

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

3360 - SCOTT PAUL RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115



Information:

Owner Info: Scott - Robin Paul Project Name: Paul Res. Model: Custom

Address: N/A Subdivision: N/A

City: TBD, TBD

County: Columbia Cty

State: FL

Address and License # of Structural Engineer of Record, If there is one, for the building.

License #:

State:

Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Conditions):

Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.4

Code: ASCE 7-16

Wind Speed: 130 mph

Load: 37.0 psf

Floor Load: N/A psf

Package includes 4 individual, Truss Design Drawings and 0 Additional Drawings.

By seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet is in accordance with 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

Drawn/Checked	Truss Name	Date
1620759	T01	1/24/22
1620760	T01G	1/24/22
1620761	T02	1/24/22
1620762	T02G	1/24/22

rawing(s) referenced above have been prepared by MiTek USA, Inc.
irect supervision based on the parameters
/ Builders FirstSource-Lake City, FL.

ign Engineer's Name: ORegan, Philip
renewal date for the state of Florida is February 28, 2023.

NT NOTE: The seal on these truss component designs is a certification
eer named is licensed in the jurisdiction(s) identified and that the
ily with ANSI/TPI 1. These designs are based upon parameters
oads, supports, dimensions, shapes and design codes), which were
k or TRENCO. Any project specific information included is for MiTek's or
istomers file reference purpose only, and was not taken into account in the
f these designs. MiTek or TRENCO has not independently verified the
f the design parameters or the designs for any particular building. Before use,
esigner should verify applicability of design parameters and properly
ese designs into the overall building design per ANSI/TPI 1, Chapter 2.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

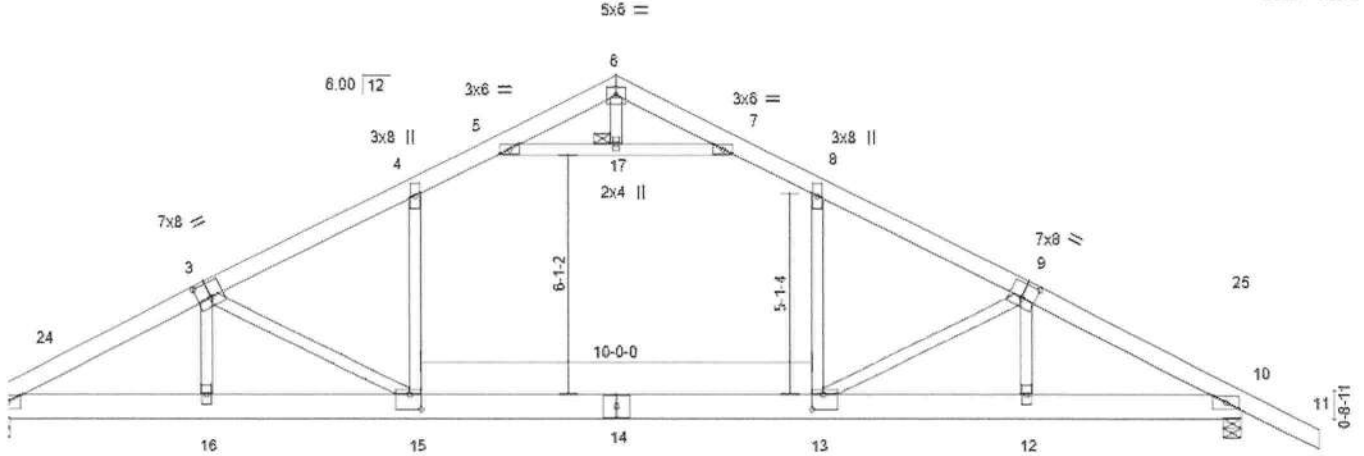
January 24,2022

ORegan, Philip

1 of 1

Truss	Truss Type	Qty	Pty	SCOTT PAUL RES.	T26620759
T01	Attic	12	1		
Job Reference (optional)					

(Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 13:35:23 2022 Page 1
ID:5t1aRtutdkEjK5ORhucp4hzsT8T-tSgizSV3EpMlxvCc5CHZG2FozNbfYX6kcYu84zsSt2
21-1-12
5-8-0 10-10-4 12-4-7 13-3-3 16-0-0 18-6-13 19-7-9 26-6-0 32-0-0 34-0-0
5-8-0 5-4-4 1-6-3 0-10-13 2-8-13 2-6-13 0-10-13 1-8-3 5-4-4 5-6-0 2-0-0 2-0-0
Scale = 1:59.0



3x6		6x8 =		7x8 =		6x8 =		3x8		4x8 =	
5-6-0		10-10-4		21-1-12		26-6-0		32-0-0			
5-6-0		5-4-4		10-3-8		5-4-4		5-6-0			
- [3:0-4-0,0-4-8], [9:0-4-0,0-4-8], [13:0-3-8,0-4-8], [15:0-3-8,0-4-8]											
SPACING-		CSI.		DEFL.				PLATES		GRIP	
2-0-0				in (loc) l/defl L/d				MT20		244/190	
Plate Grip DOL 1.25		TC 0.39		Vert(LL) -0.22 13-15 >999 240							
Lumber DOL 1.25		BC 0.37		Vert(CT) -0.40 13-15 >949 180							
Rep Stress Incr YES		WB 0.69		Horz(CT) 0.04 10 n/a n/a							
Code FBC2020/TPI2014		Matrix-MS		Attic -0.10 13-15 1280 360				Weight: 244 lb		FT = 20%	

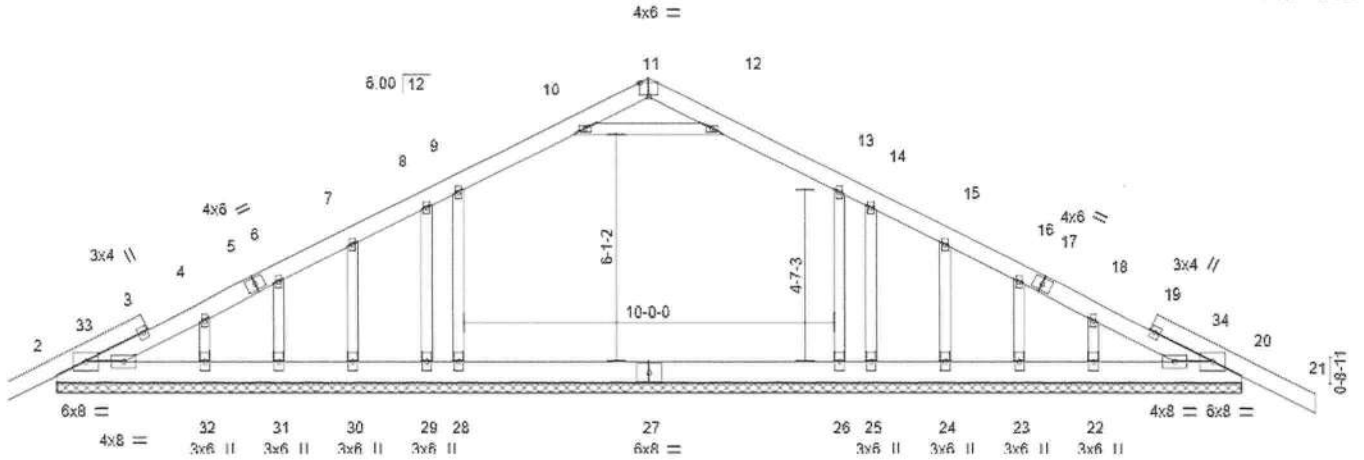
i SP M 26 "Except"
 i 9-11: 2x6 SP No.2
 i SP 2400F 2.0E
 i SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 17

(size) 2=0-5-8, 10=0-5-8
 ix Horz 2=-134(LC 13)
 ix Uplift 2=-140(LC 12), 10=-140(LC 13)
 ix Grav 2=1631(LC 2), 10=1631(LC 2)

iax. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 -3=-2832/135, 3-4=-2666/40, 4-5=-2142/106, 5-6=0/383, 6-7=0/383, 7-8=-2142/106,
 -9=-2666/41, 9-10=-2832/137
 -16=-166/2519, 15-16=-166/2520, 13-15=0/2256, 12-13=-34/2511, 10-12=-34/2509
 -13=0/909, 9-13=-565/275, 4-15=0/909, 3-15=-565/273, 5-17=-2675/36, 7-17=-2675/36,
 -16=-263/83, 9-12=-263/83

Truss	Truss Type	Qty	Ply	SCOTT PAUL RES.	T26620760
T01G	Attic Supported Gable	1	1		
Job Reference (optional)					
(Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 13:35:25 2022 Page 1 ID:5t1aRtutdkEJK5ORhucp4hzsT8T-pqoS08WJmQcT4r2aJWFleh7gqn7B7b8PBv1?CyzsSi0					
0-0-0	11-0-0	16-0-0	21-0-0	32-0-0	34-0-0
-0-0	11-0-0	5-0-0	5-0-0	11-0-0	2-0-0
Scale = 1:62.3					



3x6		3x6	
11-0-0	21-0-0	32-0-0	
11-0-0	10-0-0	11-0-0	
[11-0-3-0,Edge]			
SPACING-	2-0-0	CSI.	DEFL.
Plate Grip DOL	1.25	TC 0.10	in (loc) l/defl L/d
Lumber DOL	1.25	BC 0.11	Vert(LL) -0.00 21 n/r 120
Rep Stress Incr	YES	WB 0.11	Vert(CT) -0.00 21 n/r 120
Code FBC2020/TPI2014		Matrix-S	Horz(CT) 0.01 20 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 253 lb	FT = 20%

} SP No.2
 } SP 2400F 2.0E
 } SP No.3
 } SP No.3

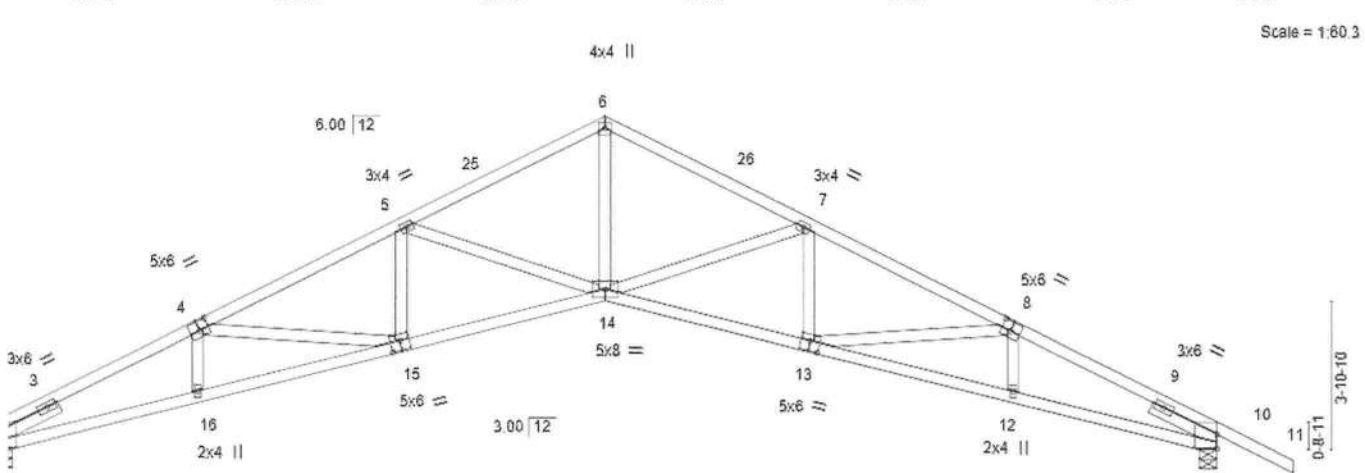
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

.All bearings 32-0-0.
 1x Horz 2=126(LC 16)
 1x Uplift All uplift 100 lb or less at joint(s) 2, 30, 31, 32, 24, 23, 22, 28, 26, 20 except 29=671(LC 18),
 25=671(LC 18)
 1x Grav All reactions 250 lb or less at joint(s) 30, 31, 24, 23 except 2=391(LC 1), 32=301(LC 2), 22=301(LC
 2), 28=1059(LC 18), 26=1059(LC 18), 20=391(LC 1)

1ax. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 -4=-375/55, 4-6=-376/85, 6-7=-369/112, 7-8=-362/153, 8-9=-322/174, 9-10=-399/232,
 2-13=-399/232, 13-14=-322/174, 14-15=-362/153, 15-16=-369/113, 16-18=-376/76,
 8-20=-375/46
 -32=-9/308, 31-32=-9/308, 30-31=-9/308, 29-30=-9/308, 28-29=-9/308, 26-28=-9/308,
 5 26- 9/308 24 25- 9/308 22 24- 9/308 22 23- 9/308 20 22- 9/308

Truss	Truss Type	Qty	Ply	SCOTT PAUL RES.	T26620761
T02	Scissor	27	1	Job Reference (optional)	

(Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 13:35:27 2022 Page 1
 ID:5t1aRtutdKEjK5ORhucp4hzaT8T-mDvCpqYal2sAK8CzrxHDj6Ct4bf3bMPheDjW5HrzsSi_



5-4-0	10-8-0	16-0-0	21-4-0	26-8-0	32-0-0
5-4-0	5-4-0	5-4-0	5-4-0	5-4-0	5-4-0
[4-0-3-0,0-3-0], [8-0-3-0,0-3-0], [13-0-3-0,0-3-0], [15-0-3-0,0-3-0]					
SPACING-		CSI.	DEFL.		PLATES
2-0-0			in (loc)	L/d	GRIP
Plate Grip DOL		TC 0.69	Vert(LL) -0.33 14	>999 240	MT20 244/190
Lumber DOL		BC 0.72	Vert(CT) -0.61 13-14	>625 180	
Rep Stress Incr YES		WB 0.70	Horz(CT) 0.44 10	n/a n/a	
Code FBC2020/TPI2014		Matrix-MS			Weight: 166 lb FT = 20%

SP No.2 *Except*
8-11: 2x4 SP M 31
SP No.2 *Except*
5,10-13: 2x4 SP M 31
SP No.3
2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

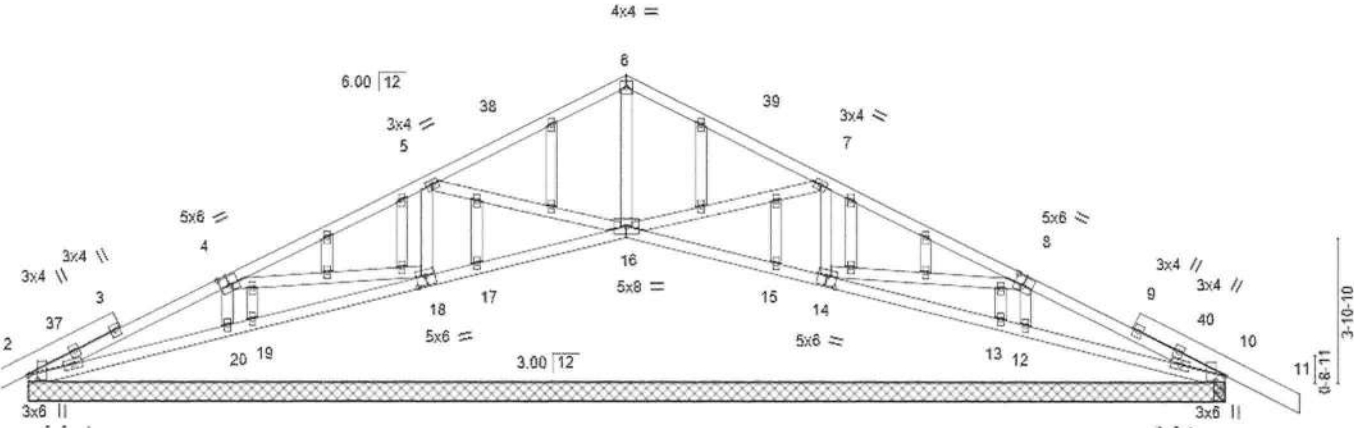
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-1-5 oc bracing.

