

STORAGE & HANDLING

Protect from moisture. Do not store on wet ground. Do not store on uneven ground. Do not store on top of other materials. Do not store in direct contact with concrete. Do not store in direct contact with masonry or stone. Do not store in direct contact with other materials. Do not store in direct contact with other materials.

SAFETY PRECAUTIONS

Use safety glasses, gloves, hard hat, and other personal protective equipment when handling and installing onCENTER engineered lumber. Do not use onCENTER engineered lumber for structural applications unless specifically designed for such use.

BRACING REQUIREMENTS

Do not allow members to load on engineered lumber until bracing is installed. Do not allow members to load on engineered lumber until bracing is installed. Do not allow members to load on engineered lumber until bracing is installed.

INSTALLATION NOTES

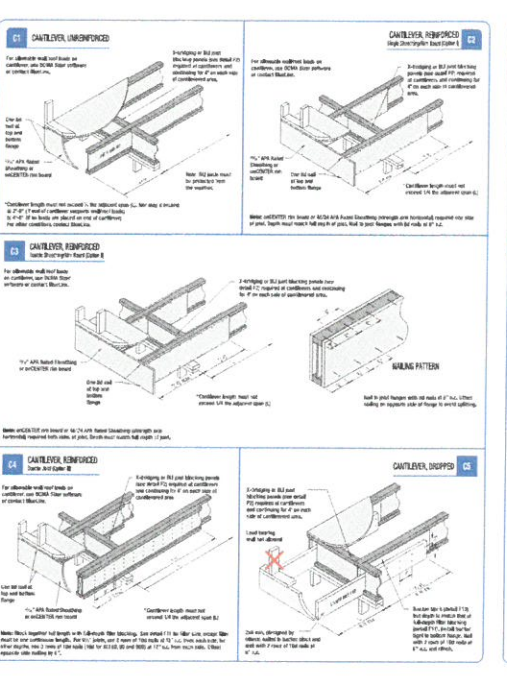
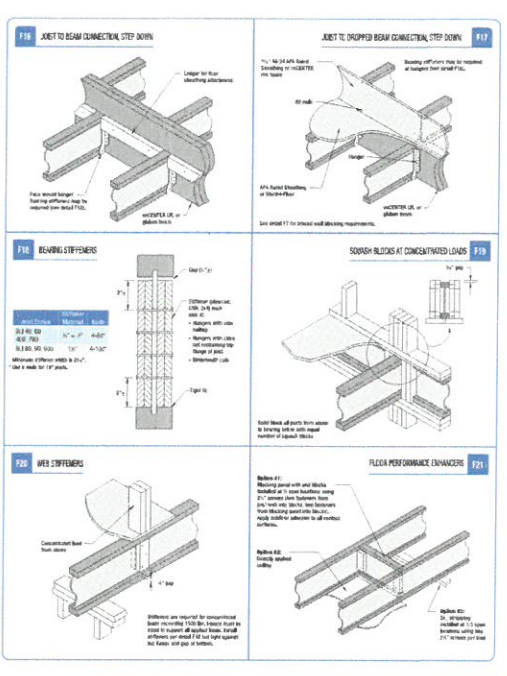
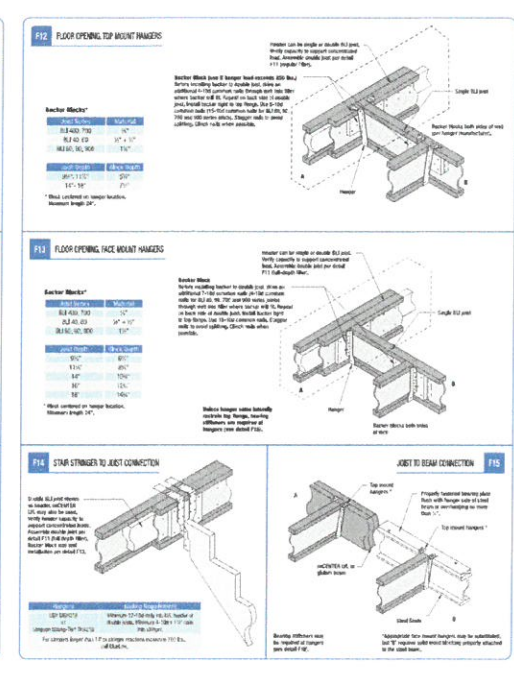
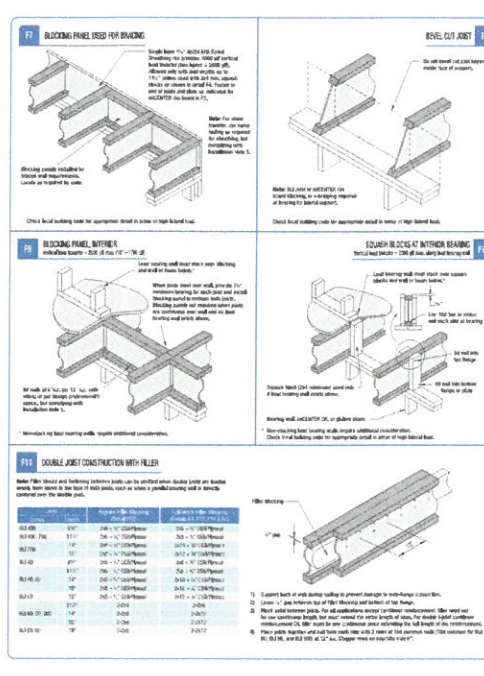
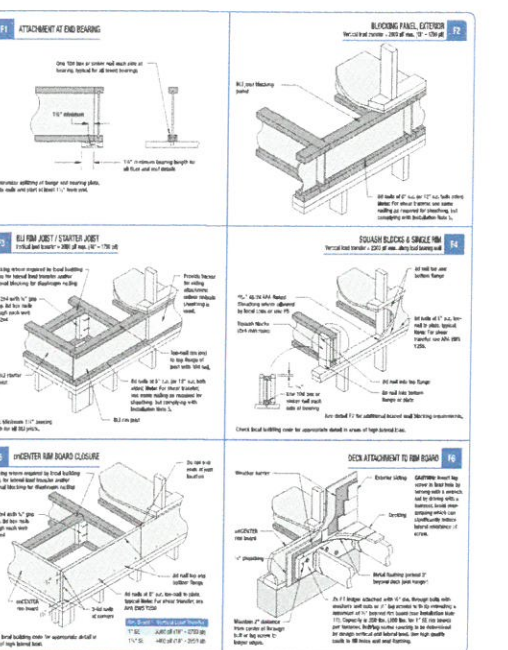
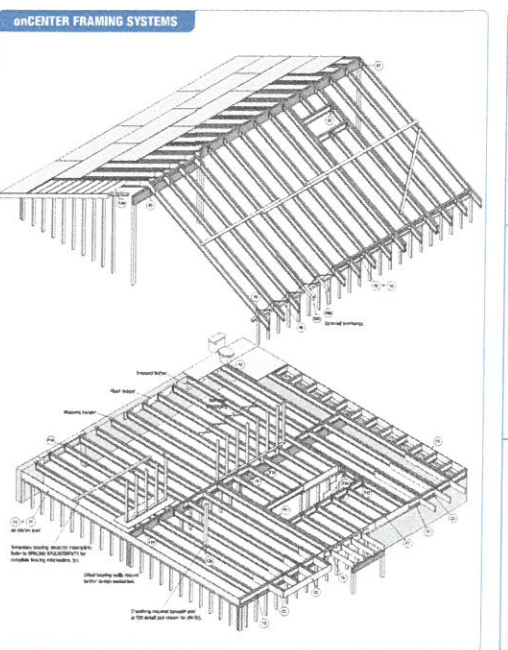
- Structure onCENTER products must be protected from weather and stored in a covered, dry area. Do not store on wet ground. Do not store on uneven ground. Do not store on top of other materials. Do not store in direct contact with concrete. Do not store in direct contact with masonry or stone. Do not store in direct contact with other materials. Do not store in direct contact with other materials.
- Engineered lumber must be installed in direct contact with masonry or stone. Do not store in direct contact with other materials. Do not store in direct contact with other materials.
- Do not use onCENTER products for structural applications unless specifically designed for such use. Do not use onCENTER products for structural applications unless specifically designed for such use.

INSTALLATION CAUTIONS

Do not support onCENTER products on top of other materials. Do not support onCENTER products on top of other materials. Do not support onCENTER products on top of other materials.

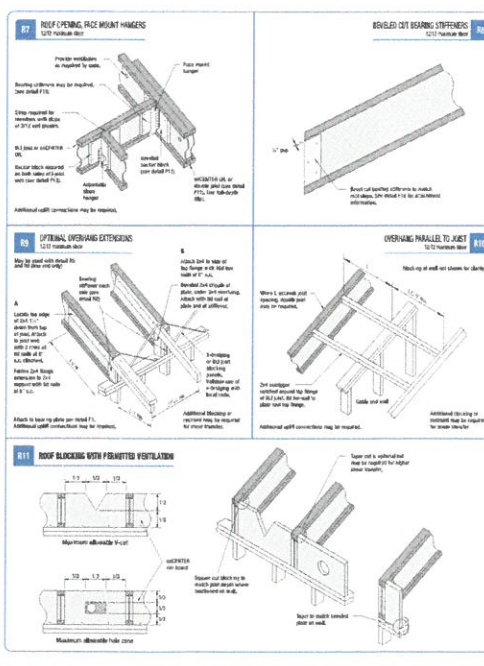
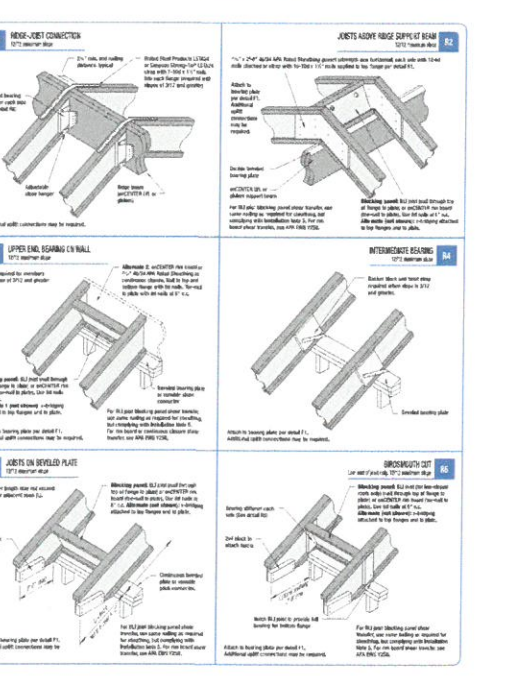
FLOOR SPANS

40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)
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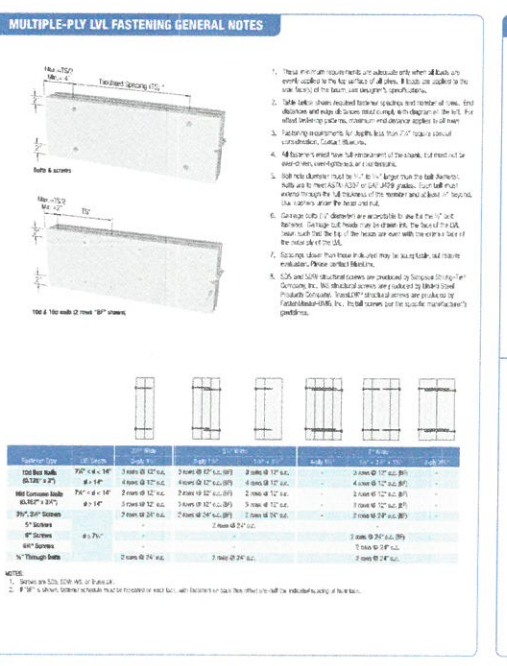
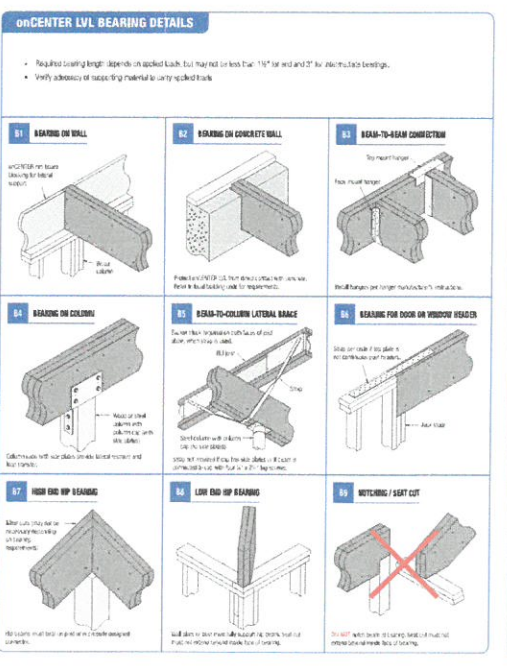
ROOF SLOPE FACTORS & PLUMB CUT INCREASES

