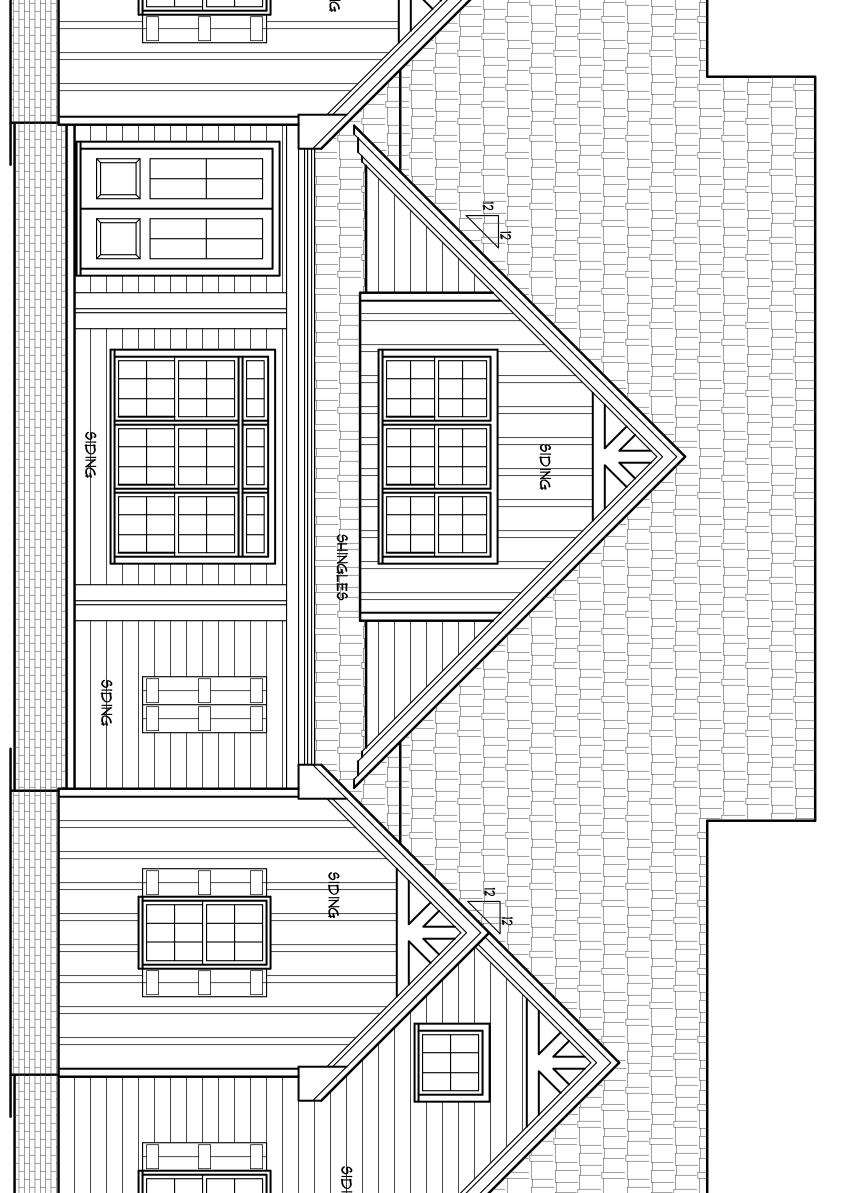
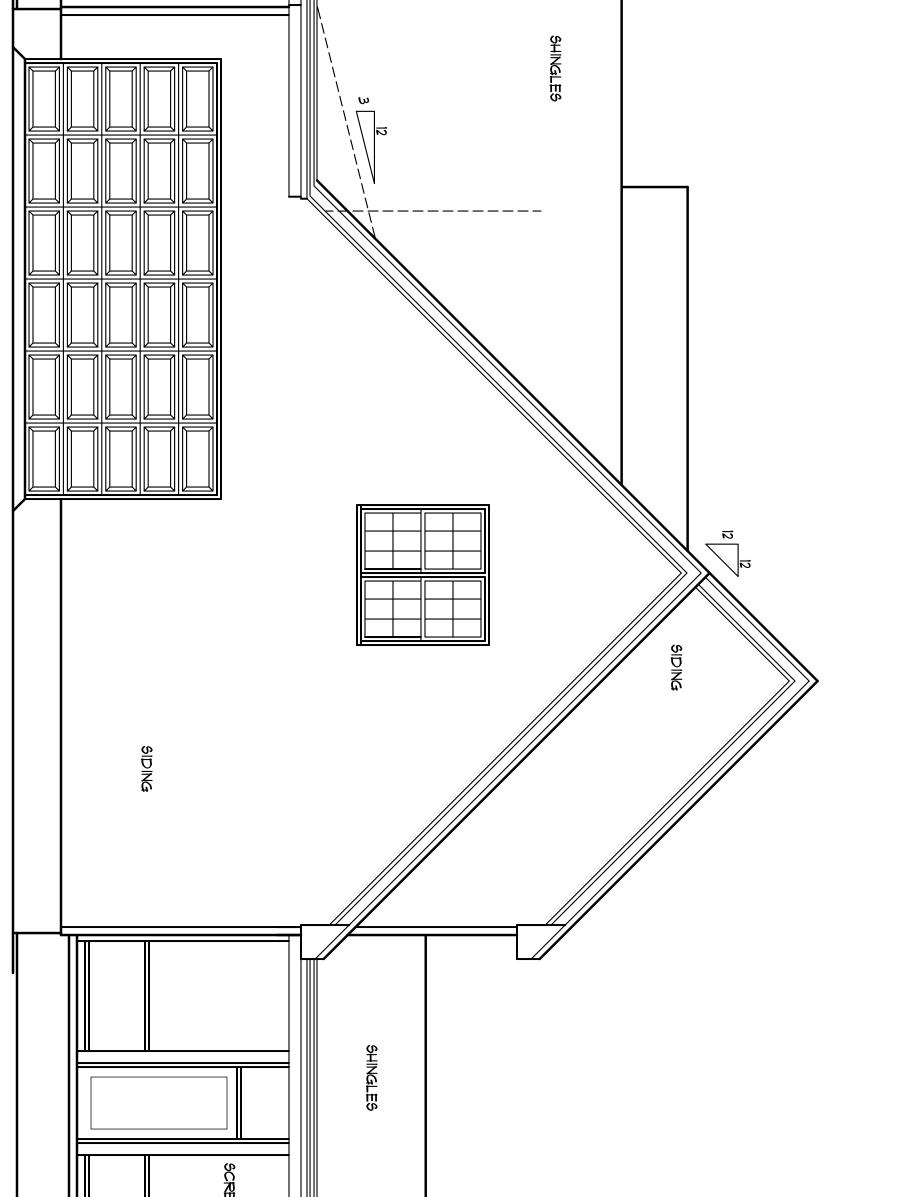
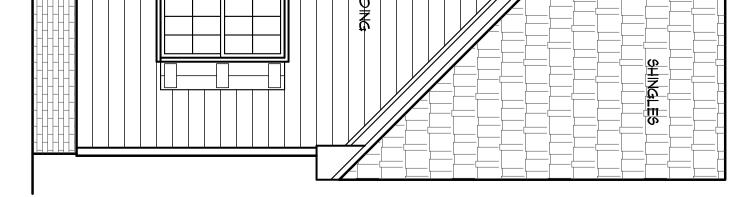
	Revised to add Office space 03/10/2022 Approved B.S.		AL CONSTRUCTION SHALL CONFORM TO THE 2018 EDITION OF THE NC STATE BUILDING CODES CODES GOVERN OVER DRAWINGS. DIMENSIONS GOVERN OVER SCALE. VERIFY ALL MECHANICAL REQUIREMENTS BEFORE REAMING. VUNCANNON DESIGNS DOES NOT ASSUME LIABILITY FOR ANY DEVIATION OF OR CONSTRUCTION METHODS OF THESE PLANS.

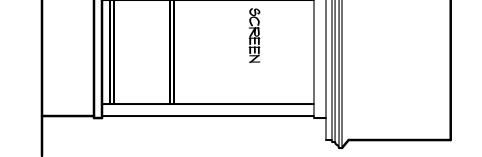




**RIGHT SIDE ELEV** SCALE: 1/4" = 1'-Ø"





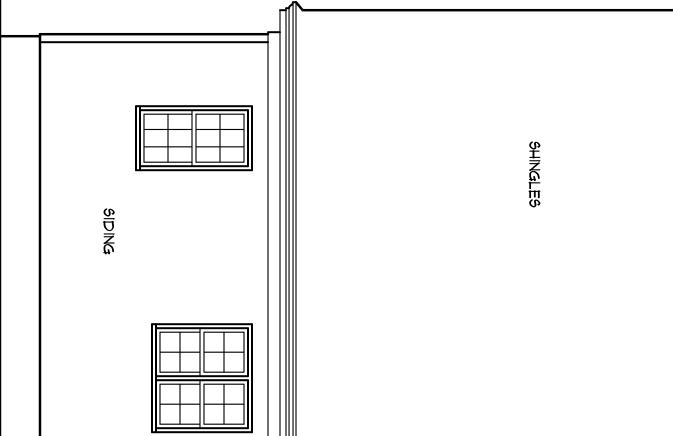




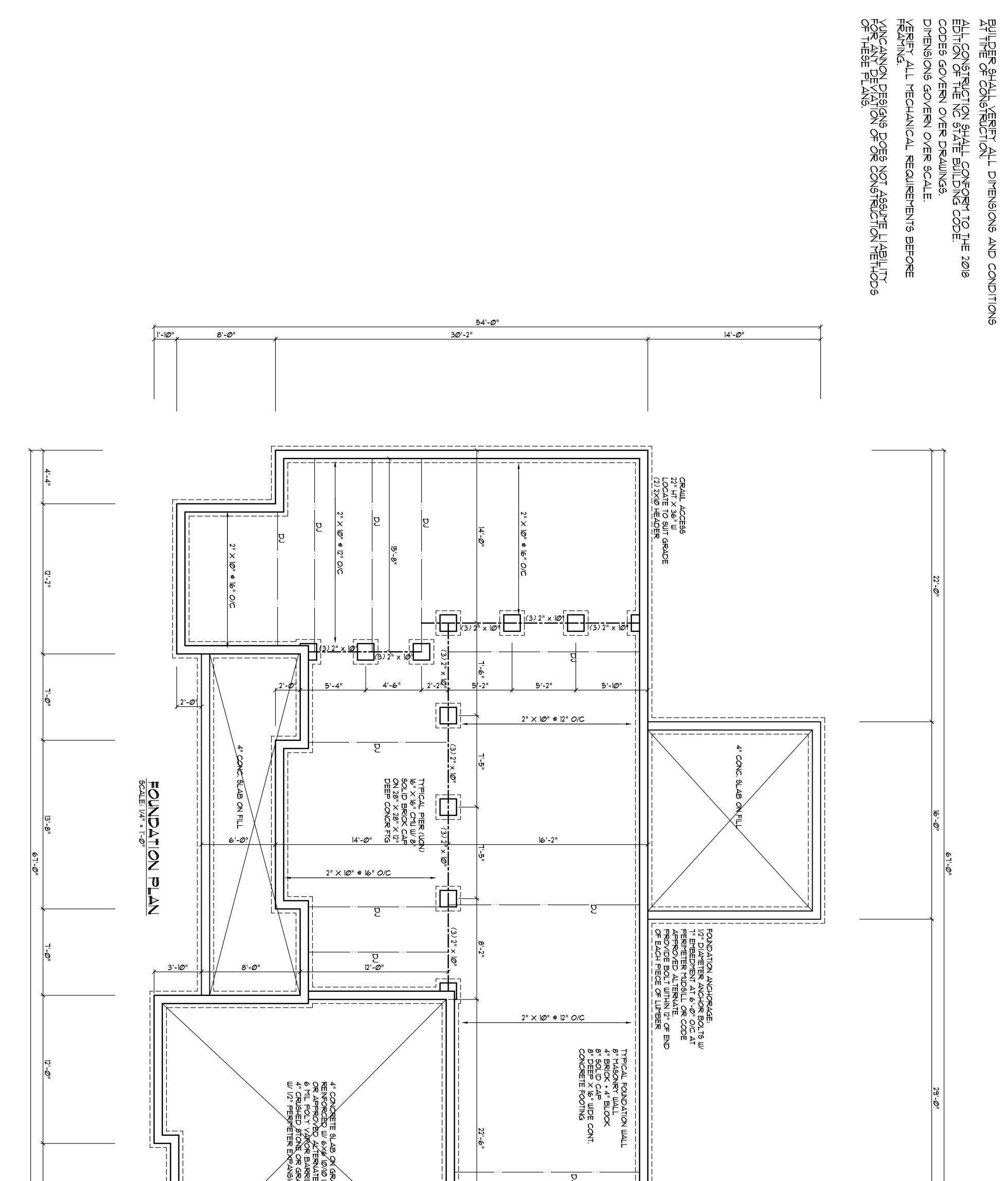
DRAWN BY : W CHK'D BY : W DATE : 02/05/ REVISIONS :	VUNCANNON DESIGNS CUSTOM HOME PLANS FUQUAY-VARINA, NC - (919) 427-7374	MILTON BUILT HOMES
	$\sim$	

ALL CONSTRUCTION SHALL CONFORM TO THE 2018 EDITION OF THE NC STATE BUILDING CODE. CODES GOVERN OVER DRAWINGS. DIMENSIONS GOVERN OVER SCALE. VERIFY ALL MECHANICAL REQUIREMENTS BEFORE FRAMING. BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT TIME OF CONSTRUCTION. YUNCANNON DESIGNS DOES NOT ASSUME LIABILITY FOR ANY DEVIATION OF OR CONSTRUCTION METHODS OF THESE PLANS.