size) 2=0-5-8, 10=0-5-8
x Horz 2=134(LC 17)
x Uplift 2=287(LC 12), 10=287(LC 13)
x Grav 2=1292(LC 1), 10=1292(LC 1)

ax. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
4=-3041/664, 4-5=-3032/618, 5-6=-2405/434, 6-7=-2405/451, 7-8=-3032/538,
10=-3041/665
16=-645/2678, 15-16=-653/2726, 14-15=-535/2776, 13-14=-362/2776, 12-13=-426/2726,
0-12=-419/2678
1A=-300/1812, 7-14=-673/282, 7-13=-22/267, 5-14=-673/282, 5-15=-15/267

Truss	Truss Type	Qty	Ply	SCOTT PAUL RES.	T26620762
T02G	GABLE	1	1	Job Reference (optional)	
(Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 13:35:29 2022 Page 1					
ID:5t1aRtutdKJk5ORhucp4hzsT8T-ic1zEVZqql6uZSMLyMJhoXHJrOSd3PU_6X?CKjzsShy					
0	5-4-0	10-8-0	16-0-0	21-4-0	26-8-0
0	5-4-0	5-4-0	5-4-0	5-4-0	5-4-0
					32-0-0
					34-0-0
					2-0-0

Scale = 1:81.6



5-4-0	10-8-0	16-0-0	21-4-0	26-8-0	32-0-0
5-4-0	5-4-0	5-4-0	5-4-0	5-4-0	5-4-0
[2:0-1-7,0-2-15], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:0-1-7,0-2-15], [14:0-3-0,0-3-0], [18:0-3-0,0-3-0]					
SPACING-		CSI.		DEFL.	
Plate Grip DOL	2-0-0	TC	0.29	in (loc)	L/d
Lumber DOL	1.25	BC	0.21	Vert(LL)	-0.02 2-20 >999 240
Rep Stress Incr	YES	WB	0.09	Vert(CT)	-0.04 2-20 >999 180
Code FBC2020/TPI2014		Matrix-S		Horz(CT)	0.00 10 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 196 lb	FT = 20%

SP No.2 *Except*
 9-11: 2x6 SP No.2
 SP No.2
 SP No.3
 SP No.3

BRACING-

TOP CHORD
 BOT CHORD

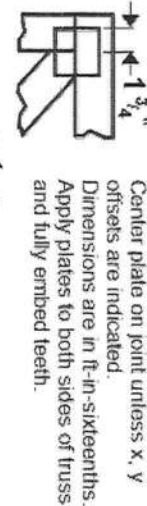
Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 19-20, 12-13.

ll bearings 32-0-0,
 x Horz 2=128(LC 12)
 x Uplift All uplift 100 lb or less at joint(s) 16, 2 except 14=-119(LC 13),
 12=-131(LC 13), 18=-134(LC 12), 20=-145(LC 12), 10=-118(LC 13)
 x Grav All reactions 250 lb or less at joint(s) 17, 19, 15, 13 except 16=357(LC
 1), 14=362(LC 24), 12=384(LC 1), 18=362(LC 23), 20=384(LC 1), 2=302(LC 23),
 10=302(LC 24), 10=302(LC 1)

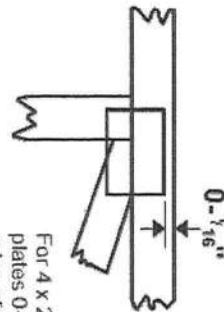
ax. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 .16=-257/60, 7-14=-297/122, 8-12=-283/149, 5-18=-297/143, 4-20=-283/163

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y
 offsets are indicated.
 Dimensions are in ft-in-sixteenths.
 Apply plates to both sides of truss
 and fully embed teeth.



For 4 x 2 orientation, locate
 plates 0- 1/8\" from outside
 edge of truss.



This symbol indicates the
 required direction of slots in
 connector plates.

*Plate location details available in MiTek 20/20
 software or upon request.

PLATE SIZE

4 X 4

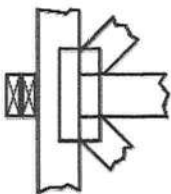
The first dimension is the plate
 width measured perpendicular
 to slots. Second dimension is
 the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or
 by text in the bracing section of the
 output. Use T or I bracing
 if indicated.

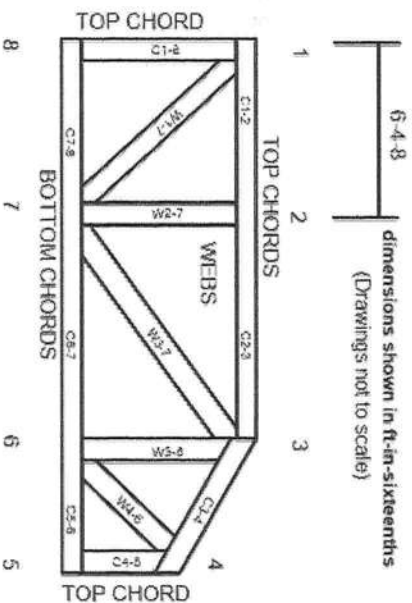
BEARING



Indicates location where bearings
 (supports) occur. Icons vary but
 reaction section indicates joint
 number where bearings occur.
 Min size shown is for crushing only.

Industry Standards:

Numbering System



JOINTS ARE GENERALLY NUMBERED LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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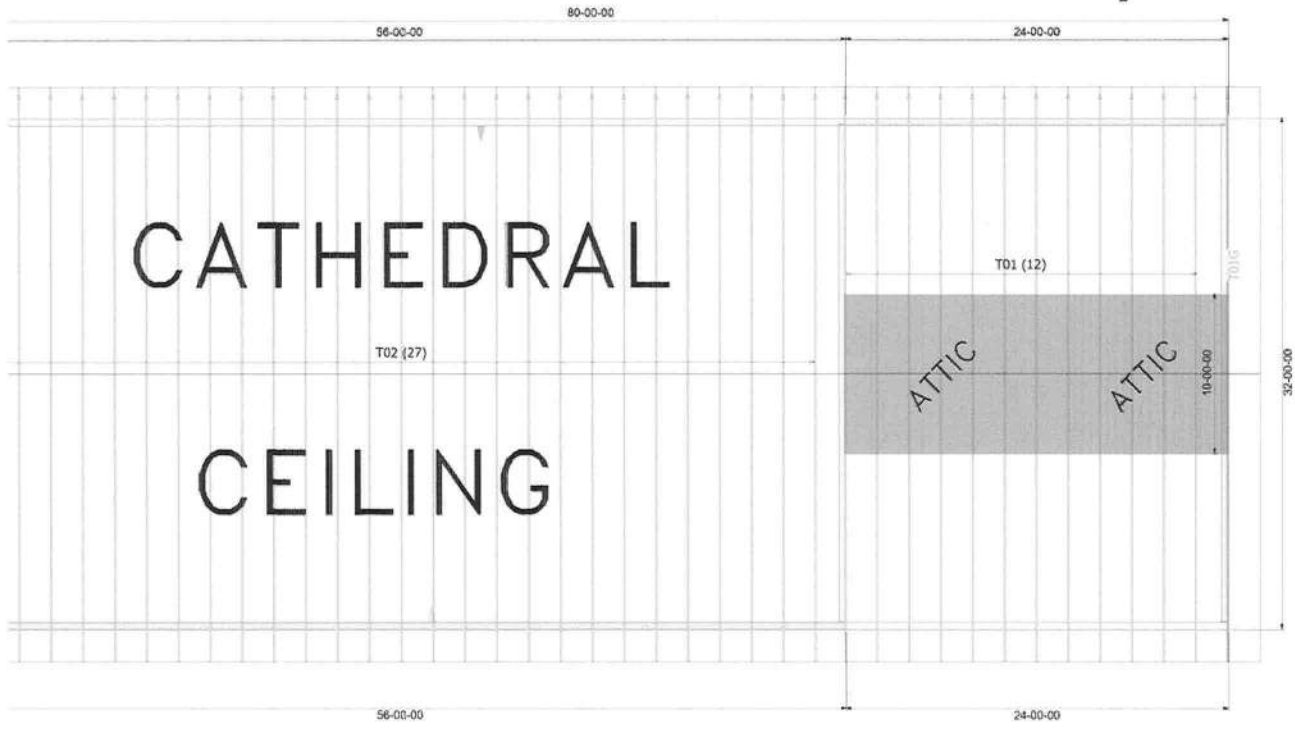


General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and waste at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and nufract) before use. *Disclaimer: not for use alone*

/12 PITCH - 24" O/H



THE ARROW HEAD AT THE
END OF THE TRUSS ON
THE TRUSS PLACEMENT
PLAN (LAYOUT)
CORRESPONDS WITH THE
LEFT SIDE OF THE
INDIVIDUAL TRUSS
DRAWING. USE THIS AS AN
ORIENTATION GUIDE
WHEN SETTING THE
TRUSSES ON THE
STRUCTURE.

General Notes:
- Per ANSI/APA 1000 all Truss
are the responsibility of the Built
Truss Manufacturer.
- Use Manufacturer's specifications
regardless of what is shown on this
drawing unless noted otherwise.
- Trusses are to be 24" o/c 12' x 4'
- All hangings are to be 1/2" x 1 1/2" Nails in larger
trusses.
- Trusses are not designed to sit
- Dimensions are Feet/Inches/8

Notes:
No-load changes will be accepted.
Final/Revised trusses approved in:
03/20/04

ALQ trusses are required to have
that means in contact with truss
tallies must have an approved ho

Refer to BCS-31 Summary the
installing and bearing of steel
Truss prior to and during truss

It is the responsibility of the Co
proper installation of the truss &
structural elements and full
structural analysis. If a code
required, it will be supplied at a
Final/Revised.

It is the responsibility of the Co
placement of trusses and adjust
lights, etc. as the trusses do in
type of truss.

All members framed roof or floor
designed as to NOT move any
below. The floor trusses have a
any additional loads from above

This truss placement plan was
engineer, but rather by the Built
to refer to be used as an install
require a seal. Complete truss e-
can be found on the truss design
needed by the truss design origin

Cable and trusses require install
bearing. Refer to local codes for
requirements.

Although all attempts have been
may not be designed symmetrically
individual truss drawings and to
proper installation and placement



Lake C
PHONE: 386-
FAX: 386-77

Jackson
PHONE: 904-
FAX: 904-77

Tallahassee
PHONE: 850-

Builder:
SCOTT · ROE
Legal Address:
Paul R

Model:	Custom
Date:	1-23-22
Drawn By:	KLH
Plan 1 Add:	N/A
Plan 2 Add:	N/A

/AL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

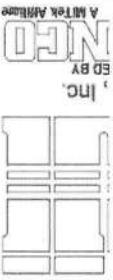
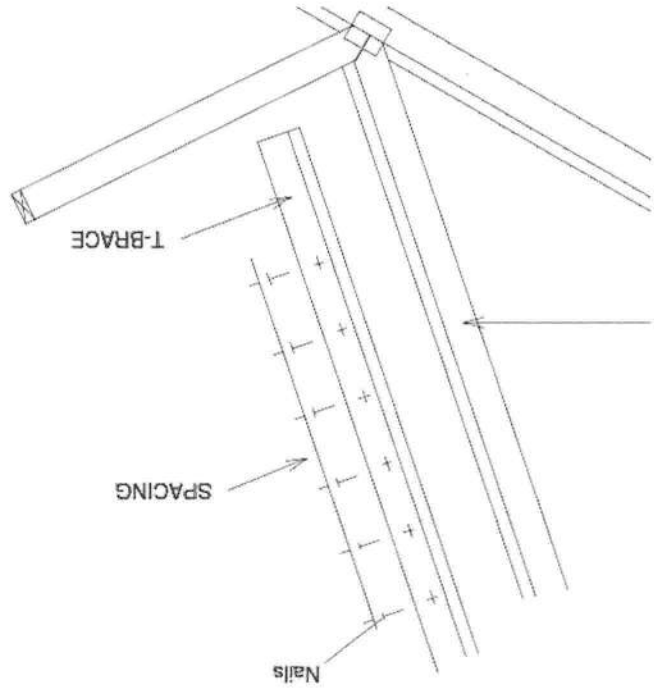
Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Brace Size for One-Ply Truss		Rows of Lateral Bracing		Web Size	2x3 or 2x4	2x4 T-Brace	2x6 I-Brace	2x8 I-Brace
				1	2	2x4 T-Brace	2x6 I-Brace	2x8 I-Brace
				2		2x4 T-Brace	2x6 I-Brace	2x8 I-Brace
				Specified Continuous		2x4 T-Brace	2x6 I-Brace	2x8 I-Brace

Brace Size for Two-Ply Truss		Rows of Lateral Bracing		Web Size	2x3 or 2x4	2x4 T-Brace	2x6 I-Brace	2x8 I-Brace
				1	2	2x4 T-Brace	2x6 I-Brace	2x8 I-Brace
				2		2x4 T-Brace	2x6 I-Brace	2x8 I-Brace
				Specified Continuous		2x4 T-Brace	2x6 I-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.

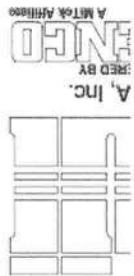
Nailing Pattern			
size	Nail Size	Nail Spacing	2x6 or 2x8
: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)			10d (0.131" X 3")
			6" o.c.



APPLY 2x SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.

*** THIS DETAIL IS NOT APPLICABLE WHEN BRACING IS REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED. ***

Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".



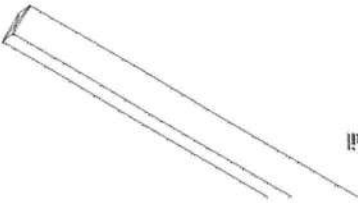
1, 2016	SCAB-BRACE DETAIL	MII-SCAB-BRACE
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I-Brace



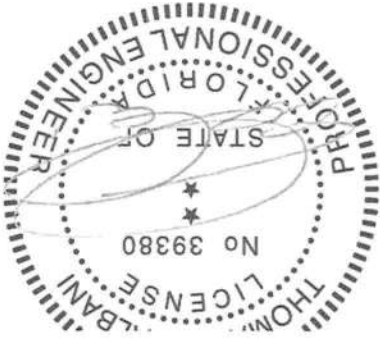
T-Brace

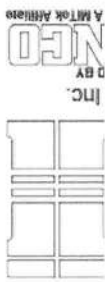
Section Detail



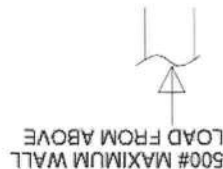
February 12, 2018

Thomas A. Albani PE No. 39380
MITTEK USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:





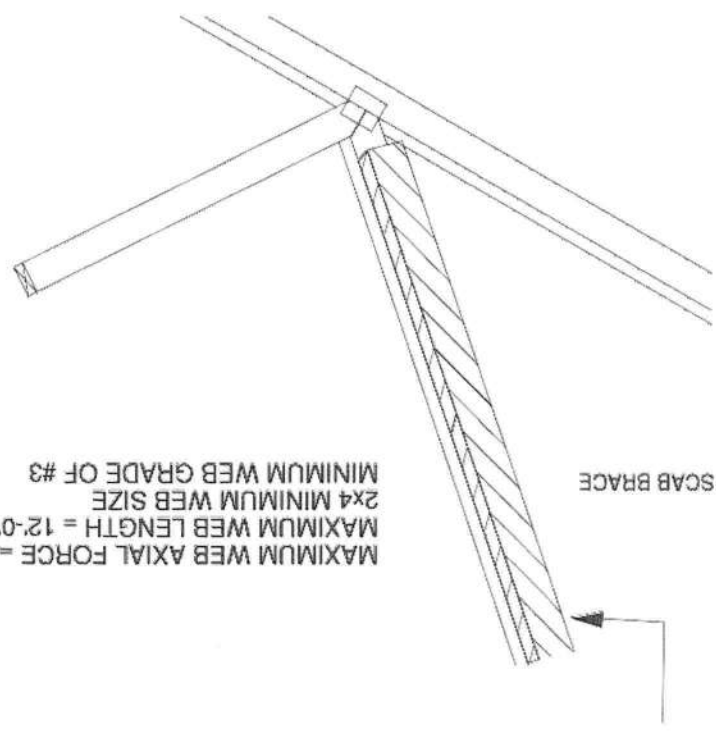
REFER TO INDIVIDUAL TRUSS DETAIL FOR



TRUSSES BUILT WITH 4x2 MEMBERS

1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.