Roof Slope	Factor	Plumb Cut Increase
1:12	1.000	0.000
2:12	1.019	0.019
3:12	1.038	0.038
4:12	1.057	0.057
5:12	1.077	0.077
6:12	1.096	0.096
7:12	1.115	0.115
8:12	1.134	0.134
9:12	1.153	0.153
10:12	1.172	0.172
11:12	1.191	0.191
12:12	1.210	0.210



HOLES

Joist Size	Max Hole Size	Min Edge Distance	Min Spacing
2x8	1 1/2"	1 1/2"	12"
2x10	1 3/4"	1 3/4"	12"
2x12	1 7/8"	1 7/8"	12"
2x14	2"	2"	12"
2x16	2 1/8"	2 1/8"	12"
2x18	2 1/4"	2 1/4"	12"
2x20	2 3/8"	2 3/8"	12"
2x22	2 1/2"	2 1/2"	12"
2x24	2 5/8"	2 5/8"	12"
2x26	2 3/4"	2 3/4"	12"
2x28	2 7/8"	2 7/8"	12"
2x30	3"	3"	12"



ALLOWABLE HORIZONTAL HOLES IN onCENTER LVL

Joist Size	Max Hole Size	Min Edge Distance	Min Spacing
2x8	1 1/2"	1 1/2"	12"
2x10	1 3/4"	1 3/4"	12"
2x12	1 7/8"	1 7/8"	12"
2x14	2"	2"	12"
2x16	2 1/8"	2 1/8"	12"
2x18	2 1/4"	2 1/4"	12"
2x20	2 3/8"	2 3/8"	12"
2x22	2 1/2"	2 1/2"	12"
2x24	2 5/8"	2 5/8"	12"
2x26	2 3/4"	2 3/4"	12"
2x28	2 7/8"	2 7/8"	12"
2x30	3"	3"	12"

BlueLinx Corporation
4300 Wilkerson Parkway
Atlanta, GA 30339
1-877-914-7770
www.bluecenter.com



ALMACENAMIENTO Y MANEJO

Proteja la humedad y el agua. Mantenga los materiales cubiertos y evite el contacto con el suelo. Evite el uso de herramientas que puedan dañar el producto. Mantenga los materiales en posición vertical y evite el contacto con el suelo. Evite el uso de herramientas que puedan dañar el producto. Mantenga los materiales en posición vertical y evite el contacto con el suelo.

PRECAUCIONES DE SEGURIDAD

Usar casco de seguridad, gafas de protección ocular y guantes de protección manual. Evitar el contacto con los ojos. Evitar el contacto con la piel. Evitar el contacto con la ropa. Evitar el contacto con el agua. Evitar el contacto con el agua.

REQUISITOS DE REFORZAMIENTO

El producto debe instalarse sobre una superficie plana y nivelada. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua.

NOTAS DE INSTALACIÓN

1. Usar un producto onCENTER en áreas con pendientes de clima y viento debe ser instalado en un ángulo de 30 grados. Evitar el uso de herramientas que puedan dañar el producto. Mantenga los materiales en posición vertical y evite el contacto con el suelo.
2. La humedad debe ser evitada en cualquier momento durante la instalación. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua.
3. Las vigas de LVL deben instalarse sobre un soporte que sea plano y nivelado. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua.
4. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua.
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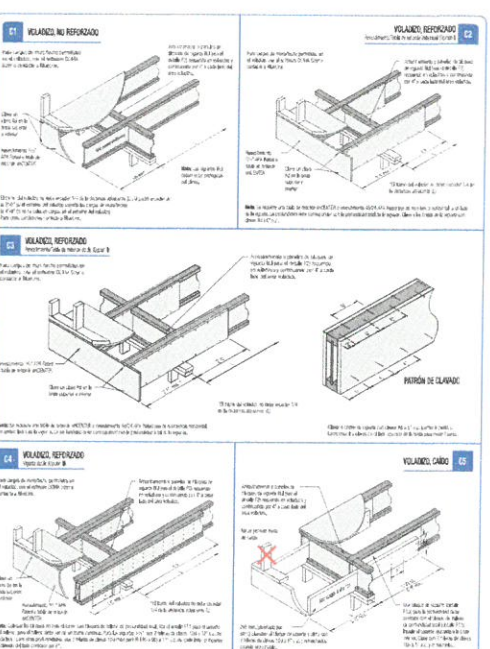
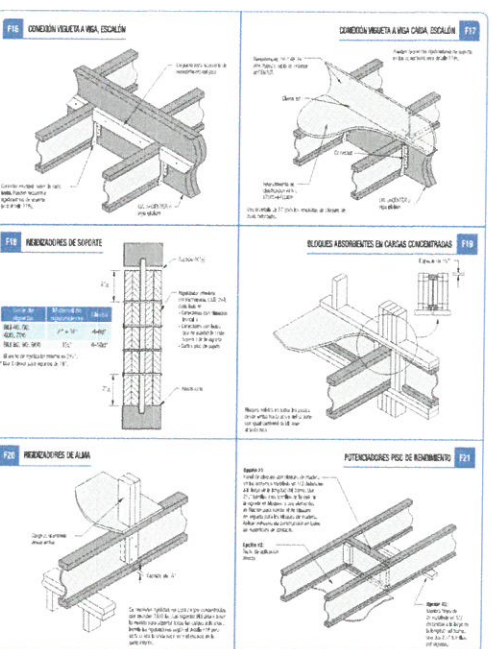
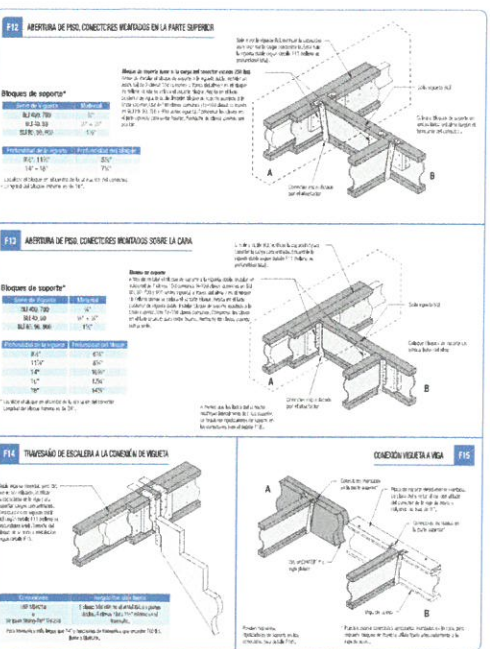
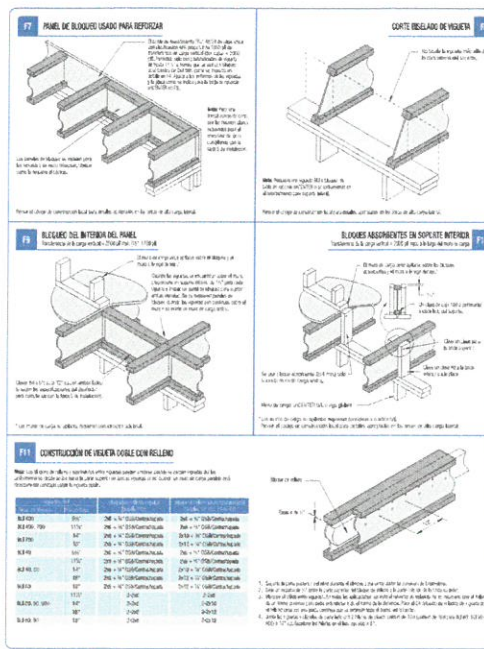
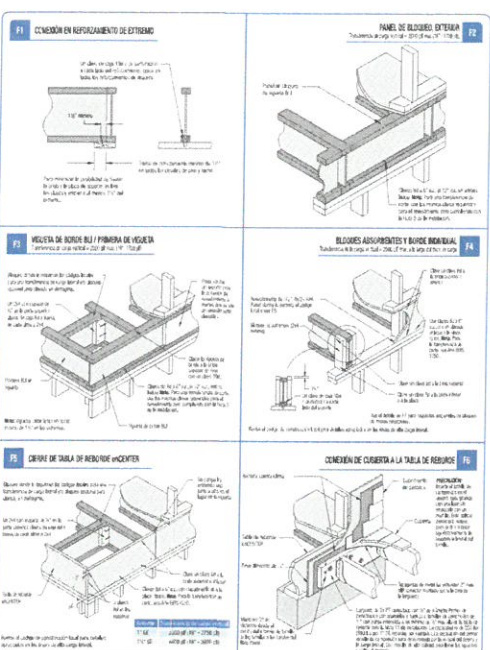
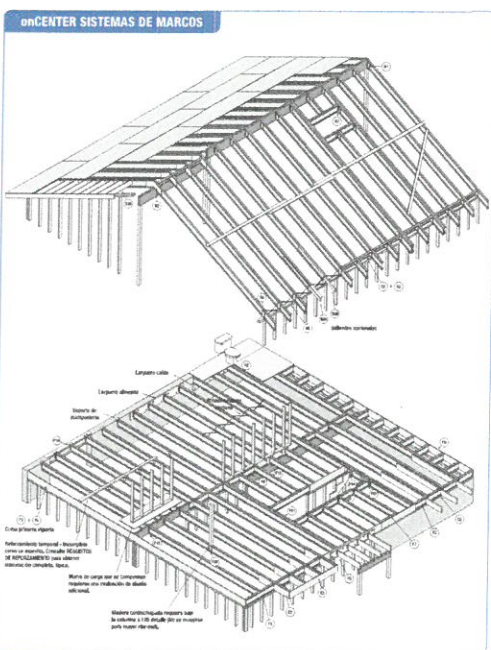
PRECAUCIONES DE LA INSTALACIÓN

Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua. Evitar el contacto con el agua.

DISTANCIAS MÁXIMAS DE LAS VIGUETAS

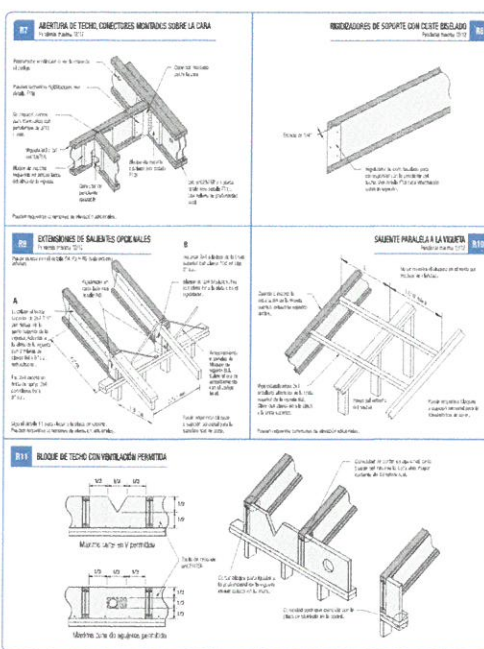
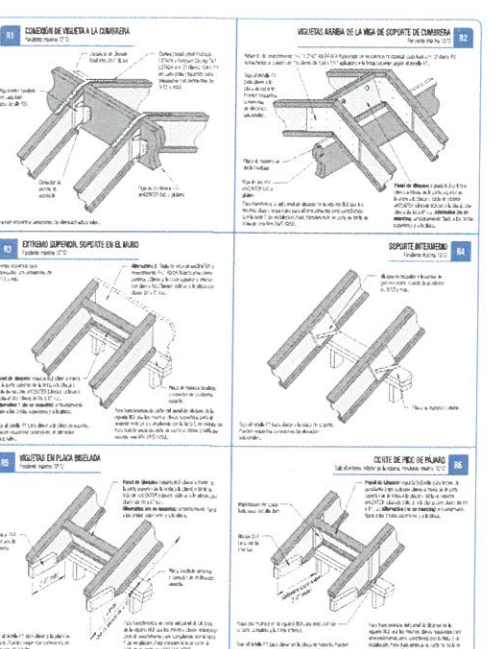
40 PSF carga viva + 10 PSF carga muerta (L/400)

Longitud (ft)	12"	16"	20"	24"	28"	32"	36"	40"	44"	48"
12	12	12	12	12	12	12	12	12	12	12
16	12	12	12	12	12	12	12	12	12	12
20	12	12	12	12	12	12	12	12	12	12
24	12	12	12	12	12	12	12	12	12	12
28	12	12	12	12	12	12	12	12	12	12
32	12	12	12	12	12	12	12	12	12	12
36	12	12	12	12	12	12	12	12	12	12
40	12	12	12	12	12	12	12	12	12	12
44	12	12	12	12	12	12	12	12	12	12
48	12	12	12	12	12	12	12	12	12	12