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DRAWN BY : CHK'D BY : DATE : Ø2/Ø REVISIONS : SHEET	VUNCANNON DESIGNS CUSTOM HOME PLANS FUQUAY-VARINA, NC - (919) 427-7374	MILTON BUILT HOMES		



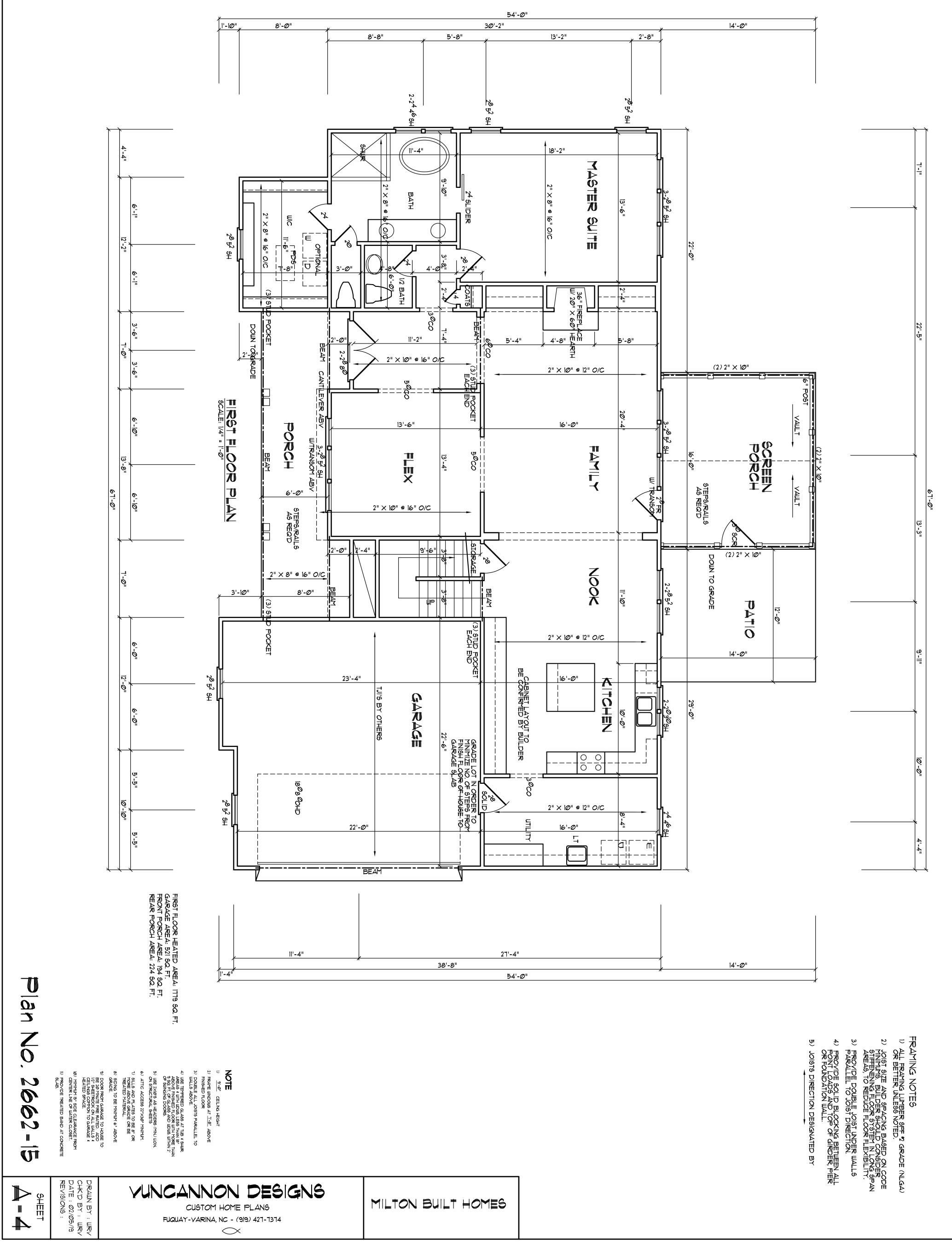
CRAWL SPACE VEN PROVIDE AT LEAST 1.0 SQ. FT. N VENTILATION AREA FOR EACH OF CRAWL SPACE CRAWL SPACE AREA: 2191 / 150 = 14.65 SQ. FT. 2191 / 150 = 14.65 SQ. FT. 2191 / 150 = 14.65 SQ. FT. 2191 / 150 = 14.65 SQ. FT. REPUCE REQUIRED AREA TO 14 NET FREE VENTILATION AREA TO 14 NUMBER OF VENT WITHIN 3'-0" NUMBER OF VENTS REQUIRED TO D NUMBER OF VENTS REQUIRED TO D NUMBER OF VENTS REQUIRED TO D	LUG FOOTING 2'-2"  -4"  -4"	LG X 30 TO OTING X 12 18'-2" 38'-8" 54'-0"	14'-@"
NTILATION T. NET FREE H 150 SQ. FT. A FOR EACH OF EACH DEFIERMINE O DETERMINE O DETERMINE O DETERMINE O DETERMINE O DETERMINE	BEOD.	ALLCWADLE FIER HEIGHTS SIZE HOLLOW SOLID 8"X16" 2'-8" 5'-0" 12"X16" 4'-0" 8'-0" 12"X16" 5'-4" 12'-0" 16"X16" 5'-4" 12'-0" 10"X16" 5'-4" 12'-0" 10"X10" SPECIFIED OTHERWISE OTHERWISE 10"X10" SAT 16" O.C. *2 S.P.F. 10" USE 2X10" S AT 16" O.C. *2 S.P.F. 10" DE MINIMUM 20" SOLID. 10" DE MINIMUM 20" SOLID. 11" FOOTING, UNDER MASONRY FIREPLACE	
	ION DESIGNS M HOME PLANG A, NC - (919) 421-1314		PLANG TAKE PRECEDENCE PREPAL NOTES. NOTED SOLELY RESPONSIBLE FOR SOLELY RESPONSIBLE FOR BUILDING CODE, VOL. VII 3. TO BE FC: 3000 PSI, CONSTRUCTION TO BUILDING CONDENDER HALL SOLED FL: CONSTRUCTION TO PRESSUMPTIVE SOLE SOLE CONDITIONS AT THE FOR VERIFYING THE FOR VERIFYING THE SOLE CONDITIONS AT THE ALL BE CENTERED UNDER FOR VERIFYING THE SOLE CONDITIONS AT THE ALL BE CENTERED UNDER FOR VERIFYING THE SOLE OF MASONRY. ALANCED FILL AGAINST AL ANCED FILL AGAINST THE NC STATE CODE. WHE THE NC STATE CODE. SOL ATION WITH BASEMENT SOL ATION WITH BASEMENT ALTERPROOFING AND DRAIN SOL ATION WITH BASEMENT ALL AS REQUIRED TO FNEER REQUIRED TO FNEER FLAND CLEAR OF

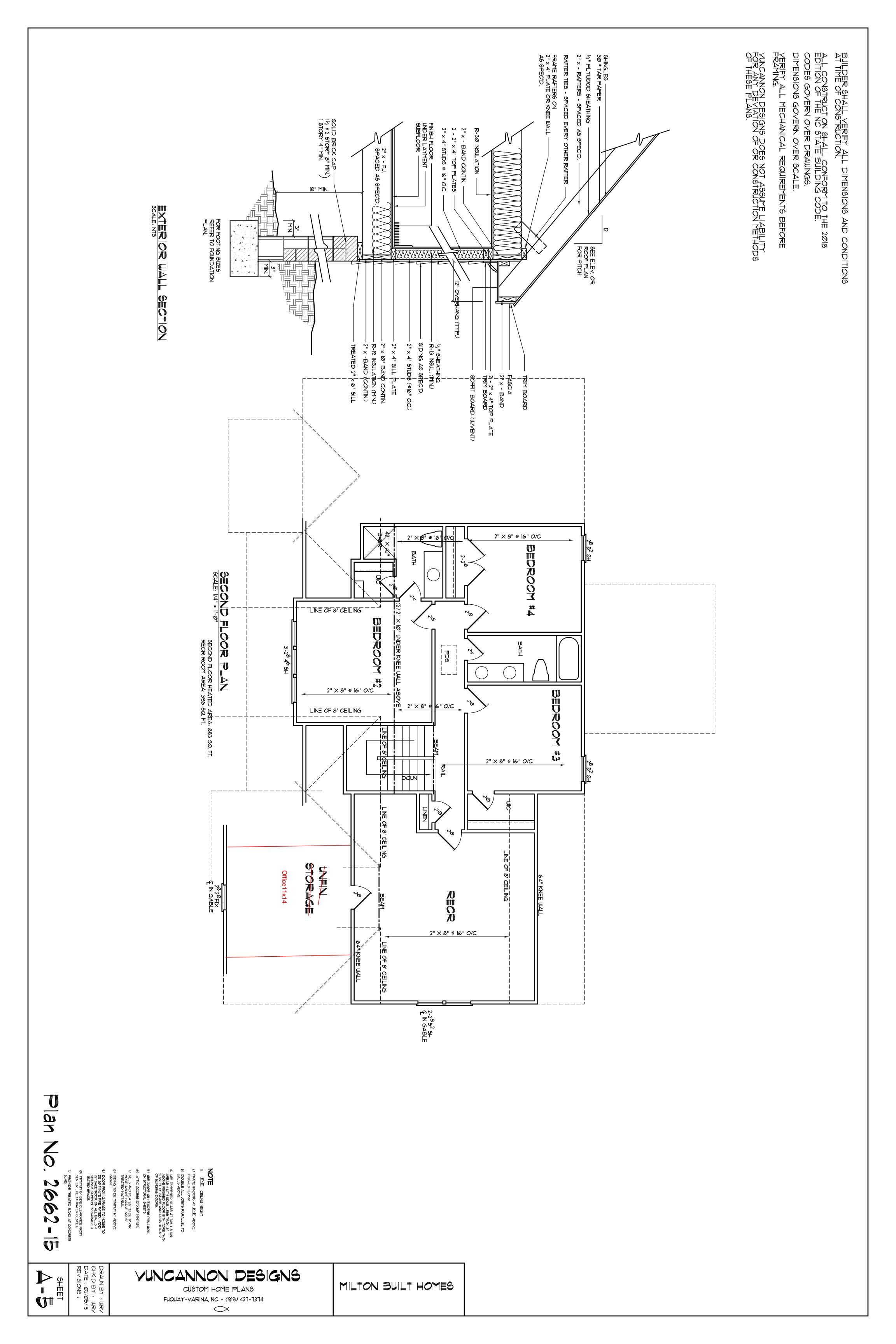
BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT TIME OF CONSTRUCTION. ALL CONSTRUCTION SHALL CONFORM TO THE 2018 EDITION OF THE NC STATE BUILDING CODE. CODES GOVERN OVER DRAWINGS.

CODES GOVERN OVER DRAWINGS. DIMENSIONS GOVERN OVER SCALE.

YERIFY ALL MECHANICAL REQUIREMENTS BEFORE FRAMING.

YUNCANNON DESIGNS DOES NOT ASSUME LIABILITY FOR ANY DEVIATION OF OR CONSTRUCTION METHODS OF THESE PLANS.

