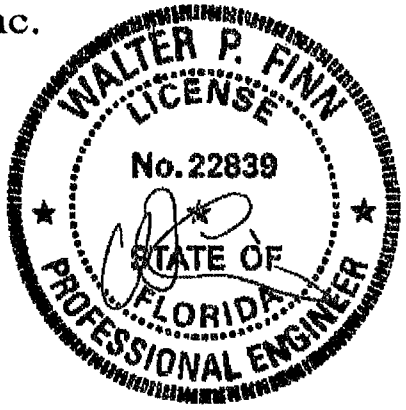
31826

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1V6R215-Z0128153224



Truss Fabricator	W.B. Howland
Job Identification	8657-/GASPARRINI RESIDENCE /OWNER BUILDER -- , FL
Truss Count	9
Model Code.	Florida Building Code 2010
Truss Criteria	FBC2010Res/TPI-2007(STD)
Engineering Software.	Alpine Software,Versions 12.03, 13.02.
Structural Engineer of Record	The identity of the structural EOR did not exist as of
Address	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads	Roof - N/A
	Floor - 55.0 PSF @ 1.00 Duration
	Wind - No Wind

05/28/2014

Notes

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Walter P Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: STRBRIBR-

#	Ref	Description	Drawing#	Date
1	36993	F1	14148124	05/28/14
2	36994	F2	14148125	05/28/14
3	36995	F3	14148126	05/28/14
4	36996	F4	14148127	05/28/14
5	36997	F5	14148128	05/28/14
6	36998	F6	14148129	05/28/14
7	36999	F7	14148130	05/28/14
8	37000	F8	14148132	05/28/14
9	37001	F9	14148131	05/28/14

(8657 /GASPARRINI RESIDENCE /OWNER BUILDER , FL F2)

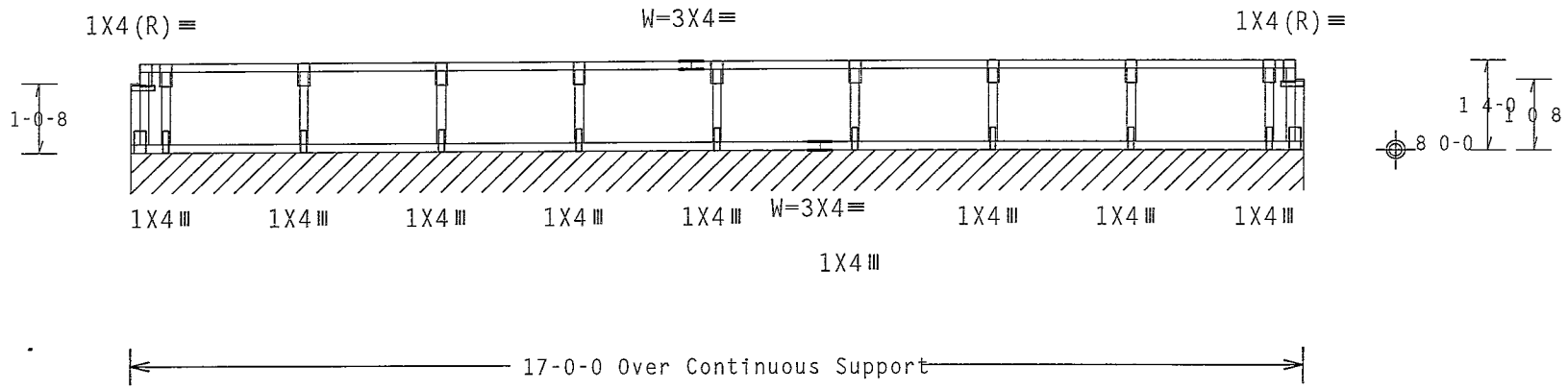
Top chord 4x2 SP M-31
Bot chord 4x2 SP M-31
Webs 4x2 SP M-31

The overall height of this truss excluding overhang is 1 4 0

Deflection meets L/360 live and L/240 total load Creep increase factor for dead load is 1 50.

