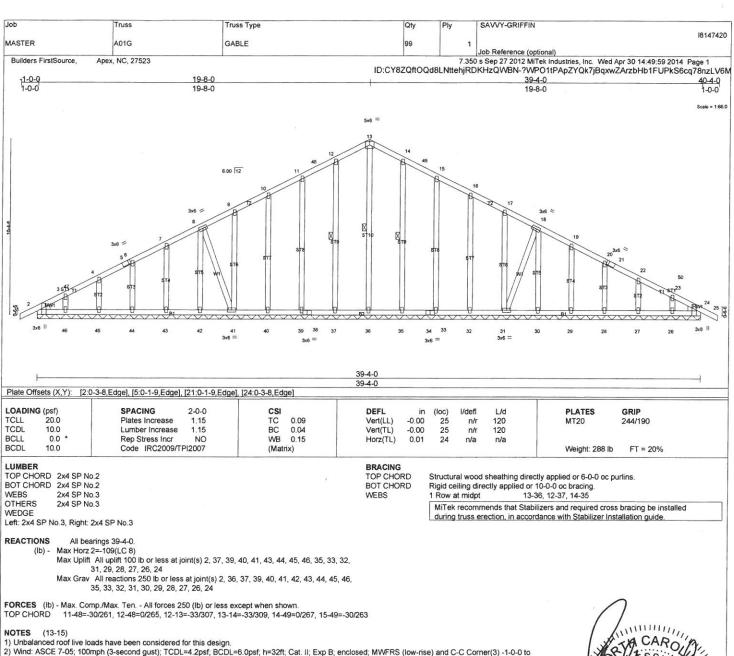


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available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



2-0-0, Exterior(2) 2-0-0 to 19-8-0, Comer(3) 19-8-0 to 22-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as

applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 oc.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 37, 39, 40, 41, 43, 44, 45, 46, 35, 33 , 32, 31, 29, 28, 27, 26, 24.

10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1

12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

13) If Southern Pine (SP) lumber is specified, the design values are those effective 06/01/2013 by ALSC or proposed by SPIB.

14) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

15) This truss design conforms with NC State residential code 2012 and ANSI/TPI 1-2007 based on the parameters shown.

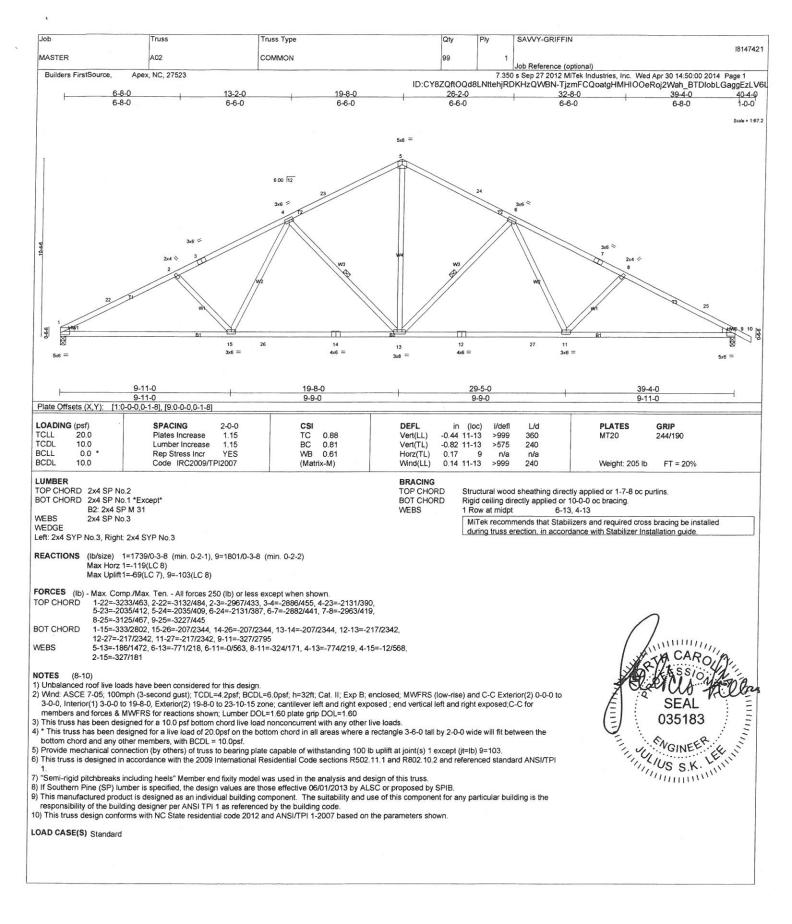
LOAD CASE(S) Standard



April 30,20

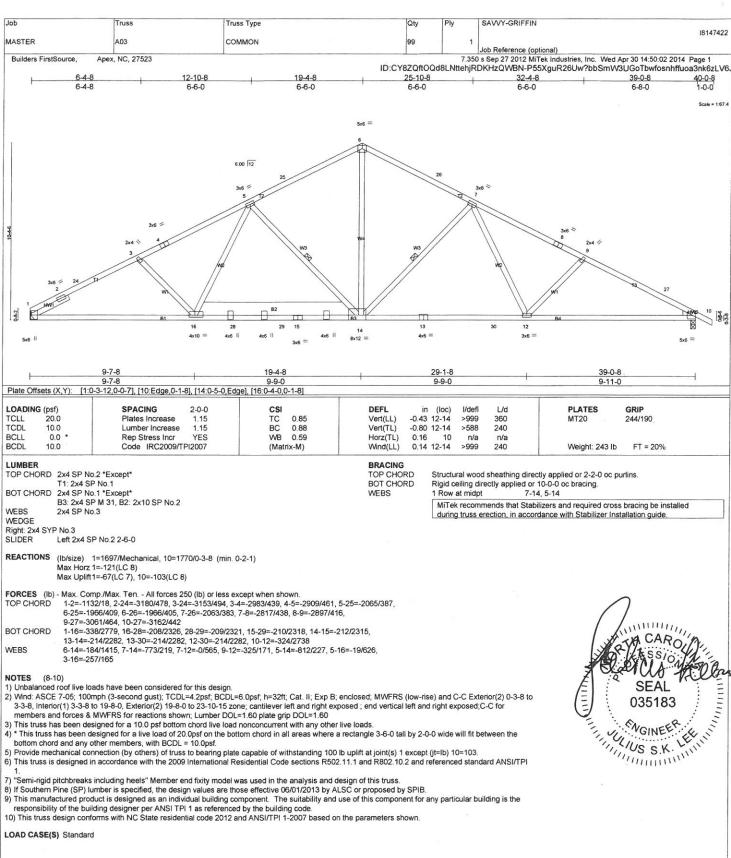
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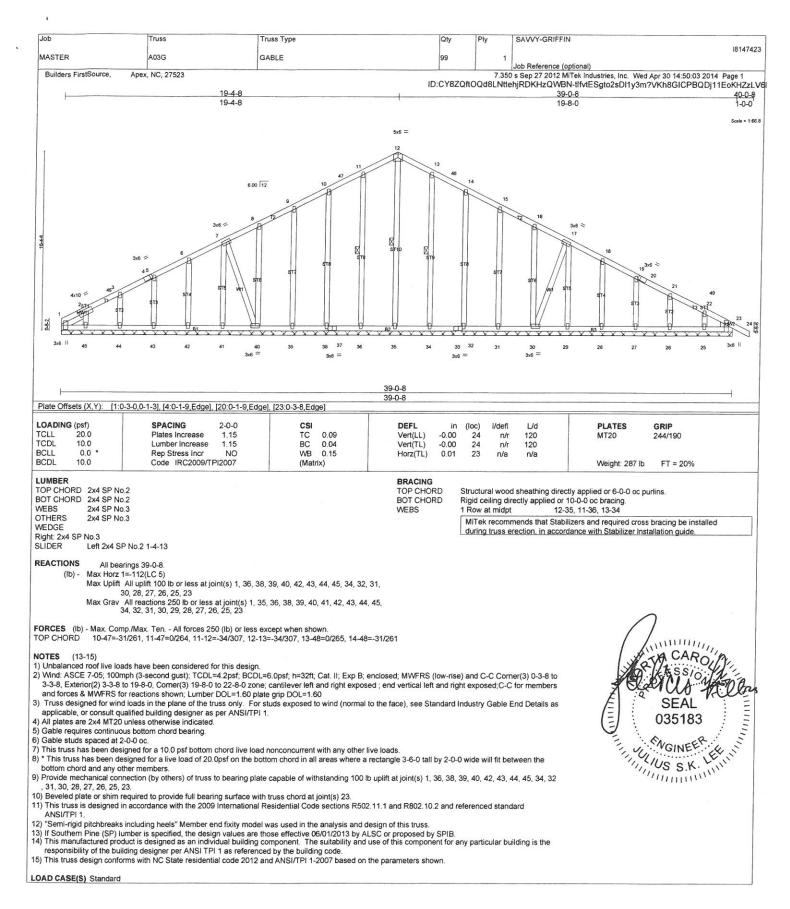
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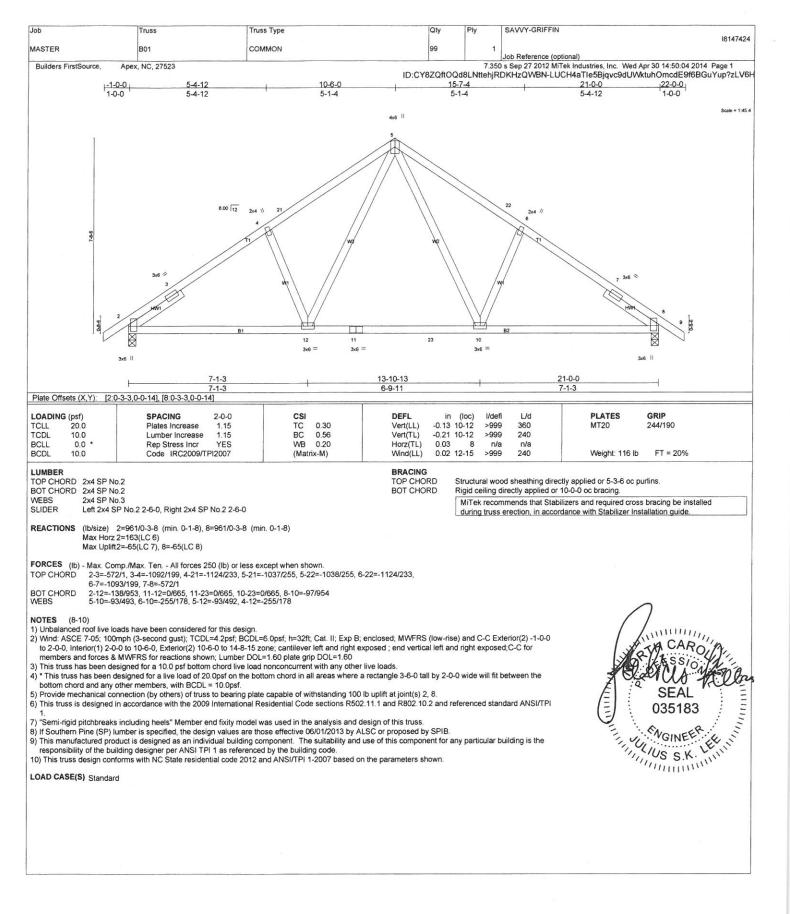
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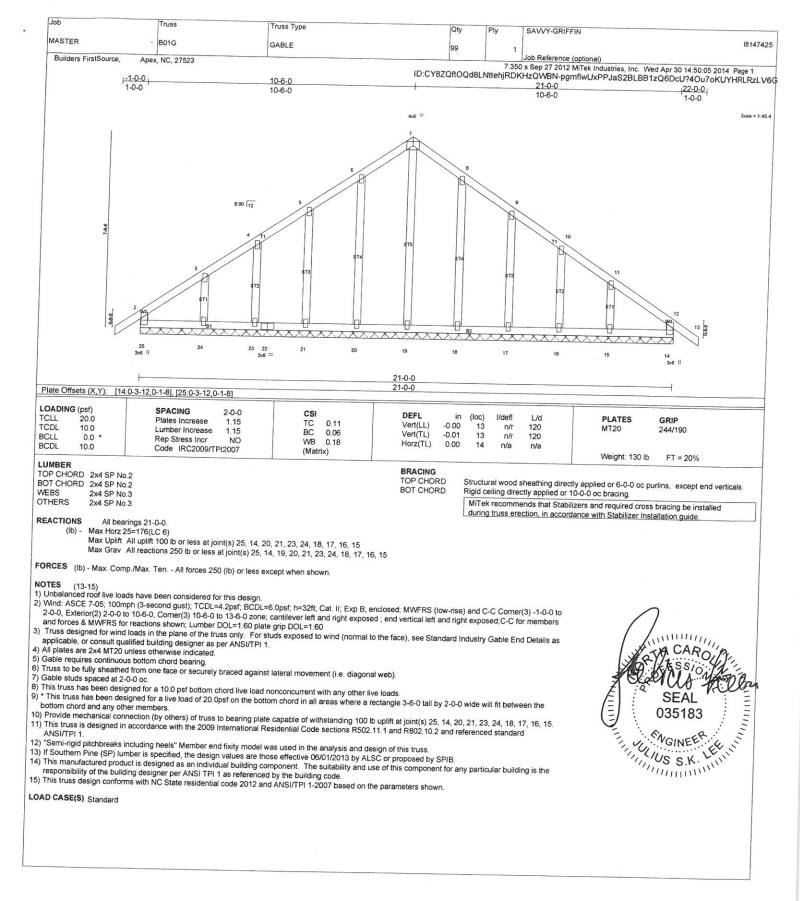
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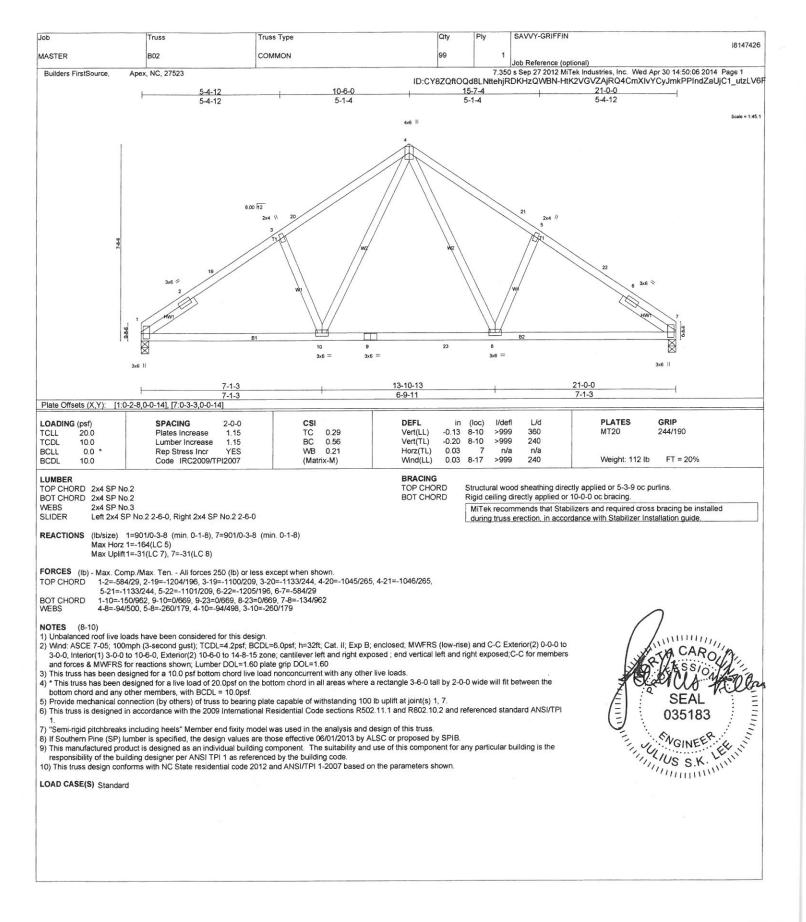