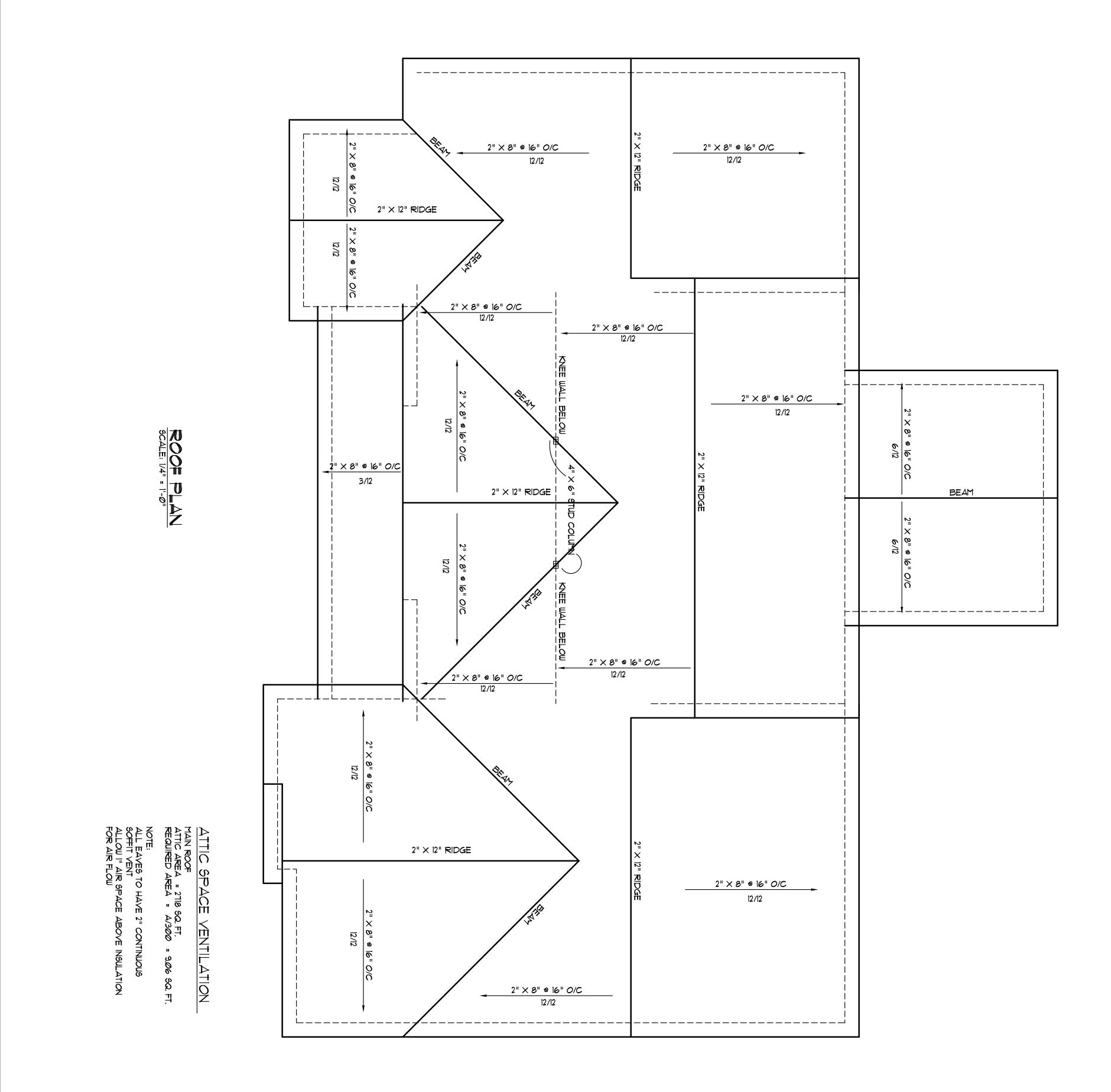




BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT TIME OF CONSTRUCTION. ALL CONSTRUCTION SHALL CONFORM TO THE 2018

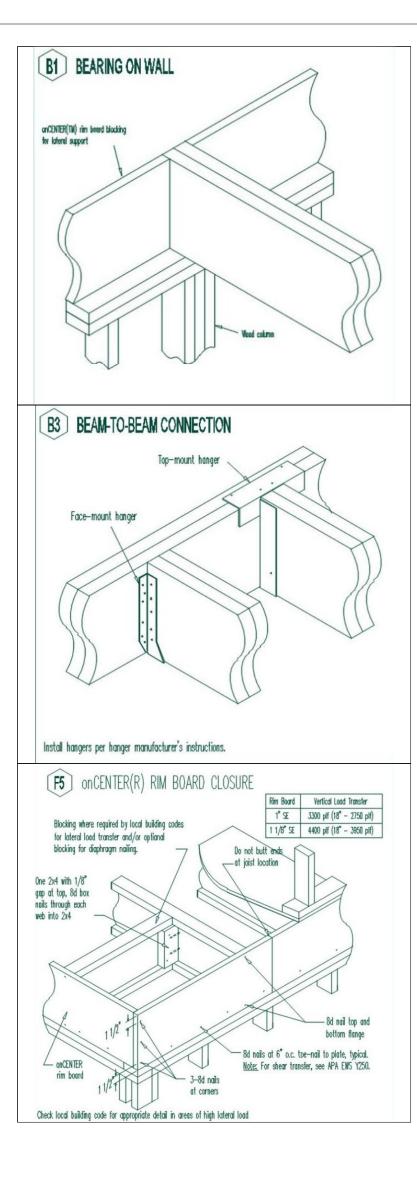
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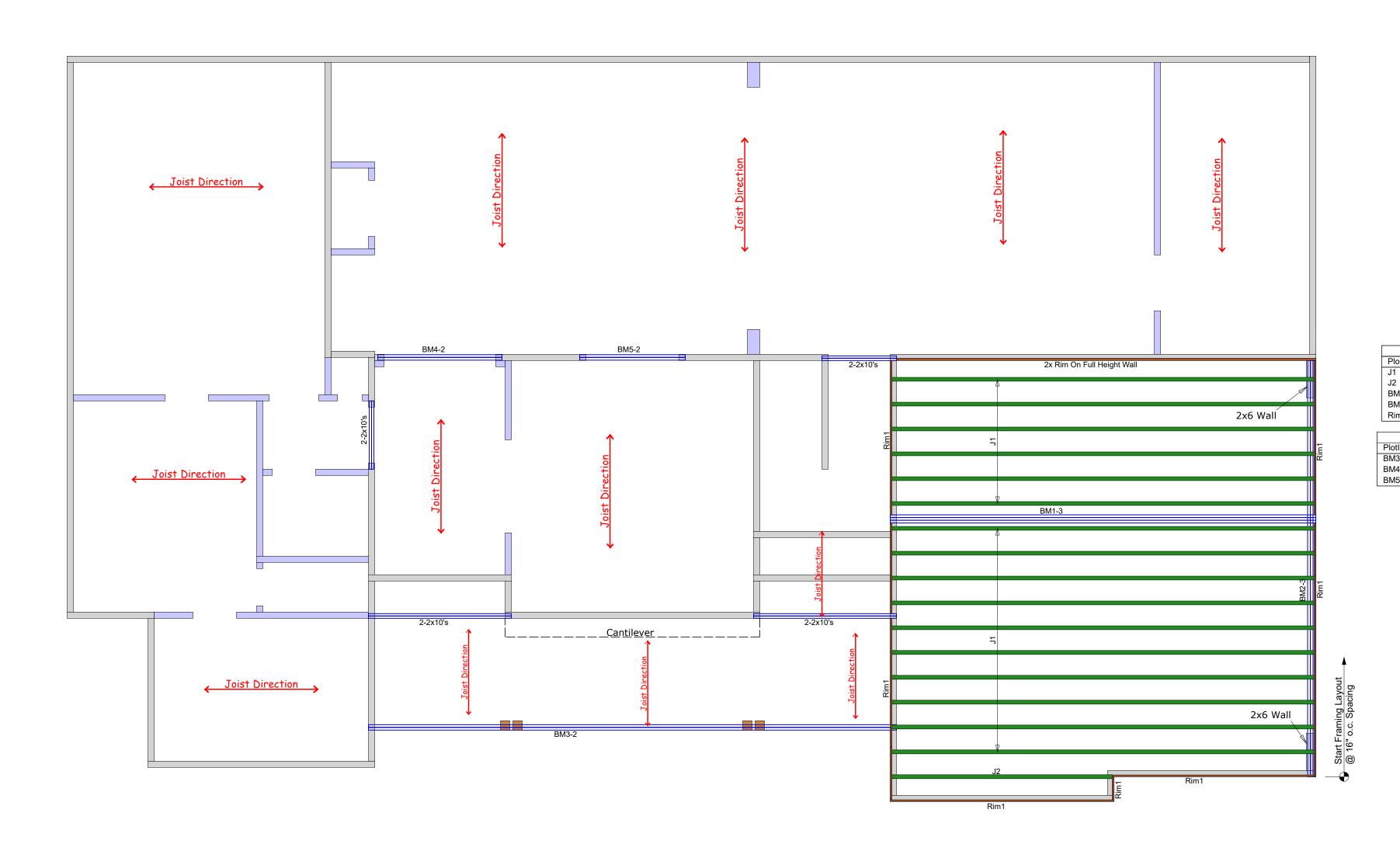
FRAMING. VUNCANNON DESIGNS DOES NOT ASSUME LIABILITY FOR ANY DEVIATION OF OR CONSTRUCTION METHODS OF THESE PLANS.



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N DESIGNS DME PLANS - (919) 421-1314 X	DRAWN BY : WRV CHK'D BY : WRV DATE : Ø1/18/19 REVISIONS :
	BY: 3Y: 01/18/ NG:





The attached materila list represents BlueLinx Engineered Lumber products needed to frame layout(s) shown based on the interpretation of user, but has not been reviewed by a BluLinx engineer. Purchaser is to verify material quantities, lengths, locations, and sizes and resolve clouded items.

Specified products are sized only for gravity loads shown. These loads should be verified by the purchaser. If additional loads or framing areas need to be accounted for, notify supplier of BlueLInx products so that material can be sized and price adjusted. Unless noted otherwise, hip, valley and ridge boards have not been designed and no products were designed to resist the building's lateral loads.

prior to installation, review layout with applicable product guide and/or installation sheet. If this information is not included, contact your supplier of BlueLinx products. Coordinate building plans and details with this layout. To prevent member damage from plumbing or mechanical cuts. Review this layout plan before placement. Follow I-joist web hole charts. Do not cut material beyond scope of product guide(s) withour prior approval.

Glue and nail minimum 23/32" APA rated OSB or plywood to floor I-joists. Use fastener schedule for sideloaded onCENTER(TM) LVL beams. For proper installation of hangers and connectors, follow manufacturer's guidelines. Connections not shown are by others.

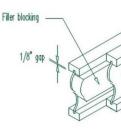
Roofs shall have adequate drainage to prevent ponding.

These products were designed for "dry use" conditions only, and must be protected from long term exposure to high moistrue. Moisture protection (by others) may be required. Detail F19 Squash Block/Columnn shall match size of column above

# F11 DOUBLE JOIST CONSTRUCTION WITH FILLER

<u>Note:</u> Filler blacks and fastening between joists can be arnitted when double joists are loaded evenly from above to the tops of both joists, such as when a parallel bearing wall is directly contend over the double joint

BLI Jois	st	Regular Filler Blocking	Full-depth Filler Blocking
Series	Depth	(Detail F12)	(Details C4, F13, F14 & R
400, 700	9 1/2"	2x6 + 3/8" OSB/Plywood	2x6 + 3/8" OSB/Plywood
	11 7/8"	2x6 + 3/8" OSB/Plywood	2x8 + 3/8" OSB/Plywood
	14"	2x8 + 3/8" OSB/Plywood	2x10 + 3/8" OSB/Plywoo
	16"	2x8 + 3/8" OSB/Plywood	2x12 + 3/8" OSB/Plywoo
40, 60	9 1/2"	2x6 + 5/8" OSB/Plywood	2x6 + 5/8" OSB/Plywood
	11 7/8"	2x6 + 5/8" OSB/Plywood	2x8 + 5/8" OSB/Plywood
	14"	2x8 + 5/8" OSB/Plywood	2x10 + 5/8" OSB/Plywoo
	16", 18"	2x8 + 5/8" OSB/Plywood	2x12 + 5/8" OSB/Plywoo
80, 90, 900	11 7/8"	22x8	2-2x8
	14"	22x8	2-2x10
	16", 18"	22x8	2-2x12



Support back of web during nailing to preve
 Leave 1/8" gap between top of filler blocking
 Block solid between joists. For all application need not be one continuous length, but mu double I-joist cantilever reinforcement C4, i extending the full length of the reinforcement

 Place joists together and nail from each s (16d common for BLI 80, BLI 90 and BLI 9 opposite side 6".

blocking and bottom of top flange. plications except cantilever reinforcement, filler but must extend the entire length of span. For t C4, filler must be one continuous piece forcement. each side with 2 rows of 10d common nails	Products           PlotID         Length         Product         Plies         Net Qty           J1         24' 0"         BLI 60 16"         1         16           J2         12' 0"         BLI 60 16"         1         1           BM1-3         24' 0"         onCENTER® LVL 2.0E 1 3/4" x 16"         3         3			
	Rim1         12' 0"         onCENTER® Rim SE 1 1/8" x 16"         1         6           Framing Material LVL's (By Others)           IotID         Length         Product         Plies         Net Qty           M3-2         30' 0"         onCENTER® LVL 2.0E 1 3/4" x 9 1/4"         2         2           M4-2         8' 0"         onCENTER® LVL 2.0E 1 3/4" x 9 1/4"         2         2		Wilmingt	on, NC 28401
			DR	
		$\sim$		
<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>			SALE	SPERSON:
<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>				
		Salid block all posts from above to bearing below with equal number of squash blocks		
Image: Normalized register registered in functional pice formation and pice f	onCENTER	We use the set of the	n Built Homes, I	7 Ra lan #
o prevent damage to web-flange connection.         blocking and bottom of top flange.         piotions except catilever reinforcement, filer         ubu must extend the entire length of span. For         th t, filer must be one continuous piece         tor side with 2 rows of 10d common naïs         HU 900) of 12 <sup>2</sup> oc. Stopper rows on	FASTEMER TYPE         DBPTH         ROWS         S           1bl NALS         7-147-11-767         (\$HOMA)         PREUMATIC         (0.137 x 3.87)         44*-16*         3           1         7         4         0.152*x 3.87)         24*         4           1         7-147-16*         (\$HOMA)         2         3         0           112***         7-14*-16*         2         (\$HOMA)         24*         4	12"       Image: Construction of the construct	к.	PROJECT NAME:
A BUL 900/ OL TZ O.C. Stagger rows on WHERE FASTENERS ARE SHOWN FROM BOTH SDES, FASTENERS SCHEDULES MADT BE REPEATED ON EACH FACE, WITH FASTENERS ON BACK FACE OFFSET ON EACH FACE.	op prevent damage to web-flange connection.     Use VMS CR SMPSON SOR SSCREWS       blocking and bottom of top flange.       plications except cantilever reinforcement, filler       put must extend the entire length of span. For t C4, filler must be one continuous piece precement.       SMPSON SDW22 FASTERMASTER TRUSSLOK SCREMS       24"       3       ach side with 2 rows of 10d common naïls	3-112*SCREW LEN.     3-112*SCREW LEN.     9*SCREW LEN.     NARGER THAN BOLOTS MUST EXCEND THROUGH FULL THICKNESS OF MEMBER AND LENST 1/2? BEYOND.       24"	1st Floo	or Framing
	WHERE FASTENERS ARE SHOWN FROM BOTH SIDES, FASTENER SCHED	LES MART BE REPEATED ON EACH FACE, WITH FROM FRONT FACE.	PA	GE: 1

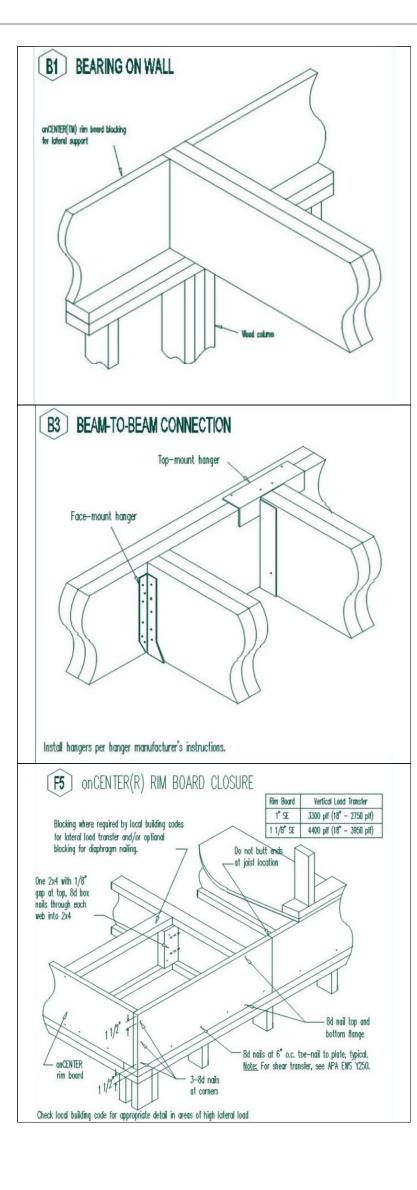
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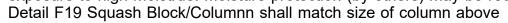
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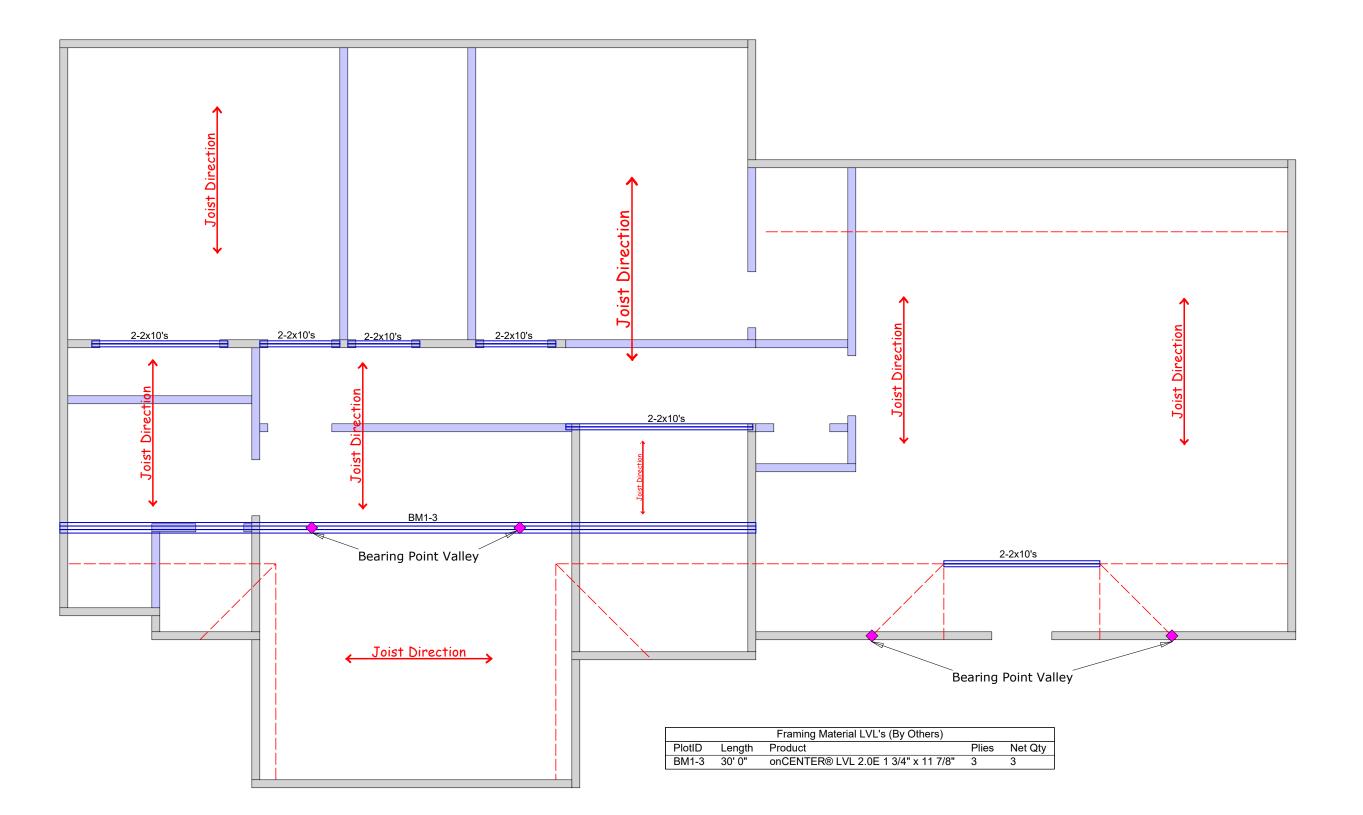
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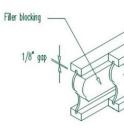