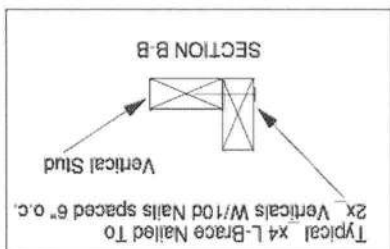
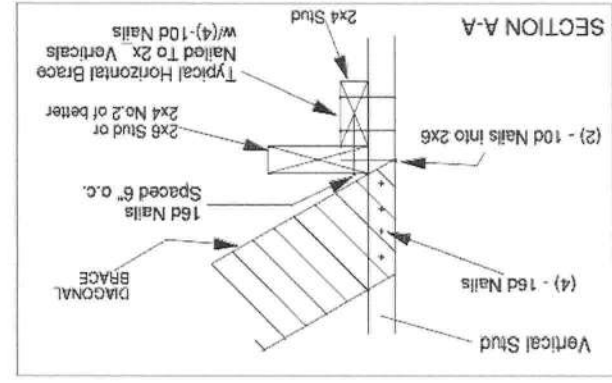
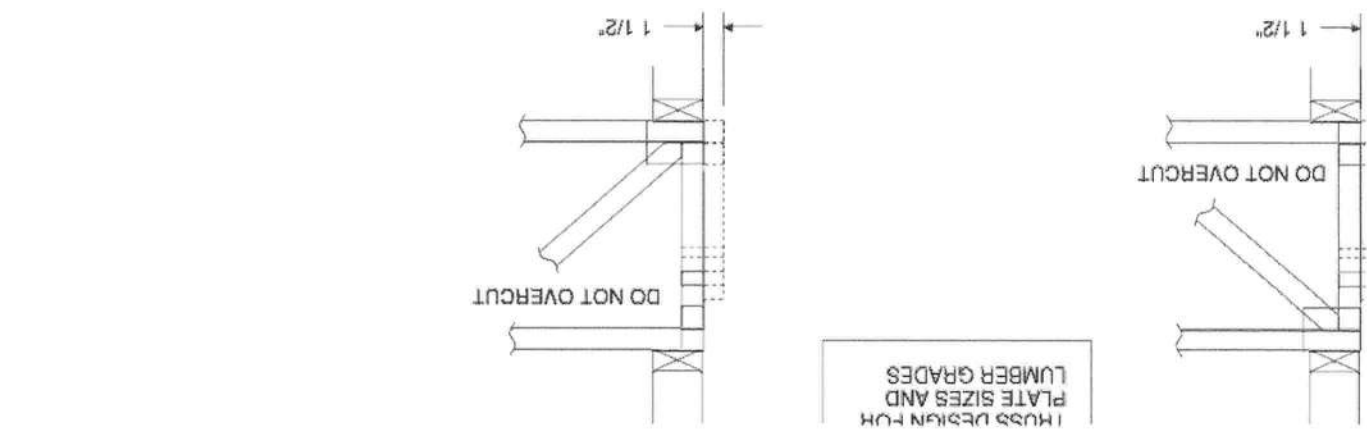
2016	STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)	MII-REP05
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MAXIMUM WEB AXIAL FORCE = 2500 lbs
MAXIMUM WEB LENGTH = 12'-0"
2x4 MINIMUM WEB SIZE
MINIMUM WEB GRADE OF #3

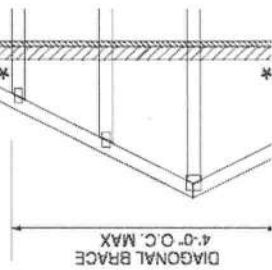


1, 2016	Standard Gable End Detail	MII-GE130-D-SP
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TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

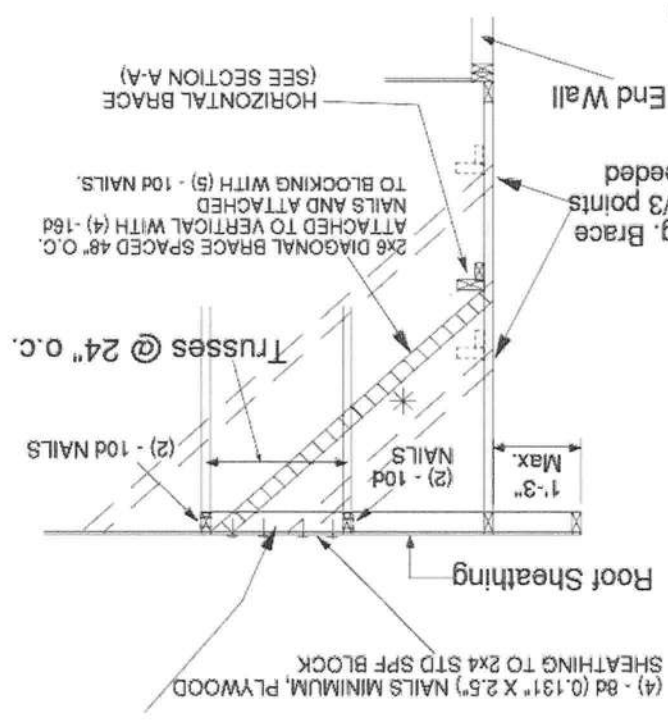


SEE INDIVIDUAL MITER ENGINEERING DRAWINGS FOR DESIGN CRITERIA

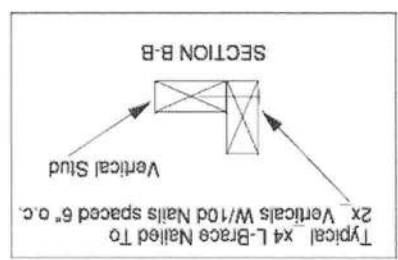
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



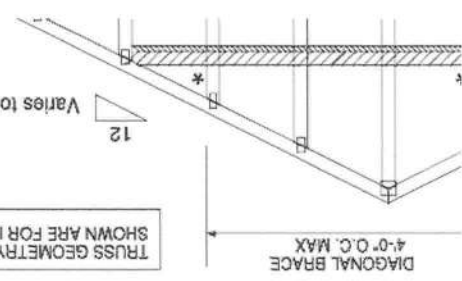
MII-GE130-SP



MADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 N BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
 PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 OWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.
 ENGINEER FOR TEMPORARY AND PERMANENT
 ROOF SYSTEM.
 SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRS
 OR BETTER WITH ONE ROW OF 10D NAILS SPACED 6" O.C.
 T 4'-0" O.C.
 HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A
 SHOWN WITH 16D NAILS SPACED 6" O.C. HORIZONTAL
 E LOCATED AT THE MIDSPAN OF THE LONGEST STUD.
 VERTICAL STUDS WITH (4) 10D NAILS THROUGH 2x4.
 (SECTION A-A)
 D DEFLECTION MEETS OR EXCEEDS L/240.
 E FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR
 SES.
 NINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE
 SPIB/ALSC.
 GNATED 10d ARE (0.131" X 3") AND
 GNATED 16d ARE (0.131" X 3.5").

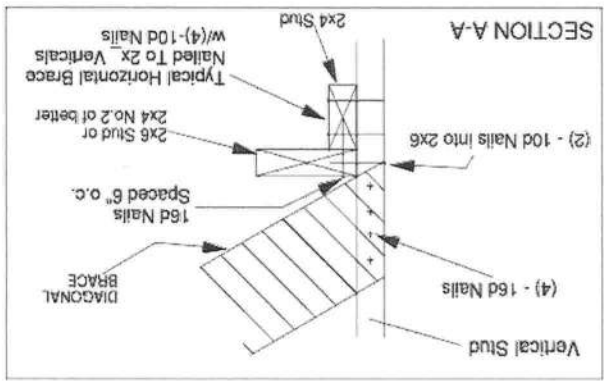


TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.



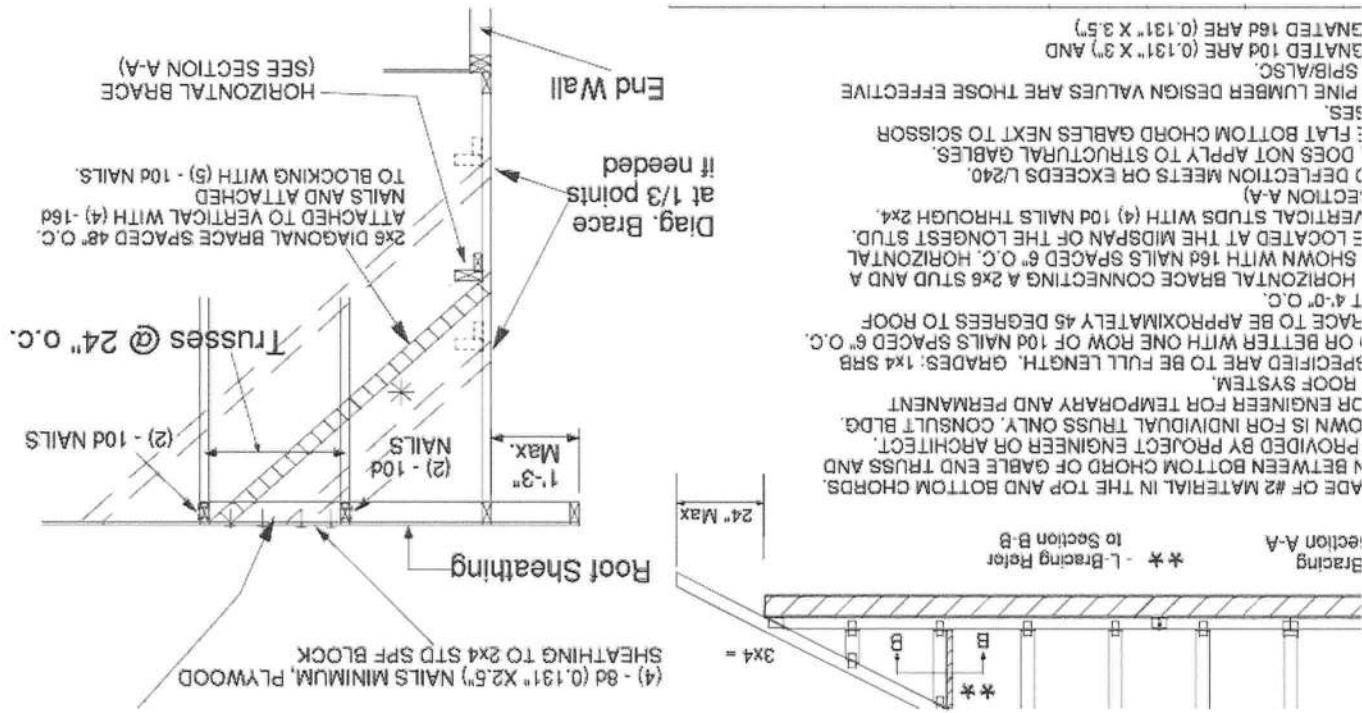
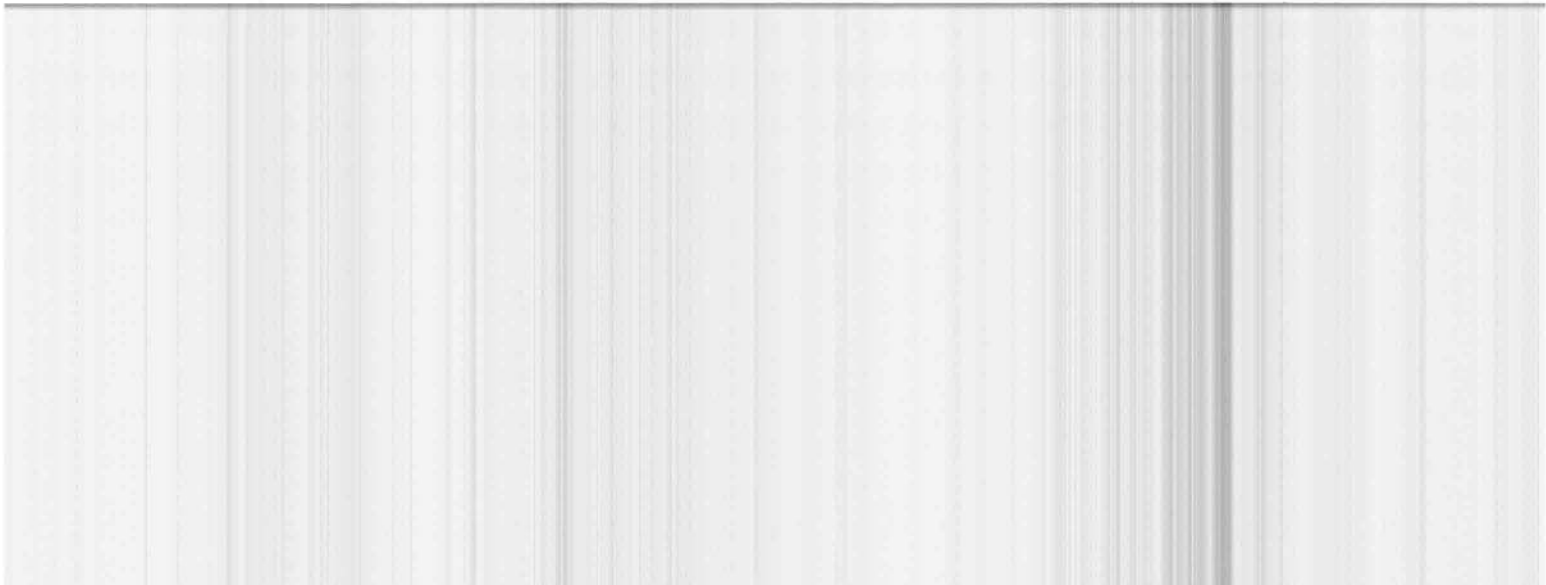
SEE INDIVIDUAL MITEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



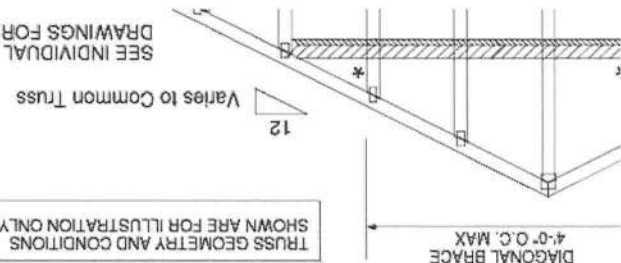
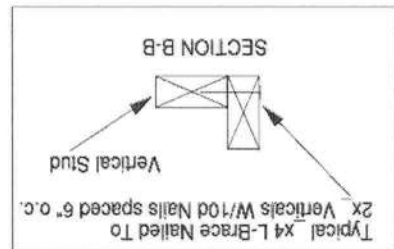
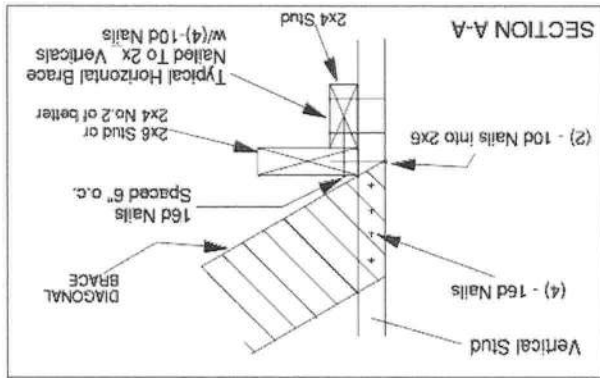
MITTEK USA, Inc. Page 1 of 2



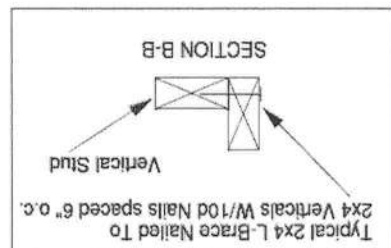


Y 6, 2017
Standard Gable End Detail
MII-GE140-001

Page 1 of 2
Mittek USA, Inc.