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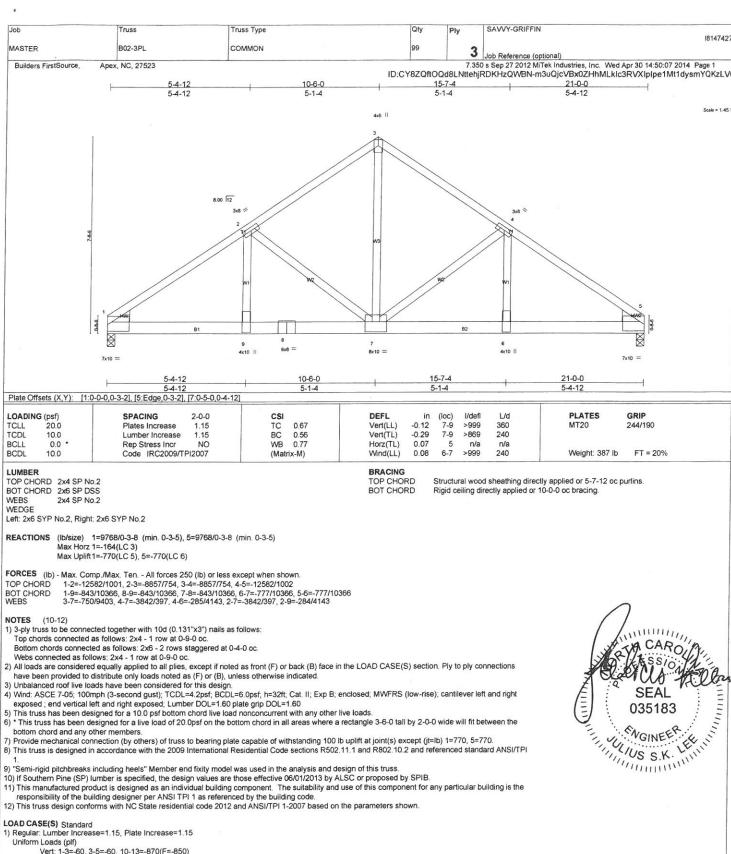
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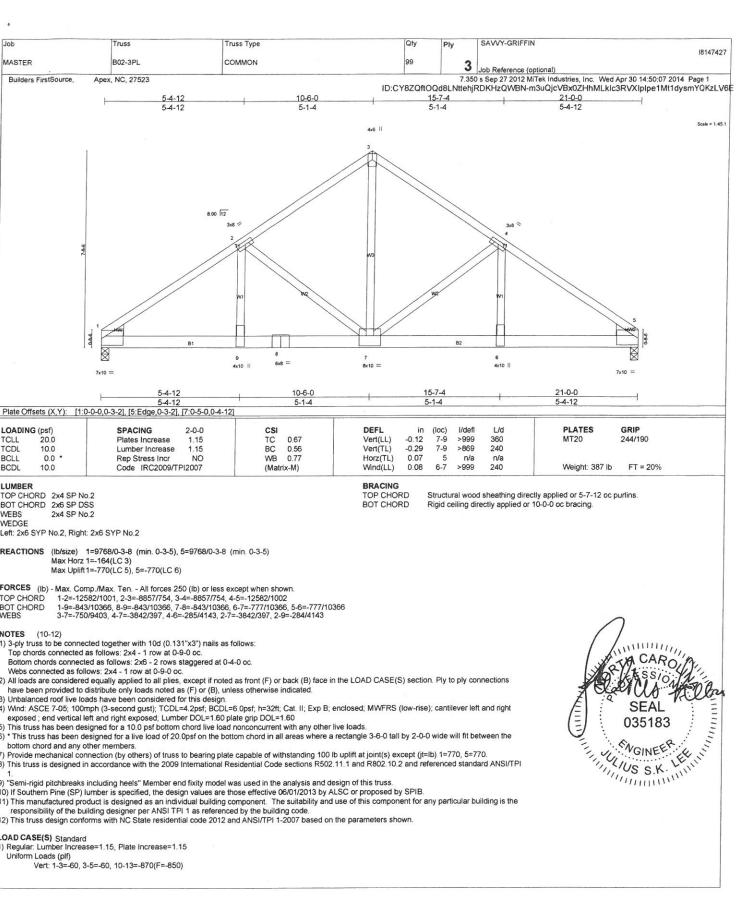
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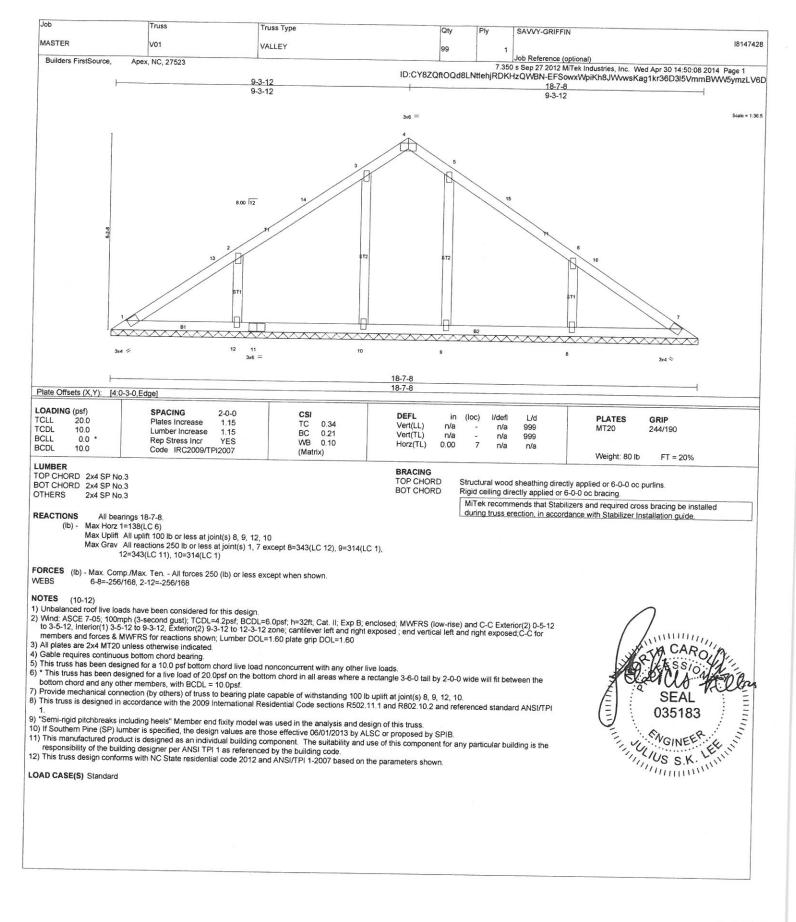
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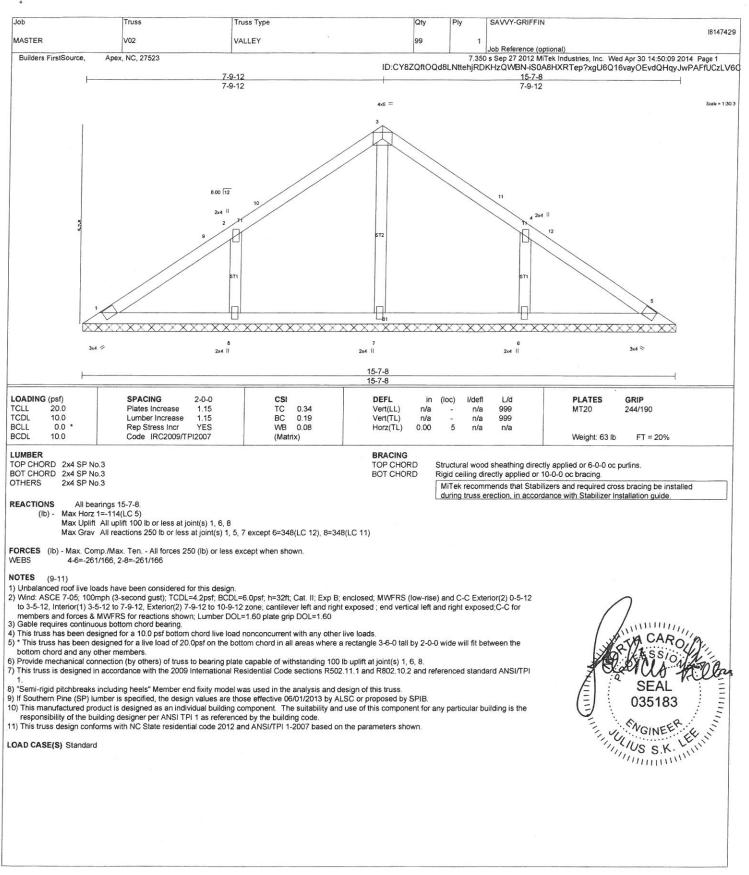