# [F1] DOUBLE JOIST CONSTRUCTION WITH FILLER

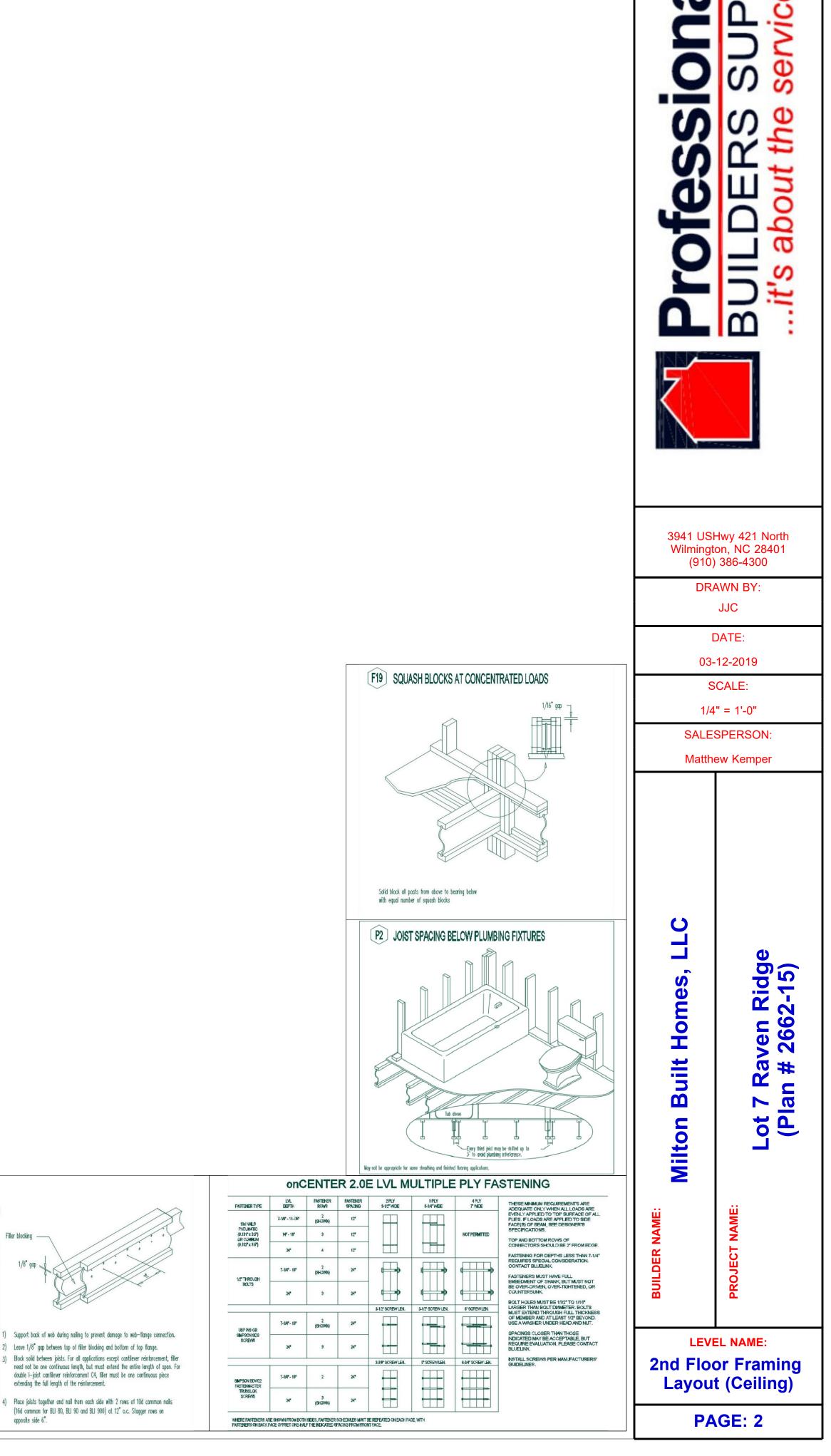
Note: Filler blocks and fastening between joists can be omitted when double joists are loaded

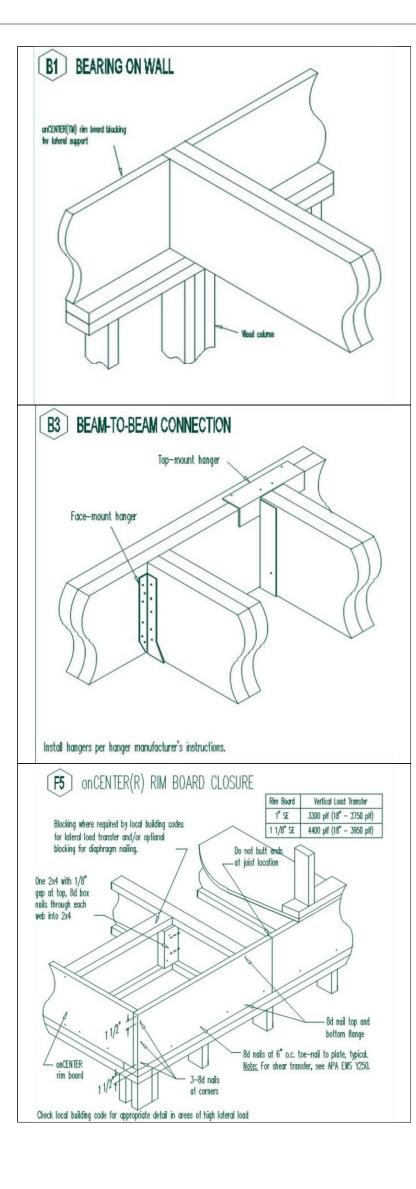
BLI Jois	st	Regular Filler Blocking	Full-depth Filler Blocking
Series	Depth	(Detail F12)	(Details C4, F13, F14 & R
400, 700	9 1/2"	2x6 + 3/8" OSB/Plywood	2x6 + 3/8" OSB/Plywood
	11 7/8"	2x6 + 3/8" OSB/Plywood	2x8 + 3/8" OSB/Plywood
	14"	2x8 + 3/8" OSB/Plywood	2x10 + 3/8" OSB/Plywoo
	16"	2x8 + 3/8" OSB/Plywood	2x12 + 3/8" OSB/Plywood
40, 60	9 1/2"	2x6 + 5/8" OSB/Plywood	2x6 + 5/8" OSB/Plywood
	11 7/8"	2x6 + 5/8" OSB/Plywood	2x8 + 5/8" OSB/Plywood
	14"	2x8 + 5/8" OSB/Plywood	2x10 + 5/8" OSB/Plywoo
	16", 18"	2x8 + 5/8" OSB/Plywood	2x12 + 5/8" OSB/Plywoo
80, 90, 900	11 7/8"	2-2x8	2-2x8
	14"	2-2x8	2-2x10
	16", 18"	2-2x8	2-2x12

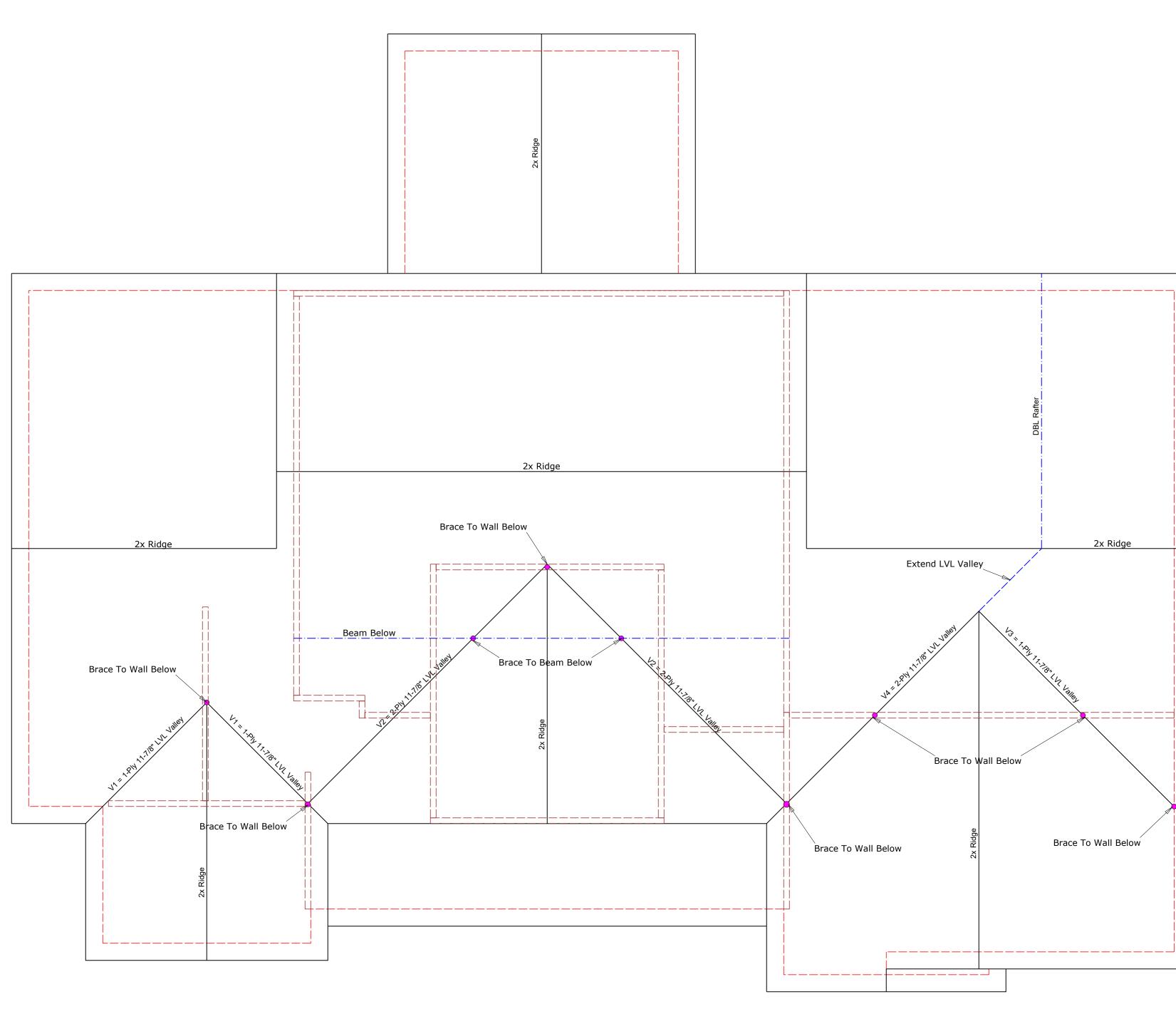


Leave 1/8" gap between top of filler blocking and bottom of top flange.

opposite side 6".







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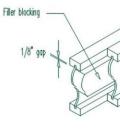
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# [F1] DOUBLE JOIST CONSTRUCTION WITH FILLER

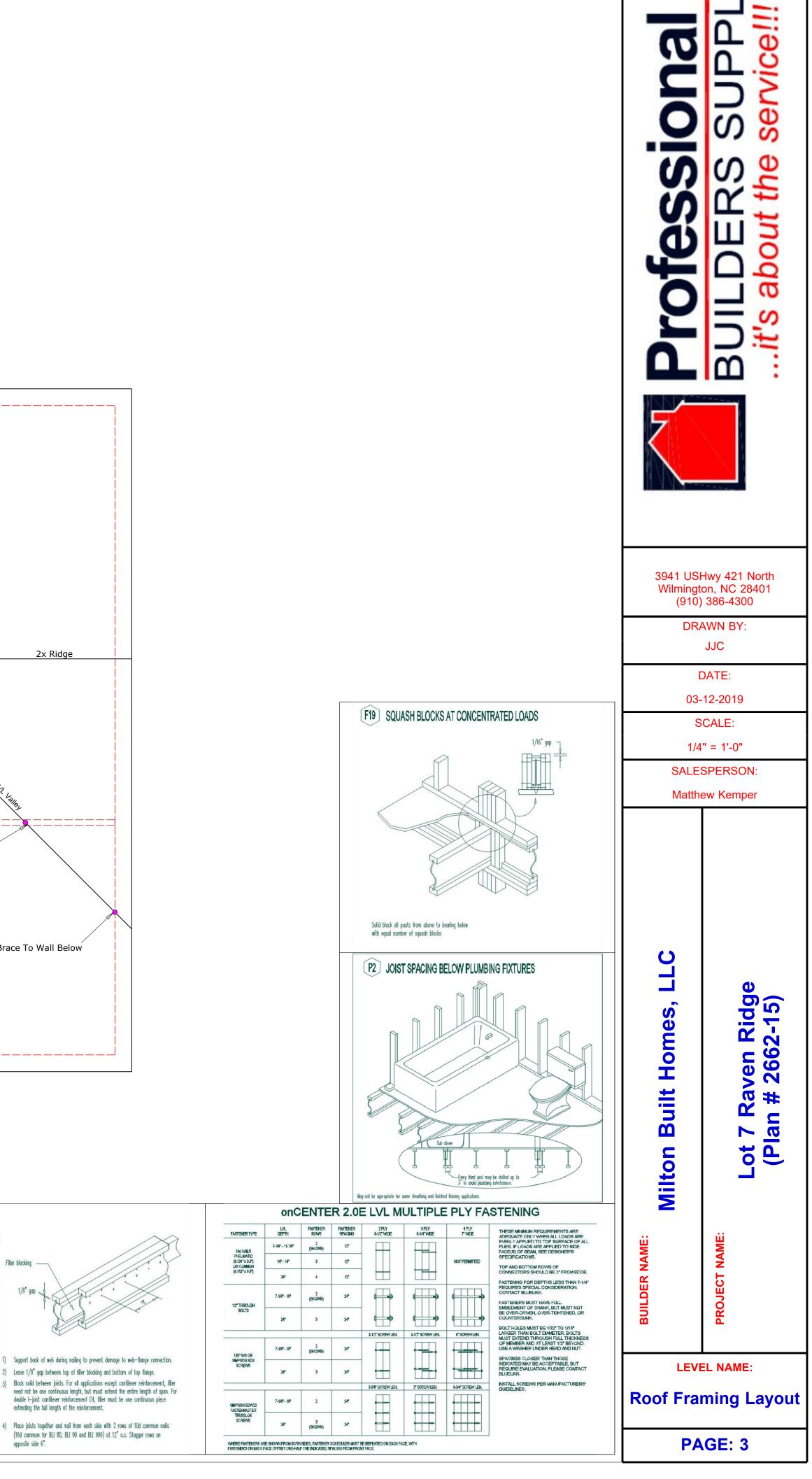
Note: Filler blocks and fastening between joists can be omitted when double joists are loaded

BLI Jois	st	Regular Filler Blocking	Full-depth Filler Blocking
Series	Depth	(Detail F12)	(Details C4, F13, F14 & F
400, 700	9 1/2"	2x6 + 3/8" OSB/Plywood	2x6 + 3/8" OSB/Plywood
	11 7/8"	2x6 + 3/8" OSB/Plywood	2x8 + 3/8" OSB/Plywood
	14"	2x8 + 3/8" OSB/Plywood	2x10 + 3/8" OSB/Plywoo
	16"	2x8 + 3/8" OSB/Plywood	2x12 + 3/8" OSB/Plywoo
40,60	9 1/2"	2x6 + 5/8" OSB/Plywood	2x6 + 5/8" OSB/Plywoo
	11 7/8"	2x6 + 5/8" OSB/Plywood	2x8 + 5/8" OSB/Plywoo
	14 <sup>*</sup>	2x8 + 5/8" OSB/Plywood	2x10 + 5/8" OSB/Plywoo
	16", 18"	2x8 + 5/8" OSB/Plywood	2x12 + 5/8" OSB/Plywoo
80, 90, 900	11 7/8"	2-2x8	2-2x8
	14"	2-2x8	2-2x10
	16", 18"	2-2x8	2-2x12



Leave 1/8" gap between top of filler blocking and bottom of top flange.

(16d common for BLI 80, BLI 90 and BLI 900) at 12" o.c. Stagger rows on opposite side 6".