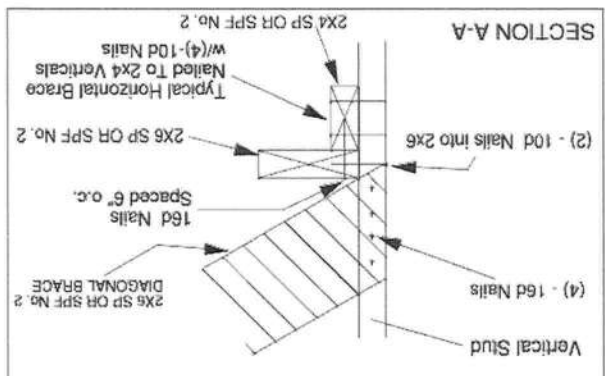
SEE INDIVIDUAL MITTEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA
(5) - 10d NAILS.
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

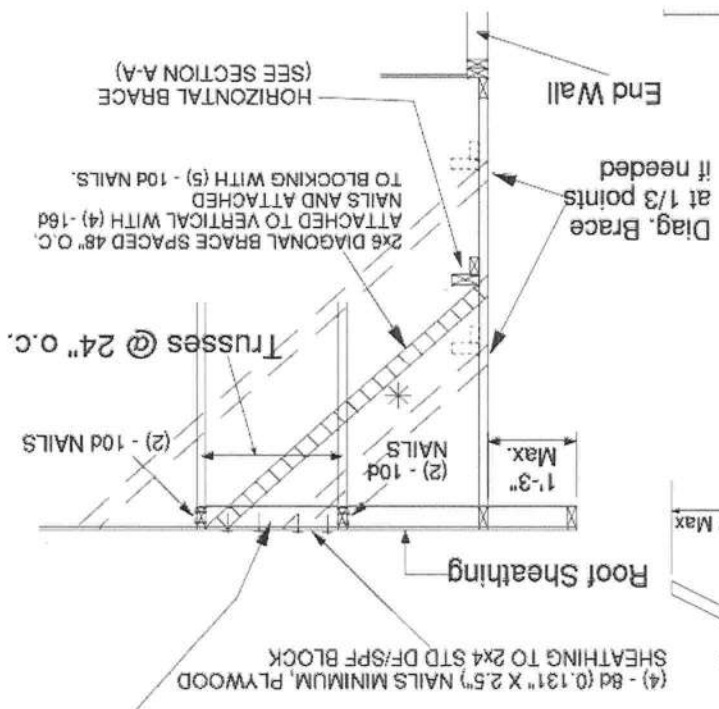
SEE INDIVIDUAL MEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



Page 1 of 2

Page 1 of 2



USE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS,
BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
PROVIDED BY PROJECT ENGINEER OR ARCHITECT,
OWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG.
ENGINEER FOR TEMPORARY AND PERMANENT
ROOF SYSTEM.
SPECIFIED ARE TO BE FULL LENGTH, GRADES: 1x4 S4B
OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
FACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
T 4'-0" O.C.
HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A
SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL
LOCATED AT THE MIDSPAN OF THE LONGEST STUD.
/VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4.
SECTION A-A)
() DEFLECTION MEETS OR EXCEEDS L/240.
DOES NOT APPLY TO STRUCTURAL GABLES.
FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR
JES.
ANATED 16d ARE (0.131" X 3") AND
ANATED 16d ARE (0.131" X 3.5")

* * - L-Bracing Ratio to Section B-B

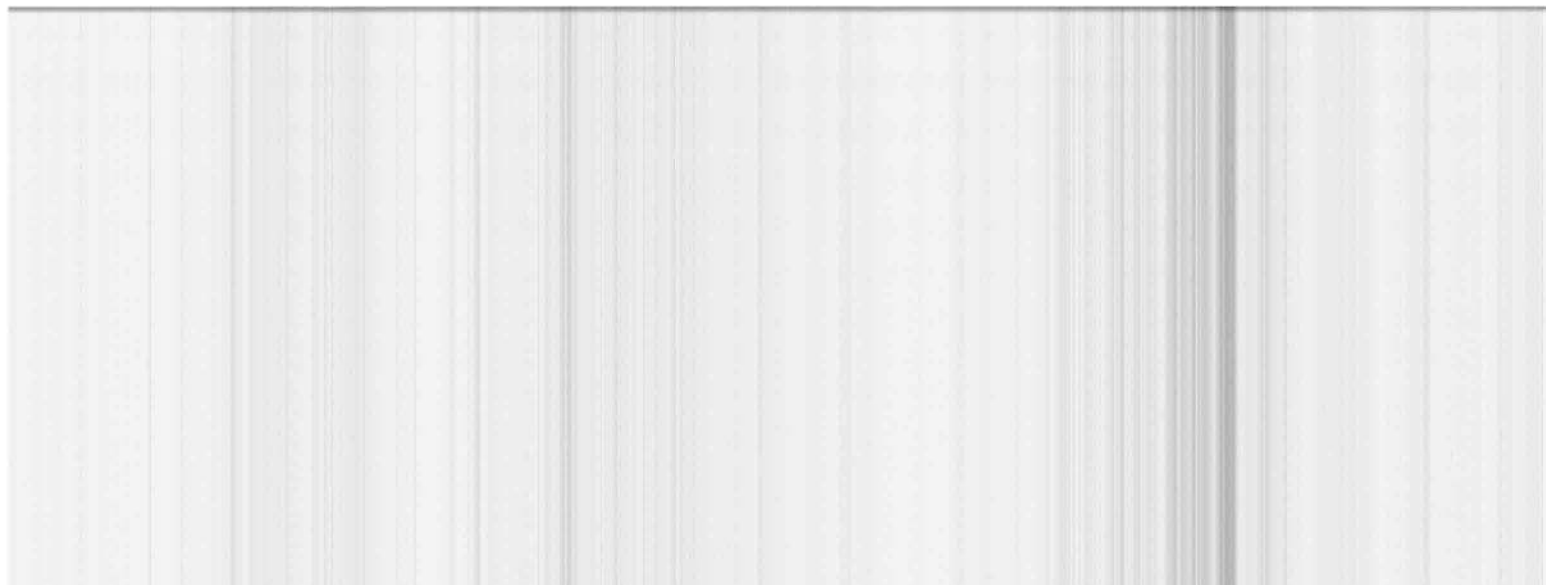
Bracing A-A

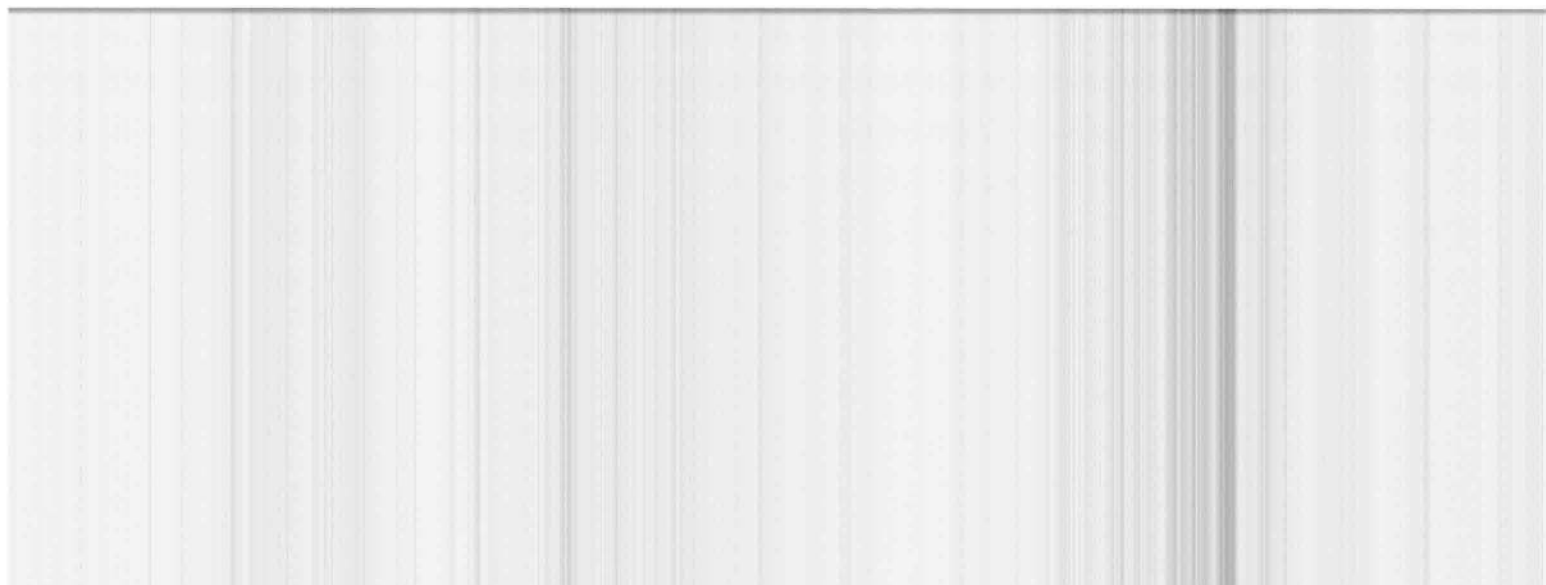
L-Bracing B-B to Section B-B

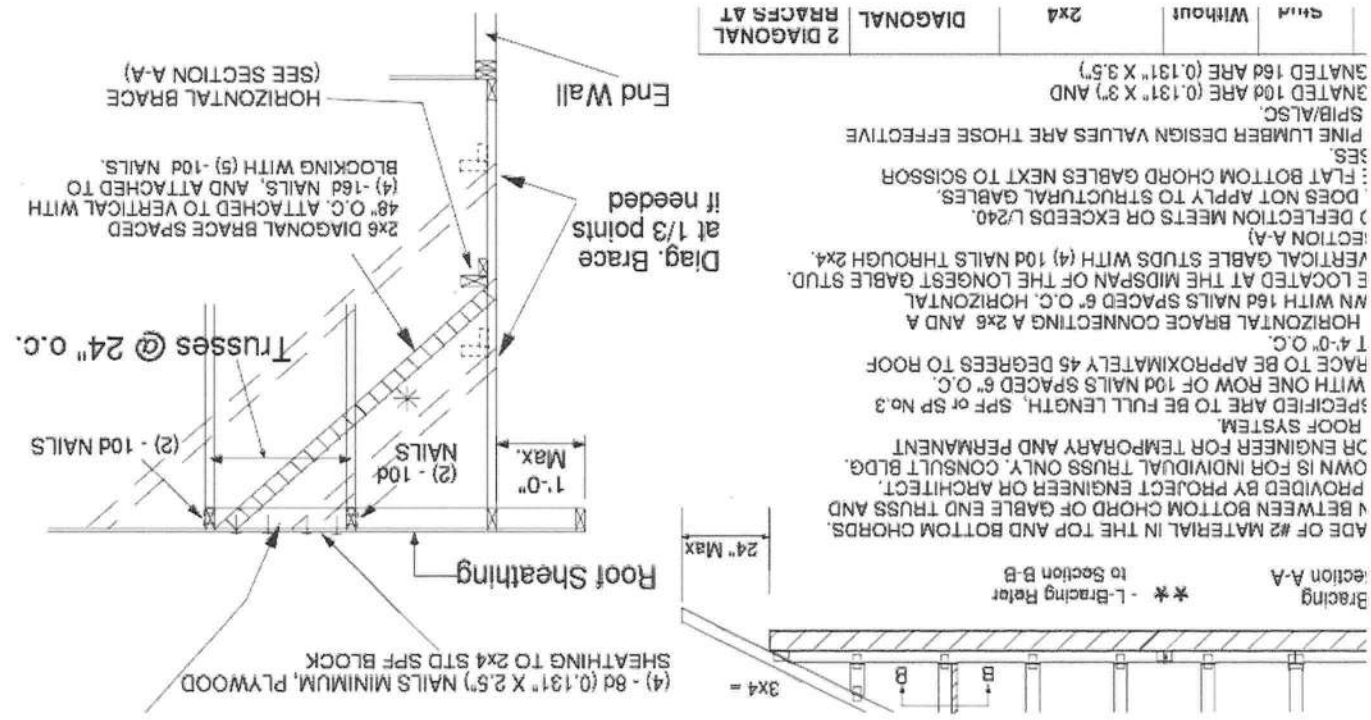
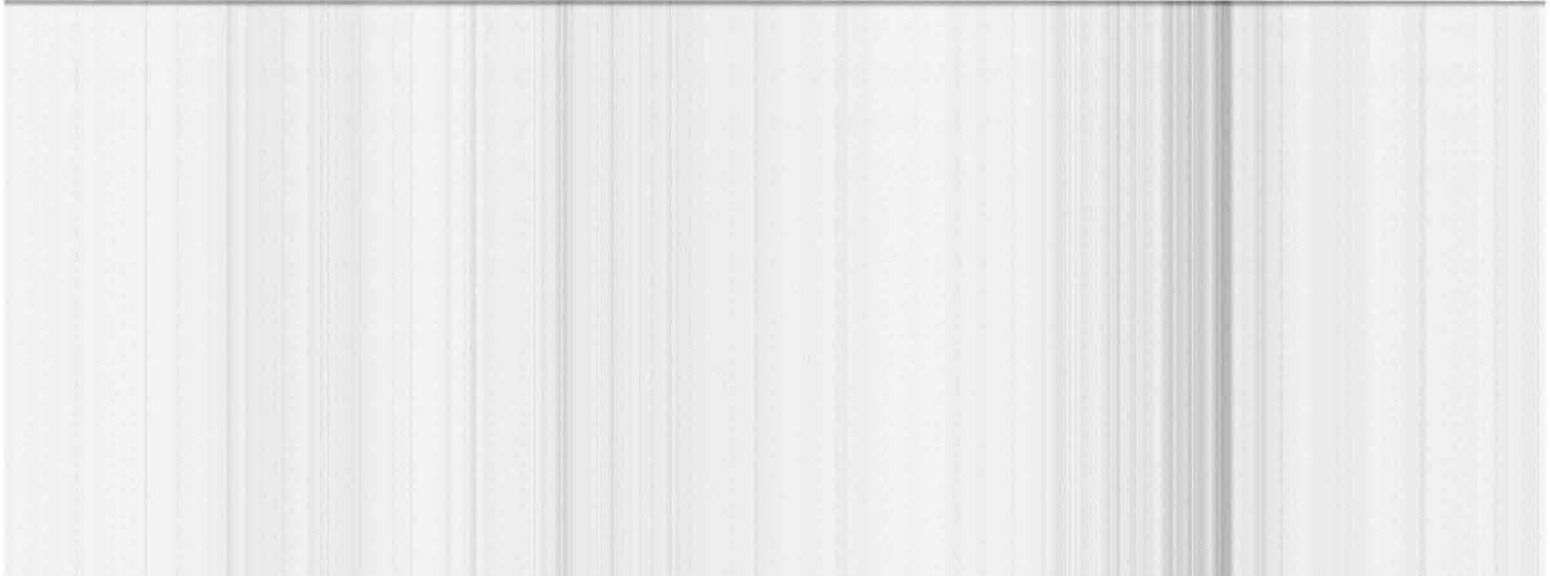
24" Max