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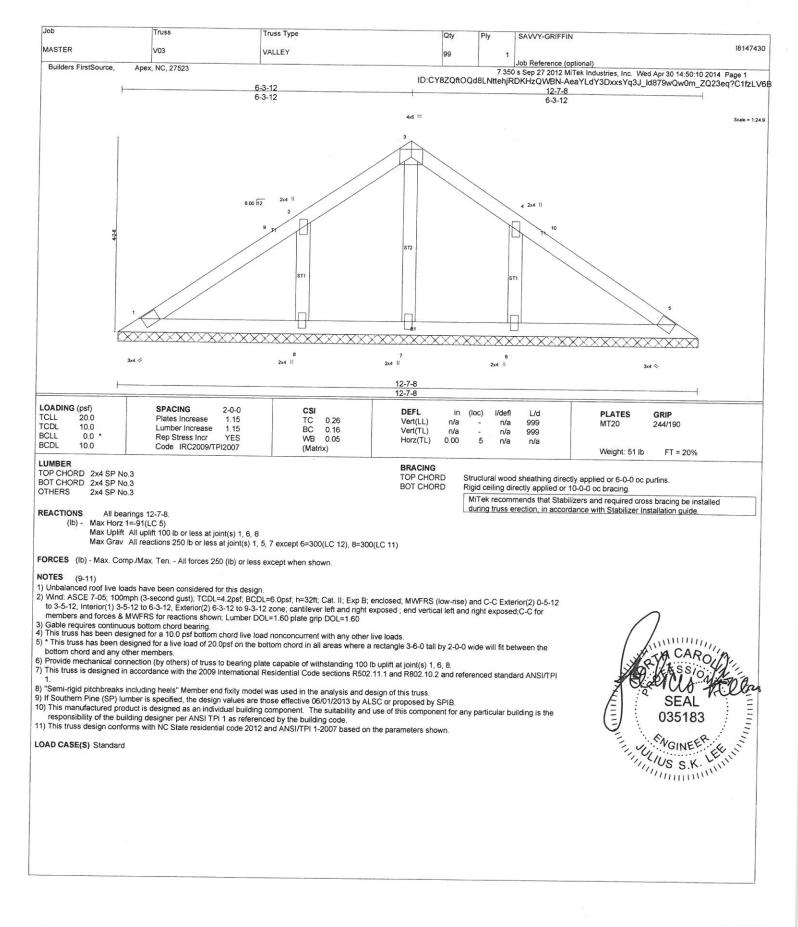
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2x4 SP No	0.3					MiTek	recomr	nends that Stabi	lizers and required cr	oss bracing be installed	ed
b) - Max Horz Max Uplift	arings 15-7-8. 1=-114(LC 5) All uplift 100 lb or less at jo All reactions 250 lb or less	oint(s) 1, 6, 8 at joint(s) 1, 5, 7 e	xcept 6=348(LC 12), 8=348	8(LC 11)		auring	truss e	rection, in accord	dance with Stabilizer	nstaliation guide.	
	np./Max. Ten All forces 25 1/166, 2-8=-261/166	50 (lb) or less exce	pt when shown.								
ASCE 7-05; 100r 12, Interior(1) 3-5 ers and forces & requires continuouss has been des russ has been des	ads have been considered f mph (3-second gust); TCDL: 5-12 to 7-9-12, Exterior(2) 7. MWFRS for reactions show ous bottom chord bearing, signed for a 10.0 psf bottom esigned for a live load of 20.	=4.2psf; BCDL=6.0 -9-12 to 10-9-12 zon; Lumber DOL=1. chord live load no	one; cantilever left and right 60 plate grip DOL=1.60 nconcurrent with any other	t exposed; end verti- live loads.	cal left i	and right	expose	ed;C-C for		CARO	in.
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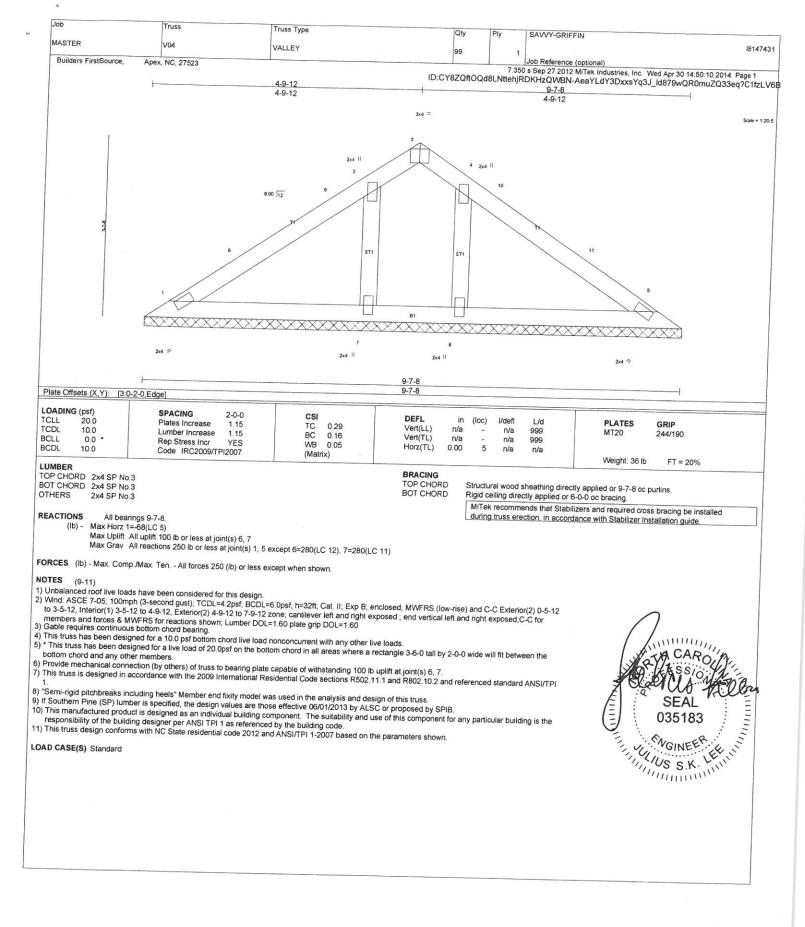
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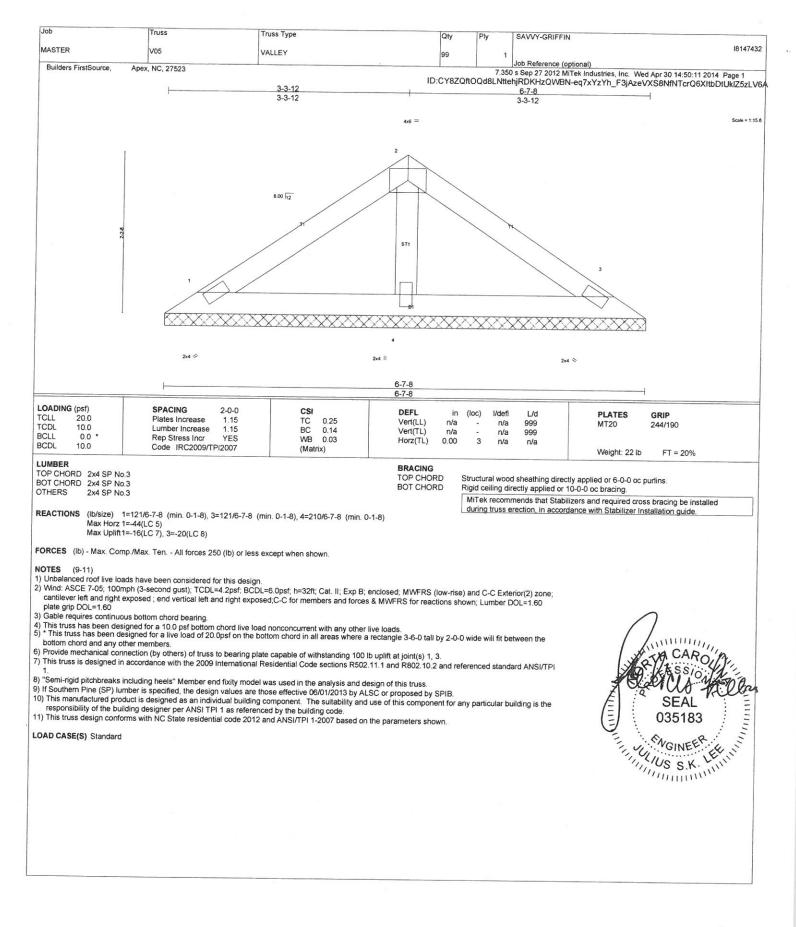