Truss must be installed as shown with top chord up

Fasten rated sheathing to one face of this frame



R=109 PLF W=17-0 0

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=12%(0%)/10(0) 12.03.03 4 QTY:1 FL/-/1/-/-/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating handling shipping installing and bracing Refer to and follow the latest edition of BCSI (Building Component Safety Information by TPI and WTCA) for safety practices prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation bracing of trusses Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise Refer to drawings 160A Z for standard plate positions A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more information see This job s general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

WALTER F. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/28/2014

TC LL	40.0 PSF	REF	R215-- 36994
TC DL	10.0 PSF	DATE	05/28/14
BC DL	5.0 PSF	DRW	HCUSR215 14148125
BC LL	0.0 PSF	HC-ENG	SSB/WPF
TOT.LD.	55.0 PSF	SEQN-	392232
DUR.FAC.	1.00	FROM	CDM
SPACING	24.0"	JREF-	1V6R215_Z01

(8657 /GASPARRINI RESIDENCE /OWNER BUILDER , FL F4)

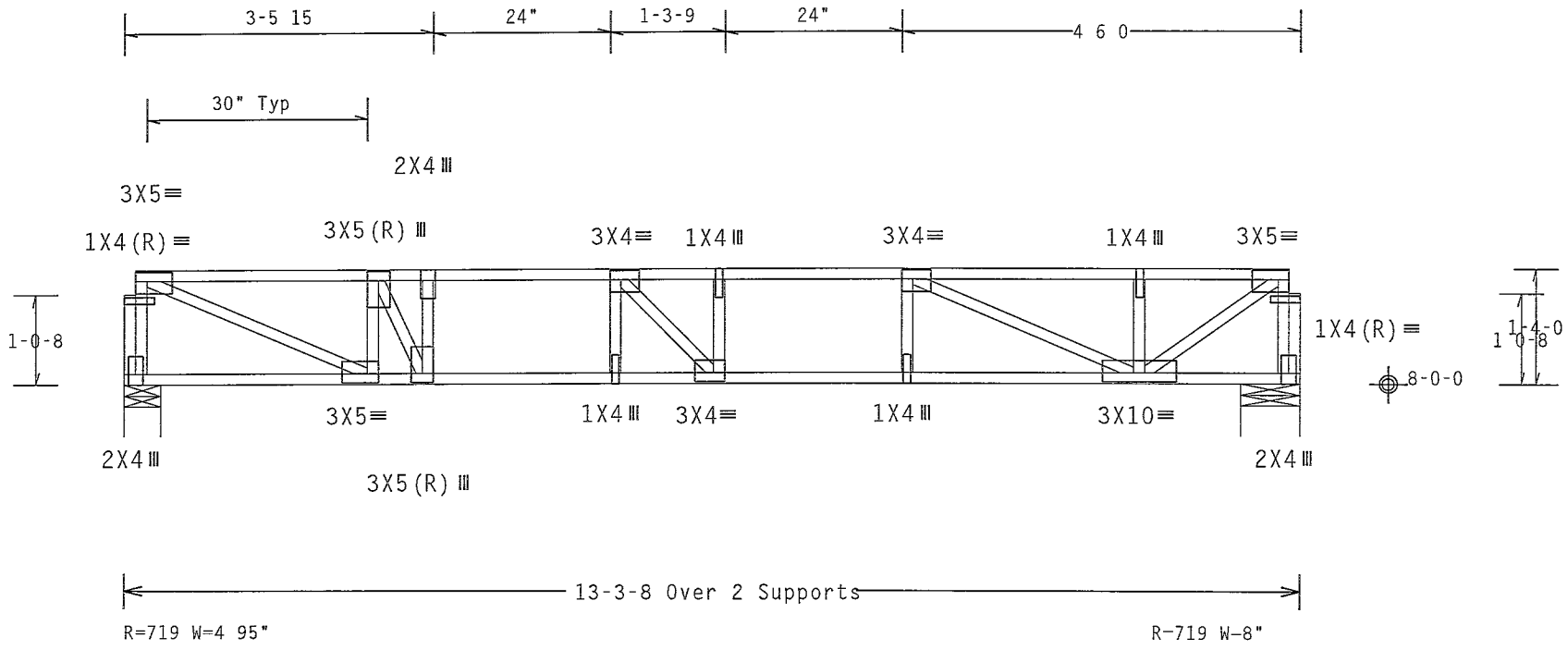
Top chord 4x2 SP M-31
Bot chord 4x2 SP M-31
Webs 4x2 SP M-31

Truss must be installed as shown with top chord up

See detail STRBRIBR0211 for bracing and bridging recommendations

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1 50.

The overall height of this truss excluding overhang is 1-4-0



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=12%(0%)/10(0) 13.02.05 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

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Orlando FL, 32837
FL COA #0 278

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05/28/2014

TC LL	40.0 PSF	REF	R215-- 36996
TC DL	10.0 PSF	DATE	05/28/14
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BC LL	0.0 PSF		HC-ENG SSB/WPF
TOT.LD.	55.0 PSF	SEQN-	233807
DUR.FAC.	1.00	FROM	CDM
SPACING	24.0"	JREF-	1V6R215_Z01

(8657 */GASPARRINI RESIDENCE /OWNER BUILDER , FL F6)

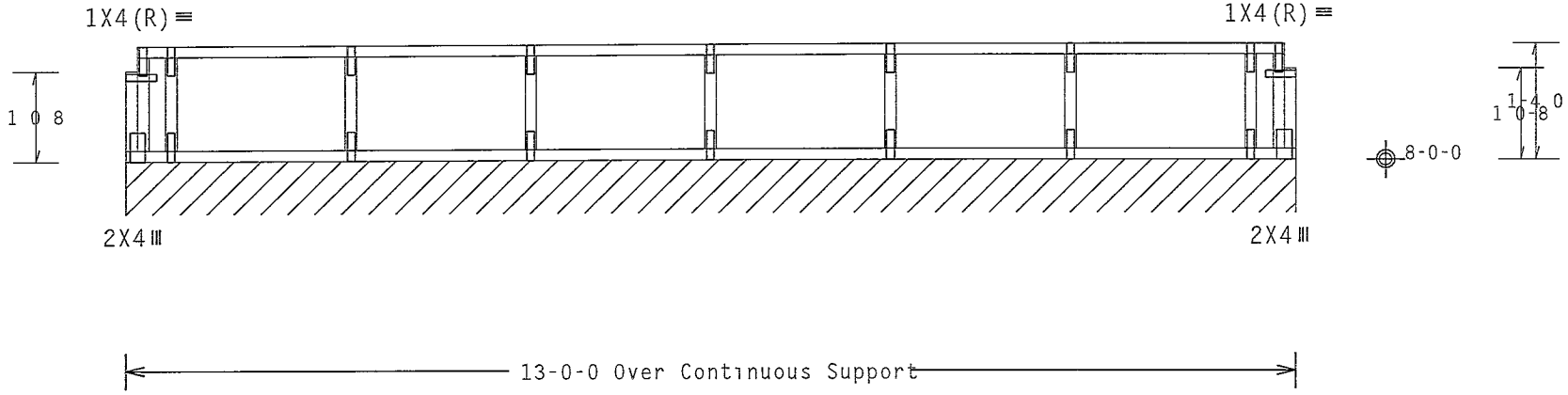
Top chord 4x2 SP M-31
Bot chord 4x2 SP M-31
Webs 4x2 SP M-31

The overall height of this truss excluding overhang is 1-4-0

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1 50

Truss must be installed as shown with top chord up.

Fasten rated sheathing to one face of this frame



R=108 PLF W=13-0-0

Note: All Plates Are 1X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=12%(0%)/10(0) 12.03.03 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

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Orlando FL, 32837
FL COA #0 278

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WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

05/28/2014

TC LL	40.0 PSF	REF	R215-- 36998
TC DL	10.0 PSF	DATE	05/28/14
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BC LL	0.0 PSF	HC-ENG	SSB/WPF
TOT.LD.	55.0 PSF	SEQN-	392221
DUR.FAC.	1.00	FROM	CDM
SPACING	24.0"	JREF-	1V6R215_Z01

(8657 c/GASPARRINI RESIDENCE /OWNER BUILDER , FL F8)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Special loads
-----(Lumber Dur Fac.=1.00 / Plate Dur Fac =1 00)
TC- From 150 plf at 0 00 to 150 plf at 6.58
TC- From 150 plf at 6 58 to 150 plf at 19 58
BC- From 5 plf at 0 00 to 5 plf at 13 15
BC- From 5 plf at 13 15 to 5 plf at 19 58
TC- 174 17 lb Conc Load at 2 15, 4.15, 6 15, 8 15
9 44,11 44,13 44,15 44,17 44

Truss must be installed as shown with top chord up

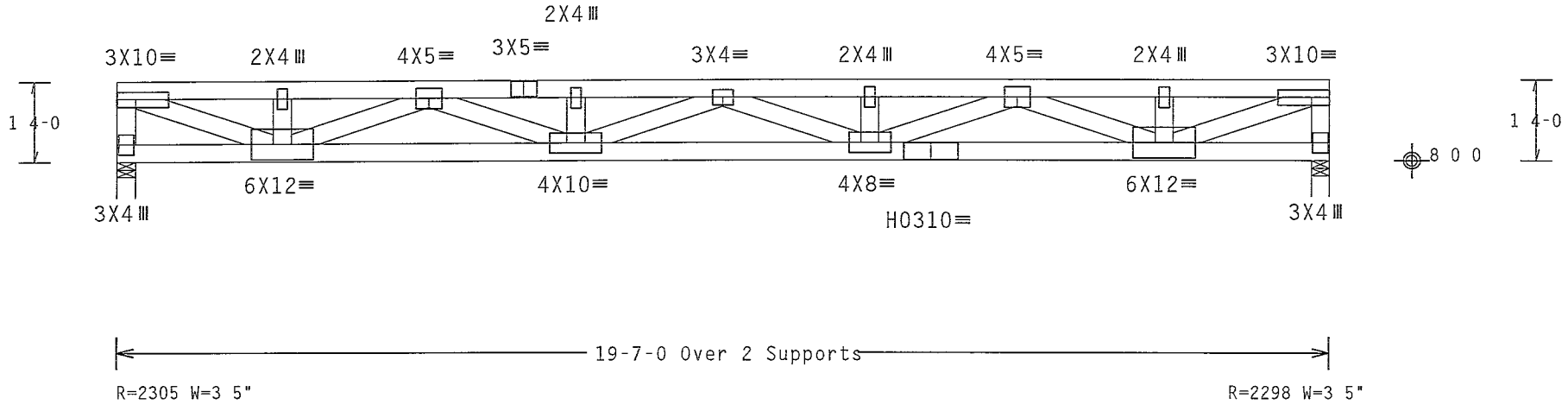
The overall height of this truss excluding overhang is 1-4-0

2 COMPLETE TRUSSES REQUIRED

Nail Schedule 0 131"x3", min. nails
Top Chord: 1 Row @ 8 25" o.c.
Bot Chord: 1 Row @12 00" o c
Webs : 1 Row @ 4" o c
Use equal spacing between rows and stagger nails
in each row to avoid splitting

Bottom chord checked for 10 00 psf non concurrent live load.

Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 1 50



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.05 QTY:2 FL/-/1/-/-/R/- Scale =.375"/Ft.