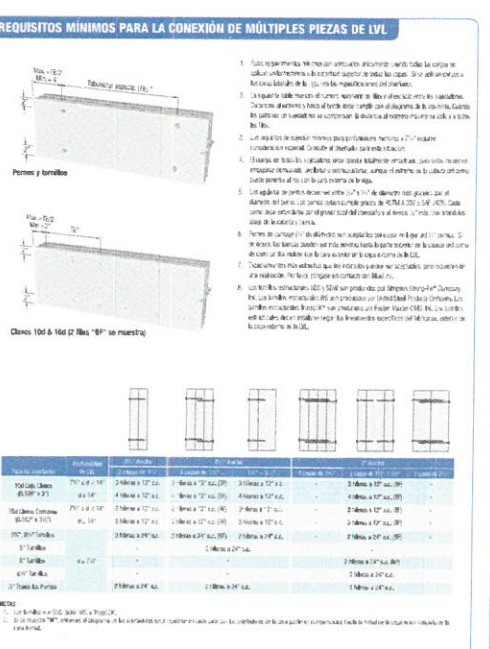
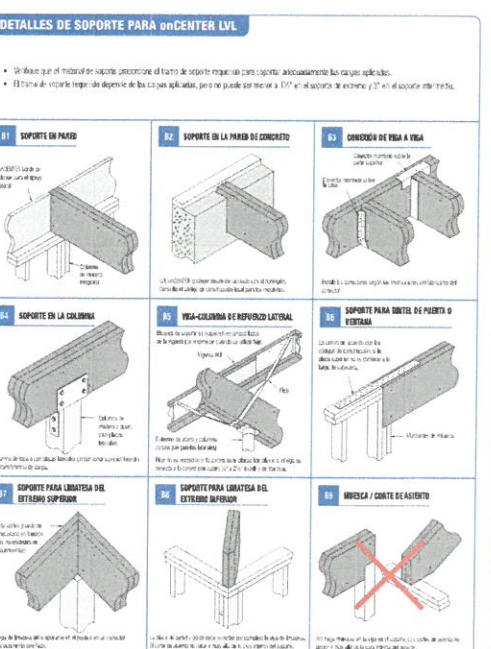
FACTORES DE TECHO DE PENDIENTE Y AUMENTA LA PLOMADA CORTE

Pendiente (%)	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
12"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
16"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
44"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00



AGUJEROS

Longitud (ft)	12"	16"	20"	24"	28"	32"	36"	40"	44"	48"
12	12	12	12	12	12	12	12	12	12	12
16	12	12	12	12	12	12	12	12	12	12
20	12	12	12	12	12	12	12	12	12	12
24	12	12	12	12	12	12	12	12	12	12
28	12	12	12	12	12	12	12	12	12	12
32	12	12	12	12	12	12	12	12	12	12
36	12	12	12	12	12	12	12	12	12	12
40	12	12	12	12	12	12	12	12	12	12
44	12	12	12	12	12	12	12	12	12	12
48	12	12	12	12	12	12	12	12	12	12



AGUJEROS HORIZONTALES PERMITIDOS EN LVL onCENTER

Profundidad de agujero (in)	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"
12"	12	12	12	12	12	12	12
16"	12	12	12	12	12	12	12
20"	12	12	12	12	12	12	12
24"	12	12	12	12	12	12	12
28"	12	12	12	12	12	12	12
32"	12	12	12	12	12	12	12
36"	12	12	12	12	12	12	12
40"	12	12	12	12	12	12	12
44"	12	12	12	12	12	12	12
48"	12	12	12	12	12	12	12

onCENTER BlueLinX Engineered Products

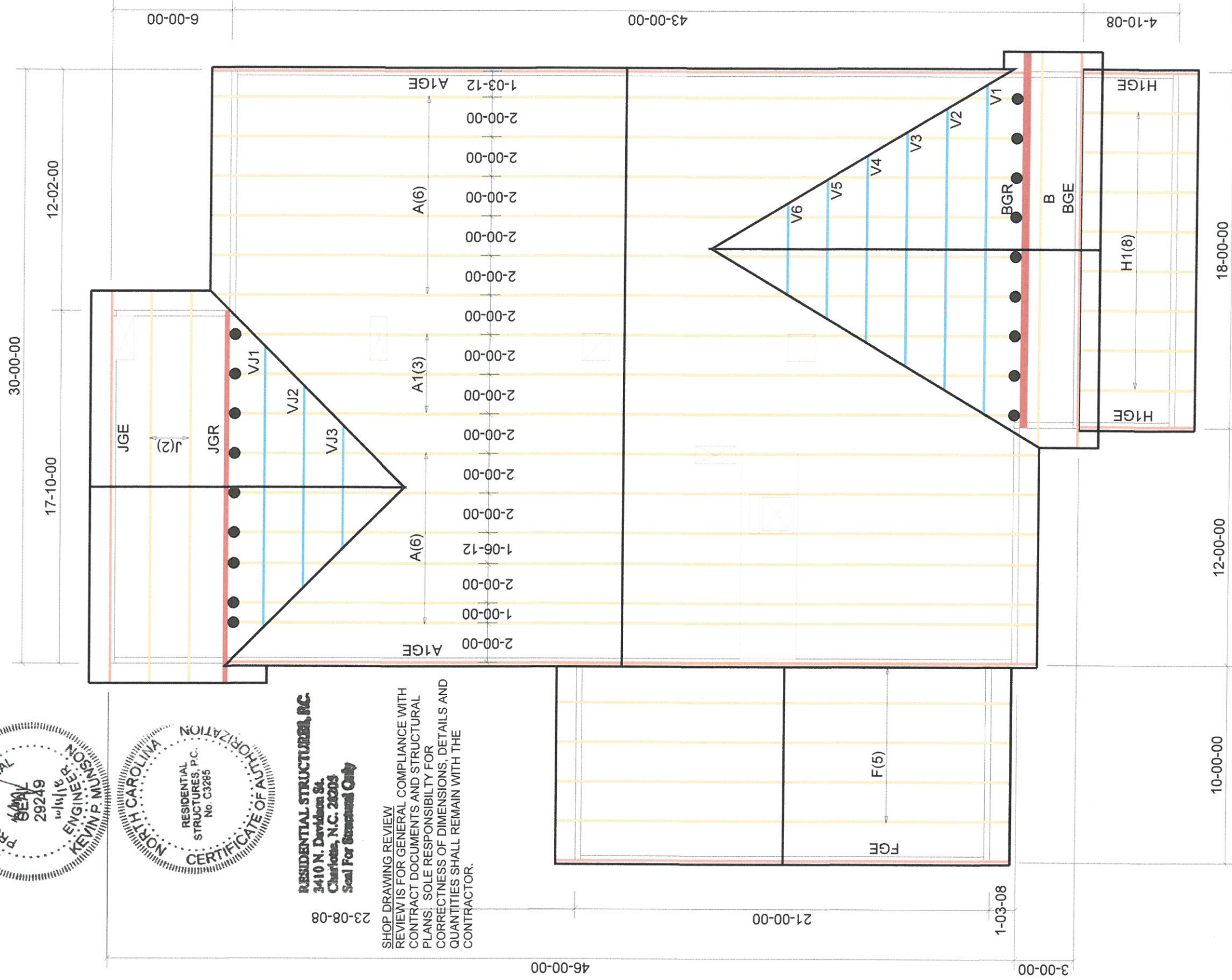
BlueLinX Corporation
4330 Wilburton Parkway
Atlanta, GA 30339
1-877-916-7770
www.bluecenter.com



RESIDENTIAL STRUCTURES, P.C.
 3410 N. Davidson St.
 Charlotte, N.C. 28205
 Seal For Structural Only

23-08-08

SHOP DRAWING REVIEW
 REVIEW IS FOR GENERAL COMPLIANCE WITH
 CONTRACT DOCUMENTS AND STRUCTURAL
 PLANS. SOLE RESPONSIBILITY FOR
 CORRECTNESS OF DIMENSIONS, DETAILS AND
 QUANTITIES SHALL REMAIN WITH THE
 CONTRACTOR.

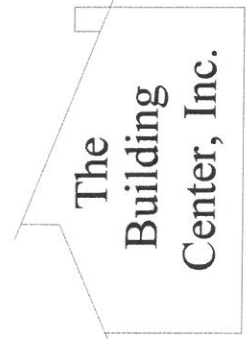


Hangers	
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■	##) #####
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⊗	##) #####
∟	##) #####

ROOF TRUSS LAYOUT
 SCALE: 3/16" = 1'0"

All stick frame loads from above MUST transfer to bearing walls or structural beams below (U.N.O.)

Plumb Drops are estimated only. Trusses may need slight adjustment to provide full clearance while maintaining specified spacing.



THE BUILDING CENTER, INC.
 2591 Jenkins Dairy Rd
 PH. (704) 824-8182
 FAX. (704) 824-2232

Client: **True Homes**

Job Desc: **JASPER - 2317**

Site Information: **Lot 72 - CLK**

Salesman: _____ Date: **10/1/2018**

Drafter: **TPC** Job #: **18101894**

SHOP DRAWING APPROVAL
 THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

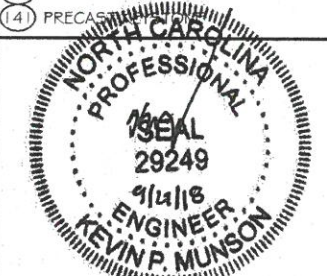
TrueHomes

IT'S ALL ABOUT U

THE 'JASPER'
CROSS LINK
LOT # 72
INTEGRITY COLLECTION

TrueHomes
IT'S ALL ABOUT U
2649 Breckridge Centre Dr.
Suite 104
Monroe, N.C. 28110
704-271-1191