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Safety Information



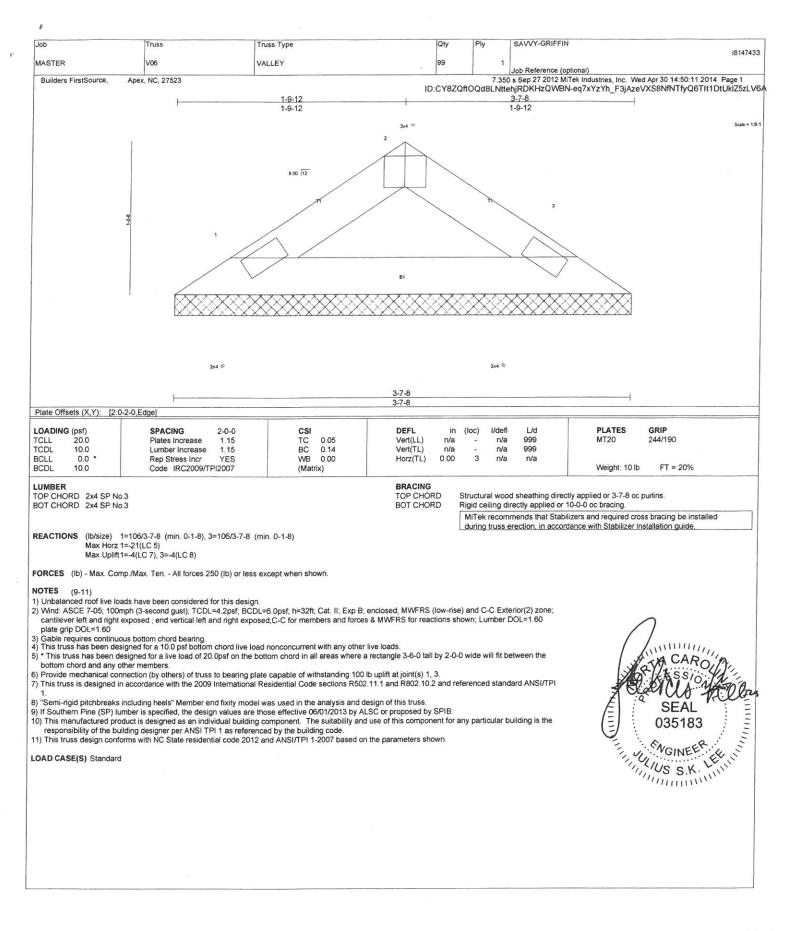
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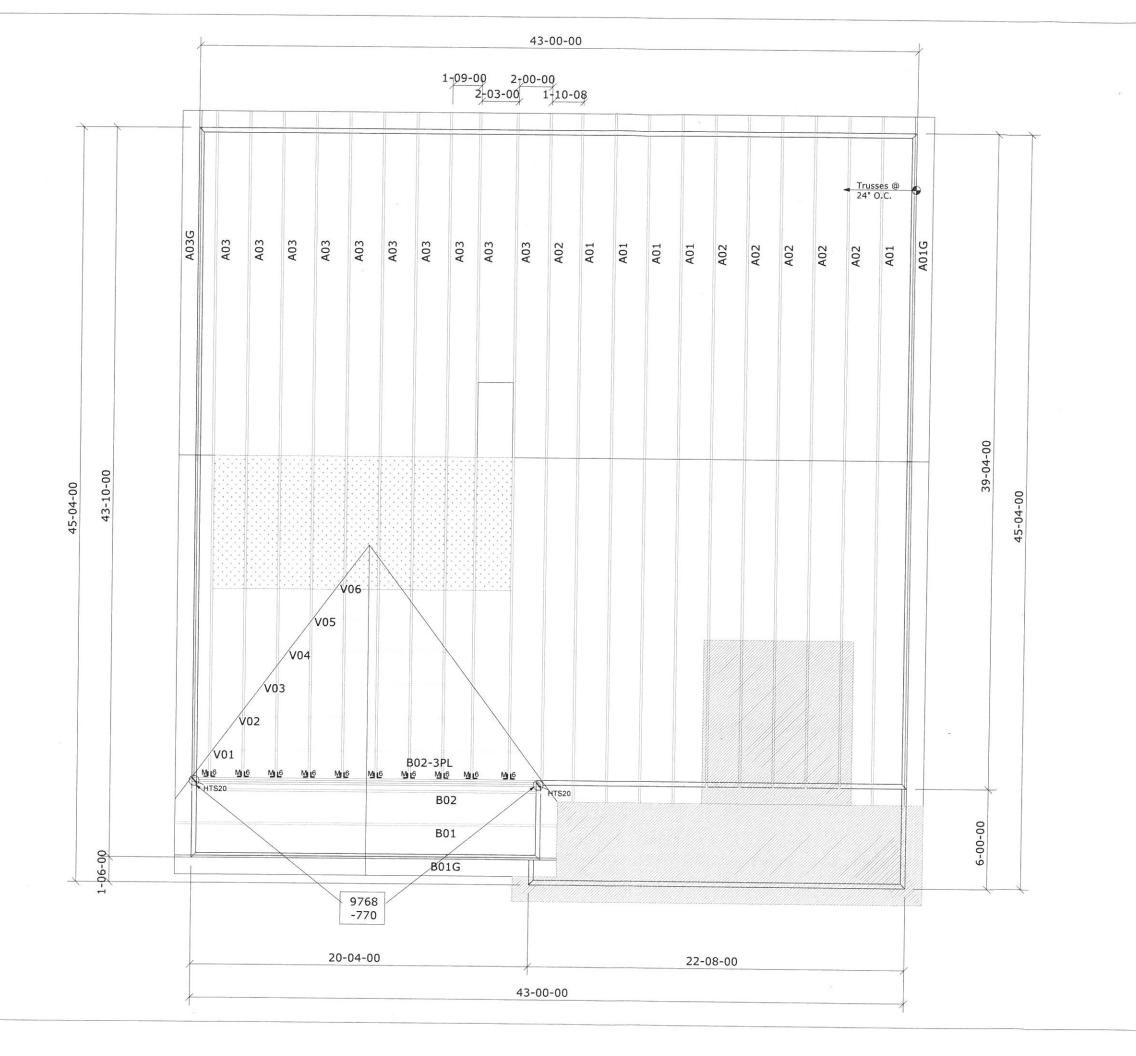


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ANSI/TPI1: National Designate Connects DSB-89: Design Standa BCSI1: Bullding Comp Guide to Good Installing & Brac Connected Wc				
National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses				
	,			
				General
				General Safety Notes
				lotes





- http://www.bldr.com

 General Notes:
 Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer. - Dimensions are Feet-Inches- Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Trusses are not designed to support brick U.N.O.
- Do not cut or modify trusses without first contacting Builders FirstSource.
- Immediately contact Builders FirstSource if trusses are damaged.

 Connection Notes:

- All hangers are to be Simpson or equivalent U.N.O.
- Use Manufacturer's specifications for all hanger
- connections U.N.O.

 Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

 Floor Notes:
- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to

Dimension Notes:

- Drawing not to scale. Do not scale dimensions

		er Lis	t	A	I Tie Downs I	H2.5A Unless note	
10	HTU		MI Fe		Special	Items List	
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HCMES

Life Amplified.

Volume Ceiling

Stick Framing

ALL FLOOR PLAN AND ELEVATIONS COPYRIGHT BY SAVYY HOLDINGS, LLC ®2013 AND MAY NOT BE REPRODUCED BY ANY MEANS WITHOUT PERMISSION, ALL RIGHTS RESERVED.

Date 18/4/2014 Sheet #

1aS

Savvy Holdings, LLC 2013[©]



FRONT ELEVATION - THE GRIFFIN 4346 - C 3/16" = 1'-0"

ROOF VENTILATION CALCULAT	IONS	
VENTING		
ATTIC AREA EQUALS	2225 SQFT	
VENTILATION REQUIRED EQUALS	15 SQFT	

VENTILATION REQUIRED			
2"CONT. VENT EAVE STRIP:	80	LF=	6.6
RIDEGE VENT:	82	LF=	7.26
GABLE VENT:	2	SQFT=	4
TOTAL			17.92

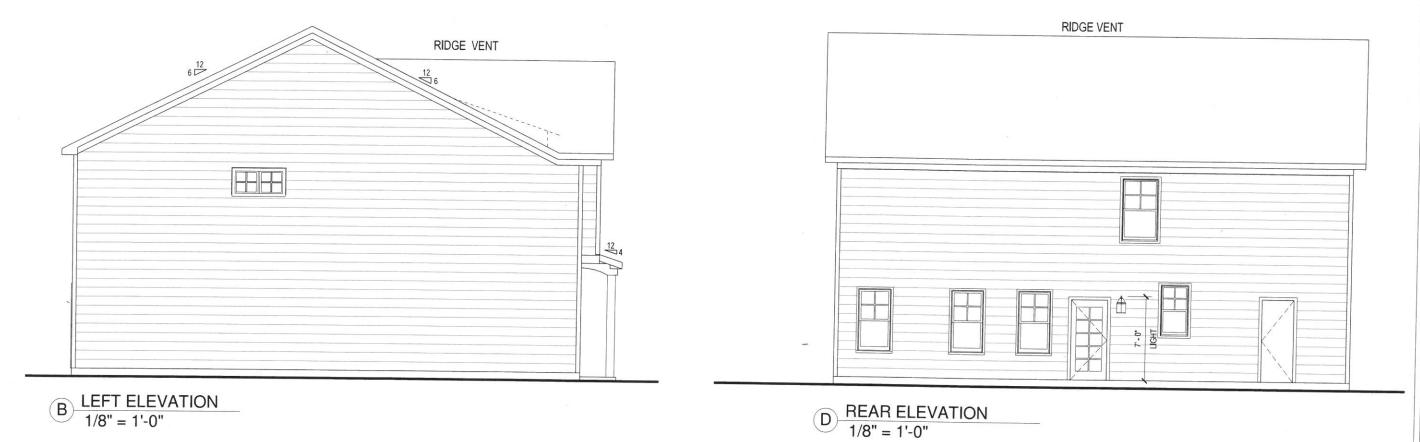
SIDING PER COMMUNITY REQUIREMENT. GUTTERS PER COMMUNITY REQUIREMENT.