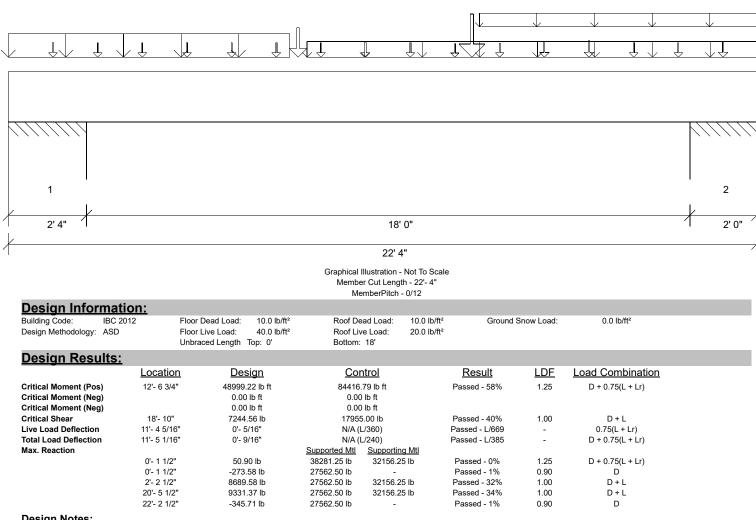


# Label: BM2-3-i4049

Page: 1 of 18 Date: 03/12/2019 14:58:06

#### Member: 3 - onCENTER LVL 2.0E 1 3/4" x 18"

## Status: Design Passed



#### **Design Notes:**

Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

Loading:

				Maximum Load Magnitudes			
Type	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	22'- 4"	Self Weight	25 lb/ft	-	-	-
Uniform	-0'	8'- 4 3/4"	User Load	150 lb/ft	-	200 lb/ft	-
Uniform	8'- 11"	22'- 4"	User Load	60 lb/ft	-	80 lb/ft	-
Uniform	14'- 5/8"	22'- 4"	Rim1(i4060)	65 lb/ft	-	-	-
Point	1'- 4"	1'- 4"	J1(i4048)	153.00 lb	505.00 lb	-	-
Point	2'- 8"	2'- 8"	J1(i4073)	153.00 lb	505.00 lb	-	-
Point	4'	4'	J1(i4075)	153.00 lb	505.00 lb	-	-
Point	5'- 4"	5'- 4"	J1(i4074)	153.00 lb	505.00 lb	-	-
Point	6'- 8"	6'- 8"	J1(i4072)	153.00 lb	504.00 lb	-	-
Point	7'- 11 15/16"	7'- 11 15/16"	J1(i4062)	152.00 lb	504.00 lb	-	-
Point	8'- 7 3/4"	8'- 7 3/4"	User Load	1091.00 lb	-	2181.00 lb	-
Point	9'- 3 15/16"	9'- 3 15/16"	J1(i4079)	153.00 lb	504.00 lb	-	-
Point	10'- 7 15/16"	10'- 7 15/16"	J1(i4084)	153.00 lb	505.00 lb	-	-
Point	11'- 11 15/16"	11'- 11 15/16"	J1(i4083)	153.00 lb	505.00 lb	-	-
Point	13'- 3 15/16"	13'- 3 15/16"	J1(i4082)	105.00 lb	348.00 lb	-	-
Point	13'- 10"	13'- 10"	BM4-3(i4056)	2456.00 lb	252.00 lb	2925.00 lb	-
Point	14'- 7 15/16"	14'- 7 15/16"	J1(i4080)	124.00 lb	409.00 lb	-	-
Point	15'- 11 15/16"	15'- 11 15/16"	J1(i4087)	274.00 lb	589.00 lb	-	-
Point	17'- 3 15/16"	17'- 3 15/16"	J1(i4085)	361.00 lb	649.00 lb	-	-
Point	18'- 7 15/16"	18'- 7 15/16"	J1(i4081)	153.00 lb	505.00 lb	-	-
Point	19'- 11 15/16"	19'- 11 15/16"	J1(i4086)	163.00 lb	505.00 lb	-	-
Point	21'- 3 15/16"	21'- 3 15/16"	J1(i4088)	218.00 lb	633.00 lb	-	-

			_	Maximum Analysis Reactions			
Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow
1	0'	2'- 4"	-	4523.00 lb	4309.00 lb	4484.00 lb	-
++>	0'- 1 1/2"	0'- 1 1/2"	E3(i3)	-	204.00 lb	228.00 lb	-
++>	2'- 2 1/2"	2'- 2 1/2"	E8(i7)	4523.00 lb	4105.00 lb	4256.00 lb	-

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.



# Label: BM2-3-i4049

Page: 2 of 18 Date: 03/12/2019 14:58:06

### Member: 3 - onCENTER LVL 2.0E 1 3/4" x 18"

<b>VIIIEK</b>	Membe	r: 3 - onCEN1	Status: Design Passed				
2	20'- 4"	22'- 4"	E9(i8)	4950.00 lb	4689.00 lb	3719.00 lb	-
==>	20'- 5 1/2"	20'- 5 1/2"	E9(i8)	4950.00 lb	4381.00 lb	3637.00 lb	-
==>	22'- 2 1/2"	22'- 2 1/2"	E9(i8)	-	308.00 lb	82.00 lb	-
Erroro War	ingo 8 Noto						

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

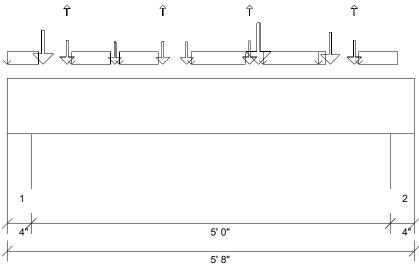
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



#### Member: 2 - onCENTER LVL 2.0E 1 3/4" x 9 1/4"

# Label: BM5-2-i4206

Page: 3 of 18 Date: 03/12/2019 14:58:06 Status: Design Passed



#### Graphical Illustration - Not To Scale Member Cut Length - 5'- 8" MemberPitch - 0/12

#### **Design Information:**

Building Code: IBC 2012 Floor Dead Load: 10.0 lb/ft<sup>2</sup> Roof Dead Load: 10.0 lb/ft<sup>2</sup> Ground Snow Load: 0.0 lb/ft<sup>2</sup> Design Methodology: ASD Floor Live Load: 40.0 lb/ft<sup>2</sup> Roof Live Load: 20.0 lb/ft<sup>2</sup> Unbraced Length Top: 0'- 3 1/16" Bottom: 5'

<u>Design Results:</u>						
	Location	<u>Design</u>	<u>Control</u>	<u>Result</u>	<u>LDF</u>	Load Combination
Critical Moment (Pos)	3'- 4 1/2"	3685.51 lb ft	13320.27 lb ft	Passed - 28%	1.00	D + L
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft			
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft			
Critical Shear	4'- 6 3/4"	2167.52 lb	6151.25 lb	Passed - 35%	1.00	D + L
Live Load Deflection	2'- 10 3/8"	0'	N/A (L/360)	Passed - L/999	-	L
Total Load Deflection	2'- 10 1/2"	0'- 1/16"	N/A (L/240)	Passed - L/999	-	D + L
Max. Reaction			Supported Mtl Supporting N	<u>1ti</u>		
	0'- 3"	2960.38 lb	11484.44 lb 12250.07 lb	Passed - 26%	1.00	D + L
	5'- 5"	2694.06 lb	11484.41 lb 12250.04 lb	Passed - 23%	1.00	D + L

#### **Design Notes:**

Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

					Maximum Loa	<u>d Magnitudes</u>	
<u>Type</u>	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	5'- 8"	Self Weight	8 lb/ft	-	-	-
Uniform	0'	0'- 5 1/4"	Bk1(i4205)	65 lb/ft	-	-	-
Uniform	0'- 10 3/4"	1'- 5 1/4"	Bk1(i4267)	65 lb/ft	-	-	-
Uniform	1'- 6 3/4"	2'- 1 1/4"	Bk1(i4263)	65 lb/ft	-	-	-
Uniform	2'- 6 3/4"	3'- 3 3/4"	Bk1(i4203)	65 lb/ft	-	-	-
Uniform	3'- 6 3/4"	4'- 5 1/4"	Bk1(i4135)	65 lb/ft	-	-	-
Uniform	4'- 10 3/4"	5'- 5 1/4"	Bk1(i4231)	65 lb/ft	-	-	-
Point	0'- 6"	0'- 6"	J3(i4132)	315.00 lb	513.00 lb	-	-
Point	0'- 10"	0'- 10"	J4(i4094)	98.00 lb	384.00/-14.00 lb	-	-
Point	1'- 6"	1'- 6"	J3(i4183)	89.00 lb	322.00 lb	-	-
Point	2'- 2"	2'- 2"	J4(i4111)	90.00 lb	350.00/-13.00 lb	-	-
Point	2'- 6"	2'- 6"	J3(i4134)	96.00 lb	322.00 lb	-	-
Point	3'- 4 1/2"	3'- 4 1/2"	J4(i4096)	87.00 lb	367.00/-13.00 lb	-	-
Point	3'- 6"	3'- 6"	J3(i4235)	365.00 lb	726.00 lb	-	-
Point	4'- 6"	4'- 6"	J3(i4176)	311.00 lb	450.00 lb	-	-
Point	4'- 10"	4'- 10"	J4(i4099)	98.00 lb	384.00/-14.00 lb	-	-

#### Support Information:

			_	Maximum Analysis Reactions							
Support	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>				
1	0'	0'- 4"	E46(i103)	950.00 lb	1998.00/-27.00 lb	-	-				
2	5'- 4"	5'- 8"	E44(i101)	887.00 lb	1820.00/-27.00 lb	-	-				

#### Errors, Warnings & Notes:

The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

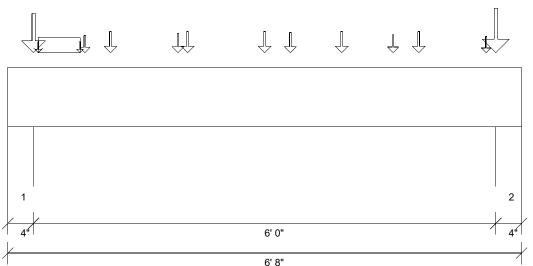
#### - Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.



# Label: BM4-2-i4258

Page: 4 of 18 Date: 03/12/2019 14:58:06 Status: Design Passed





#### Graphical Illustration - Not To Scale Member Cut Length - 6'- 8" MemberPitch - 0/12

#### **Design Information:**

Building Code: IBC 2012 Floor Dead Load: 10.0 lb/ft<sup>2</sup> Roof Dead Load: 10.0 lb/ft<sup>2</sup> Ground Snow Load: 0.0 lb/ft<sup>2</sup> Design Methodology: ASD Floor Live Load: 40.0 lb/ft<sup>2</sup> Roof Live Load: 20.0 lb/ft<sup>2</sup> Unbraced Length Top: 0'- 3 1/16" Bottom: 6'

Location	<u>Design</u>	<u>Control</u>	<u>Result</u>	LDF	Load Combination	
3'- 4"	3640.19 lb ft	13320.27 lb ft	Passed - 27%	1.00	D + L	
	0.00 lb ft	0.00 lb ft				
	0.00 lb ft	0.00 lb ft				
1'- 1 1/4"	1907.79 lb	6151.25 lb	Passed - 31%	1.00	D + L	
3'- 4"	0'- 1/16"	N/A (L/360)	Passed - L/999	-	L	
3'- 4"	0'- 1/16"	N/A (L/240)	Passed - L/999	-	D + L	
		Supported Mtl Supporting Mtl				
0'- 3"	3301.93 lb	11484.41 lb 12250.04 lb	Passed - 29%	1.00	D + L	
6'- 5"	3554.12 lb	11484.44 lb 12250.08 lb	Passed - 31%	1.00	D + L	
	3'- 4" 1'- 1 1/4" 3'- 4" 3'- 4" 0'- 3"	3'- 4"         3640.19 lb ft           0.00 lb ft         0.00 lb ft           1'- 1 1/4"         1907.79 lb           3'- 4"         0'- 1/16"           3'- 4"         0'- 1/16"           0'- 3"         3301.93 lb	3'- 4"         3640.19 lb ft         13320.27 lb ft           0.00 lb ft         0.00 lb ft         0.00 lb ft           1'- 1 1/4"         1907.79 lb         6151.25 lb           3'- 4"         0'- 1/16"         N/A (L/360)           3'- 4"         0'- 1/16"         N/A (L/240)           Supported Mtt         Supporting Mtl           0'- 3"         3301.93 lb         11484.41 lb         12250.04 lb	3'- 4"         3640.19 lb ft         13320.27 lb ft         Passed - 27%           0.00 lb ft         0.00 lb ft         0.00 lb ft         11 - 1 / 4"         1907.79 lb         6151.25 lb         Passed - 31%           3'- 4"         0'- 1 / 16"         N/A (L/360)         Passed - 1/999         3'- 4"         0'- 1 / 16"         N/A (L/240)         Passed - L/999           3'- 4"         0'- 1 / 16"         N/A (L/240)         Passed - L/999         -           0'- 3"         3301.93 lb         11484.41 lb         12250.04 lb         Passed - 29%	3'- 4"         3640.19 lb ft         13320.27 lb ft         Passed - 27%         1.00           0.00 lb ft         0.00 lb ft         0.00 lb ft         1.00         1.00           1'- 1 1/4"         1907.79 lb         6151.25 lb         Passed - 31%         1.00           3'- 4"         0'- 1/16"         N/A (L/360)         Passed - L/999         -           3'- 4"         0'- 1/16"         N/A (L/240)         Passed - L/999         -           0'- 3"         3301.93 lb         11484.41 lb         12250.04 lb         Passed - 29%         1.00	3'- 4"         3640.19 lb ft         13320.27 lb ft         Passed - 27%         1.00         D + L           0.00 lb ft         1           1'- 1 1/4"         1907.79 lb         6151.25 lb         Passed - 31%         1.00         D + L           3'- 4"         0'- 1/16"         N/A (L/360)         Passed - L/999         -         L           3'- 4"         0'- 1/16"         N/A (L/240)         Passed - L/999         -         D + L           3'- 4"         0'- 1/16"         N/A (L/240)         Passed - L/999         -         D + L           0'- 3"         3301.93 lb         11484.41 lb         12250.04 lb         Passed - 29%         1.00         D + L

#### **Design Notes:**

Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

					<u>Maximum Loa</u>	<u>d Magnitudes</u>	
<u>Type</u>	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	6'- 8"	Self Weight	8 lb/ft	-	-	-
Uniform	0'- 4 3/4"	0'- 11 1/4"	Bk1(i4141)	22 lb/ft	88 lb/ft	-	-
Point	0'- 4"	0'- 4"	J3(i4149)	445.00 lb	835.00 lb	-	-
Point	0'- 4 3/4"	0'- 4 3/4"	Bk1(i4141)	1.00 lb	6.00 lb	-	-
Point	0'- 11 1/4"	0'- 11 1/4"	Bk1(i4141)	1.00 lb	6.00 lb	-	-
Point	1'	1'	J5(i4116)	67.00 lb	207.00 lb	-	-
Point	1'- 4"	1'- 4"	J3(i4115)	141.00 lb	322.00 lb	-	-
Point	2'- 2 1/2"	2'- 2 1/2"	J5(i4102)	135.00 lb	246.00 lb	-	-
Point	2'- 4"	2'- 4"	J3(i4171)	141.00 lb	322.00 lb	-	-
Point	3'- 4"	3'- 4"	J3(i4179)	141.00 lb	322.00 lb	-	-
Point	3'- 8"	3'- 8"	J5(i4175)	154.00 lb	258.00 lb	-	-
Point	4'- 4"	4'- 4"	J3(i4129)	141.00 lb	322.00 lb	-	-
Point	5'	5'	J5(i4103)	78.00 lb	235.00 lb	-	-
Point	5'- 4"	5'- 4"	J3(i4126)	141.00 lb	322.00 lb	-	-
Point	6'- 2 1/2"	6'- 2 1/2"	J5(i4212)	55.00 lb	175.00 lb	-	-
Point	6'- 4"	6'- 4"	J3(i4248)	591.00 lb	930.00 lb	-	-

#### Support Information:

			_	Maximum Analysis Reactions						
Support	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>			
1	0'	0'- 4"	E48(i107)	1074.00 lb	2210.00/-1.00 lb	-	-			
2	6'- 4"	6'- 8"	E46(i103)	1227.00 lb	2346.00/-1.00 lb	-	-			

#### Errors, Warnings & Notes:

The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

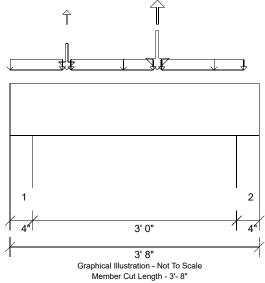
#### - Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.



# Label: 2-2x10's-i4157

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#### Member: 2 - 2x10 SPF No.2



MemberPitch - 0/12

#### **Design Information:**

Building Code:	IBC 2012	Floor Dead L	oad: 10.0 lb/ft <sup>2</sup>	Roof D	ead Load:	10.0 lb/ft <sup>2</sup>	Ground S	now Load:	0.0 lb/ft <sup>2</sup>	
Design Methodology:	ASD	Floor Live Lo	ad: 40.0 lb/ft <sup>2</sup>	Roof L	ive Load:	20.0 lb/ft <sup>2</sup>				
		Unbraced Lei	ngth Top: 0'-45/8	" Bottom	: 3'					
Design Resu	<u>lts:</u>									
	Loca	<u>ition</u>	<u>Design</u>	<u>Co</u>	ntrol		<u>Result</u>	<u>LDF</u>	Load Combination	
Critical Moment (Pos)	2'-	2"	977.91 lb ft	3429	.65 lb ft		Passed - 29%	1.00	D + L	
Critical Moment (Neg)	)		0.00 lb ft	0.0	0 lb ft					
Critical Moment (Neg)	)		0.00 lb ft	0.0	0 lb ft					
Critical Shear	2'- 6	3/4"	773.90 lb	249	7.50 lb		Passed - 31%	1.00	D + L	
Live Load Deflection	1'- 10	3/8"	0'	N/A	(L/360)		Passed - L/999	-	0.75(L + Lr)	
Total Load Deflection	1'- 10	3/8"	0'	N/A	(L/240)		Passed - L/999	-	D + 0.75(L + Lr)	
Max. Reaction				Supported Mtl	Supporting	Mtl				
	0'-	3"	1165.03 lb	5578.16 lb	10500.08	lb	Passed - 21%	1.25	D + 0.75(L + Lr)	
	0'-	3"	-2.78 lb	5578.16 lb	-		Passed - 0%	1.25	D + Lr	

10500.08 lb

-

Passed - 17%

Passed - 2%

1.25

1.25

D + 0.75(L + Lr)

D+Lr

5578.16 lb

5578.16 lb

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

969.75 lb

-93.76 lb

#### Loading:

					Maximum Loa	ad Magnitudes	
Type	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow
Self Weight	0'	3'- 8"	Self Weight	6 lb/ft	-	-	-
Uniform	0'	0'- 9 1/4"	Bk1(i4131)	7 lb/ft	27 lb/ft	-	-
Uniform	0'- 10 3/4"	2'- 1 1/4"	Bk1(i4119)	7 lb/ft	27 lb/ft	-	-
Uniform	2'- 2 3/4"	3'- 5 1/4"	Bk1(i4254)	7 lb/ft	27 lb/ft	-	-
Point	0'- 9 1/4"	0'- 9 1/4"	Bk1(i4131)	-	2.00 lb	-	-
Point	0'- 10"	0'- 10"	J3(i4169)	241.00 lb	486.00/-52.00 lb	168.00/-170.00 lb	-
Point	0'- 10 3/4"	0'- 10 3/4"	Bk1(i4119)	-	2.00 lb	-	-
Point	2'- 1 1/4"	2'- 1 1/4"	Bk1(i4119)	-	2.00 lb	-	-
Point	2'- 2"	2'- 2"	J3(i4136)	373.00 lb	636.00/-181.00 lb	582.00/-586.00 lb	-
Point	2'- 2 3/4"	2'- 2 3/4"	Bk1(i4254)	-	2.00 lb	-	-
Point	3'- 5 1/4"	3'- 5 1/4"	Bk1(i4254)	-	2.00 lb	-	-

#### Support Information:

			_		Maximum Ana	<u>ysis Reactions</u>	
Support	Start	End	Source	Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4"	E13(i57)	355.00 lb	674.00/-109.00 lb	352.00/-355.00 lb	-
2	3'- 4"	3'- 8"	E39(i96)	305.00 lb	543.00/-124.00 lb	398.00/-401.00 lb	-

## Errors, Warnings & Notes:

The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

3'- 5"

3'- 5"

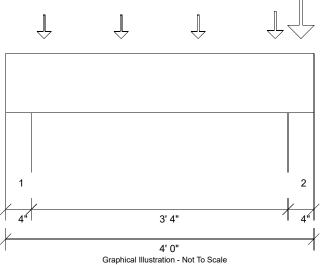
\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



#### Member: 2 - 2x10 SPF No.2

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Member Cut Length - 4' MemberPitch - 0/12

#### **Design Information:**

Building Code:	IBC 2012	Floor	r Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground S	Snow Load:	0.0 lb/ft <sup>2</sup>	
Design Methodology:	ASD	Floor	r Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>				
		Unbr	raced Length	Гор: 0'	Bottom: 0'- 10 1/2"					
<u>Design Resu</u>	<u>ults:</u>									
	L	ocation	Des	ign	<u>Control</u>		<u>Result</u>	<u>LDF</u>	Load Combination	
Critical Moment (Pos	s)	1'- 6"	673.49	9 lb ft	3429.65 lb ft		Passed - 20%	1.00	D + L	
Critical Moment (Neg	g)		0.00	lb ft	0.00 lb ft					
<b>•</b> • • • • • • • • • • • • • • • • • •										

Critical Moment (Neg)		0.00 lb ft	0.00	) lb ft			
Critical Moment (Neg)		0.00 lb ft	0.00	) lb ft			
Critical Shear	1'- 1 1/4"	545.11 lb	2497	.50 lb	Passed - 22%	1.00	D + L
Live Load Deflection	1'- 11 3/4"	0'	N/A (I	L/360)	Passed - L/999	-	L
Total Load Deflection	1'- 11 13/16"	0'	N/A (I	L/240)	Passed - L/999	-	D + L
Max. Reaction			Supported Mtl	Supporting Mtl			
	0'- 3"	912.74 lb	5578.12 lb	10500.00 lb	Passed - 16%	1.00	D + L
	3'- 9"	2290.36 lb	5578.12 lb	10500.00 lb	Passed - 41%	1.00	D + L

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

				Maximum Load Magnitudes					
<u>Type</u>	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>		
Self Weight	0'	4'	Self Weight	6 lb/ft	-	-	-		
Point	0'- 6"	0'- 6"	J4(i4184)	133.00 lb	327.00 lb	-	-		
Point	1'- 6"	1'- 6"	J4(i4090)	133.00 lb	327.00 lb	-	-		
Point	2'- 6"	2'- 6"	J4(i4193)	133.00 lb	327.00 lb	-	-		
Point	3'- 6"	3'- 6"	J4(i4236)	265.00 lb	327.00 lb	-	-		
Point	3'- 10"	3'- 10"	E97(i547)	446.00 lb	761.00 lb	-	-		

			_		<u>Maximum Anal</u>	<u>ysis Reactions</u>	
Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4"	E44(i101)	278.00 lb	654.00 lb	-	-
2	3'- 8"	4'	E4(i1)	856.00 lb	1415.00 lb	-	-

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

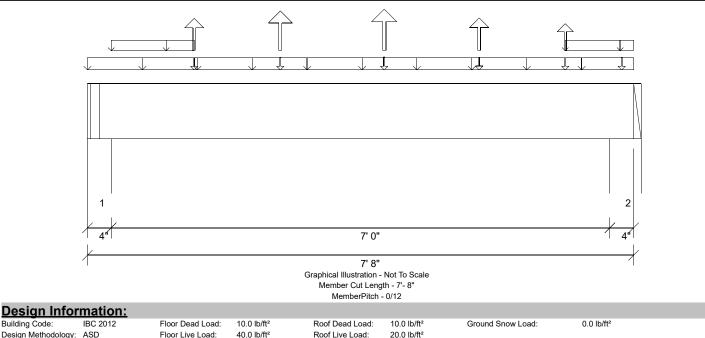
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



# Label: 2-2x10's-i4155

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#### Member: 2 - 2x10 SPF No.2



LDF

1.00

1.00

1.00

1.00

Result

Passed - 84%

Passed - 54%

Passed - L/999

Passed - L/875

Passed - 22%

Passed - 23%

Load Combination

D + L

D + L

L

D + L

D + L

D + L

#### **Design Notes:**

**Critical Shear** 

Max. Reaction

Building Code:

**Design Results:** 

Critical Moment (Pos)

Critical Moment (Neg)

Critical Moment (Neg)

Live Load Deflection

Total Load Deflection

Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

Unbraced Length Top: 0'

<u>Design</u>

2889.51 lb ft

0.00 lb ft

0.00 lb ft

1346.39 lb

0'- 1/16"

0'- 1/8"

-1245.99 lb

-1261.06 lb

Location

4'- 2"

1'- 6"

3'- 10 1/16"

3'- 9 15/16"

0'- 3"

7'- 5"

#### Loading:

					Maximum Loa	<u>d Magnitudes</u>	
<u>Type</u>	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	7'- 8"	Self Weight	6 lb/ft	-	-	-
Uniform	0'	7'- 8"	User Load	60 lb/ft	-	-	-
Uniform	0'- 4"	1'- 6"	FC1 Floor Material	1 lb/ft	5 lb/ft	-	-
Uniform	6'- 8 1/2"	7'- 8"	FC1 Floor Material	1 lb/ft	5 lb/ft	-	-
Point	1'- 6"	1'- 6"	J5(i4116)	-165.00 lb	55.00/-390.00 lb	-	-
Point	2'- 8 1/2"	2'- 8 1/2"	J5(i4102)	-332.00 lb	61.00/-413.00 lb	-	-
Point	4'- 2"	4'- 2"	J5(i4175)	-358.00 lb	64.00/-433.00 lb	-	-
Point	5'- 6"	5'- 6"	J5(i4103)	-172.00 lb	58.00/-394.00 lb	-	-
Point	6'- 8 1/2"	6'- 8 1/2"	J5(i4212)	-125.00 lb	42.00/-294.00 lb	-	-
Point	7'- 6"	7'- 6"	E68(i136)	60.00 lb	-	-	-

Bottom: 1'- 4"

Control

3429.65 lb ft

0.00 lb ft

0.00 lb ft

2497.50 lb

N/A (L/360)

N/A (L/240)

Supporting Mtl

Supported Mtl

5578.08 lb

5578.13 lb

#### Support Information:

			_		Maximum Analy	sis Reactions	
Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4"	E12(i54)	-321.00 lb	140.00/-925.00 lb	-	-
2	7'- 4"	7'- 8"	E33(i87)	-262.00 lb	151.00/-999.00 lb	-	-

#### Errors, Warnings & Notes:

CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.

The dead loads used in the design of this member were applied to the structure as sloped dead loads

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting

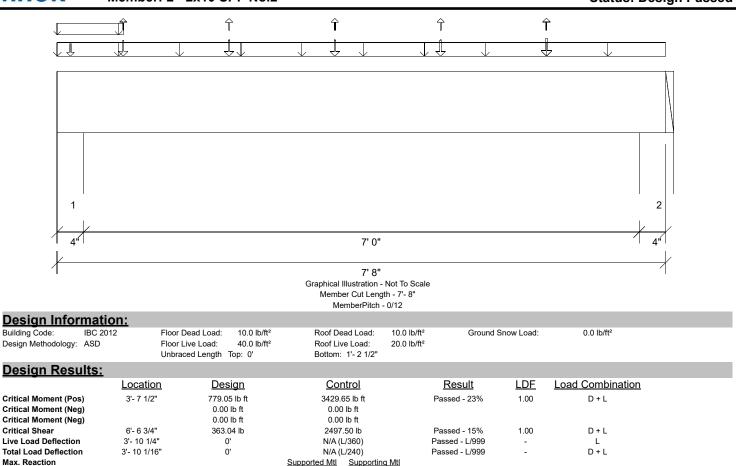


#### Member: 2 - 2x10 SPF No.2

# Label: 2-2x10's-i4059

Page: 8 of 18 Date: 03/12/2019 14:58:06

Status: Design Passed



#### Design Notes:

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

470.80 lb

435.95 lb

#### Loading:

					<u>Maximum Loa</u>	<u>d Magnitudes</u>	
<u>Type</u>	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	7'- 8"	Self Weight	6 lb/ft	-	-	-
Uniform	0'	7'- 8"	User Load	60 lb/ft	-	-	-
Uniform	0'	0'- 10"	FC1 Floor Material	1 lb/ft	5 lb/ft	-	-
Point	0'- 2"	0'- 2"	E93(i157)	16.00 lb	-	-	-
Point	0'- 10"	0'- 10"	J7(i4147)	21.00 lb	47.00/-8.00 lb	-	-
Point	2'- 2"	2'- 2"	J7(i4166)	12.00 lb	59.00/-9.00 lb	-	-
Point	3'- 6"	3'- 6"	J7(i4170)	12.00 lb	59.00/-9.00 lb	-	-
Point	4'- 10"	4'- 10"	J7(i4221)	12.00 lb	59.00/-9.00 lb	-	-
Point	6'- 2"	6'- 2"	J7(i4241)	17.00 lb	81.00/-13.00 lb	-	-

10498.83 lb

10500.00 lb

Passed - 8%

Passed - 8%

1.00

1.00

D + L

D + L

5577.56 lb

5578.13 lb

#### Support Information:

			_		Maximum Analy	sis Reactions	
Support Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4"	E33(i87)	313.00 lb	158.00/-24.00 lb	-	-
2	7'- 4"	7'- 8"	E6(i753)	285.00 lb	151.00/-24.00 lb	-	-

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

0'- 3"

7'- 5"

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

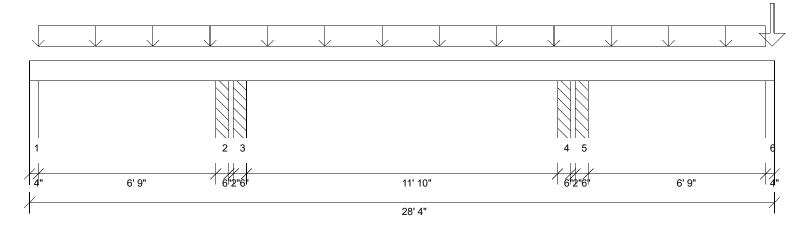
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting



#### Member: 2 - onCENTER LVL 2.0E 1 3/4" x 9 1/4"

# Label: BM3-2-i4076

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#### Graphical Illustration - Not To Scale Member Cut Length - 28'- 4" MemberPitch - 0/12