3x4 = 3x4



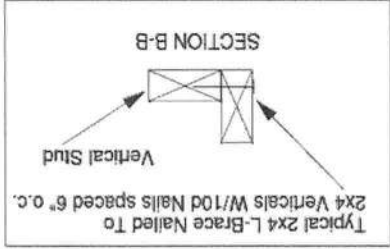
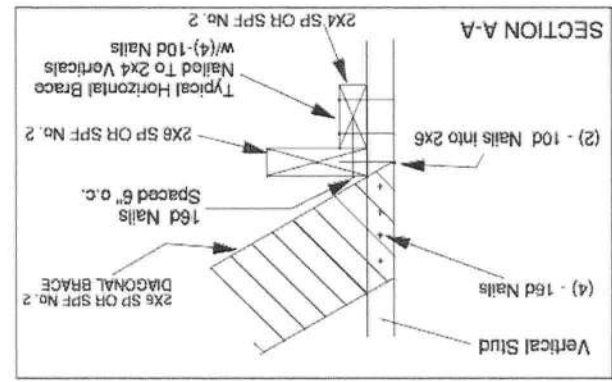






1, 2016 Standard Gable End Detail MII-GE180-D-SP

Page 1 of 2

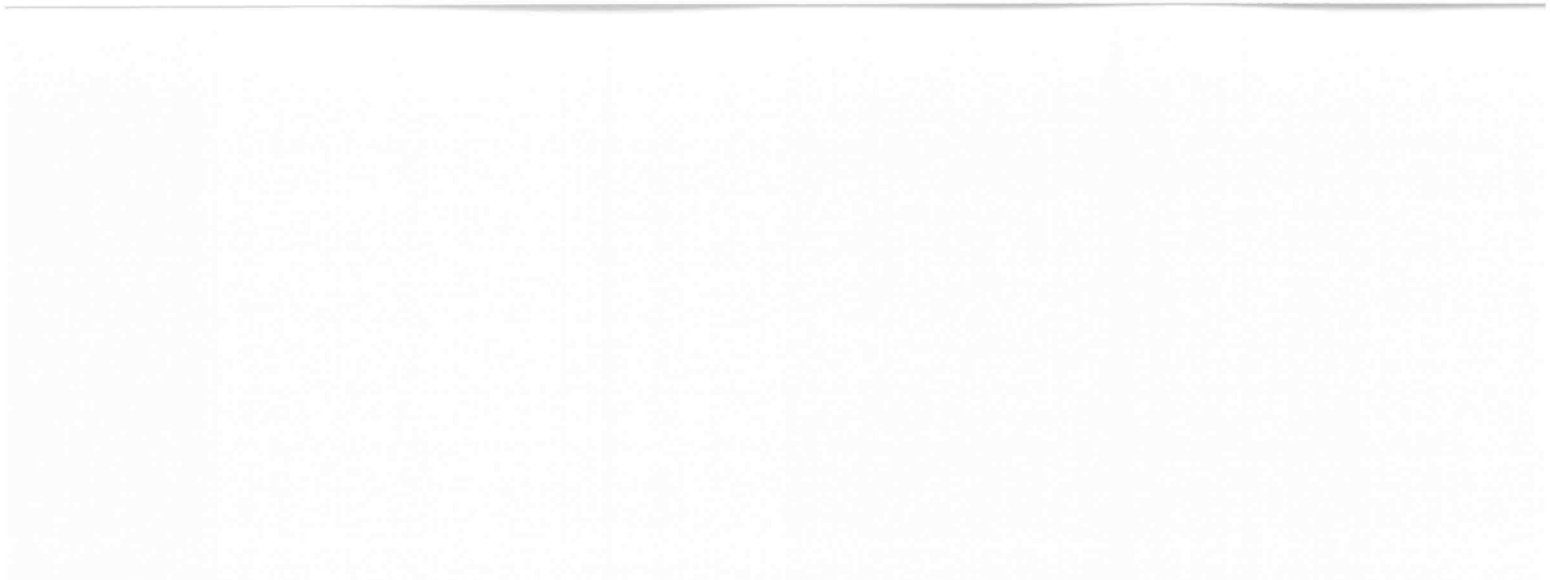


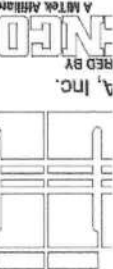
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

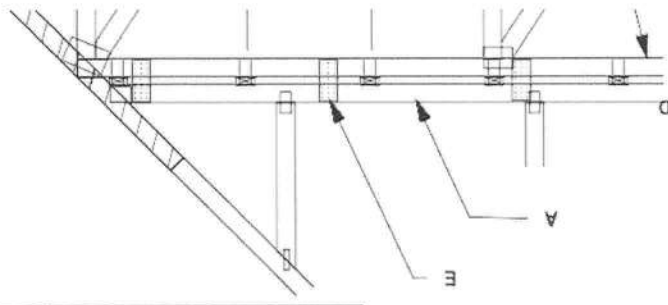
SEE INDIVIDUAL MITTEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.





TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
CONNECTED TO EACH PURLIN
.131" X 3.5" JOE-NAILED.
SS, REFER TO MITEK TRUSS DESIGN DRAWING.
AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
SPECIFIED CLOSER ON MITER TRUSS DESIGN DRAWING.
OF SCAB, SIZE TO MATCH TOP CHORD OF
K TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED
SECTION, WITH (2) ROWS OF (0.131" X 3.5") NAILS @ 4" O.C.
BE OMITTED PROVIDED THE TOP CHORD SHEATHING
US AND:
NEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR



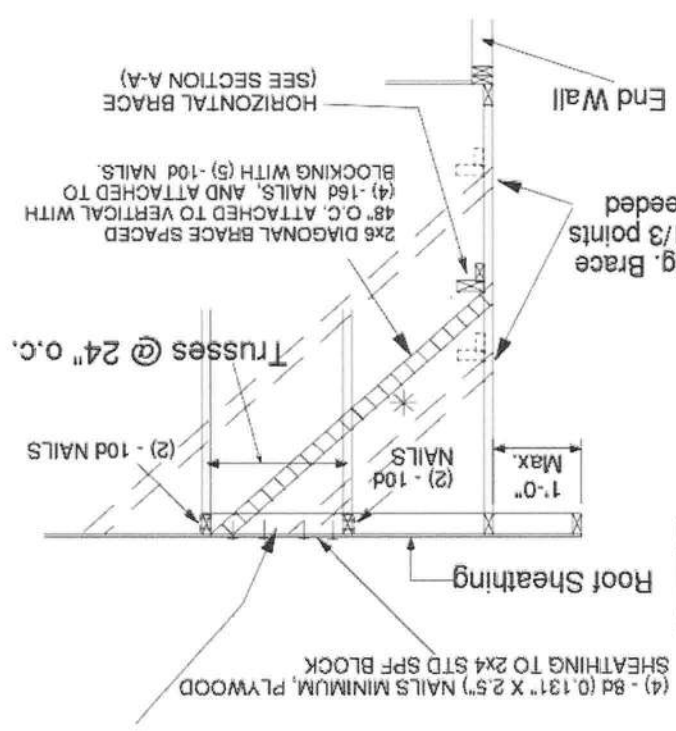
DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.
DURATION OF LOAD INCREASE : 1.60
ASCE 7-10
EXPOSURE B or C
CATEGORY II BUILDING
MAX TRUSS SPACING = 24" O.C.
MAX MEAN ROOF HEIGHT = 30 FEET
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E

Mitek USA, Inc. Page 1 of 1

MII-PIGGY-7-10

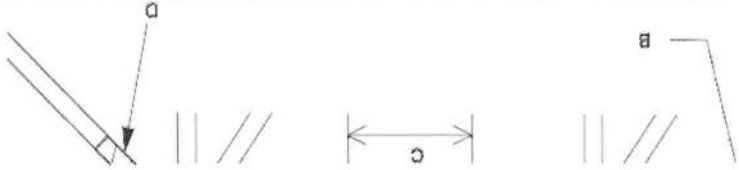
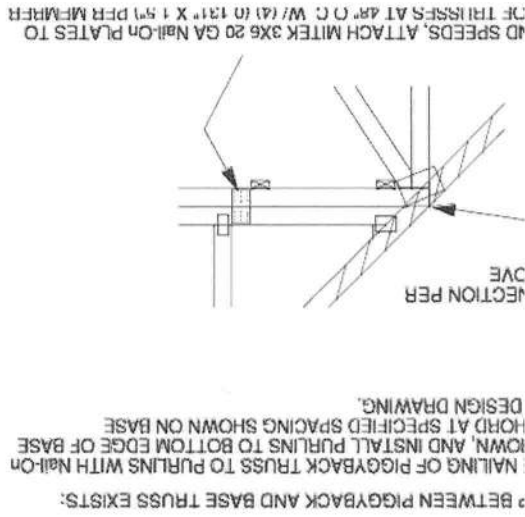
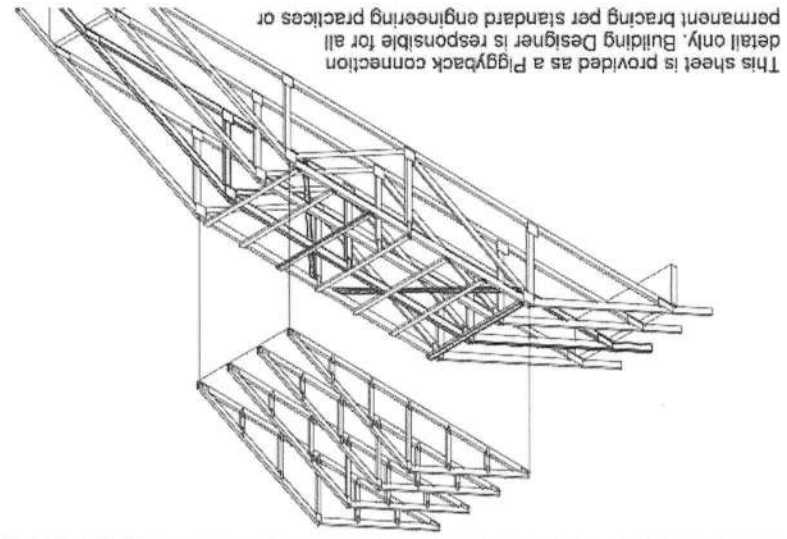
STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

1, 2016

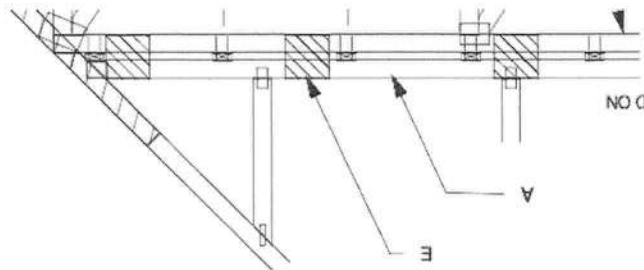




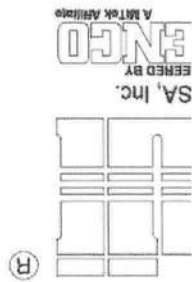
T 1, 2016	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	MIL-PIGGY-ALT 7-10
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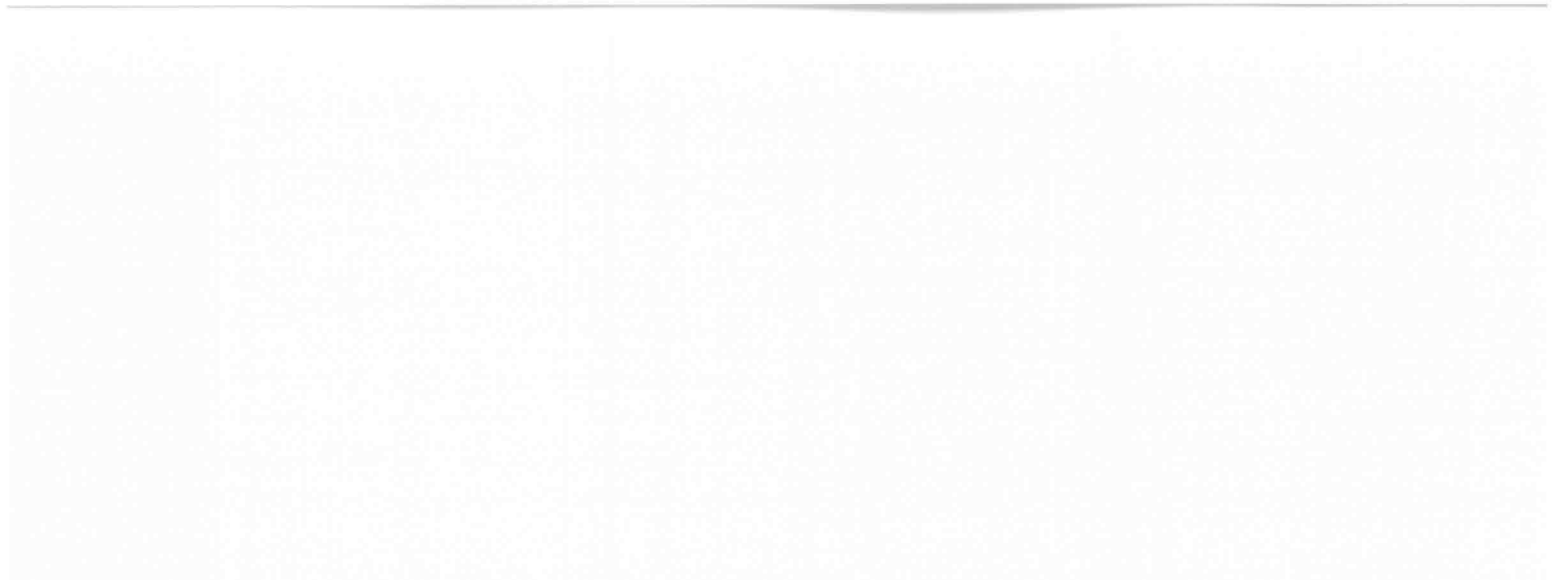


MITTEK USA, Inc. Page 1 of 1
 MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
 MAX MEAN ROOF HEIGHT = 30 FEET
 MAX TRUSS SPACING = 24" O.C.
 CATEGORY II BUILDING
 EXPOSURE B or C
 ASCE 7-10
 DURATION OF LOAD INCREASE: 1.60
 DETAIL IS NOT APPLICABLE FOR TRUSSES
 TRANSFERRING DRAG LOADS (SHEAR TRUSSES).
 ADDITIONAL CONSIDERATIONS BY BUILDING
 ENGINEER/DESIGNER ARE REQUIRED.