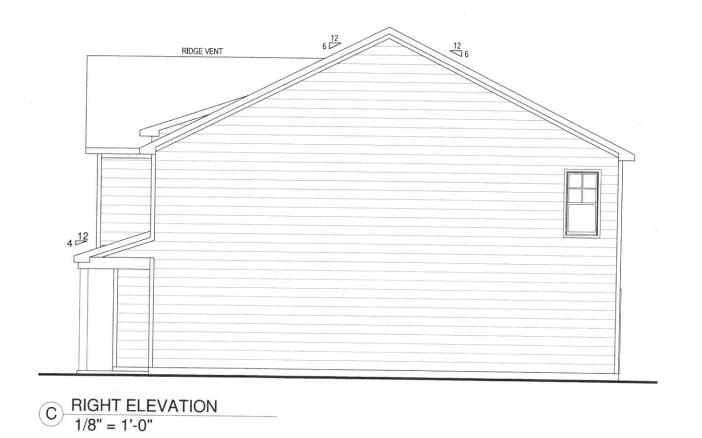
This plan is designed to the 2009 International Residential Code with the most stringent of amendments required by the following states: AL., GA., NC., SC., VA.

SQUARE FO	OOTAGES
NAME	AREA
1ST FLOOR AREA	1319 SF
2ND FLOOR AREA	1786 SF
FRONT PORCH	134 SF
GARAGE	436 SF
REAR PATIO	128 SF

NOTICE TO CONTRACTOR All construction must comply with current NC Building Codes and is subject to field inspection and verification.

DATE PLANS RECEIVED SITE PLANS APPROVED APPROVED BY MR 7-10-15





Company name:
Savvy Homes

Carmichael

Project name: GRIFFIN 4346-C (13) T Sides & Rear Elevations

Date 18/4/2014

Sheet # 1bS

SEE SHEET S-1 FOR SLAB DETAILS

HIGH WIND AREAS ONLY

TIE DOWN FOR UPLIFT

LOADS WHERE INDICATED. REQUIRED ONLY IN HIGH WIND AREAS. SEE S-3a

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR.RALEIGH.NC 27609 LICENSE: C-1287, PHONE:919-878-1617

- * Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
- * Any deviation or discrepancies on plans are to be brought to the immediate attention of Southern Engineer's liability
- * Seal is valid for a project permitted within one year from date of seal.
- * Use of these plans consitutes approval of terms & conditions as defined in the customer agreement.

No. 33797-E PROFESSIONAL



0 24"x24"x10" CONC. FOOTING REF × 24"x24"x10" CONC. FOOTING 12' - 7 1/2" 24"x24"x10" 18"x10" THICKED SLAB 24"x24"x10" CONC. FOOTING 4" CON .GARAGE SLAB UP ! H 3' - 7 3/4" 18' - 6" S-3a 30"x30"x10" CONC. S-3a 24"x24"x10" CONC.

143'-0"

С

S-3

APA- PF

11' - 1"

FOOTING -

С

S-3

APA- PF

SLAB PLAN 1/8" = 1'-0"

FOOTING 16' - 3"

43' - 0"

9' - 7 1/2"

14' - 1 3/4"

4" CONC . SLAB

22' - 8"

PLAN NAME Carmichael

Savvy Homes

Project name: GRIFFIN 4346-C (13) T Slab Plan

Date

18/4/2014

Sheet # 2a1S

Savvy Holdings, LLC 2013[©]

18/4/2014 Sheet #

2b1

I-JOISTS TJI 210 OR EQUAL UNLESS NOTED OTHERWISE

HEADER AND COLUMN NOTES

- 1. ALL EXTERIOR AND LOAD BERING HEADER SHALL BE MIN. (2) 2x6 WITH (1) SUPPORT STUD (1) KING STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN
- 3. COLUMN CONSISTING OF (7) OR MORE STUDS SHALL BE WRAPPED WITH 22-GAUGE METAL STRAPS AT 2" O.C.

HIGH WIND AREAS ONLY

11- 7/8" I-JOIST

K6 CJ'S @

CAP AND / OR BASE

ATTACH RAFTERS AT PORCH WITH HURRICANE

CONNECTORS (SIMPSON H 2.5 OR EQUIV.) ATTACH HEADER TO POST AND POST TO BASE WITH POST

4 x 4 TRT'D POST (OR EQUIV.)

SIMPSON HU 412

UP 2 ea

C

S-3

APA- PF

16

SECOND FLOOR FRAMING 1/8" = 1'-0"

2 ea.

J

S-3a

C

S-3

TIE DOWN FOR UPLIFT OADS WHERE INDICATED. REQUIRED ONLY IN HIGH WIND AREAS. SEE S-3a

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR.RALEIGH.NC 27609 LICENSE: C-1287, PHONE:919-878-1617

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NOTE: INSTALL ALL ENGINEERED LUMBER IN ACCORDANCE W/ MANUF. INSTRUCTIONS.

REPRESENTS A POINT LOAD FROM AN ABOVE OCCURRENCE

REPRESENTS A POINT LOADS END FROM AN ABOVE OCCURRENCE

NOTE: REFER TO SHEET S-3 FOR FRAMING NOTE

BRACING NOTES:

1. WALL BRACING ANALYSIS BASED ON R602.10 - CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013).

FOR 130 MPH : WALLS SHALL BE BRACED ACCORDING TO SECTION R4506.2 AND R602.10- CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013)

- 2. NOTE THAT THE WALL BRACING AMOUNT PROVIDEDON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED THE CODE. SEE NOTE BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING.
- 3. BRACING METHOD AND TYPE: CONTINUOUS SHEATHING PER SECTION R602.10.3 USING WSP (WOOD STRUCTURAL PANEL
- 4. EXTERIOR WALL SHEATHING: SHEATH EXTERIOR WALLS WITH 7/16" WSP (WOOD STRUCTURAL PANEL) SHEATHING AND ATTACH WITH 8D NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS)

FOR 130 MPH: SHEATH EXTERIOR WALLS WITH 7/16" WSP (WOOD STRUCTURAL PANEL) SHEATHING (FOR EXPOSURE C, USE 15/32" WSP)AND ATTACH WITH 8D NAILS AT A 3"/6" NAILING PATTERN (3" OC AT PANEL ENCENTRAS LABIDOC KONCORNI TIVATLE FINANCIDIA TEDIS DES PROPERS HEATHING SHALL EXTEND TO UPPERMOST DOUBLE BEARING PLATE). BLOCK AT ROOF PER R602.10.5.5.

- 5. MINIMUM WALL LENGTHS ARE BASED ON TABLE R602.10.1 AND ARE TO BE LOCATED AS SPECIFIED IN SECTION R602.10.3.2.
- 6. HOLD-DOWN DEVICE (NOTE AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSENBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.
- 7. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD ON EACH SIDE OF WALL WITH A MIN. OF 5D COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. INTERIOR BRACED WALLS SHALL BE CONNECTED AS DESCRIBED IN R602.10.5.4 AND FIGURES CR602.10.5.4 (1) AND CR602.10.5.4(2).





WHOLE HOUSE BRACING SUMMARY (CITY OF RALEIGH) TOTAL REQUIRED BRACING: 61 TOTAL PROVIDED BRACING: 274 (IN FEET)



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PLAN NAME

Carmichae

NOTE: INSTALL ALL ENGINEERED LUMBER IN ACCORDANCE W/ MANUF. INSTRUCTIONS.

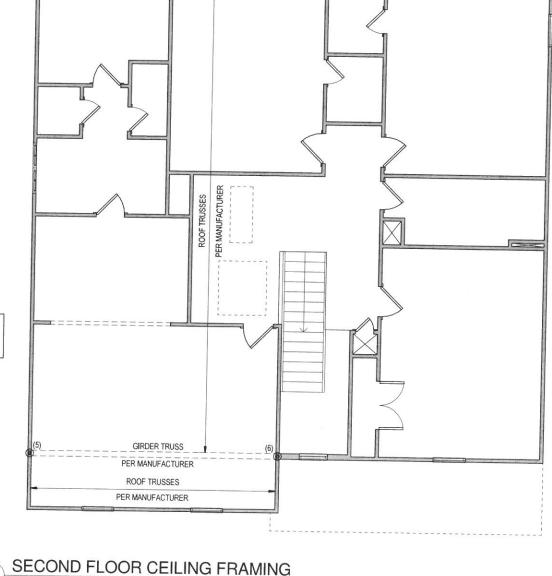
NOTE: REFER TO SHEET S-3 FOR FRAMING NOTES

REPRESENTS A POINT LOAD FROM AN ABOVE OCCURRENCE

HIGH WIND AREAS ONLY

TIE DOWN FOR UPLIFT LOADS WHERE INDICATED. REQUIRED ONLY IN HIGH WIND AREAS. SEE S-3a

NOTE: TOP PLATE UPLIFT CONNECTIONS PROVIDED BY TRUSS MANUFACTURER



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- * Any deviation or discrepancies on plans are to be brought to the immediate attention of Southern Engineer's liability
- * Seal is valid for a project permitted within one year from date of seal.
- * Use of these plans consitutes approval of terms & conditions as defined in the customer agreement.

BRACING NOTES:

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FOR 130 MPH: WALLS SHALL BE BRACED ACCORDING TO SECTION R4506.2 AND R602.10- CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013)

- 2. NOTE THAT THE WALL BRACING AMOUNT PROVIDEDON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED THE CODE. SEE NOTE BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING.
- 3. BRACING METHOD AND TYPE: CONTINUOUS SHEATHING PER SECTION R602.10.3 USING WSP (WOOD STRUCTURAL PANEL
- 4. EXTERIOR WALL SHEATHING: SHEATH EXTERIOR WALLS WITH 7/16" WSP (WOOD STRUCTURAL PANEL) SHEATHING AND ATTACH WITH 8D NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS).

FOR 130 MPH: SHEATH EXTERIOR WALLS WITH 7/16" WSP (WOOD STRUCTURAL PANEL) SHEATHING (FOR EXPOSURE C, USE 15/32" WSP)AND ATTACH WITH 8D NAILS AT A 3"/6" NAILING PATTERN (3" OC AT PANEL ENSTAS LABIDOS KUNGAATNALERMENDIA ED SIDDPONSPS). SHEATHING SHALL EXTEND TO UPPERMOST DOUBLE BEARING PLATE). BLOCK AT ROOF PER R602.10.5.5.