Design Informati	ion:							
Building Code: IBC 20	)12 Floo	r Dead Load: 10.0 lb/ft <sup>2</sup>	Roof De	ead Load:	10.0 lb/ft <sup>2</sup>	Ground S	Snow Load:	0.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floo	r Live Load: 40.0 lb/ft <sup>2</sup>	Roof Liv	/e Load:	20.0 lb/ft <sup>2</sup>			
	Unb	raced Length Top: 27'- 8"	Bottom:	27'- 8"				
Design Results:								
	Location	<u>Design</u>	<u>Co</u>	<u>ntrol</u>		<u>Result</u>	<u>LDF</u>	Load Combination
Critical Moment (Pos)	20'- 4"	3286.53 lb ft	10813	.27 lb ft		Passed - 30%	1.25	D + Lr
Critical Moment (Neg)		0.00 lb ft	0.00	) lb ft				
Critical Moment (Neg)		0.00 lb ft	0.00	) lb ft				
Critical Shear	19'- 11 3/4"	1653.99 lb	7689	.06 lb		Passed - 22%	1.25	D + Lr
Live Load Deflection	20'- 9"	0'	N/A (	L/360)		Passed - L/414	-	Lr
Total Load Deflection	20'- 9"	0'	N/A (	L/240)		Passed - L/394	-	D + Lr
Max. Reaction			Supported Mtl	Supporting	Mtl			
	0'- 3"	665.70 lb	11484.28 lb	12249.89	lb	Passed - 6%	1.25	D + Lr
	7'- 4"	-917.17 lb	16734.31 lb	-		Passed - 6%	0.90	D
	8'	2677.31 lb	15750.00 lb	15225.00	lb	Passed - 18%	0.90	D
	20'- 4"	2695.61 lb	15750.00 lb	15225.00	lb	Passed - 18%	0.90	D
	21'	-940.59 lb	15750.00 lb	-		Passed - 6%	0.90	D
	28'- 1"	1108.57 lb	11484.40 lb	12250.02	lb	Passed - 10%	1.00	D + L

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

					Maximum Loa	<u>id Magnitudes</u>	
<u>Type</u>	<u>Start</u>	<u>End</u>	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	28'- 4"	Self Weight	8 lb/ft	-	-	-
Uniform	0'- 4"	28'	User Load	150 lb/ft	-	120 lb/ft	-
Point	28'- 3"	28'- 3"	J1(i4073)	152.00 lb	500.00 lb	-	-
Support Info	rmation:						

				Maximum Analysis Reactions					
Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>		
1	0'	0'- 4"	E12(i54)	382.00 lb	-	390.00/-122.00 lb	-		
2	7'- 1"	7'- 7"	PBO1(i532)	-	-	530.00 lb	-		
3	7'- 9"	8'- 3"	PBO3(i534)	1813.00 lb	-	1373.00 lb	-		
4	20'- 1"	20'- 7"	PBO4(i535)	1813.00 lb	-	1373.00 lb	-		
5	20'- 9"	21'- 3"	PBO2(i533)	-	-	530.00 lb	-		
6	28'	28'- 4"	E7(i752)	534.00 lb	500.00 lb	390.00/-122.00 lb	-		

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



#### Member: 3 - onCENTER LVL 2.0E 1 3/4" x 16"

# Label: BM1-3-i4056

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Status: Design Passed

			<u> </u>		_ <u>↓</u>					
							$\checkmark$		$\checkmark$	
					/		,	<b>7</b> 2	$\checkmark$	4
										 Ν
										:
				22' 0 3/	4"					 1,
				22' 10"						
			Oranhiad	Illustration - I						
			Membe	r Cut Length mberPitch -	- 22'- 10"	2				
<u>Design Informati</u>										
Building Code: IBC 20 Design Methodology: ASD	Floo	r Dead Load: 10.0 lb/ft² r Live Load: 40.0 lb/ft² raced Length Top: 0'	Roof Liv	ead Load: /e Load: 22'- 3/4"	10.0 lb/ft <sup>2</sup> 20.0 lb/ft <sup>2</sup>	Ground	Snow Load:	0.0 ll	o/ft²	
<u>Design Results:</u>										
	Location	<u>Design</u>	<u>Cor</u>	<u>ntrol</u>		<u>Result</u>	<u>LDF</u>	Load Con	<u>nbination</u>	
Critical Moment (Pos) Critical Moment (Neg) Critical Moment (Neg)	5'- 2 1/16"	31174.67 lb ft 0.00 lb ft 0.00 lb ft	0.00	.58 lb ft ) lb ft ) lb ft		Passed - 46%	1.25	D +	Lr	
Critical Shear	1'- 8"	6435.13 lb		).00 lb		Passed - 32%	1.25	D +	Lr	
ive Load Deflection	11'- 1/4"	0'- 7/16"		_/360)		Passed - L/595	-	L		
otal Load Deflection	11'- 15/16"	0'- 13/16"		L/240)		Passed - L/335	-	D +	Lr	
lax. Reaction	0'- 3"	6597.35 lb	Supported Mtl 17226.50 lb	Supporting 18374.92		Passed - 38%	1.25	D +	l r	
	22'- 5 3/4"	5381.33 lb	22148.53 lb	20671.96		Passed - 36% Passed - 26%	1.25	D+		

#### Loading:

					Maximum Loa	<u>id Magnitudes</u>	
<u>Type</u>	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	22'- 10"	Self Weight	22 lb/ft	-	-	-
Uniform	-0'	22'- 10"	FC2 Floor Material	7 lb/ft	13 lb/ft	-	-
Uniform	0'- 4"	10'- 2"	E58(i122)	65 lb/ft	-	-	-
Uniform	4'	18'- 10"	FC2 Floor Material	-	13 lb/ft	-	-
Uniform	12'- 8"	22'- 10"	E59(i124)	65 lb/ft	-	-	-
Point	0'- 2"	0'- 2"	E91(i162)	28.00 lb	-	-	-
Point	5'- 2 1/16"	5'- 2 1/16"	E58(i122)	2043.00 lb	-	4086.00 lb	-
Point	17'- 8 1/16"	17'- 8 1/16"	E59(i124)	1289.00 lb	-	2578.00 lb	-
Point	22'- 8"	22'- 8"	E60(i125)	3.00 lb	-	-	-

#### Support Information:

			_		Maximum Anal	lysis Reactions	
Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4"	E5(i2)	2859.00 lb	250.00 lb	3739.00 lb	-
2	22'- 4 3/4"	22'- 10"	BM2-3(i4049)	2456.00 lb	252.00 lb	2925.00 lb	-

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

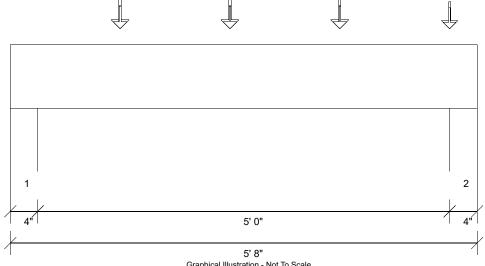
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



# Label: 2-2x10's-i3768

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#### Member: 2 - 2x10 SPF No.2



# Graphical Illustration - Not To Scale Member Cut Length - 5'- 8" MemberPitch - 0/12

#### **Design Information:**

Building Code:	IBC 2012	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	0.0 lb/ft <sup>2</sup>
Design Methodology	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length T	op: 0'- 3/8"	Bottom: 5'			

|--|

<u>Design Results:</u>								
	Location	<u>Design</u>	<u>Cor</u>	<u>ntrol</u>	<u>Result</u>	LDF	Load Combination	
Critical Moment (Pos)	2'- 8"	1040.97 lb ft	3429.6	65 lb ft	Passed - 30%	1.00	D + L	
Critical Moment (Neg)		0.00 lb ft	0.00	lb ft				
Critical Moment (Neg)		0.00 lb ft	0.00	lb ft				
Critical Shear	1'- 1 1/4"	653.11 lb	2497	.50 lb	Passed - 26%	1.00	D + L	
Live Load Deflection	2'- 9 7/8"	0'	N/A (L	_/360)	Passed - L/999	-	L	
Total Load Deflection	2'- 9 7/8"	0'	N/A (L	_/240)	Passed - L/999	-	D + L	
Max. Reaction			Supported Mtl	Supporting Mtl				
	0'- 3"	659.76 lb	5578.28 lb	10500.32 lb	Passed - 12%	1.00	D + L	
	5'- 5"	914.39 lb	5578.28 lb	10500.32 lb	Passed - 16%	1.00	D + L	

#### **Design Notes:**

Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

				Maximum Load Magnitudes					
<u>Type</u>	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>		
Self Weight	0'	5'- 8"	Self Weight	6 lb/ft	-	-	-		
Point	1'- 4"	1'- 4"	J2(i3771)	83.00 lb	166.00 lb	-	-		
Point	1'- 4"	1'- 4"	J4(i3758)	50.00 lb	100.00 lb	-	-		
Point	2'- 8"	2'- 8"	J2(i3742)	83.00 lb	166.00 lb	-	-		
Point	2'- 8"	2'- 8"	J4(i3735)	50.00 lb	100.00 lb	-	-		
Point	4'	4'	J2(i3732)	83.00 lb	166.00 lb	-	-		
Point	4'	4'	J4(i3740)	50.00 lb	100.00 lb	-	-		
Point	5'- 4"	5'- 4"	J2(i3779)	71.00 lb	143.00 lb	-	-		
Point	5'- 4"	5'- 4"	J4(i3759)	43.00 lb	86.00 lb	-	-		

#### Support Information:

			_	Maximum Analysis Reactions					
Support Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow		
1	0'	0'- 4"	E77(i147)	229.00 lb	425.00 lb	-	-		
2	5'- 4"	5'- 8"	E76(i146)	318.00 lb	602.00 lb	-	-		

#### Errors, Warnings & Notes:

The dead loads used in the design of this member were applied to the structure as sloped dead loads

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

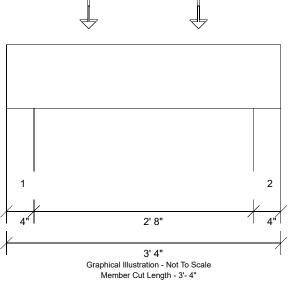
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting



# Label: 2-2x10's-i3773

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#### Member: 2 - 2x10 SPF No.2



MemberPitch - 0/12

10016

1.0

Deef Deed Leed

#### **Design Information:**

Building Code: IBC 20 Design Methodology: ASD	Floor L	Dead Load: 10.0 lb/ft <sup>2</sup> vive Load: 40.0 lb/ft <sup>2</sup> ced Length Top: 0'- 6"	Roof Dead Load: Roof Live Load: Bottom: 2'- 8"	10.0 lb/ft <sup>2</sup> Grou 20.0 lb/ft <sup>2</sup>	Ind Snow Load:	0.0 lb/tt <sup>2</sup>	
Design Results:							
	Location	<u>Design</u>	<u>Control</u>	<u>Result</u>	<u>LDF</u>	Load Combination	
Critical Moment (Pos)	1'- 8 3/16"	305.13 lb ft	3429.65 lb ft	Passed - 9%	1.00	D + L	
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft				
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft				
Critical Shear	1'- 1 1/4"	348.42 lb	2497.50 lb	Passed - 14%	1.00	D + L	
Live Load Deflection	1'- 8"	0'	N/A (L/360)	Passed - L/999	-	L	
Total Load Deflection	1'- 8"	0'	N/A (L/240)	Passed - L/999	-	D + L	
Max. Reaction			Supported Mtl Supportin	<u>a Mtl</u>			
	0'- 3"	409.13 lb	5578.13 lb 10500.0	2 lb Passed - 7%	1.00	D + L	
	3'- 1"	408.96 lb	5578.13 lb 10500.0	2 lb Passed - 7%	1.00	D + L	

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

1001

#### Loading:

				Maximum Load Magnitudes						
<u>Type</u>	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>			
Self Weight	0'	3'- 4"	Self Weight	6 lb/ft	-	-	-			
Point	1'	1'	J2(i3712)	83.00 lb	166.00 lb	-	-			
Point	1'	1'	J4(i3717)	50.00 lb	100.00 lb	-	-			
Point	2'- 4"	2'- 4"	J2(i3750)	83.00 lb	166.00 lb	-	-			
Point	2'- 4"	2'- 4"	J4(i3769)	50.00 lb	100.00 lb	-	-			

			_	Maximum Analysis Reactions					
Support Support	Start	End	Source	Dead	Floor Live	Roof Live	Snow		
1	0'	0'- 4"	E76(i146)	143.00 lb	266.00 lb	-	-		
2	3'	3'- 4"	E78(i148)	143.00 lb	266.00 lb	-	-		

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

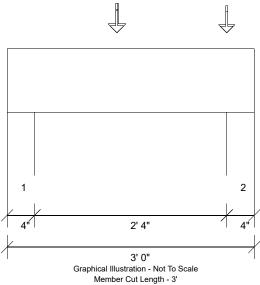
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.



### Member: 2 - 2x10 SPF No.2

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MemberPitch - 0/12

#### **Design Information:**

Design Methodology: ASD Flo	oor Dead Load: 10.0 lb/ft² oor Live Load: 40.0 lb/ft²		10.0 lb/ft <sup>2</sup> Ground \$ 20.0 lb/ft <sup>2</sup>	Snow Load:	0.0 lb/ft <sup>2</sup>
а а,		Roof Live Load:	20 0 IL/#2		
			20.0 10/11-		
Ur	nbraced Length Top: 0'- 3/8"	Bottom: 2'- 4"			
Design Results:					
Location	<u>Design</u>	<u>Control</u>	<u>Result</u>	<u>LDF</u>	Load Combination
Critical Moment (Pos) 1'- 4"	261.81 lb ft	3429.65 lb ft	Passed - 8%	1.00	D + L
Critical Moment (Neg)	0.00 lb ft	0.00 lb ft			
Critical Moment (Neg)	0.00 lb ft	0.00 lb ft			
Critical Shear 1'- 1 1/4"	240.04 lb	2497.50 lb	Passed - 10%	1.00	D + L
Live Load Deflection 1'- 5 9/16"	0'	N/A (L/360)	Passed - L/999	-	L
Total Load Deflection 1'- 5 9/16"	0'	N/A (L/240)	Passed - L/999	-	D + L
Max. Reaction		Supported Mtl Supporting	Mtl		
0'- 3"	246.70 lb	5578.13 lb 10500.02	lb Passed - 4%	1.00	D + L
2'- 9"	513.38 lb	5578.12 lb 10499.99 l	lb Passed - 9%	1.00	D + L

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

				Maximum Load Magnitudes					
<u>Type</u>	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>		
Self Weight	0'	3'	Self Weight	6 lb/ft	-	-	-		
Point	1'- 4"	1'- 4"	J2(i3780)	83.00 lb	166.00 lb	-	-		
Point	1'- 4"	1'- 4"	J4(i3763)	50.00 lb	100.00 lb	-	-		
Point	2'- 8"	2'- 8"	J2(i3786)	71.00 lb	143.00 lb	-	-		
Point	2'- 8"	2'- 8"	J4(i3760)	43.00 lb	86.00 lb	-	-		
upport Info	rmation:								

			_	Maximum Analysis Reactions					
Support	Start	End	Source	Dead	Floor Live	Roof Live	Snow		
1	0'	0'- 4"	E78(i148)	84.00 lb	151.00 lb	-	-		
2	2'- 8"	3'	E80(i150)	181.00 lb	344.00 lb	-	-		

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

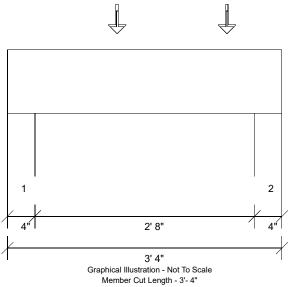
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.