CK TRUSS, REFER TO MITTEK TRUSS DESIGN DRAWING.
 E CONNECTED TO EACH PURLIN
 0.131" X 3.57" TOE-NAILED.
 TRUSS, REFER TO MITTEK TRUSS DESIGN DRAWING.
 3 AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 SPECIFIED CLOSER ON MITTEK TRUSS DESIGN DRAWING.
 (1) TO BASE TRUSS WITH (2) (0.131" X 3.57") NAILS EACH.
 4.0" SCAB, SIZE TO MATCH TOP CHORD OF
 CK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
 ACTION, WITH (2) ROWS OF (0.131" X 3) NAILS @ 4" O.C.
 MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
 CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
 ENDS AND:
 SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM





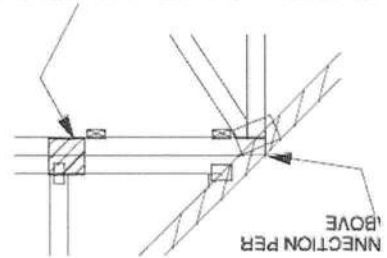
STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS
AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

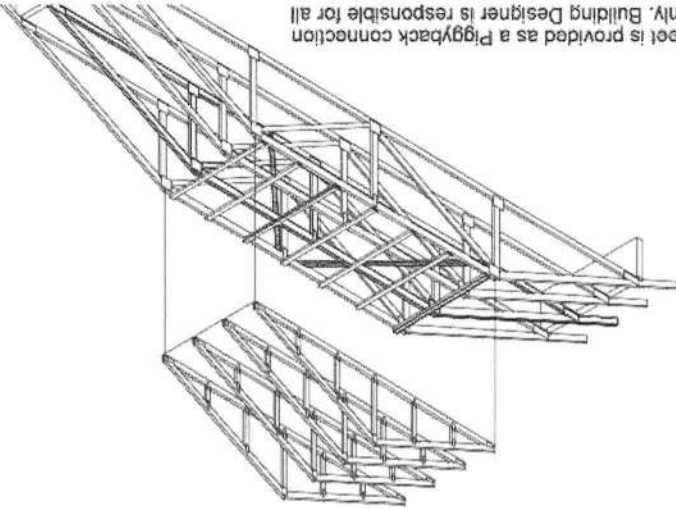
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *	2x4 2x6	INCHES X	MAXIMUM FORCE (lbs) 15% LOAD DURATION				SP	DF	SPF	HF	4347
			2x4	2x6	2x4	2x6					
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028	2608
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608	3187
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187	3767
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767	4347
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347	

* DIVIDE EQUALLY FRONT AND BACK
ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH
FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS
(TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN.
STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET D-2-0 O.C.

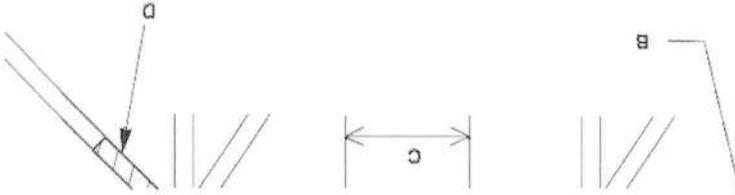
AP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:
CE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD
S SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE
CHORD AT SPECIFIED SPACING SHOWN ON BASE
DESIGN DRAWING.
CONNECTION PER
PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C.



This sheet is provided as a Piggyback connection
detail only. Building Designer is responsible for all



SPACING OF 16" ON CENTER (TOTAL - 12 NAILS)
0.113" X 2" NAILS INTO EACH CHORD FROM
SIDE AT 48" O.C. OR LESS, ATTACH WITH
"X 9" X 1/2" PLYWOOD (or 7/16" OSB) GUSSET
ID SPACED IN THE RANGE 128 MPH - 160 MPH
BACK SPAN OF 12 ft.
SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM





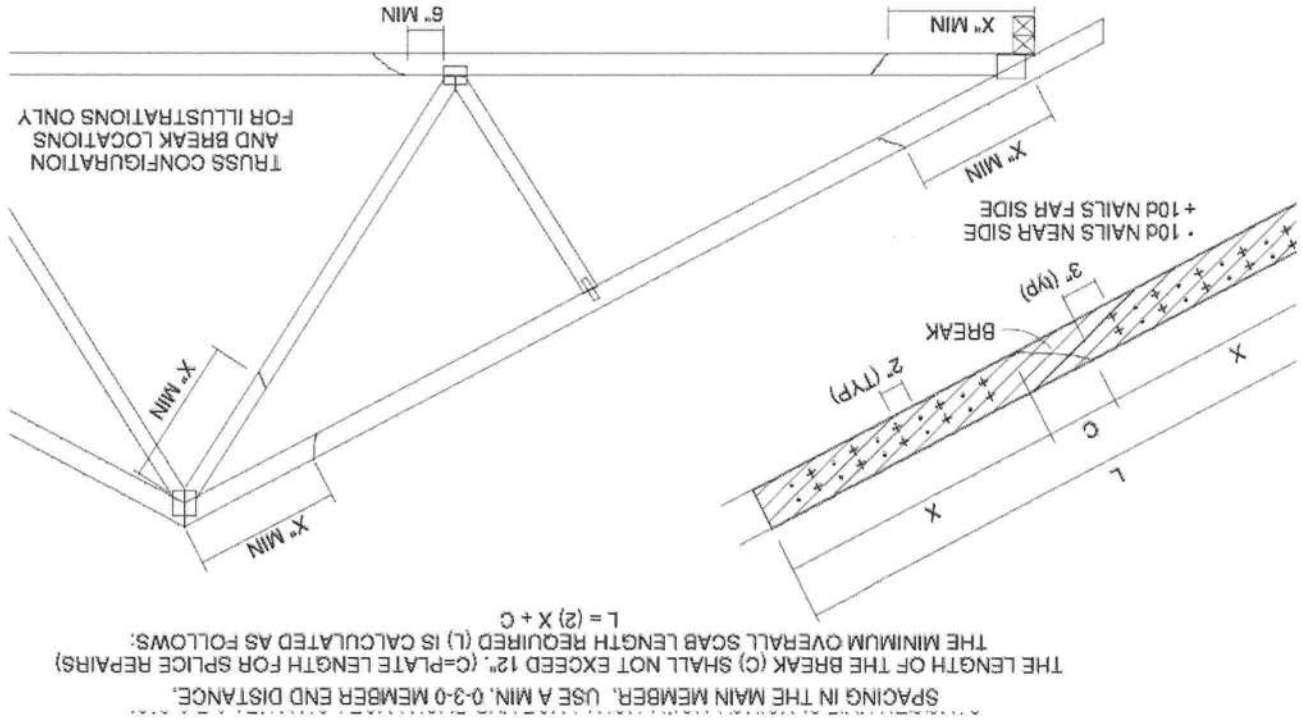
SP	DF	HF	SPF	SPF-S
88.0	80.6	69.9	68.4	59.7
93.5	85.6	74.2	72.6	63.4
108.8	99.6	86.4	84.5	73.8
74.2	67.0	60.0	57.2	50.2

SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

THIS DETAIL APPLICABLE TO THE
THREE END DETAILS SHOWN BELOW

- NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.)
 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

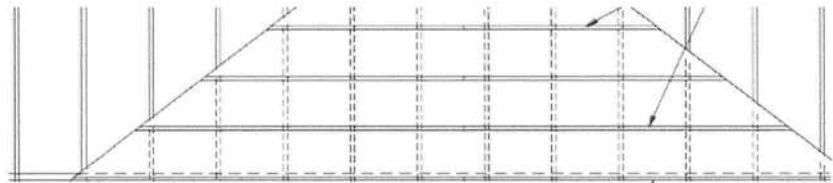
2016	LATERAL TOE-NAIL DETAIL	MII-TOENAIL_SP
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SIDE VIEW
(2x3)
2 NAILS

VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

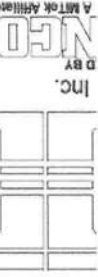




- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVALENT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 6. NAILING DONE PER NDS - 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

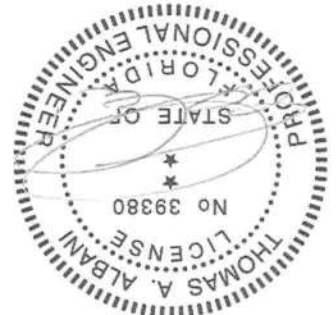
GENERAL SPECIFICATIONS

CABLE END, COMMON TRUSS OR GIRDER TRUSS



1, 2016	TRUSSED VALLEY SET DETAIL	MII-VALLEY HIGH WIND1
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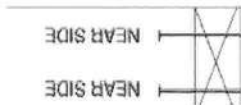
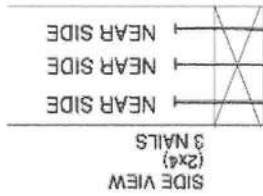
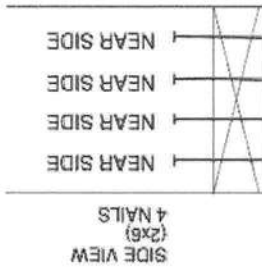
Thomas A. Albani PE No. 39380
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610



tion increase of 1.15:
2" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD
1.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

IN ARE CAPACITY PER TOE-NAIL.
URATION OF LOAD INCREASES MAY BE APPLIED.

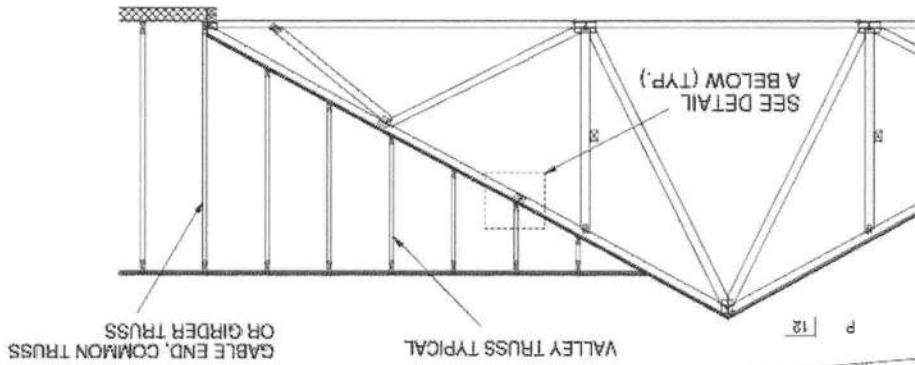
75.9	69.5	60.3	59.0	51.1
81.4	74.5	64.6	63.2	52.5





1, 2016	TRUSSED VALLEY SET DETAIL	MII-VALLEY HIGH WIND2
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WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C



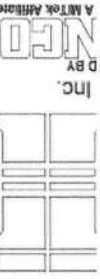
VALLEY TRUSS
ROW OF 10d
O.C.

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO 1/2" X 2" X 2" X 2"

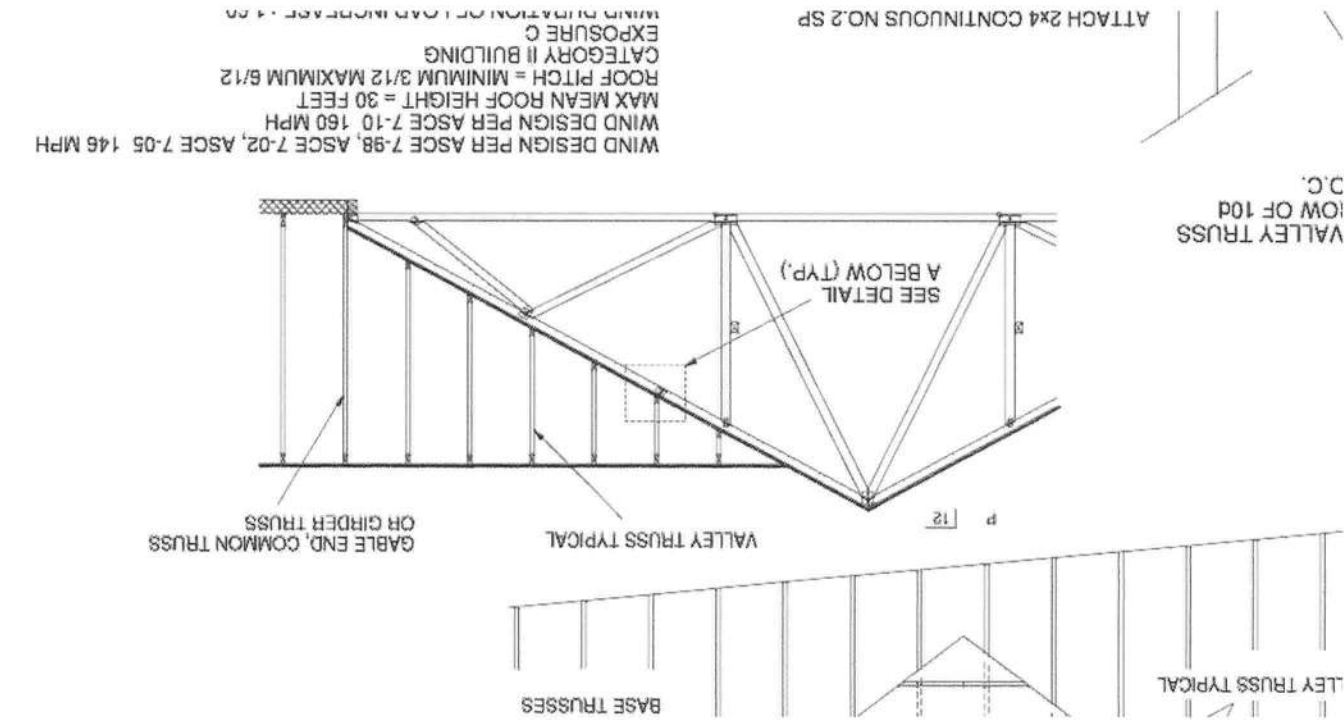
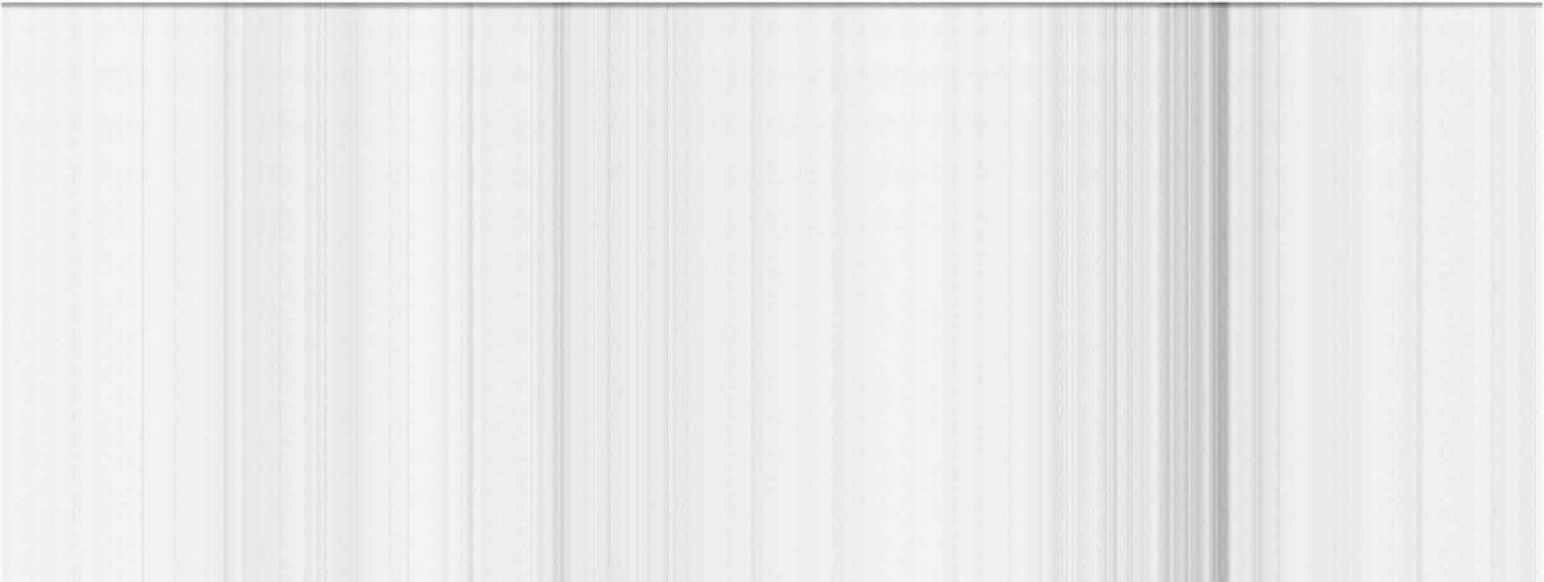
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVARIANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