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HEADER AND COLUMN NOTES

- 1. ALL EXTERIOR AND LOAD BERING HEADER SHALL BE MIN. (2) 2x6 WITH (1) SUPPORT STUD AND (1) KING STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN
- 3. COLUMN CONSISTING OF (7) OR MORE STUDS SHALL BE WRAPPED WITH 22-GAUGE METAL STRAPS AT 24" O.C.





Date

Sheet #

Savvy Holdings, LLC 2013[©]

PLAN NAME Carmichael

Savvy Home

18/4/2014

2c

HIGH WIND AREAS ONLY NOTE: REFER TO SHEET S-3

TIE DOWN FOR UPLIFT REPRESENTS A POINT LOAD FROM AN ABOVE OCCURRENCE OADS WHERE INDICATED. REQUIRED ONLY IN HIGH WIND AREAS. SEE S-3a

FOR FRAMING NOTE

TRUSS SYSTEM REQUIREMENTS

1.TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS.ANY NEED TO CHANGE TRUSSES SHALL BE COORDINA TED WITH SOUTHERN ENGINEERS.

2.TRUSS SCHEMATIC (POFILES) SHALL BE PREPEARED AND SEALED BY TRUSS MANUFACTURER.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNQ).

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UP LIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATIC

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PLAN NAME Carmichael

Savvy Homes

SAVVY HOMES 8025 CREEDMOOR RD. S RALEIGH, NC 27613 PH 919-781-8104

Project name: GRIFFIN 4346-C (13) T Roof Framing

Date 18/4/2014

Sheet #

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VALLEY TRUSSES PER MANUFACTURER 2 x 6 RAFTERS @ 16" O.C. 4 /12 > 8/12> < 8/12 GIRDER TRUSS PER MANUFACTURER 2 x 6 RAFTERS @ 16" O.C. ROOF TRUSSES

ROOF FRAMING 1/8" = 1'-0"

PER MANUFACTURER

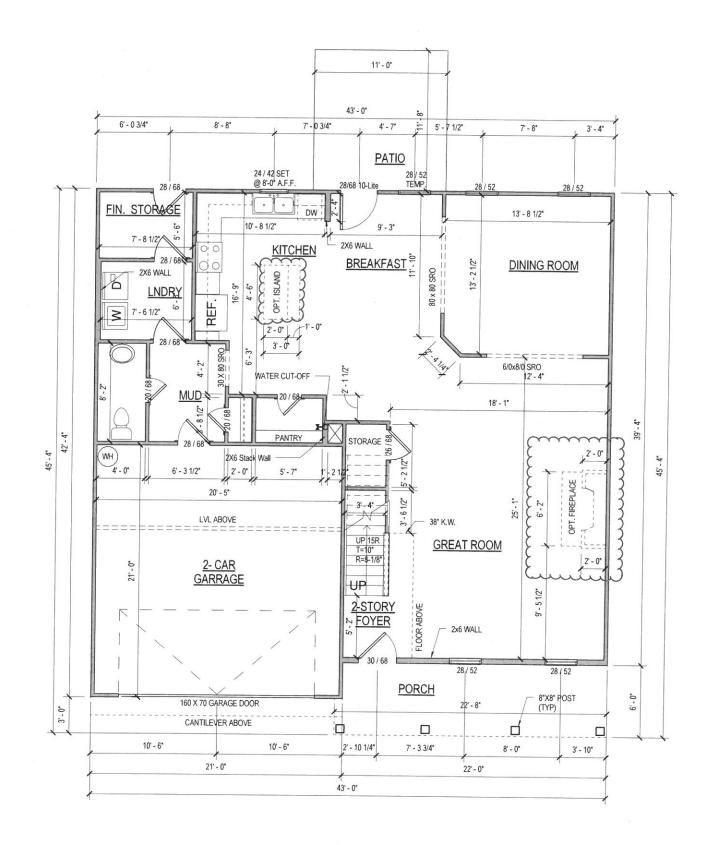


PLAN NAME Carmichael

Project name: GRIFFIN 4346-C (13) T First Floor Plan

Date 18/4/2014

Sheet #

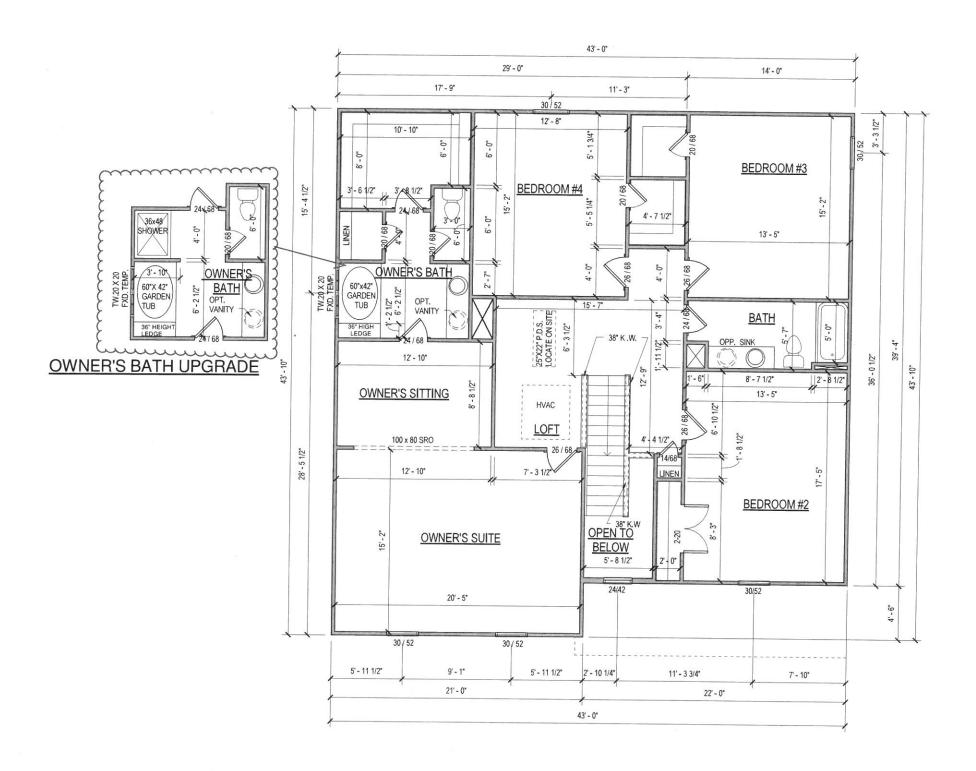


A FIRST FLOOR PLAN 1/8" = 1'-0"

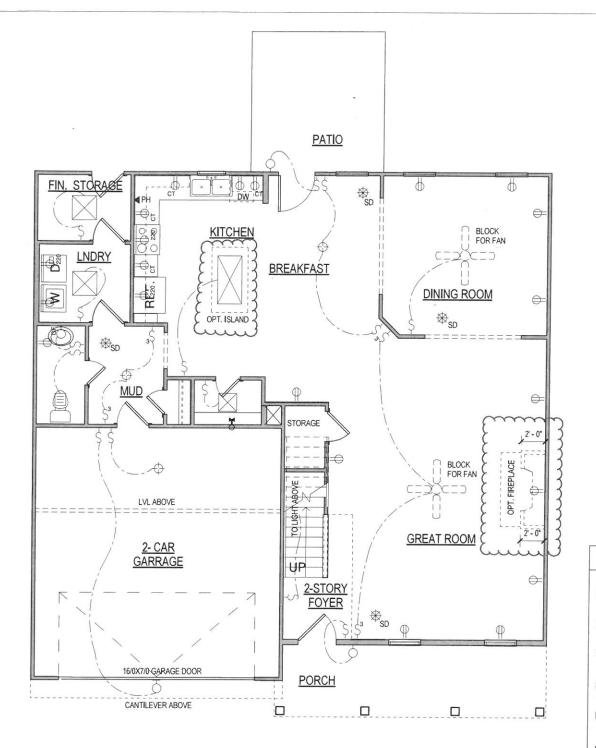
PLAN NAME Carmichael

Date

Sheet # 4a



SECOND FLOOR PLAN 1/8" = 1'-0"



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SMOKE DETECTOR /

CEILING LIGHT

VENT

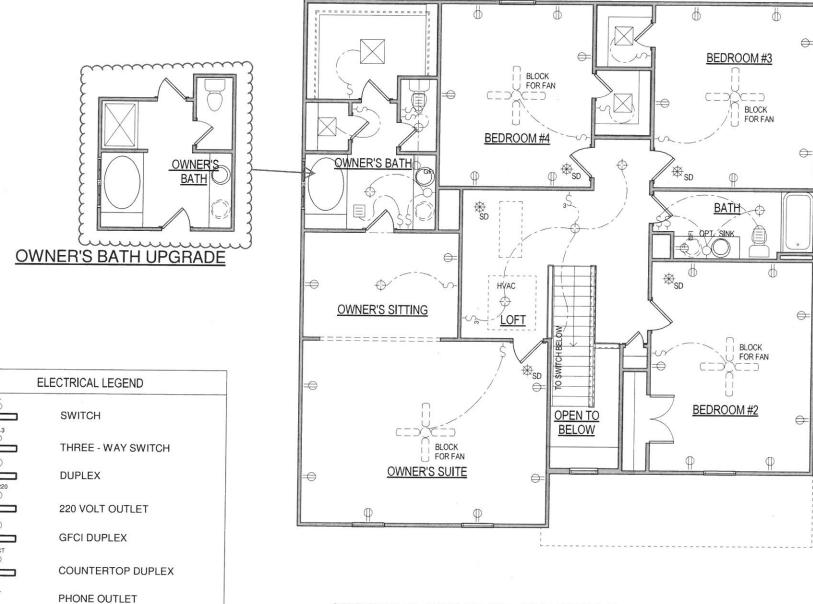
WALL HUNG LIGHT

24" FLOURESCENT

24" x 48" FLOURESCENT

CARBON MONOXIDE DETECTOR

FIRST FLOOR PLAN - ELECTRICAL 1/8" = 1'-0"



SECOND FLOOR PLAN - ELECTRICAL 1/8" = 1'-0"

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PLAN NAME Carmichael

Savvy Homes

GRIFFIN 4346-C (13) T Electrical Plans

Date

Sheet #

5a

I-Joist Length, on Top of Flange

Note: Refer to current Boise Cascade Installation Guide for details not shown.

General Notes:

- *READ" Boise Installation Guide before installation of products.
 All, I-Joist, LVL beams, and Rim Board must be field cut to length.
 Contractor must verify and approve the above material list.
 I-Joist may be moved 3" out of its own o.c. spacing, up to 19.2" o.c. to allow for plumbing drops.
- This layout, is a placement plan and, was designed in accordance Inis layout, is a placement plan and, was designed in accordance with the original design of the structure (unless otherwise noted). See original plans for additional structural notes.
 Ceramic tile floors should be supported per APA standards. Additional joists may be required.
 HVAC & PLUMBER, "Review" Boise Installation Guide (Joist Hole

- Location & Sizing) Chart "BEFORE" cutting the I-joist product.