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Orlando FL, 32837
FL COA #0 278

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05/28/2014

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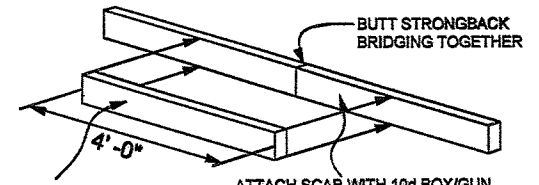
BC LL	0.0 PSF	HC-ENG	SSB/WPF
TOT.LD.	55.0 PSF	SEQN-	234767
DUR.FAC.	1.00	FROM	CDM
SPACING	24.0"	JREF-	1V6R215_Z01

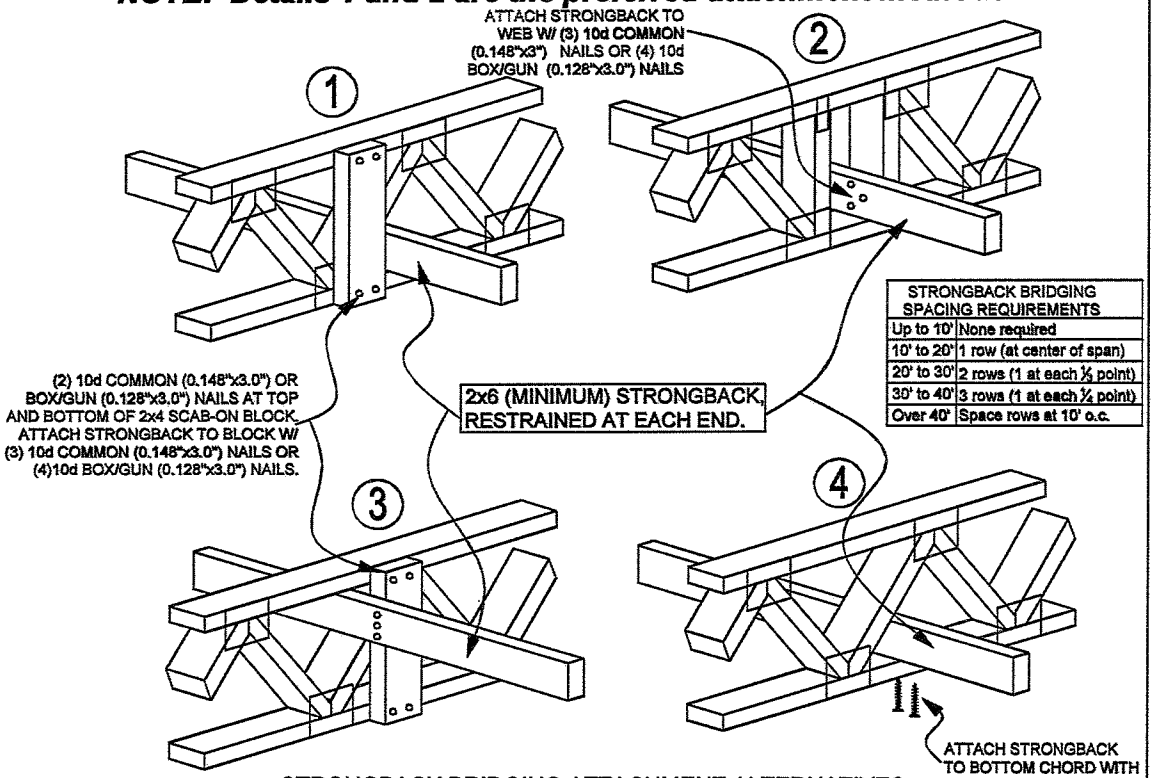
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each ⅓ point)
30' to 40'	3 rows (1 at each ¼ point)
Over 40'	Space rows at 10' o.c.

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by ITW Building Compents Group Inc.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ITW Building Components Group Inc.

Earth City MO 63045

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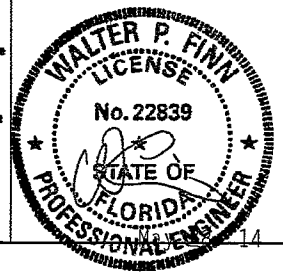
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 20/18/16GA (W,H/S/K) ASTM A653 grade 37/40/80 (K/W/H,S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details.
A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
ITW-BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	2/28/11
BC DL	PSF	DRWG	STRBRIBR0211
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			