GENERAL SPECIFICATIONS

CABLE END, COMMON TRUSS
OR GIRDER TRUSS

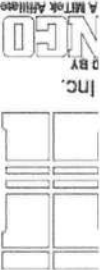


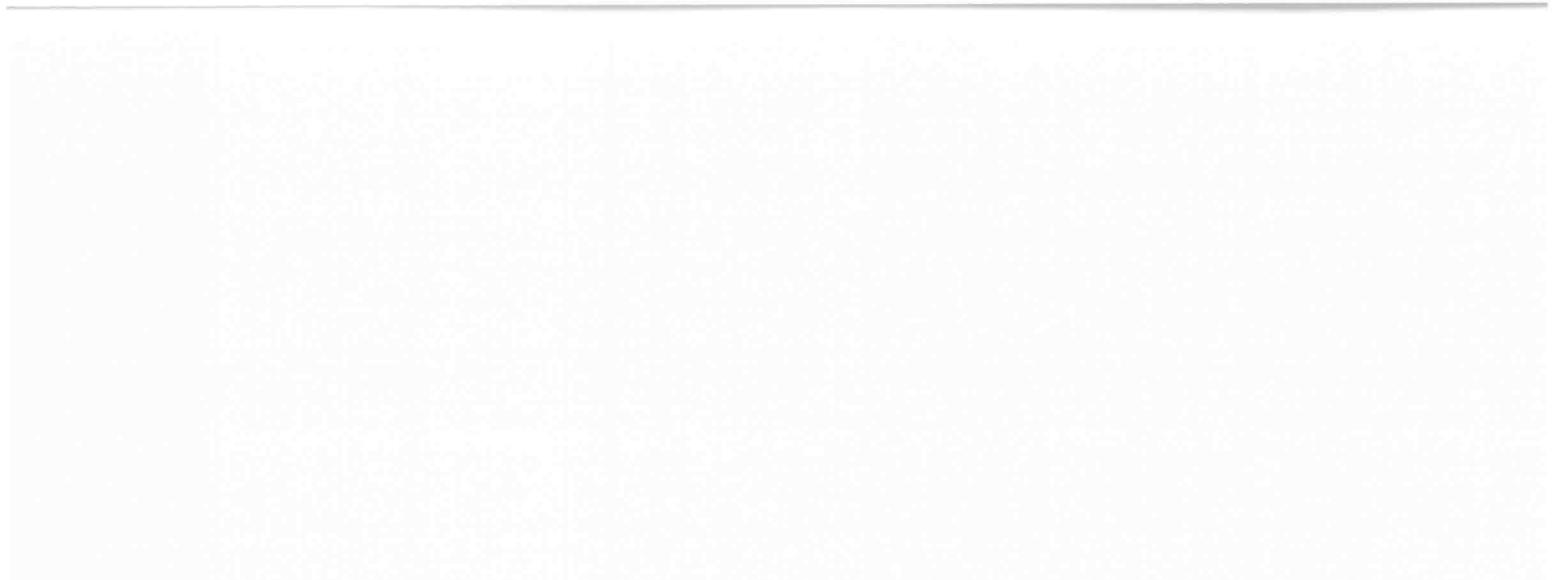




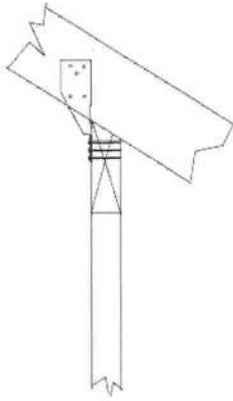
2016,	TRUSSED VALLEY SET DETAIL	MII-VALLEY SP
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- GENERAL SPECIFICATIONS
1. NAIL SIZE 16d (0.131" X 3.5")
 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVALENT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
 5. NAILING DONE PER NDS - 01
 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
 7. ALL LUMBER SPECIES TO BE SP.





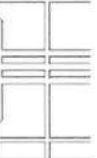
FOR BEVELED BOTTOM
CHORD, CLIP MAY BE
APPLIED TO EITHER FACE



Page 1 of 1 Mitak USA, Inc.

NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACING

INC.
BY
NGO
A Mitak Affiliate



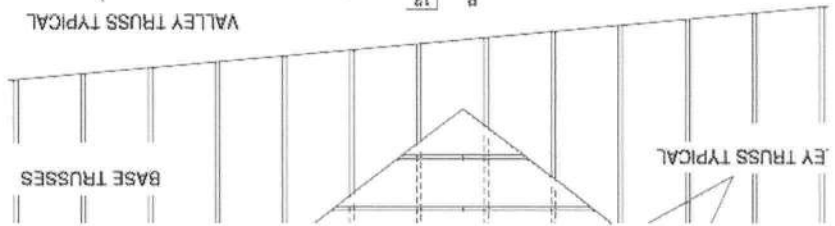
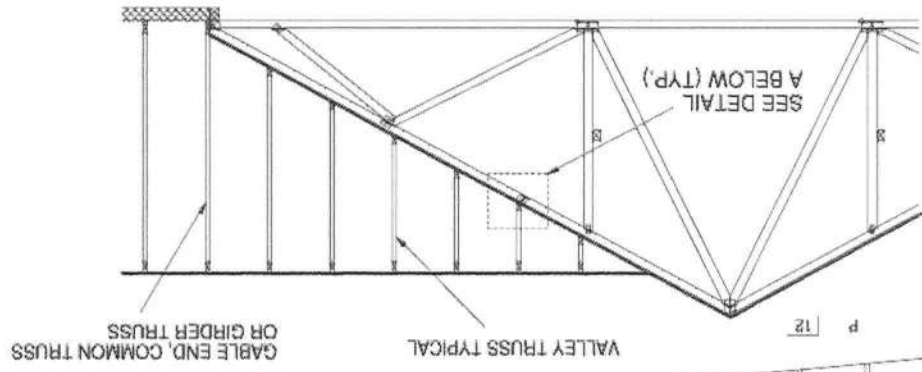
(R)

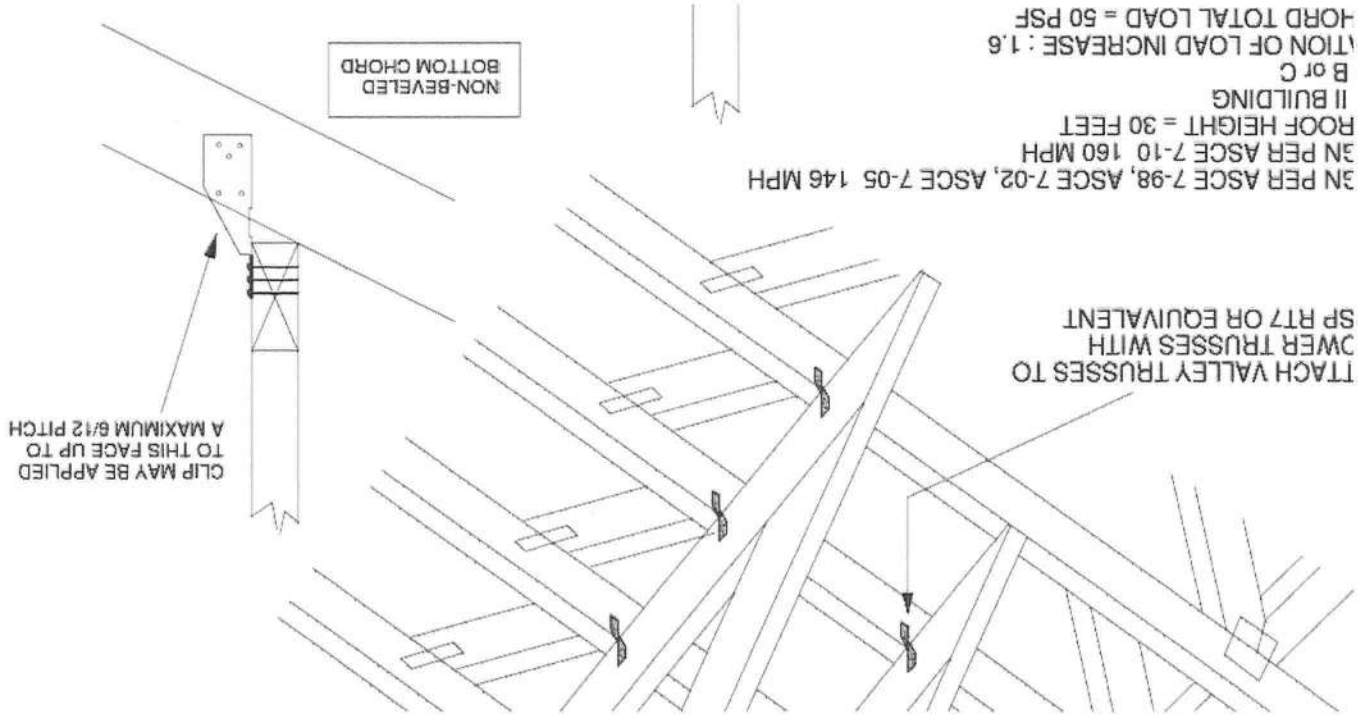
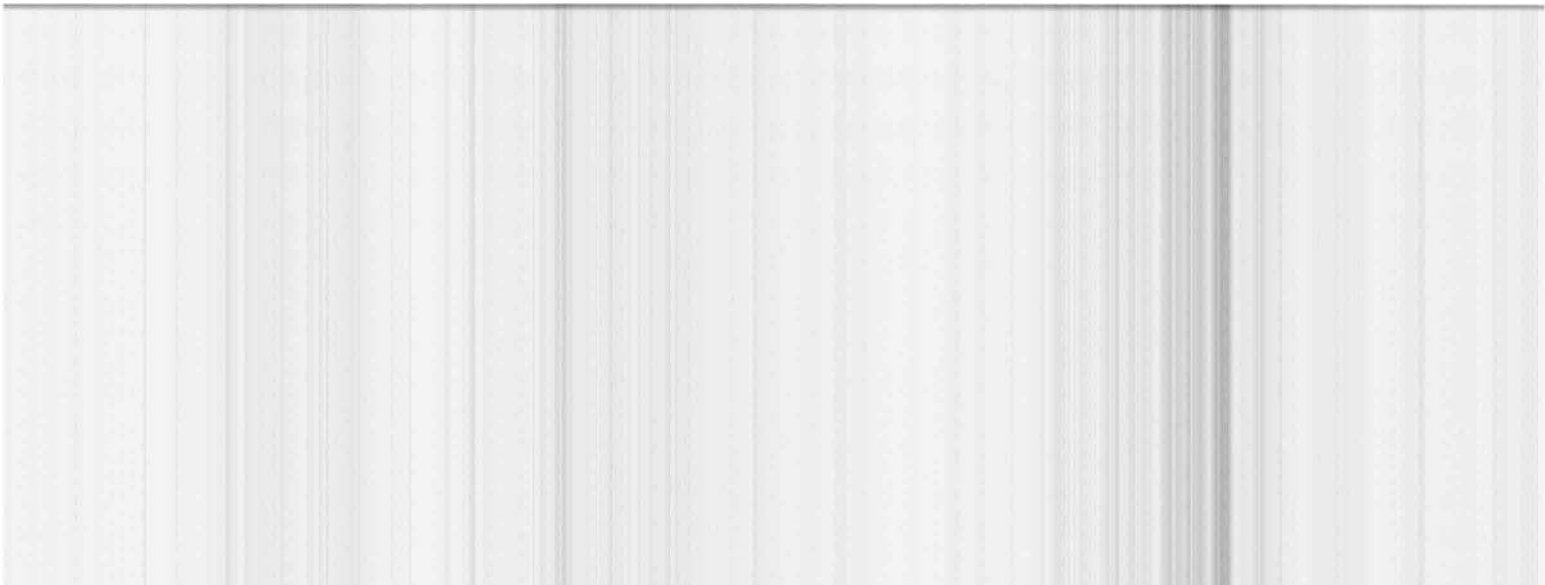
2016	TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)	MII-VALLEY
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WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING

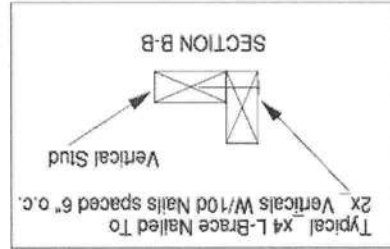
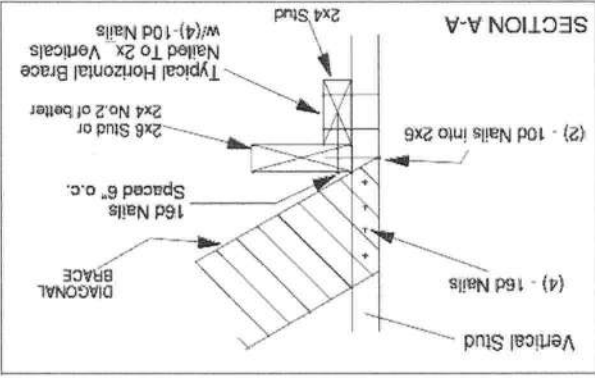
ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO 16d NAILS
INTO EACH BASE TRUSS

VALLEY TRUSS
ROW OF 16d
O.C.