ELECTRICAL LEGEND		GENERAL NOTES										ELEVATION KEY NOTES		TABLE OF CONTENTS	
	EXT. CARRIAGE LIGHT	1. PLANS PERMITTED IN NORTH CAROLINA ARE DESIGNED TO MEET THE 2012 NORTH CAROLINA RESIDENTIAL BUILDING CODE, LATEST EDITION W/SEPT 2013 AMENDMENTS, AS ISSUED BY THE STATE OF NORTH CAROLINA, AND PLANS PERMITTED IN SOUTH CAROLINA DESIGNED TO MEET 2015 INTERNATIONAL RESIDENTIAL BUILDING CODE AS ISSUED BY THE STATE OF SOUTH CAROLINA, WITH MODIFICATIONS AS REQUIRED TO MEET LOCAL BUILDING CODES FOR EACH APPLICABLE JURISDICTION.	6. ALL EXTERIOR WALLS & INTERIOR WALLS TO BE 2X4 STUDS 16" O.C. (U.N.O.), INTEGRITY COLLECTION INTERIOR NON-LOAD BEARING WALLS 24" O.C. (U.N.O.)	13. BEAM BEARING LOCATIONS. WALLS TO BE FRAMED WITH STUDS AT 16" O.C. AT KITCHEN WALLS WITH CABINETS AND AT TUB/SHOWER LOCATIONS (PER MANUF.).	18. STAIR TREAD DESIGN TO BE VERIFIED WITH SELECTIONS AND POS'S.	115. FLASHING	C5. COVER SHEET								
	OUTLET 220V	2. DO NOT SCALE DIMENSIONS FROM PRINTS. USE DIMENSIONS GIVEN OR CONSULT PRODUCTION CAD DEPARTMENT FOR FURTHER CLARIFICATION.	7. ALL STRUCTURAL FRAMING LUMBER EXPOSED DIRECTLY TO THE WEATHER OR BEARING DIRECTLY ON MASONRY OR CONCRETE SHALL BE TREATED. ALL WOOD IN CONTACT WITH THE GROUND MUST BE GROUND-CONTACT APPROVED. ALL WOOD EXPOSED DIRECTLY TO THE WEATHER SHALL BE PROTECTED TO PREVENT THE OCCURRENCE OF ROT.	14. ALL COMMON CEILING BETWEEN GARAGE TO HOUSE PROVIDE 5/8" TYPE X GWB PER GARAGE SEPARATION REQUIREMENTS PER IRC. ALL JOINTS TO BE TAPED & MUDDED FOR FIRE SEPARATION. ALL STRUCTURES SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRE NOT LESS THAN 1/2" GYP OR EQ. PER SECTION R302.6	19. PROVIDE 1 1/2" FLAT WALL FRAMING FOR ALL HVAC CHASES UNLESS NOTED OTHERWISE. SEE FRAMING SHEETS/CS2 FOR ADDITIONAL NOTES PER LOCAL CODES.	116. VINYL SHUTTER	A2.1. FIRST FLOOR PLAN								
	OUTLET 110V	3. ALL DIMENSIONS ARE FROM WALL FRAMING. NO FINISHED DIMENSIONS ARE GIVEN.	8. ALL ANGLED WALLS ARE AT 45 DEGREES UNLESS NOTED OTHERWISE.	15. SEPARATE GARAGE FROM ATTIC WITH 5/8" TYPE X GWB SCUTTLE MINIMUM AND 2X SCUTTLE FRAMING MATERIAL.	20. FOR TRADITIONS, ELEMENTS, INTEGRITY, AND TRIBUTE SERIES, DOORS SHOULD BE LOCATED 4" OFF ADJACENT WALLS OR CENTERED IN THE WALL UNLESS NOTED OTHERWISE. DESIGNER SERIES SHOULD BE LOCATED 6" OFF ADJACENT WALLS OR CENTERED IN THE WALL UNLESS NOTED OTHERWISE.	117. BRICKMOLD TRIM	A2.2. SECOND FLOOR PLAN								
	OUTLET 110V WATER PROOF	4. PROVIDE 2 STUDS BETWEEN ALL WINDOWS.	9. USE WINDOW NOMINAL SIZES FOR ROUGH OPENINGS (APPLIES TO TWIN AND TRIPLE WINDOWS). SEE ELEVATIONS FOR WINDOW HEADER HEIGHTS.	16. HEEL HEIGHTS: SEE ELEVATIONS SHEETS FOR TOP OF FASCIA DIMENSIONS TO GATHER PROPER HEEL HEIGHT REQUIREMENTS.	21. ALL HOMES TREATED WITH BORA-CARE TERMITE TREATMENT.	118. 1X4 TRIM BOARD	A3.1. FRONT & REAR ELEVATIONS								
	OUTLET 110V GFI	5. ACCESS DOORS BETWEEN HOUSE AND GARAGE AREAS TO BE 20-MINUTE FIRE RATED.	10. DIMENSIONS ARE FROM FACE OF STUDS.	17. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES AND PER MANUFACTURER SPECS.	22. SMURF DOORS ARE 21 1/2" x 39" NOMINAL (R.O. 22 1/2" x 40").	119. 1X6 TRIM BOARD	A3.2. LEFT & RIGHT ELEVATIONS								
	SWITCHED RECEPTACLE				23. SHEATH WALLS AND CEILINGS w/ OSB PER SPECS. IN FURN. ROOM LOCATIONS	120. BRICKMOLD TRIM	A4.1. STAIR SECTIONS								
	PHONE					121. 1X8 TRIM BOARD	E1.1. FIRST FLOOR ELECTRICAL PLAN								
	SMOKE / CO DETECTOR					122. 1X8 TRIM BOARD	E1.2. SECOND FLOOR ELECTRICAL PLAN								
	SMOKE DETECTOR					123. 1X6 FRIEZE BOARD	S1. FOUNDATION PLAN								
	SWITCH					124. 1X10 FRIEZE BOARD	S2.1. FIRST FLOOR FRAMING								
	3-WAY SWITCH					125. 1-1/2" THICK STONE CAP	S3.1. ROOF FRAMING PLAN								
	4-WAY SWITCH					126. ROWLOCK SILL	GN. GENERAL STRUCTURAL NOTES								
	SPEAKER SWITCH					127. BRICK JACK ARCH	AN. AREA NOTES								
	THERMOSTAT					128. SOLDIER COURSE	D1. TYP. FOUNDATION DETAILS								
	CABLE TV					129. PRECAST	D3. TYP. FLASHING DETAIL								
	CEILING LIGHT						D4. TYP. PORTAL FRAME DETAIL - PFH								
	COMPACT FLUORESCENT LIGHT GU24 SOCKET						D5. TYP. FIREPLACE DETAILS								
	JUNCTION LIGHT						D5.1. TYP. STAIR DETAILS								
	SPEAKER						D5.2. TYP. STAIR DETAILS								
	EXHAUST FAN						D5.3. TYP. STAIR DETAILS								
	EXHAUST FAN / LIGHT						D8. TYP. WALL FRAMING DETAILS								
	FLOOD LIGHT						D9. TYP. CORNICE DETAILS								
	UNDER CABINET LIGHT						D10. TRIM DETAILS								
	PUSH BUTTON														
	ELECTRIC PANEL														
	CAN LIGHT														
	MINI-CAN LIGHT														
	PENDANT LIGHT														
	PREWIRE														
	CEILING FAN PRE-WIRE														
ELECTRICAL TO BE PLACED PER CODE IN THE FIELD.															



RESIDENTIAL STRUCTURES, P.C.
3410 N. Davidson St.
Charlotte, N.C. 28205
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REVISION LOG	
1. DATE:	DRAWN BY:
2. DATE:	DRAWN BY:
3. DATE:	DRAWN BY:
4. DATE:	DRAWN BY:

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LOT # 72

JASPER
2317

HARNETT

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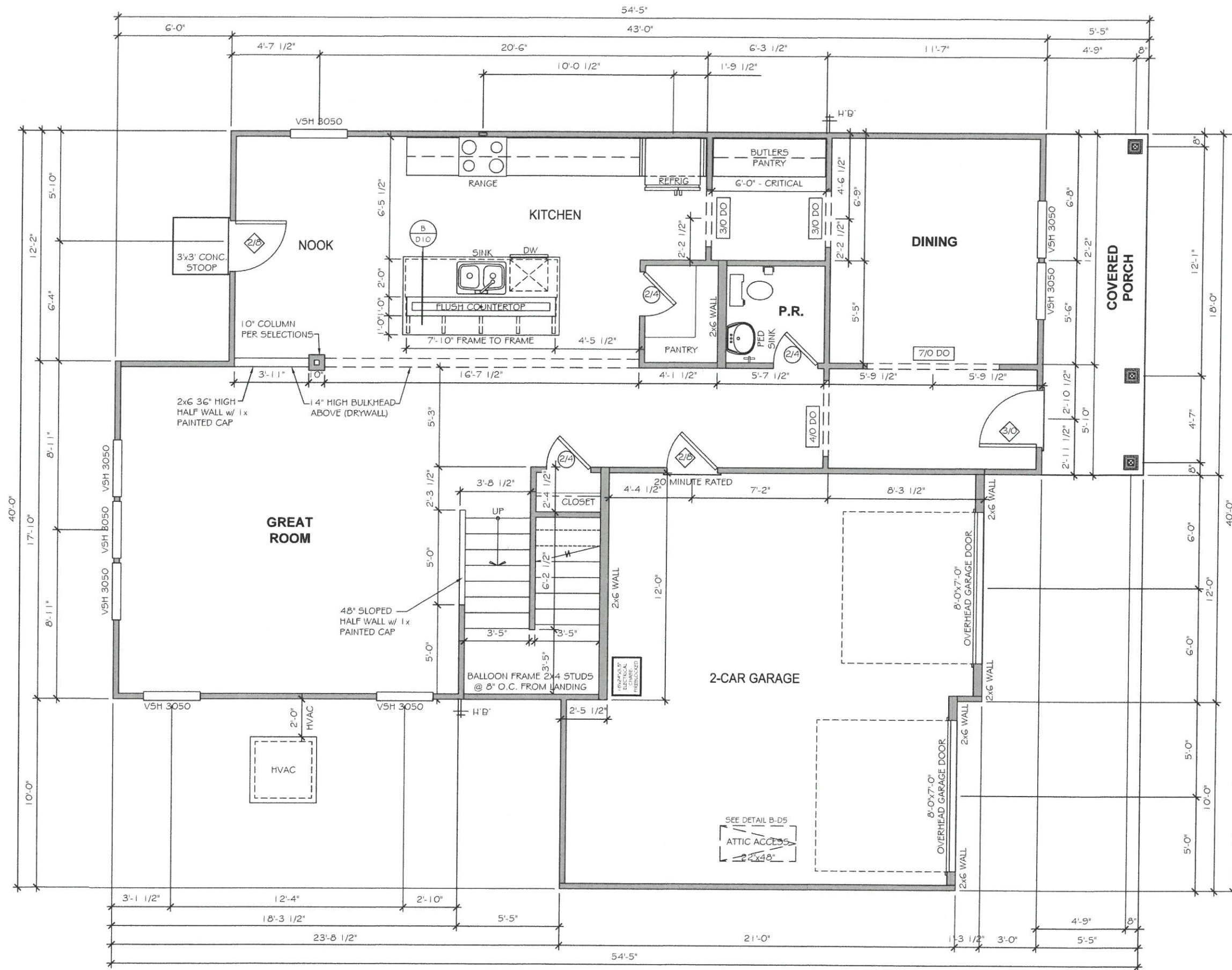
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WRR

DATE:
9-20-16

SCALE:
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SHEET:
CS



FIRST FLOOR PLAN

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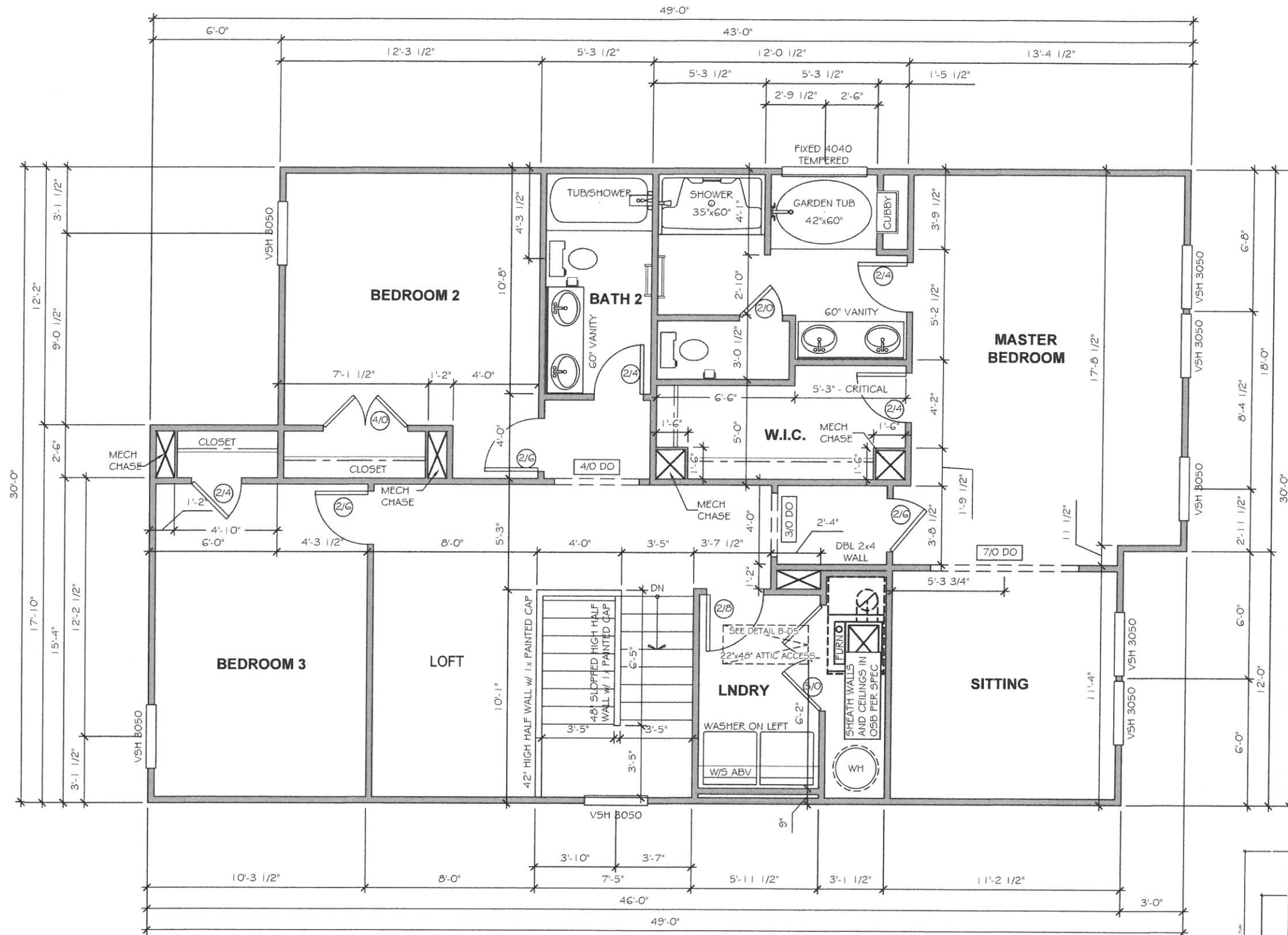
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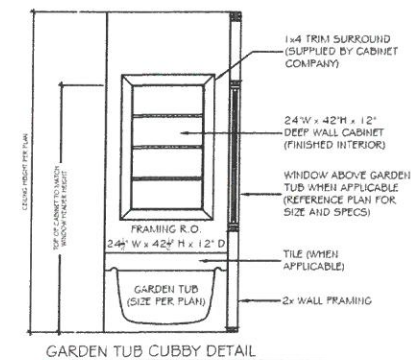
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SECOND FLOOR PLAN



