line Load
- ▨ User Defined Area Load
- BBO Beam By Others
- PBO Post By Others
- Layout Start Location
- Construction Detail Callout (See Framer's Pocket Guide)
- ⚠ Excessive Point Load (WARNING: Member design did not include this load. Special consideration is required by the designer of record.)
- ⚠ Required Bearing Length (Only placed at insufficient bearing locations.)

PREPARED BY
MATT LIPPETT
FOREST PRODUCTS SUPPLY
913-441-7000

STRUCTURAL DATE:

11.18.2024

ARCHITECTURAL DATE:

11.18.2024

SCALE
1/4"=1'-0"

PROJECT # :
FPM24-1159

11/22/2024

SHEET
10 OF 2



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

Web site required on sides at

SCAN WITH YOUR SMARTPHONE
**INSTALLATION GUIDE FOR
 FLOOR AND ROOF FRAMING**

www.timberjoist.com/document-library/10/0001

SCAN WITH YOUR SMARTPHONE
**DAMAGE REPORTING
 MOBILE TOOL**

www.timberjoist.com/damage-reporting

- Connections based on FastenMaster TrussLok® and Simpson Strong-Tie® code reports.
- All plies assumed to be the same material, grade, and 1 3/4" in thickness
- Connections based on given hangers maximum capacity at 100% Load Duration Factor. Adequate for 115% and 125% Load Duration Factor as well.
- Connection assumes the use of 16d nails and max nailing in hangers.
- See TB-300 for alternate connector types and loading.

Total Lengths	
Length	Product
994' 0"	9 1/2" TJI 210 joist
32' 0"	1 3/4" x 14" 2.0E Microllam LVL
382' 0"	1 3/4" x 9 1/2" 2.0E Microllam LVL
160' 0"	1 1/8" x 9 1/2" TJ Rim Board

By. JWH Date: 11/26/2024



NOT stack building materials on unsheathed joists. Stack only over

1. All blocking, hangers, rim boards and rim joists at the end supports of the TJF® joists must be completely installed and

2. Lateral 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 bracing with 2 - 8d (0113" x 2.5") nails each joist and end support at 8 ft on center (6 ft for T-J 110 joists). Without this

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.

7. See www.wy.com/besafe for additional installation information.

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iLEVEL™ FRAMER'S POCKET GUIDE

Locate rim board joint between

01/09/2021