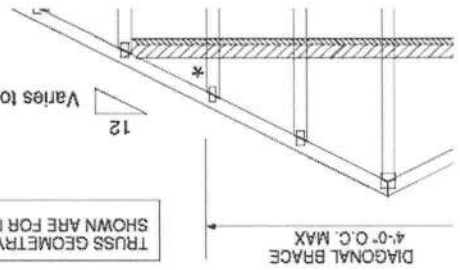


2016	Standard Gable End Detail	MII-GE146-001
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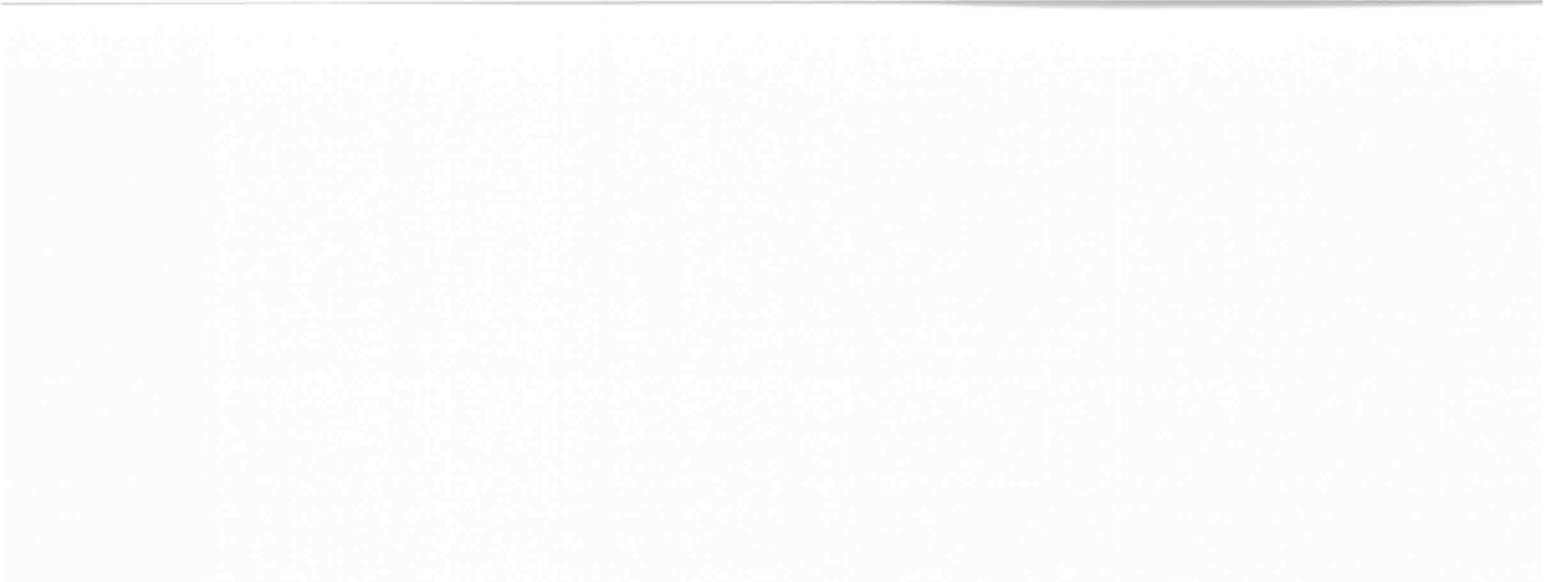
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

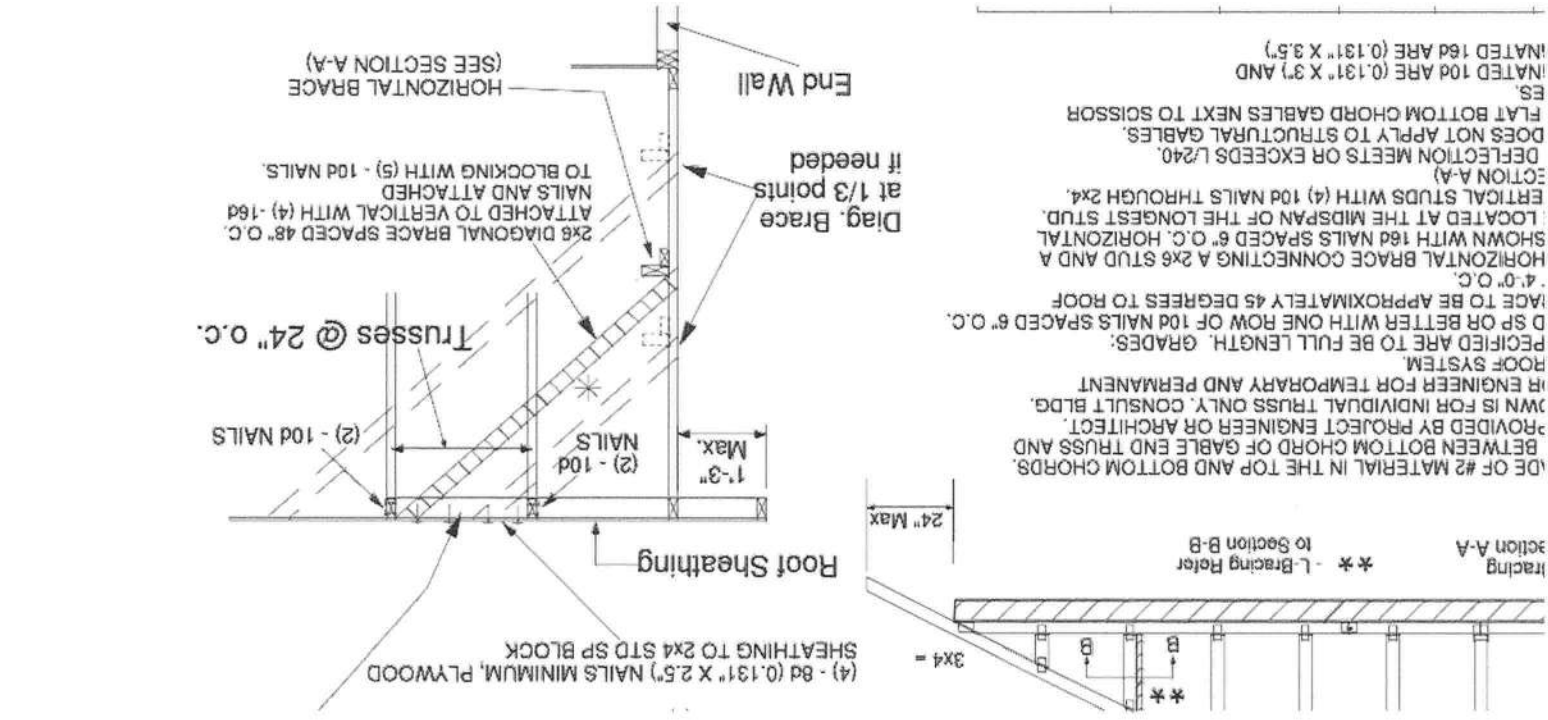
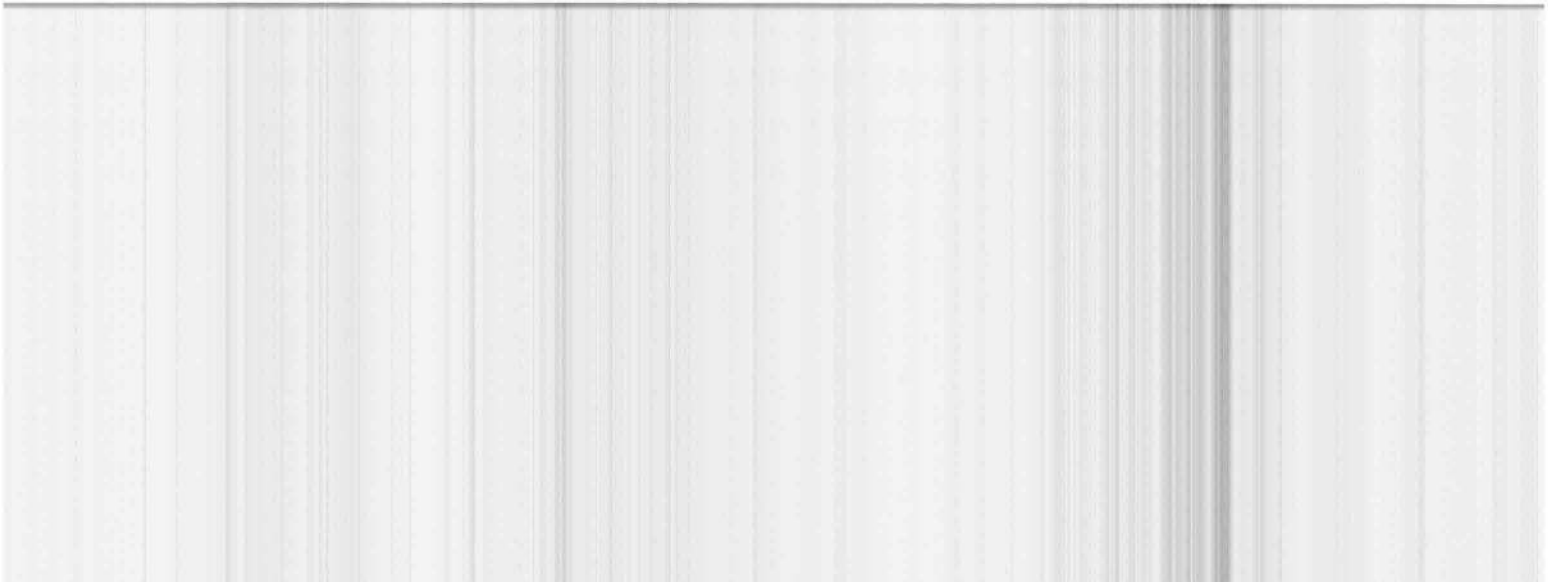
Varies to Common Truss



SEE INDIVIDUAL MITREK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.





REPLACE BROKEN OVERHANG

35, 2016

MIL-REP13B

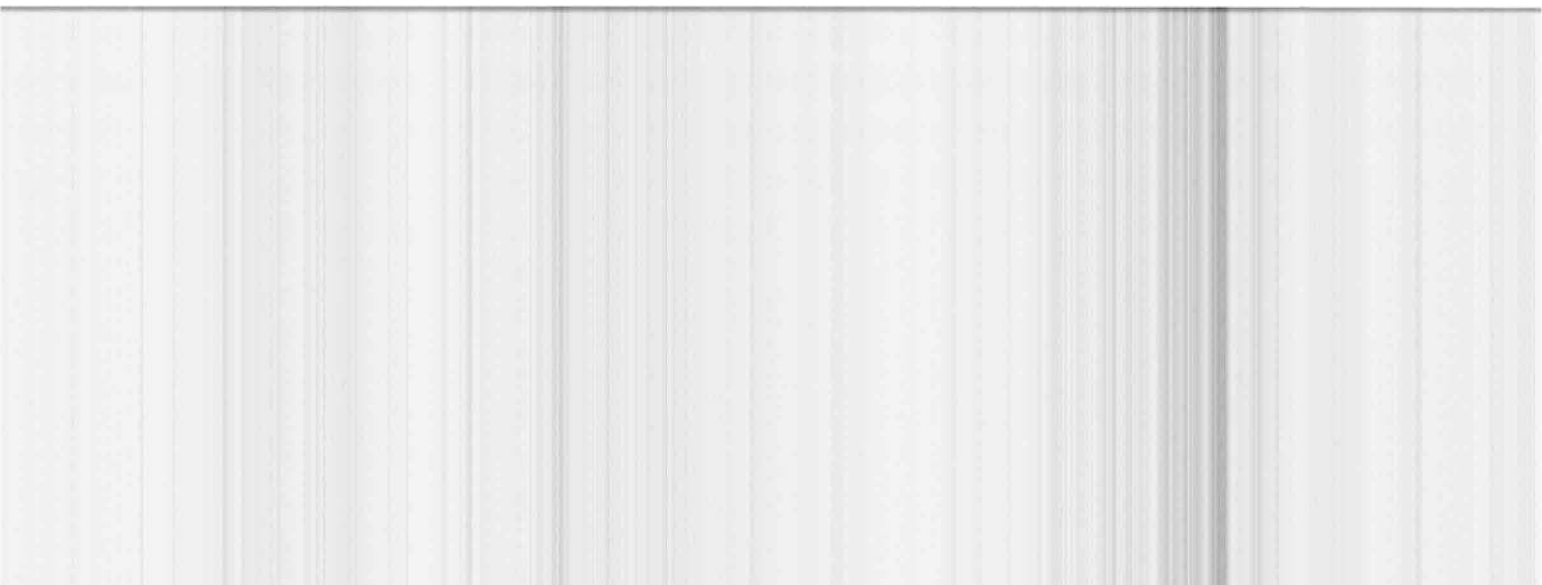
Page 1 of 1

MITtek USA, Inc.

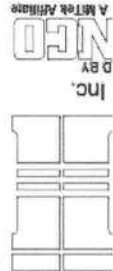
TRUSS CRITERIA:
LOADING: 40-10-0-10
DURATION FACTOR: 1.15
SPACING: 24" O.C.
TOP CHORD: 2x4 OR 2x6
PITCH: 4/12 - 12/12
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL
END BEARING CONDITION

ATTACH 2x SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.





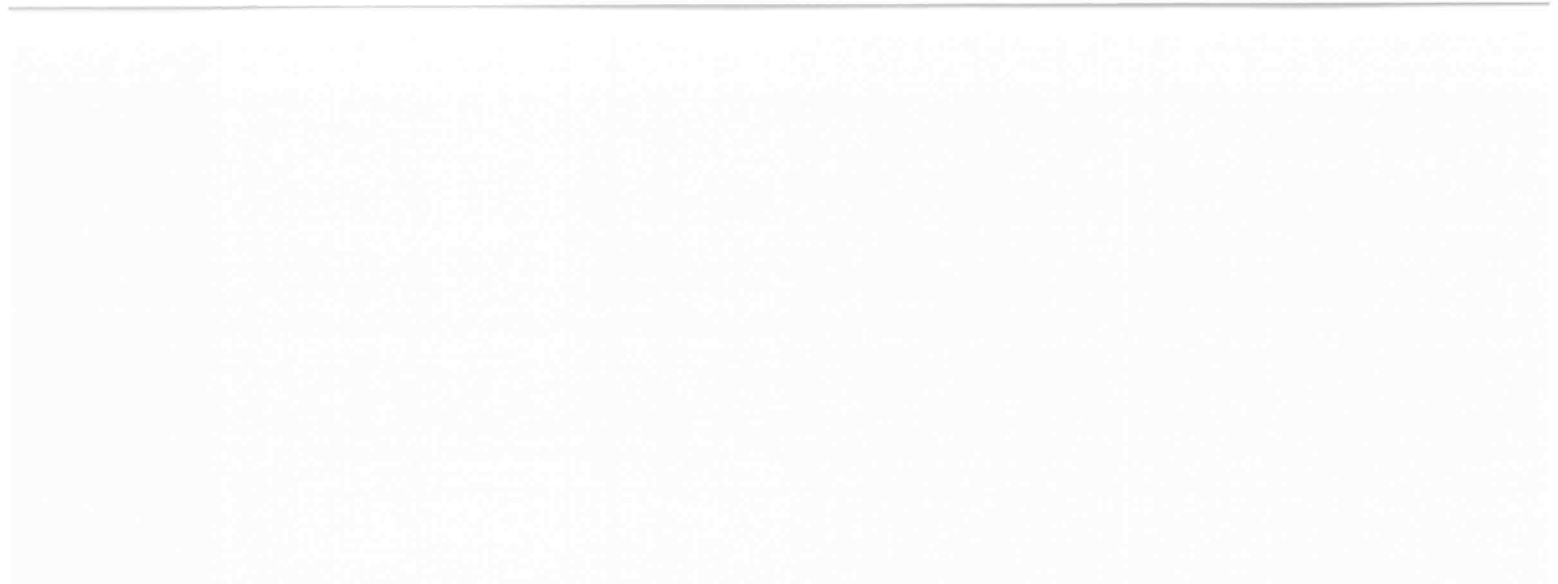
1, 2016	LATERAL BRACING RECOMMENDATIONS	MIL-STRGBCK
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TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

2x6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW. STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.

- METAL FRAMING OR TO ATTACH TO CHORD
- ATTACH TO VERTICAL WEB WITH (3) - 10d (0.131" X 3") NAILS
- ATTACH TO VERTICAL SCAB WITH (3) - 10d (0.131" X 3") NAILS
- INSERT WOOD SCREW THROUGH OUTSIDE FACE OF CHORD INTO EDGE OF STRONGBACK (DO NOT USE DRYWALL TYPE SCREWS)





Thomas A. Albani PE No. 39380
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 12, 2018

TERMINATE METHOD OF SPlicing:
/ERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d
(131" X 3") NAILS STAGGERED AND EQUALLY SPACED.
C BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL