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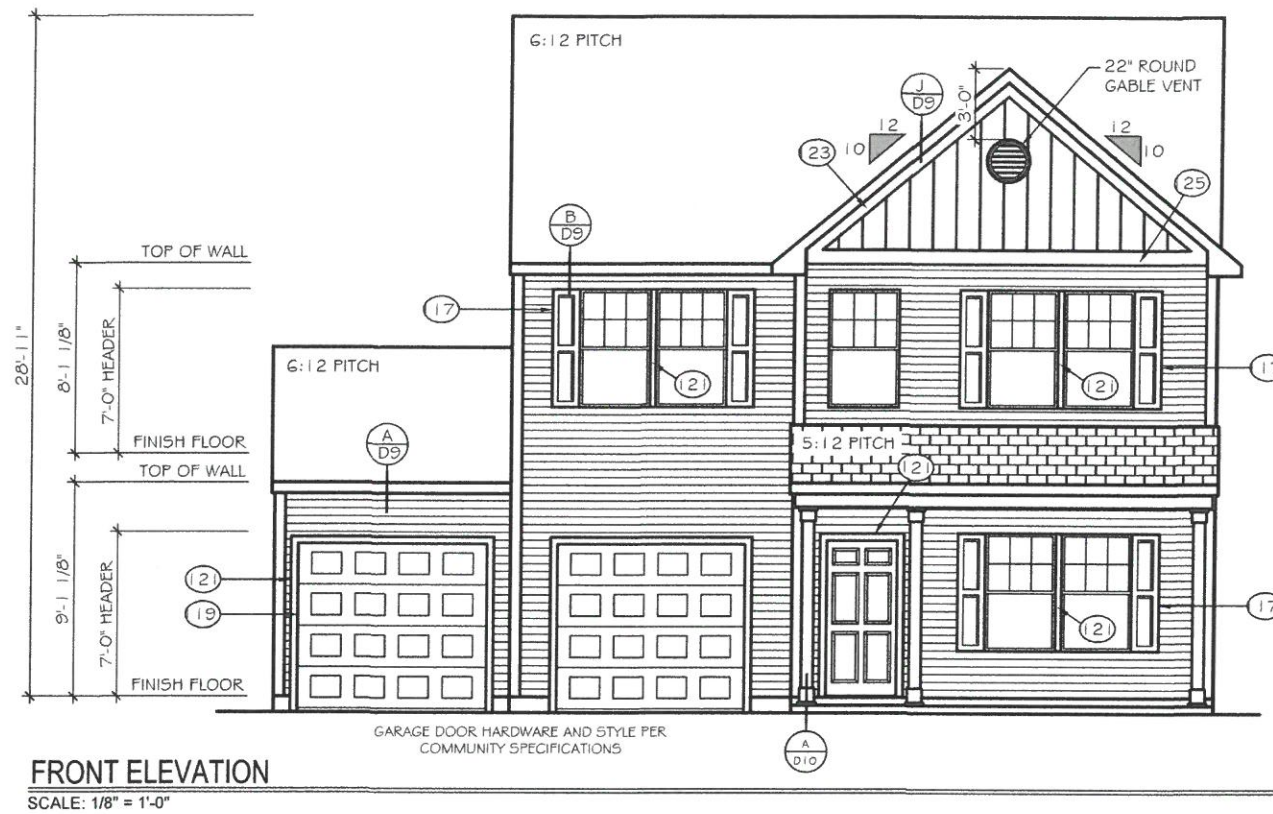
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EXTERIOR MATERIAL LEGEND			
	B-N-B SIDING		STONE
	SHAKE SIDING		METAL ROOF
	HORIZONTAL SIDING		ROOF SHINGLE
	BRICK		SCALLOP SIDING

- KEY NOTES**
- (19) FLASHING
 - (17) VINYL SHUTTER
 - (20) BRICKMOLD TRIM
 - (12) 1x4 TRIM BOARD
 - (23) 1x6 TRIM BOARD
 - (25) 1x8 TRIM BOARD
 - (26) 1x10 FRIEZE BOARD
 - (31) 1-1/2" THICK STONE CAP
 - (35) ROWLOCK SILL
 - (37) BRICK JACK ARCH
 - (39) SOLDIER COURSE
 - (41) PRECAST KEYSTONE
- 1x4 TRIM WHERE SHOWN AT WINDOWS AND DOORS UNLESS OTHERWISE NOTED
- SEE ROOF FRAMING PLANS FOR OVERHANG DIMENSIONS AND DORMER LOCATIONS

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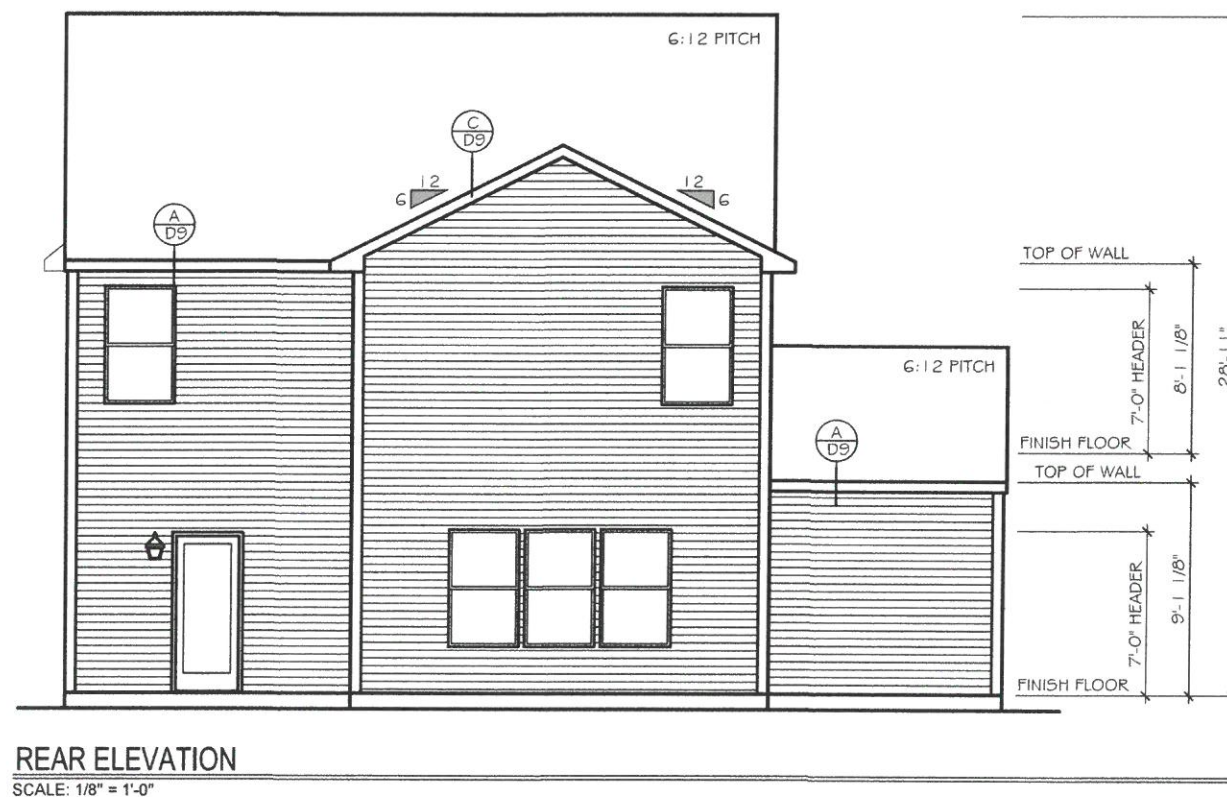
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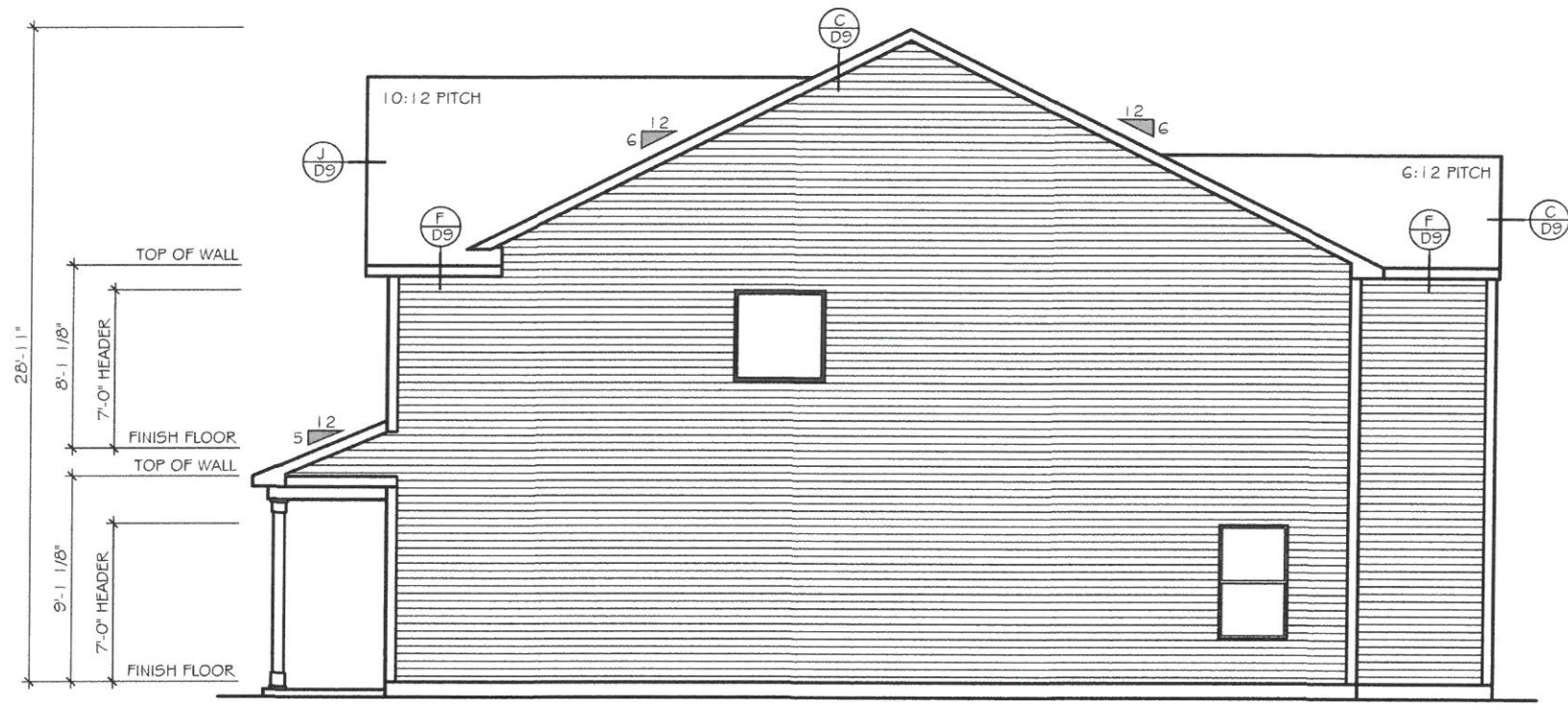
DATE:
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SCALE:
1/8" = 1'-0"