 8.) "Blocking", are Random Length I-joist, Labeled as such.

PlotID

J2

J3

J4

J5

J6

J7

J8

J9

J10

J11

J12

J13

BM1-2

BM2-2

BM3-3

BM4-2

BM5-2

BM7-3

BM6

BM8

Rim1

Rim2

BLk2

BLk1

Net Qty

6

2

14

2

2

2

3

2

2

3

2

6

11

15

Product

Connector Summary						
PlotID	Qty	Manuf	Product	Flange		
H1	1	Simpson	HHUS410	None		
H2	22	Simpson	IUS 2.06/11.88	None		
H3	9		SUR 2.06/11	None		

Plies

Length

26' 0"

25' 0"

24' 0"

20' 0"

19'0"

18' 0"

17' 0"

15' 0"

14' 0"

11'0"

10' 0"

23' 0"

10' 0"

20' 0"

12' 0"

10' 0"

4' 0"

22' 0"

12' 0"

12' 0"

12' 0"

4' 0"

18' 0"

2

2

3

2

3

9'0"

Products

1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP

1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1-3/4" x 16" VERSA-LAM® 2.0 3100 SP

1-3/4" x 16" VERSA-LAM® 2.0 3100 SP

1" x 11-7/8" BC RIM BOARD OSB

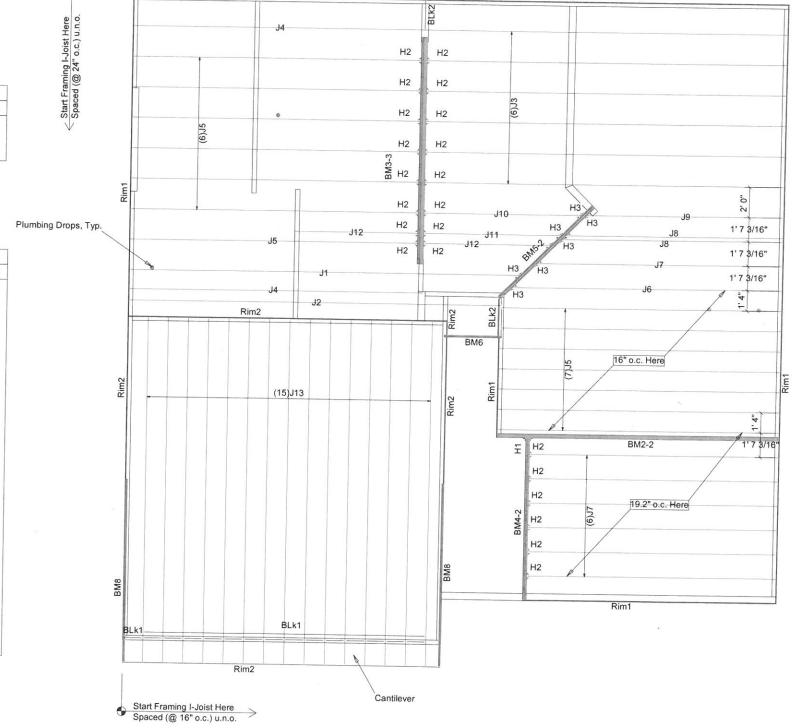
1" x 16" BC RIM BOARD OSB

11-7/8" BCI® 5000s-1.8 SP

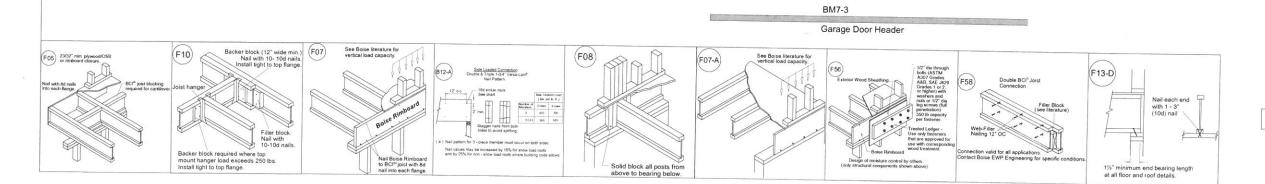
16" BCI® 6000s-1.8 SP

11-7/8" BCI® 5000s-1.8 SP

16" BCI® 6000s-1.8 SP



Rim1



2nd Floor Layout

Cascade Boise

Interior Header

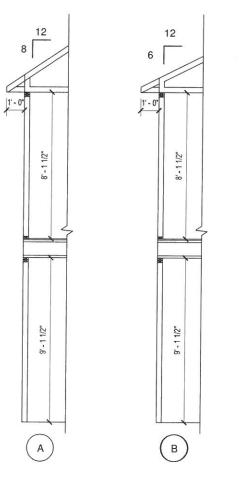
· Kenlan Farms Savvy Homes

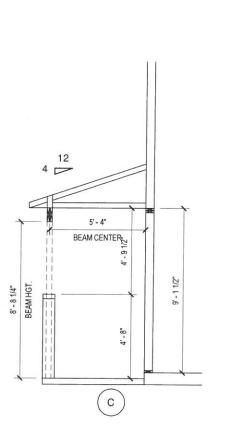
Scale: Not to a Scale

Date: 04.21.2015 By: kelvinWOOD

Sheet: 1 of 1

NOTE: SECTIONS AND DETAILS PROVIDED ON THIS SHEET ARE FOR SCHEMATIC USE ONLY. SEE TRUSS DOCUMENTATION AND/OR STRUCTURAL SHEETS FOR CONSTRUCTION INFORMATION





PLAN NAME Carmichael

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Company name:
Savvy Homes

SAVVY HOMES 8025 CREEDMOOR RD. SUITE 100 RALEIGH, NC 27613 PH 919-781-8104

Project name:
GRIFFIN 4346-C (13) T
Sections and Details

Date 18/4/2014

Sheet #

6aS

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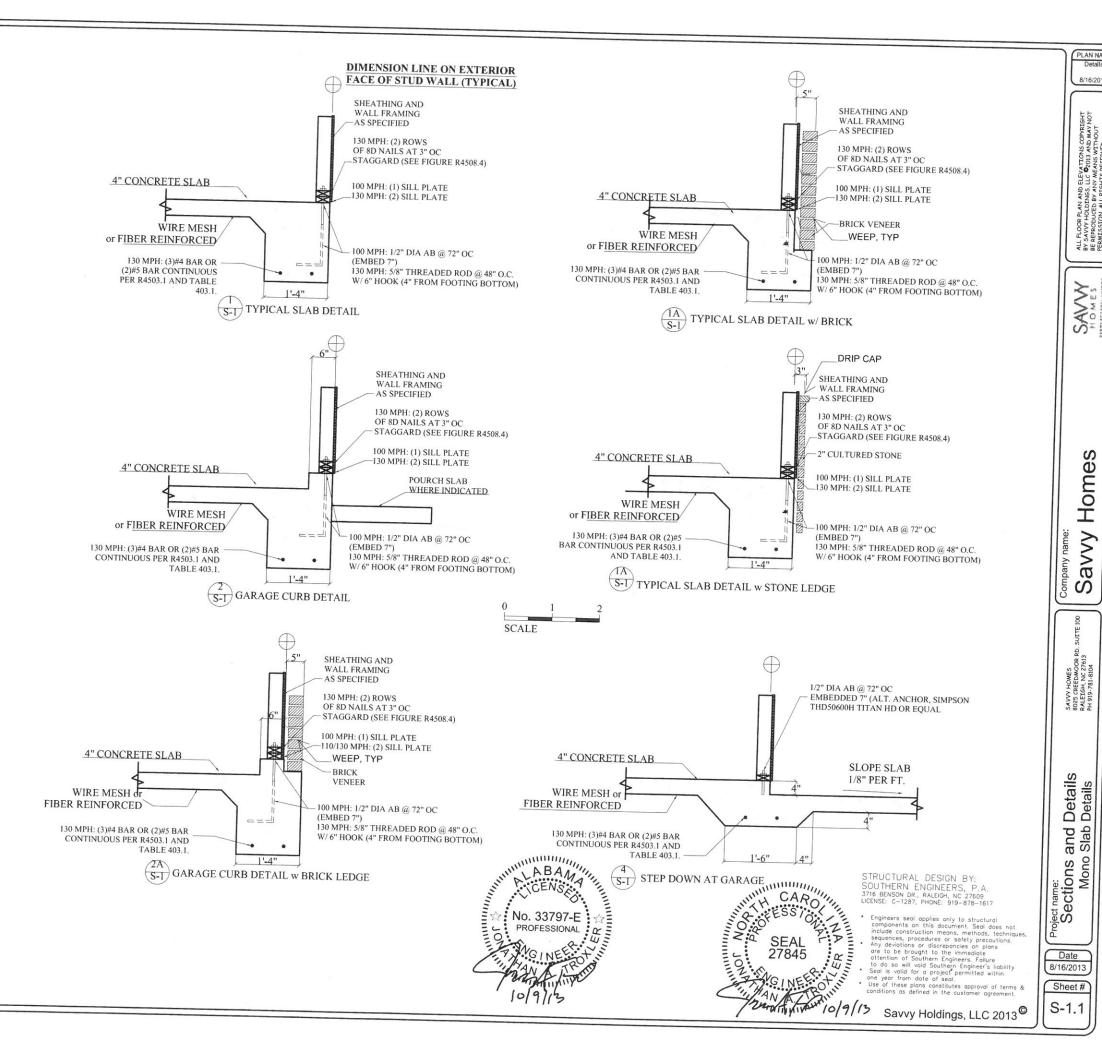
- 1) ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIGGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM AND FOOTINGS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- 2) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE 2012 EDITION (2009 IRC), PLUS ALL LOCAL CODES AND REGULATIONS.