#### Member: 2 - 2x10 SPF No.2

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MemberPitch - 0/12

#### **Design Information:**

Building Code: IBC Design Methodology: ASE	D Flo	bor Dead Load: 10.0 lb/ft² bor Live Load: 40.0 lb/ft² braced Length Top: 0'- 3 5/8"	Roof Dead Load: Roof Live Load: Bottom: 2'- 8"	10.0 lb/ft <sup>2</sup> 20.0 lb/ft <sup>2</sup>	Ground S	Snow Load:	0.0 lb/ft <sup>2</sup>	
<b>Design Results</b>	<u>):</u>							
	Location	<u>Design</u>	<u>Control</u>		<u>Result</u>	LDF	Load Combination	
Critical Moment (Pos) Critical Moment (Neg)	1'- 4"	336.09 lb ft 0.00 lb ft	3429.65 lb ft 0.00 lb ft		Passed - 10%	1.00	D + L	
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft					
Critical Shear Live Load Deflection	1'- 1 1/4" 1'- 7 7/8"	308.67 lb 0'	2497.50 lb N/A (L/360)		Passed - 12% Passed - L/999	1.00	D+L	
Total Load Deflection	1'- 7 7/8"	0'	N/A (L/240)		Passed - L/999	-	D+L	

Supporting Mtl 10499.99 lb

10499.99 lb

Passed - 6%

Passed - 9%

1.00

1.00

D + L

D + L

Supported Mtl

5578.12 lb

5578.12 lb

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

315.33 lb

502.76 lb

#### Loading:

Max. Reaction

					Maximum Loa	<u>id Magnitudes</u>			
<u>Type</u>	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>		
Self Weight	0'	3'- 4"	Self Weight	6 lb/ft	-	-	-		
Point	1'- 4"	1'- 4"	J2(i3719)	83.00 lb	166.00 lb	-	-		
Point	1'- 4"	1'- 4"	J4(i3778)	50.00 lb	100.00 lb	-	-		
Point	2'- 8"	2'- 8"	J2(i3772)	83.00 lb	166.00 lb	-	-		
Point	2'- 8"	2'- 8"	J4(i3724)	50.00 lb	100.00 lb	-	-		
Point Jpport Infoi	-	2'- 8"	J4(13724)	50.00 lb	100.00 lb				

			_		<u>Maximum Ana</u>	<u>ysis Reactions</u>				
Support 5 1	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	Snow			
1	0'	0'- 4"	E80(i150)	112.00 lb	203.00 lb	-	-			
2	3'	3'- 4"	E82(i152)	174.00 lb	329.00 lb	-	-			

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

0'- 3"

3'- 1"

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

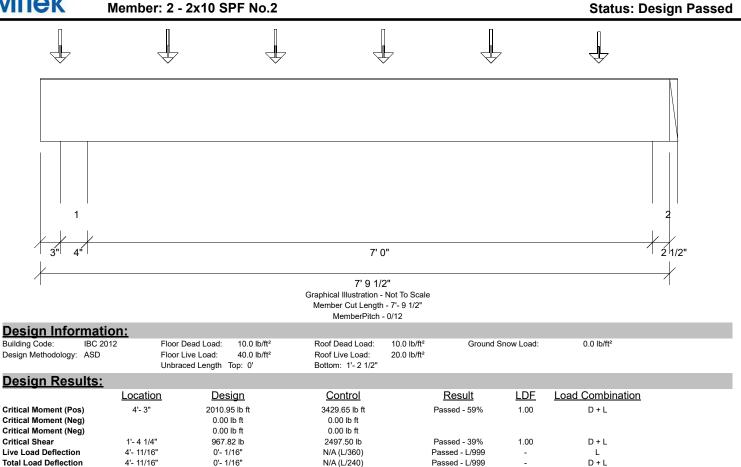
MiTek<sup>®</sup>

#### Job: Lot 7 Raven Ridge Member Type: Beam | Level: 2nd Floor MiTek SAPPHIRE™ Supply Version 8.2.2.241.Update5

Designed by Single Member Design Engine

# Label: 2-2x10's-i3723

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#### **Design Notes:**

Max. Reaction

\* The deflection at the cantilever for either live and/or total loads is less than 3/8" and therefore has been excluded from the deflection ratio considerations.

Supported Mtl

5578.13 lb

3187.44 lb

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

1377.98 lb

1030.98 lb

#### Loading:

					Maximum Loa	<u>ad Magnitudes</u>		
<u>Type</u>	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>	
Self Weight	0'	7'- 9 1/2"	Self Weight	6 lb/ft	-	-	-	
Point	0'- 3"	0'- 3"	J1(i3716)	107.00 lb	213.00 lb	-	-	
Point	0'- 3"	0'- 3"	J4(i3784)	27.00 lb	55.00 lb	-	-	
Point	1'- 7"	1'- 7"	J1(i3747)	107.00 lb	213.00 lb	-	-	
Point	1'- 7"	1'- 7"	J4(i3777)	27.00 lb	55.00 lb	-	-	
Point	2'- 11"	2'- 11"	J1(i3726)	107.00 lb	213.00 lb	-	-	
Point	2'- 11"	2'- 11"	J4(i3783)	27.00 lb	55.00 lb	-	-	
Point	4'- 3"	4'- 3"	J1(i3713)	107.00 lb	213.00 lb	-	-	
Point	4'- 3"	4'- 3"	J4(i3715)	27.00 lb	55.00 lb	-	-	
Point	5'- 7"	5'- 7"	J1(i3739)	107.00 lb	213.00 lb	-	-	
Point	5'- 7"	5'- 7"	J4(i3749)	27.00 lb	55.00 lb	-	-	
Point	6'- 11"	6'- 11"	J1(i3736)	93.00 lb	187.00 lb	-	-	
Point	6'- 11"	6'- 11"	J4(i3738)	24.00 lb	48.00 lb	-	-	

Supporting Mtl

10500.00 lb

6562.38 lb

Passed - 25%

Passed - 32%

1.00

1.00

D + L

D + L

#### Support Information:

					Maximum Anal	<u>ysis Reactions</u>				
Support	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>			
1	0'- 3"	0'- 7"	E95(i168)	480.00 lb	912.00 lb	-	-			
2	7'- 7"	7'- 9 1/2"	E97(i547)	354.00 lb	663.00 lb	-	-			

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

0'- 5"

7'- 8"

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

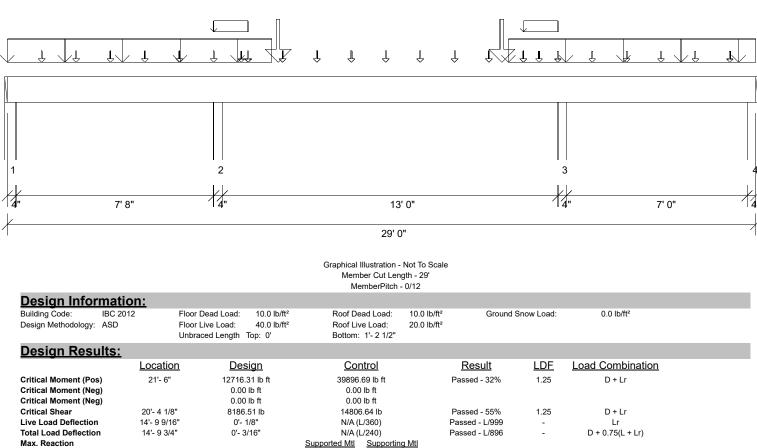
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



Member: 3 - onCENTER LVL 2.0E 1 3/4" x 11 7/8"

# Label: BM1-3-i3555

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Critical Shear	20'- 4 1/8"	8186.51 lb	1480	6.64 lb	Passed - 55%	1.25	D + Lr
Live Load Deflection	14'- 9 9/16"	0'- 1/8"	N/A (	L/360)	Passed - L/999	-	Lr
Total Load Deflection	14'- 9 3/4"	0'- 3/16"	N/A (	L/240)	Passed - L/896	-	D + 0.75(L + Lr
Max. Reaction			Supported Mtl	Supporting Mtl			
	0'- 3"	978.78 lb	17226.63 lb	18375.08 lb	Passed - 6%	1.25	D + Lr
	0'- 3"	-660.28 lb	17226.63 lb	-	Passed - 4%	1.25	D + Lr
	8'- 2"	11754.03 lb	17226.68 lb	18375.14 lb	Passed - 68%	1.25	D + Lr
	21'- 6"	11812.03 lb	17226.68 lb	18375.14 lb	Passed - 69%	1.25	D + Lr
	28'- 9"	756.11 lb	17226.59 lb	18375.04 lb	Passed - 4%	1.25	D + Lr
	28'- 9"	-959.77 lb	17226.59 lb	-	Passed - 6%	1.25	D + Lr

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

					Maximum Loa	<u>ad Magnitudes</u>			
<u>Type</u>	<u>Start</u>	End	Source	<u>Dead</u>	Floor Live	Roof Live	<u>Snow</u>		
Self Weight	0'	29'	Self Weight	16 lb/ft	-	-	-		
Uniform	0'	10'- 3"	User Load	150 lb/ft	-	200 lb/ft	-		
Uniform	8'	9'- 4"	FC3 Floor Material	1 lb/ft	3 lb/ft	-	-		
Uniform	19'- 5"	29'	User Load	150 lb/ft	-	200 lb/ft	-		
Uniform	20'	21'- 4"	FC3 Floor Material	1 lb/ft	3 lb/ft	-	-		
Point	1'- 4"	1'- 4"	J4(i3728)	54.00 lb	108.00 lb	-	-		
Point	2'- 8"	2'- 8"	J4(i3758)	54.00 lb	108.00 lb	-	-		
Point	4'	4'	J4(i3735)	54.00 lb	108.00 lb	-	-		
Point	5'- 4"	5'- 4"	J4(i3740)	54.00 lb	108.00 lb	-	-		
Point	6'- 8"	6'- 8"	J4(i3759)	54.00 lb	108.00 lb	-	-		
Point	8'	8'	J4(i3721)	53.00 lb	106.00 lb	-	-		
Point	9'- 3/4"	9'- 3/4"	J3(i3775)	9.00 lb	17.00 lb	-	-		
Point	9'- 4"	9'- 4"	J4(i3717)	52.00 lb	105.00 lb	-	-		
Point	9'- 4"	9'- 4"	J3(i3720)	45.00 lb	89.00 lb	-	-		
Point	10'- 6"	10'- 6"	User Load	2392.00 lb	-	4783.00 lb	-		
Point	10'- 8"	10'- 8"	J3(i3753)	72.00 lb	144.00 lb	-	-		
Point	10'- 8"	10'- 8"	J4(i3769)	52.00 lb	105.00 lb	-	-		
Point	12'	12'	J3(i3745)	72.00 lb	144.00 lb	-	-		
Point	12'	12'	J4(i3722)	52.00 lb	104.00 lb	-	-		
Point	13'- 4"	13'- 4"	J3(i3743)	72.00 lb	144.00 lb	-	-		
Point	13'- 4"	13'- 4"	J4(i3763)	52.00 lb	105.00 lb	-	-		
Point	14'- 8"	14'- 8"	J3(i3751)	72.00 lb	144.00 lb	-	-		
Point	14'- 8"	14'- 8"	J4(i3760)	52.00 lb	104.00 lb	-	-		
Point	16'	16'	J3(i3746)	72.00 lb	144.00 lb	-	-		
Point	16'	16'	J4(i3752)	52.00 lb	104.00 lb	-	-		
Point	17'- 4"	17'- 4"	J3(i3785)	72.00 lb	144.00 lb	-	-		
Point	17'- 4"	17'- 4"	J4(i3755)	52.00 lb	104.00 lb	-	-		
Point	18'- 8"	18'- 8"	J3(i3774)	72.00 lb	144.00 lb	-	-		
Point	18'- 8"	18'- 8"	J4(i3778)	52.00 lb	105.00 lb	-	-		

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.



#### Member: 3 - onCENTER LVL 2.0E 1 3/4" x 11 7/8"

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							0	
Point	19'- 2"	19'- 2"	User Load	2392.00 lb	-	4783.00 lb	-	
Point	20'	20'	J3(i3725)	54.00 lb	107.00 lb	-	-	
Point	20'	20'	J4(i3724)	52.00 lb	105.00 lb	-	-	
Point	20'- 7 1/4"	20'- 7 1/4"	J3(i3767)	18.00 lb	35.00 lb	-	-	
Point	21'- 4"	21'- 4"	J4(i3784)	30.00 lb	59.00 lb	-	-	
Point	22'- 8"	22'- 8"	J4(i3777)	31.00 lb	61.00 lb	-	-	
Point	24'	24'	J4(i3783)	31.00 lb	61.00 lb	-	-	
Point	25'- 4"	25'- 4"	J4(i3715)	31.00 lb	61.00 lb	-	-	
Point	26'- 8"	26'- 8"	J4(i3749)	31.00 lb	61.00 lb	-	-	
Point	28'	28'	J4(i3738)	27.00 lb	54.00 lb	-	-	

#### Support Information:

			_	Maximum Analysis Reactions				
Support	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>	
1	0'	0'- 4"	E64(i134)	233.00 lb	257.00/-242.00 lb	781.00/-787.00 lb	-	
2	8'	8'- 4"	E69(i138)	4820.00 lb	1769.00 lb	6901.00 lb	-	
3	21'- 4"	21'- 8"	E95(i168)	4719.00 lb	1602.00 lb	6968.00 lb	-	
4	28'- 8"	29'	E91(i162)	63.00 lb	150.00/-276.00 lb	734.00/-900.00 lb	-	

#### Errors, Warnings & Notes:

CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

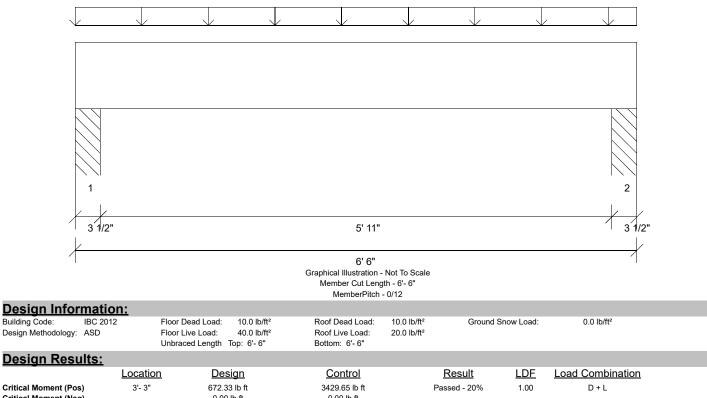
\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



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#### Member: 2 - 2x10 SPF No.2



Critical Moment (Pos)	3'- 3"	672.33 lb ft	3429.65 lb ft	Passed - 20%	1.00	D + L	
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft				
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft				
Critical Shear	1'- 3/4"	319.43 lb	2497.50 lb	Passed - 13%	1.00	D + L	
Live Load Deflection	3'- 3"	0'	N/A (L/360)	Passed - L/999	-	L	
Total Load Deflection	3'- 3"	0'	N/A (L/240)	Passed - L/999	-	D + L	
Max. Reaction			Supported Mtl Supporting Mtl				
	0'- 2 1/2"	474.59 lb	4940.63 lb 7612.51 lb	Passed - 10%	1.00	D + L	
	6'- 3 1/2"	474.59 lb	4940.63 lb 7612.51 lb	Passed - 10%	1.00	D + L	

#### **Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

#### Loading:

-							
<u>Type</u>	<u>Start</u>	End	Source	Dead	Floor Live	Roof Live	<u>Snow</u>
Self Weight	0'	6'- 6"	Self Weight	6 lb/ft	-	-	-
Uniform	0'	6'- 6"	User Load	70 lb/ft	70 lb/ft	-	-
Support Info	<u>rmation:</u>						
					Maximum Ana	lysis Reactions	
Support	Start	End	Source	Dead	Floor Live	RoofLive	Snow

# Support Start End Source Dead Floor Live Roof Live Snow 1 0' 0'- 3 1/2" PBO5(i3789) 247.00 lb 227.00 lb 2 6'- 2 1/2" 6'- 6" PBO6(i3816) 247.00 lb 228.00 lb

#### Errors, Warnings & Notes:

\* The dead loads used in the design of this member were applied to the structure as sloped dead loads.

\* Calculation of lateral stability factor (KL) is based on the width of one ply.

\* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

\* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