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SHC



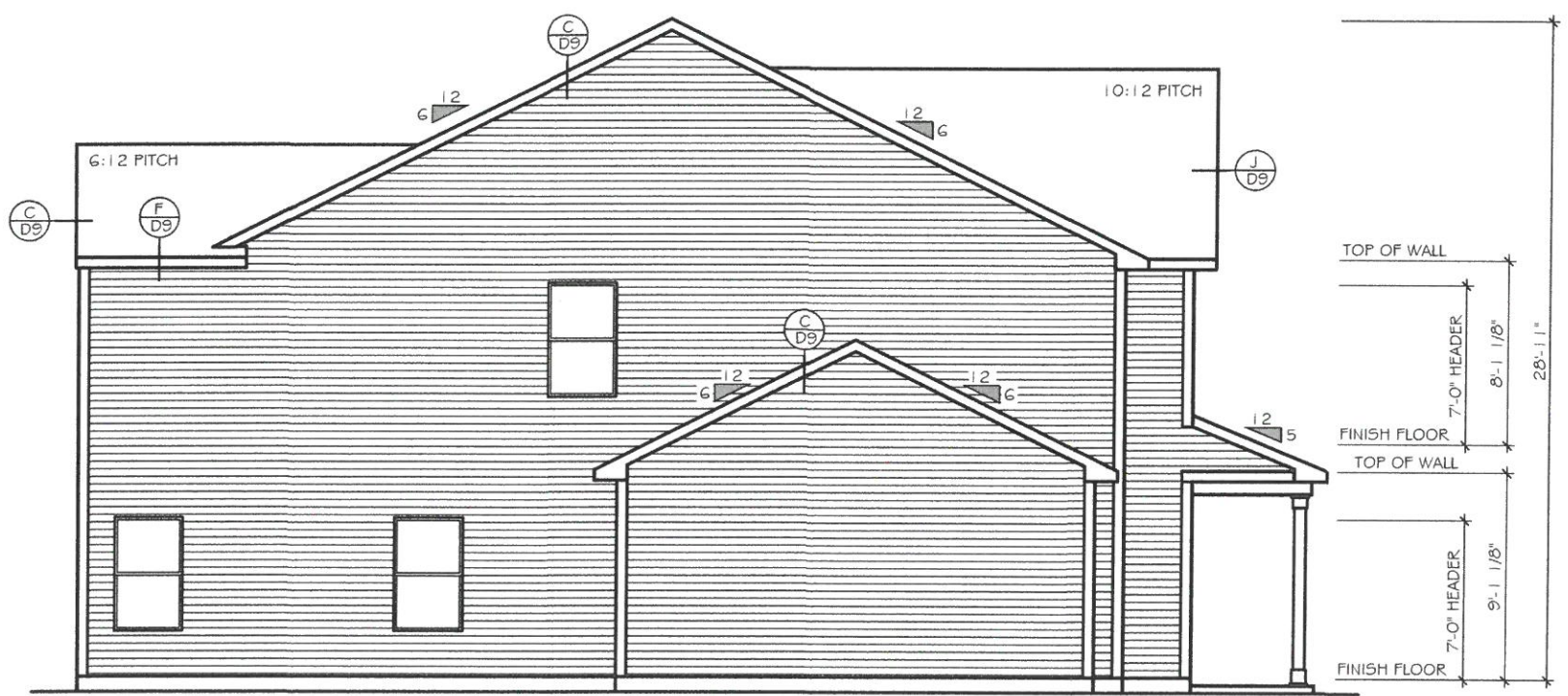
SHEET:
A3.1



RIGHT ELEVATION
SCALE: 1/8" = 1'-0"

EXTERIOR MATERIAL LEGEND			
	B-N-B SIDING		STONE
	SHAKE SIDING		METAL ROOF
	HORIZONTAL SIDING		ROOF SHINGLE
	BRICK		SCALLOP SIDING

- KEY NOTES**
- (15) FLASHING
 - (17) VINYL SHUTTER
 - (20) BRICKMOLD TRIM
 - (21) 1X4 TRIM BOARD
 - (23) 1X6 TRIM BOARD
 - (25) 1X8 TRIM BOARD
 - (28) 1X10 FRIEZE BOARD
 - (31) 1-1/2" THICK STONE CAP
 - (35) ROWLOCK SILL
 - (37) BRICK JACK ARCH
 - (39) SOLDIER COURSE
 - (41) PRECAST KEYSTONE
- 1x4 TRIM WHERE SHOWN AT WINDOWS AND DOORS UNLESS OTHERWISE NOTED
- SEE ROOF FRAMING PLANS FOR OVERHANG DIMENSIONS AND DORMER LOCATIONS



LEFT ELEVATION
SCALE: 1/8" = 1'-0"

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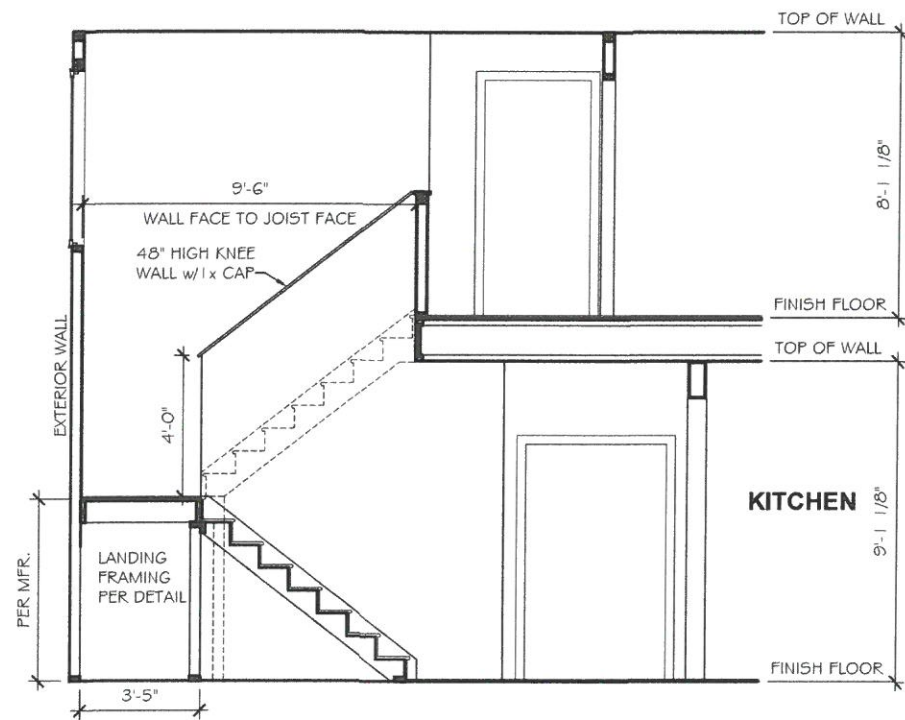
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DATE:
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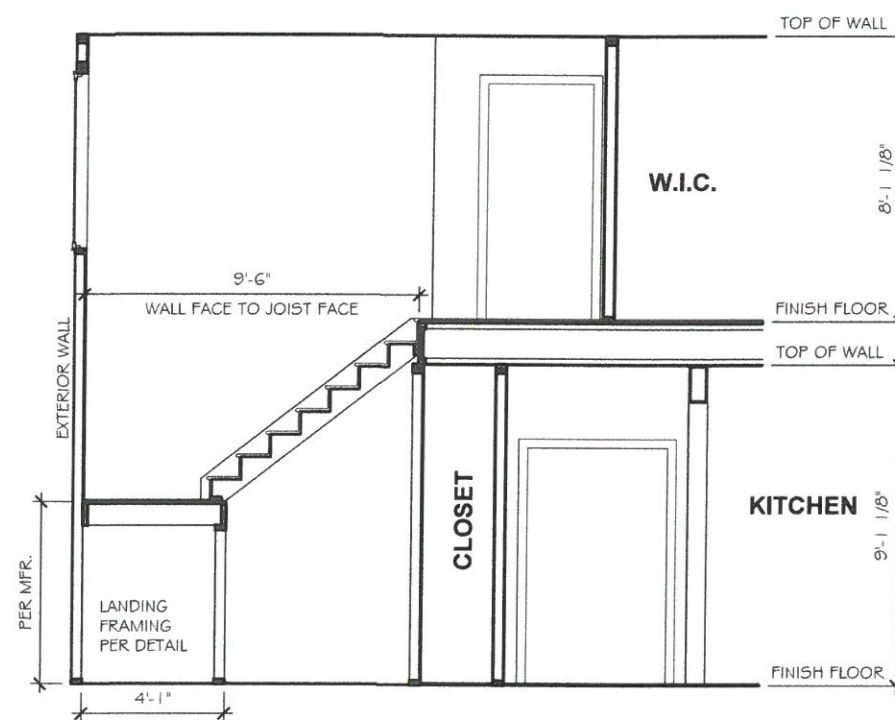
SCALE:
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CHECKED BY:
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SHEET:
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STAIR SECTION
SCALE: 3/16" = 1'-0"



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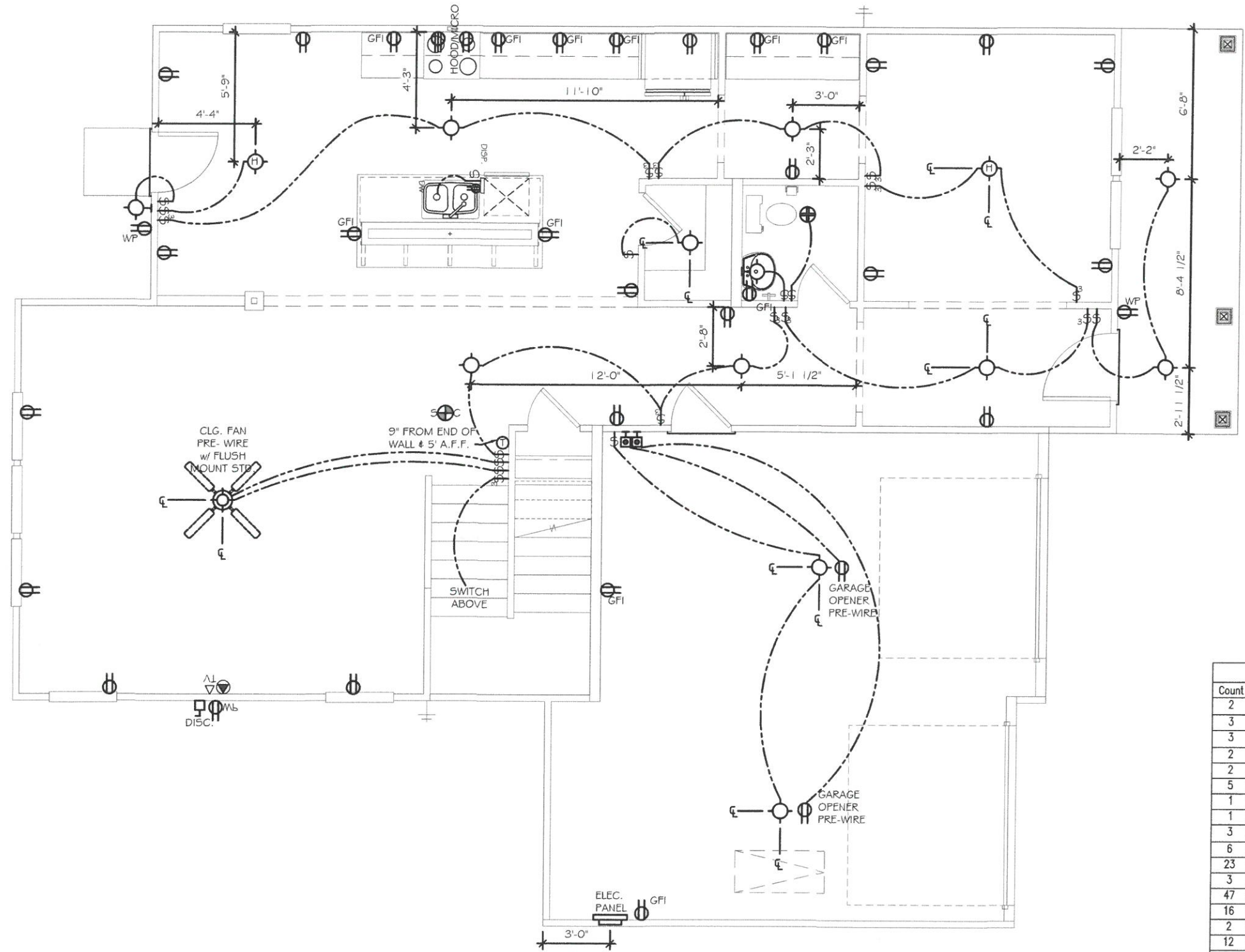
DATE:
9-20-16

SCALE:
AS SHOWN

CHECKED BY:
SHC

SHEET:
A4.1

CHECK SELECTIONS FOR CPI LAYOUT. ALL TV, PHONE, CABLE, AUDIO, AND SECURITY SYSTEM OUTLETS WILL BE LOCATED PER CPI LAYOUT, REGARDLESS OF WHETHER TV AND PHONE ARE SHOWN.