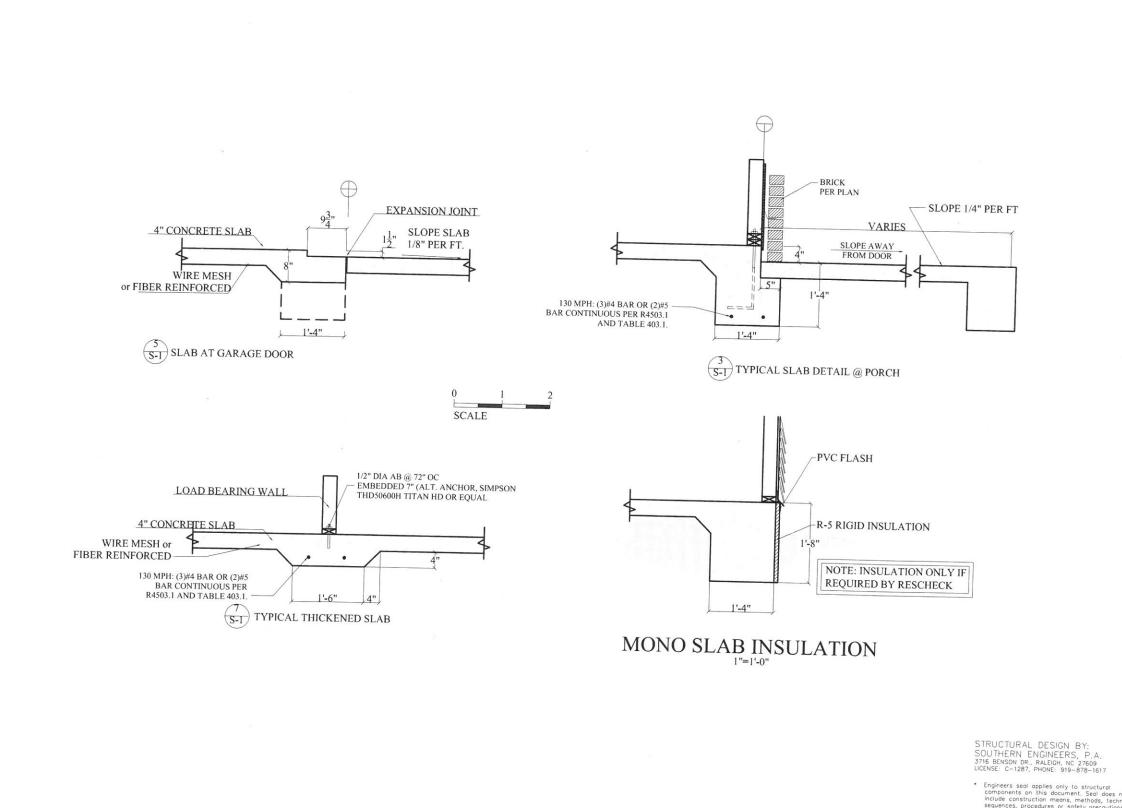
 (FOR 130 MPH: ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2012 NORTH CAROLINA RESIDENTIAL CODE (2009 IRC) (WITH SPECIAL CONSIDERATION TO CHAPTER 45—HIGH WIND ZONES AND CHAPTER 46—COASTAL AND FLOOD PLAIN CONSTRUCTION STANDARDS AND THE WOOD FRAME CONTRUCTION MANUAL (WFCM) 2001 EDITION), PLUS ALL LOCAL CODES AND REGULATIONS). THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SOCUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

 "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- 3) DESIGN LOADS (R301.4) (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION LIMIT) ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, 10 PSF, L/360) SLEEPING ROOMS: (30 PSF, 10 PSF, L/360) ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360) ATTIC WITH OUT STORAGE: (10 PSF, 10 PSF, L/240) STAIRS: (40 PSF, --, L/360) EXTERIOR BALCONIES: (60 PSF, 10 PSF, L/360) DECKS: (40 PSF, 10 PSF, L/360) GUARDRAILS AND HANDRAILS: (200 LBS) PASSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360) FIRE ESCAPES: (40 PSF, 10 PSF, L/360) SNOW: (20 PSF) WIND LOAD: (BASED ON 100 DR 130 MPH WIND VELOCITY)
- 4) WALL BRACING: WALLS SHALL BE BRACED ACCORDING TO R602.10- CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013).

 (FOR 130 MPH: WALLS SHALL BE BRACED ACCORDING TO SECTION R4506.2 AND R602.10- CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013)). NOTE THAT THE BRACING AS SPECIFIED ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/OR APPROVED BY THE CODE OFFICIAL.
- 5) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.
- 6) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTUAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAINSURFACE WATER AWAY FROM FOUNDATION WALLS.
- 7) ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2 (Fb=975 PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (Fc(perp) = 425 PSI MIN).
- 8) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 6'-0" MAX. BEAM SPAN (UNO), (2) 2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-0" (UNO).
- 9) L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1,900,000 PSI, P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2,000,000 PSI, L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1,550,000 PSI, INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 10) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- 11) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH, PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- 12) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- 13) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH
- 14) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0" (UNO).
- 15) 100 MPH: THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF. THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE RESIDENTIAL CODE 2012 EDITION SHALL BE AS FOLLOWS:

45.4 PSF - 2.25:12 PITCH OR LESS 34.8 PSF - 2.25:12 TO 7:12 PITCH 21 PSF - 7:12 TO 12:12 PITCH: WALLS 24.1 PSF - WALLS





Savvy Homes

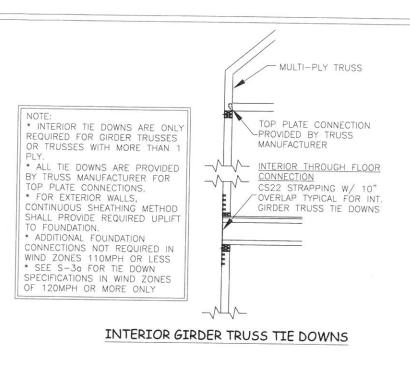
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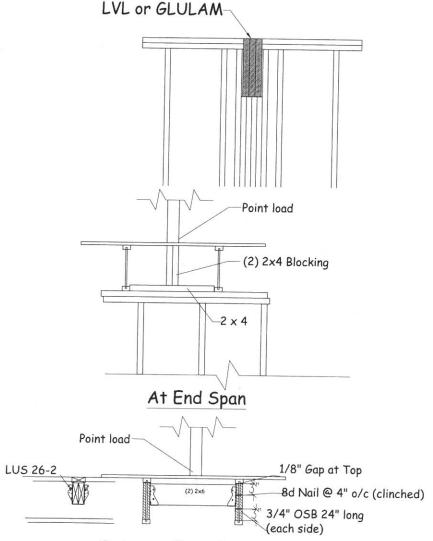
Date 8/16/2013

Sheet #

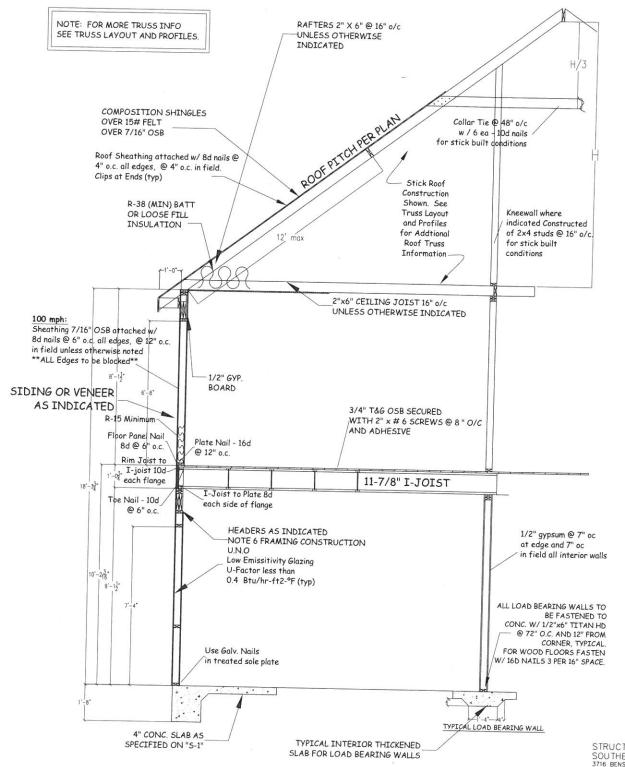
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TYPICAL MULTI-STUD BEAM POCKET - (IN GARAGE)



Intermediate Supports BLOCKING DETAILS



William III ABAMA No. 33797-E

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 Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

SEAL 27845

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8/16/2013

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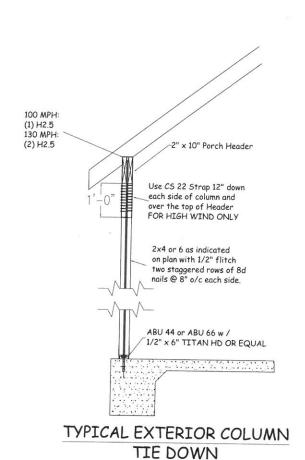
Homes Savvy

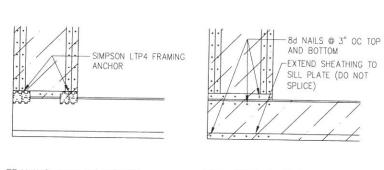
Yoject name: Sections and Details Standard Details

Date 8/16/2013

Sheet #

S-3.1

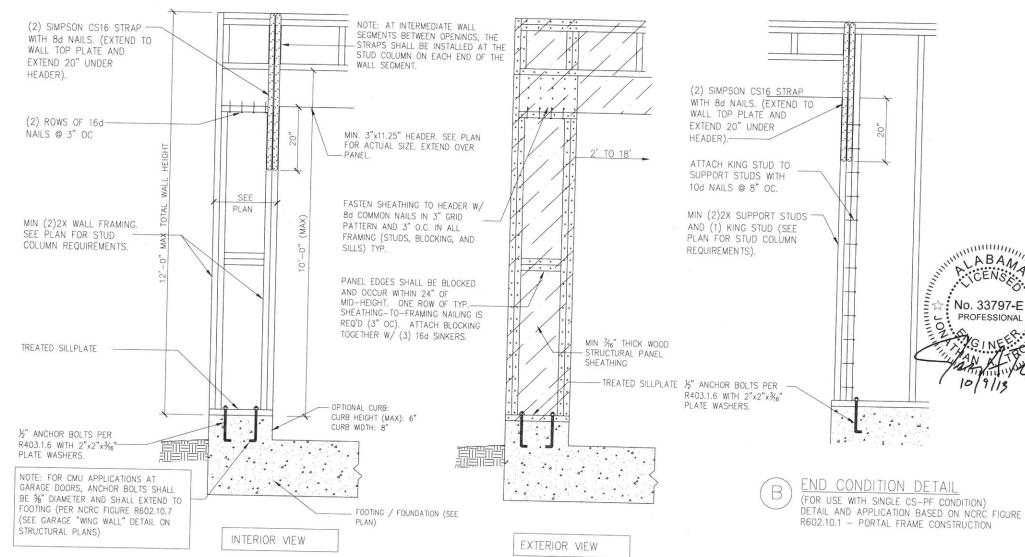




FRAMING ANCHOR OPTION

WSP OVERLAP OPTION

CS-PF - OVER WOOD FLOOR



CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION

DETAIL AND APPLICATION BASED ON NCRC FIGURE R602.10.4.1.1

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Savvy Holdings, LLC 2013

ammining, CARO

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No. 33797-E

PROFESSIONAL

Sections and Details Standard Details Date

8/16/2013 Sheet #

PLAN NAME 8/16/2013

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S-3.2