ELECTRICAL		
Count	Name	Visibility1
2	Ceiling Fan 1.1	w/ Flush Mount Std.
3	Detectors	Smoke Detector
3	Detectors	Smoke/Carbon Monoxide Detector
2	Jacks	Thermostat
2	Jacks	Phone Jack
5	Jacks	TV Jack
1	Lights	Can Light VP
1	Lights	Exhaust Fan
3	Lights	Exhaust Fan/Light
6	Lights	Carriage Light
23	Lights	Ceiling Light
3	Receptacle	WP
47	Receptacle	110V
16	Receptacle	GFI
2	switch	Push Button
12	switch	3-Way Switch
30	switch	Single Pole Switch

FIRST FLOOR ELECTRICAL PLAN

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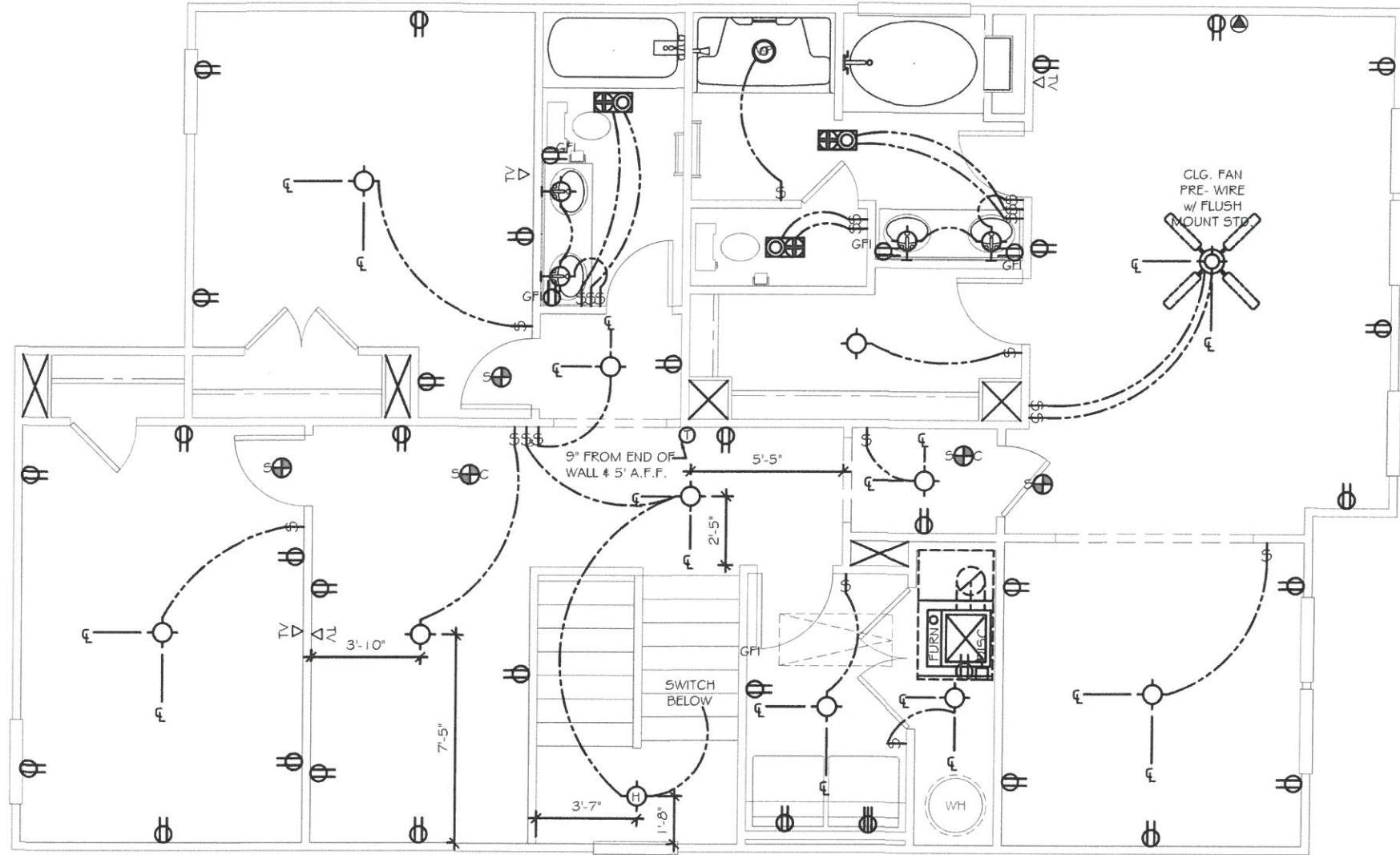
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SHEET:
E1.1

CHECK SELECTIONS FOR CPI LAYOUT. ALL TV, PHONE, CABLE, AUDIO, AND SECURITY SYSTEM OUTLETS WILL BE LOCATED PER CPI LAYOUT, REGARDLESS OF WHETHER TV AND PHONE ARE SHOWN.



SECOND FLOOR ELECTRICAL PLAN

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SHEET:
E1.2

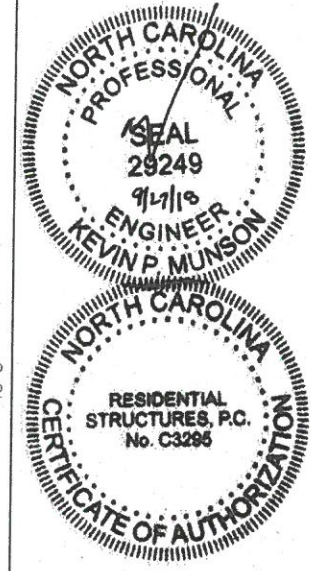
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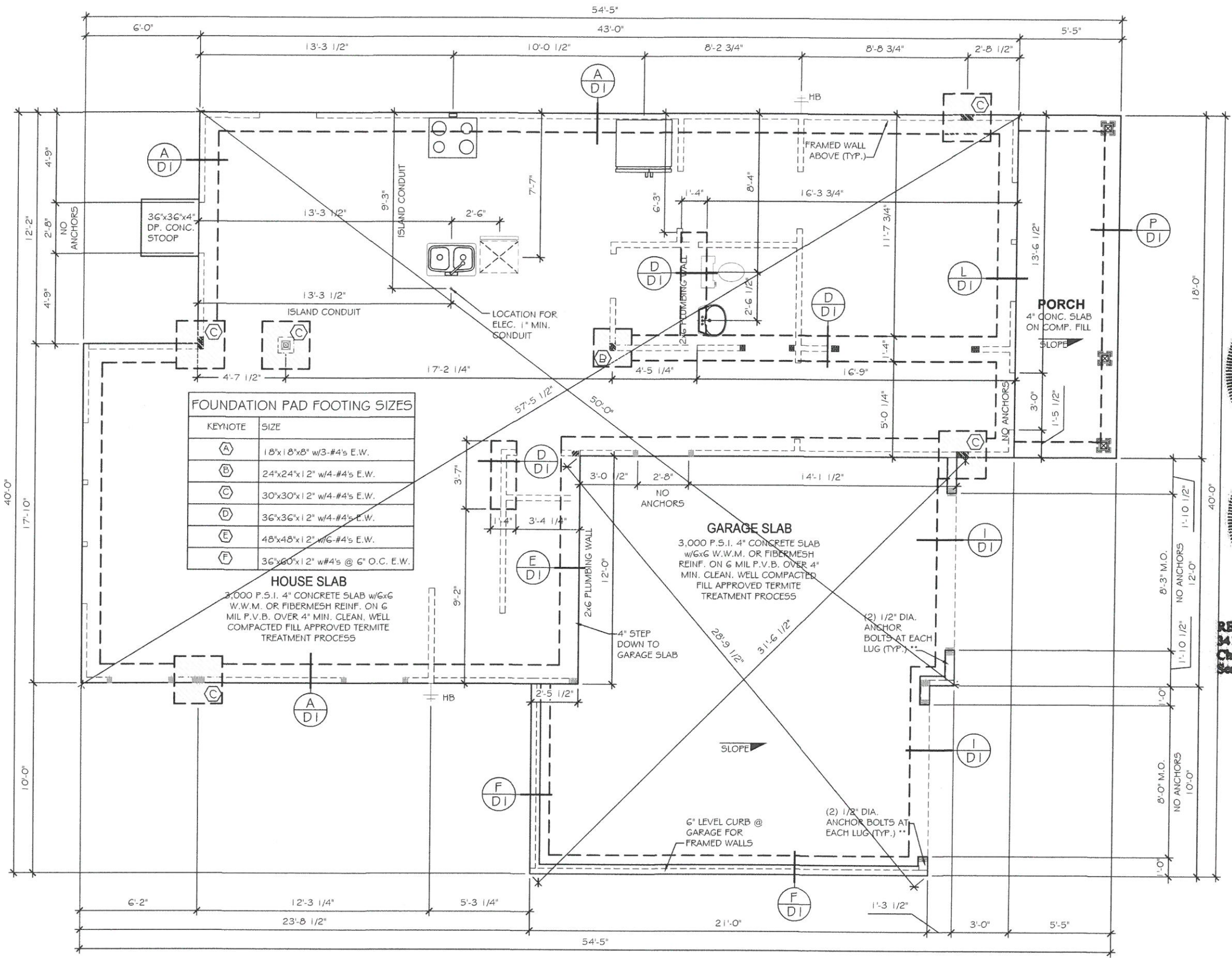
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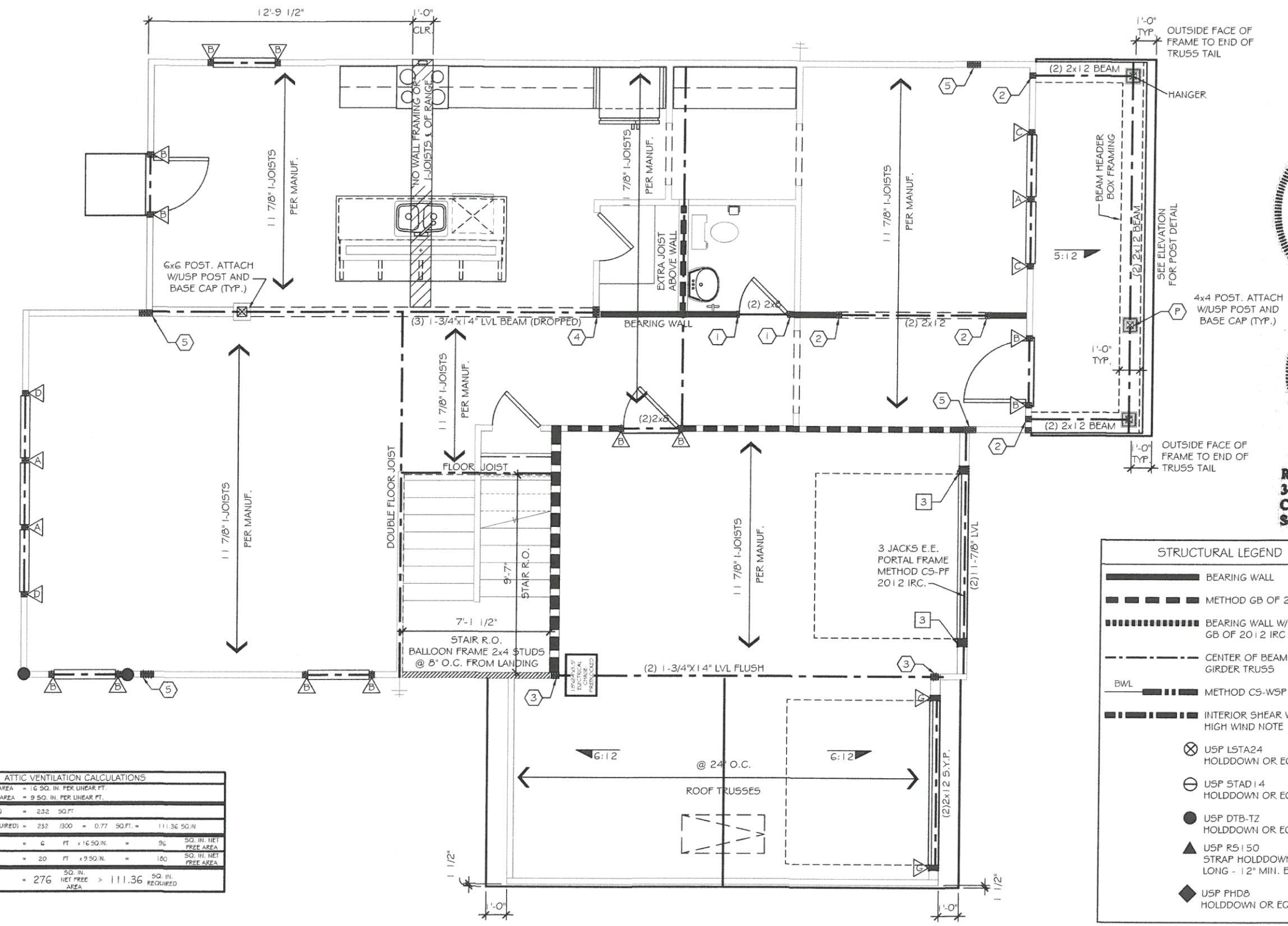
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S1



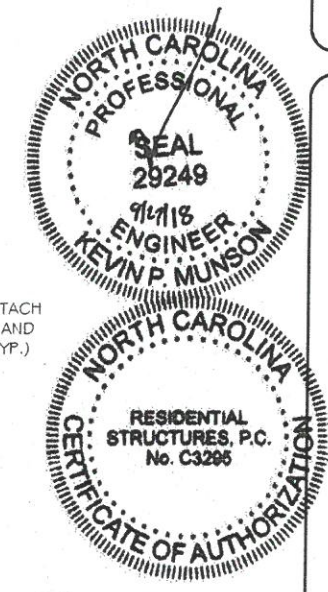
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MONO SLAB FOUNDATION PLAN



ATTIC VENTILATION CALCULATIONS			
RIDGE VENT NET FREE AREA	=	16 SQ. IN. PER LINEAR FT.	
SOFFIT VENT NET FREE AREA	=	9 SQ. IN. PER LINEAR FT.	
ATTIC AREA (TOTAL)	=	232 SQ. FT.	
ATTIC VENTILATION (REQUIRED)	=	232 / 300 = 0.77 SQ. FT. =	111.36 SQ. IN.
RIDGE VENT	=	6 FT x 16 SQ. IN. =	96 SQ. IN. NET FREE AREA
SOFFIT VENT	=	20 FT x 9 SQ. IN. =	180 SQ. IN. NET FREE AREA
TOTAL	=	276 SQ. IN. NET FREE AREA	> 111.36 SQ. IN. REQUIRED



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STRUCTURAL LEGEND	
	BEARING WALL
	METHOD GB OF 2012 IRC
	BEARING WALL W/ METHOD GB OF 2012 IRC
	CENTER OF BEAM / JOIST / GIRDER TRUSS
	METHOD C5-WSP (UNO)
	INTERIOR SHEAR WALL PER HIGH WIND NOTE 1.C
	USP L5TA24 HOLDDOWN OR EQ.
	USP STAD 14 HOLDDOWN OR EQ.
	USP DTB-T2 HOLDDOWN OR EQ.
	USP R5150 STRAP HOLDDOWN (36" LONG - 12" MIN. END LAP)
	USP PHD8 HOLDDOWN OR EQ.

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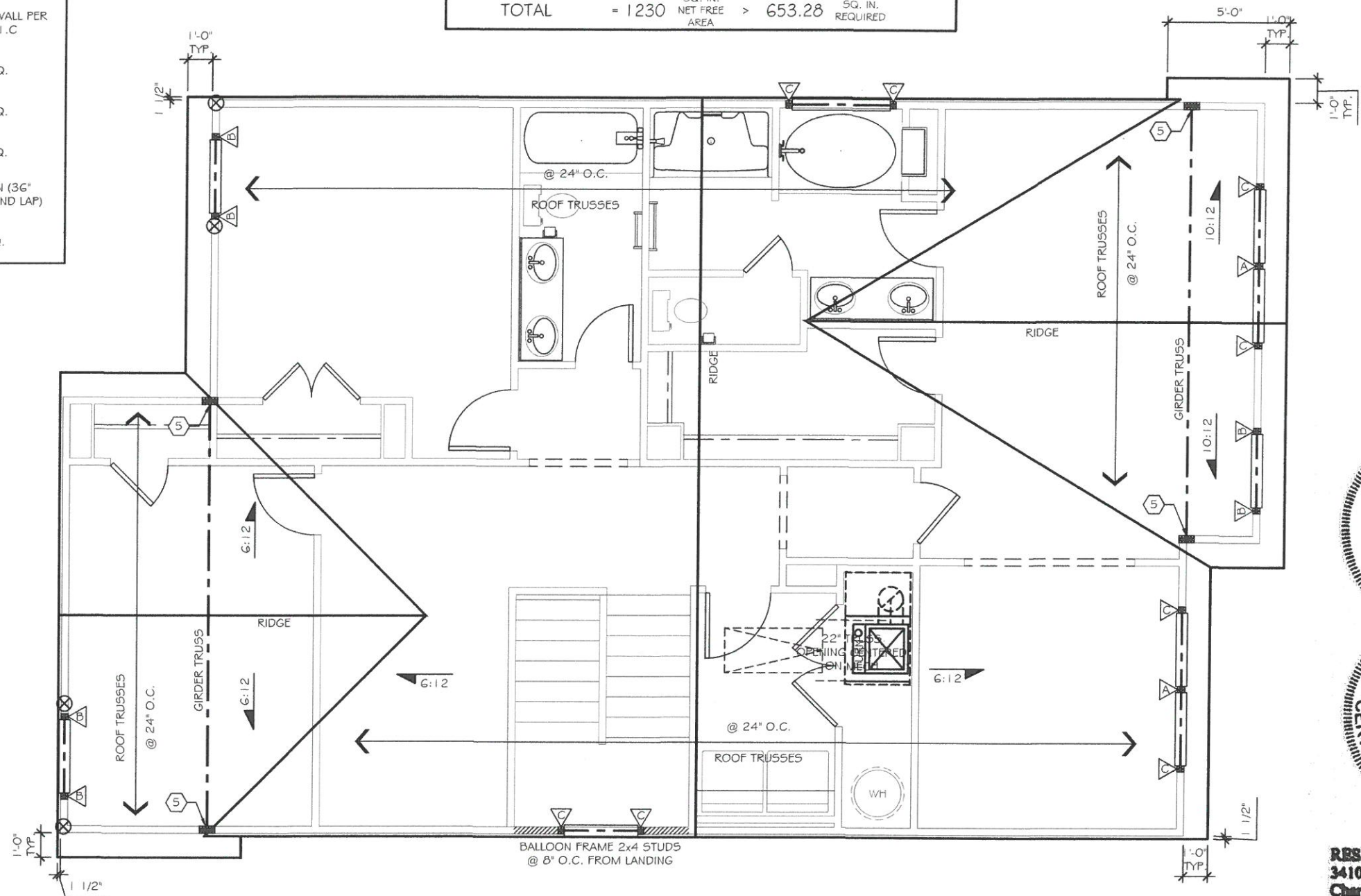
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FLOOR FRAMING PLAN

STRUCTURAL LEGEND	
	BEARING WALL
	METHOD GB OF 2012 IRC
	BEARING WALL W/ METHOD GB OF 2012 IRC
	CENTER OF BEAM / JOIST / GIRDER TRUSS
	METHOD CS-WSP (UNO)
	INTERIOR SHEAR WALL PER HIGH WIND NOTE 1.C
	USP L5TA24 HOLDDOWN OR EQ.
	USP STAD 14 HOLDDOWN OR EQ.
	USP DTB-T2 HOLDDOWN OR EQ.
	USP R5150 STRAP HOLDDOWN (36" LONG - 12" MIN. END LAP)
	USP PHD8 HOLDDOWN OR EQ.

ATTIC VENTILATION CALCULATIONS			
RIDGE VENT NET FREE AREA	=	16 SQ. IN. PER LINEAR FT.	
SOFFIT VENT NET FREE AREA	=	9 SQ. IN. PER LINEAR FT.	
ATTIC AREA (TOTAL)	=	1361 SQ. FT.	
ATTIC VENTILATION (REQUIRED)	=	$1361 / 300 = 4.54$	SQ. FT. = 653.28 SQ. IN.
RIDGE VENT	=	42 FT x 16 SQ. IN.	= 672 SQ. IN. NET FREE AREA
SOFFIT VENT	=	62 FT x 9 SQ. IN.	= 558 SQ. IN. NET FREE AREA
TOTAL	=	1230 SQ. IN. NET FREE AREA	> 653.28 SQ. IN. REQUIRED



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ROOF FRAMING PLAN

INSULATION REQUIREMENTS FOR 2012 NORTH CAROLINA ENERGY CODE (PRESCRIPTIVE METHOD)

PER SECTION 401 TABLE 402.1.1 (INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENTS) OF THE 2012 NORTH CAROLINA ENERGY CODE, BELOW ARE THE REQUIRED INSULATION AND FENESTRATION REQUIREMENTS

HOUSE COMPONENT	MIN INSULATION R-VALUE	MAX U-FACTOR & SHGC FACTOR FOR ALL WINDOW & DOORS
SLAB ON GRADE FOUNDATIONS	R-10 RIDGED INSULATION TO EXTEND 24" PAST EDGE OF SLAB	
BASEMENT CONCRETE WALLS ON FINISHED BASEMENT	R-15 BATT INSULATIONS ENCLOSED IN 2X4 FRAME WALL IN FRONT OF CONCRETE BASEMENT WALLS	
BASEMENT CONCRETE WALLS ON UNFINISHED BASEMENT & CRAWL SPACE WALLS	NO INSULATIONS REQUIRED, BUILDING ENVELOPE STOPS AT INSULATED FLOOR SYSTEM	
1ST FLOOR FLOOR SYSTEMS ON UNFINISHED BASEMENT & CRAWL SPACES	R-19 BATT INSULATION HELD FLUSH WITH TOP OF FLOOR TRUSS/FLOOR SHEATHING	
EXTERIOR 2X4 WALLS	R-15 BATT INSULATION ENCLOSED ON ALL 6 SIDES INCLUDING AREAS BEHIND TUB AND SHOWER STALLS	
EXTERIOR 2X6 WALLS	R-15 BATT INSULATION ENCLOSED ON ALL 6 SIDES INCLUDING AREAS BEHIND TUB AND SHOWER STALLS	
2X6 & 2X4 GARAGE WALLS COMMON WITH HEATED SPACE	R-15 BATT INSULATION ENCLOSED ON ALL 6 SIDES INCLUDING AREAS BEHIND TUB AND SHOWER STALLS	
MAIN HOUSE CEILINGS	R-38 BATT/ R-38 BLOWN INSULATION W/ INSULATION EXT'G TO AIR BAFFLE OR WITHIN 1" OF ATTIC ROOF DECK	
VAULTED CEILINGS (NO ATTIC)	R-38 BATT INSULATIONS EXTENDING TO WITHIN 1" OF ATTIC ROOF DECK	
WINDOW & DOORS		0.35 U-FACTOR & .30 SHGC
GARAGE CEILINGS W/ ATTIC SPACE ABOVE	R-38 BATT/ R-38 BLOWN INSULATION W/ INSULATION EXT'G TO AIR BAFFLE OR WITHIN 1" OF ATTIC ROOF DECK	
GARAGE CEILINGS W/HEATED SPACE ABOVE	R-19 BATT INSULATIONS WITH (1) LAYER 5/8" TYPE X SHEET ROCK AT GARAGE CEILING	
PORCHES W/ HEATED SPACE ABOVE	R-19 BATT INSULATIONS	
PROJECTIONS W/ ATTIC SPACE ABOVE	R-38 BATT INSULATIONS EXTENDING TO WITHIN 1" OF ATTIC ROOF DECK	
EXTERIOR FLOOR CAVITY PERIMETER SPACES BETWEEN STORIES	R-15 BATT INSULATIONS	

HARNETT DESIGN CRITERIA

- I. DESIGN LOADS ARE ALL DEAD LOADS PLUS:
 - A. SLEEPING ROOMS.....30 PSF
 - B. ALL OTHER FLOORS.....40 PSF
 - C. BALCONIES.....60 PSF
 - D. ATTIC FLOOR LIVE LOADING WITH THE FOLLOWING:
 - i. AREA ACCESSIBLE BY STAIRS.....40 PSF
 - ii. ROOF SLOPES >3:12.....20 PSF
 - iii. ROOF SLOPES <3:12.....10 PSF
 - E. ROOF LIVE LOAD.....20 PSF
 - F. WIND LOAD.....100 MPH
 - G. SNOW LOAD.....20 PSF
 - H. SEISMIC ZONE.....B



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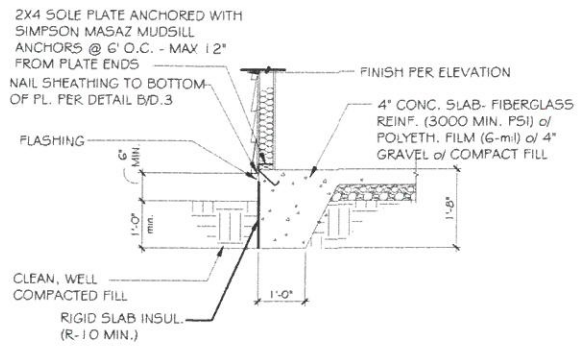
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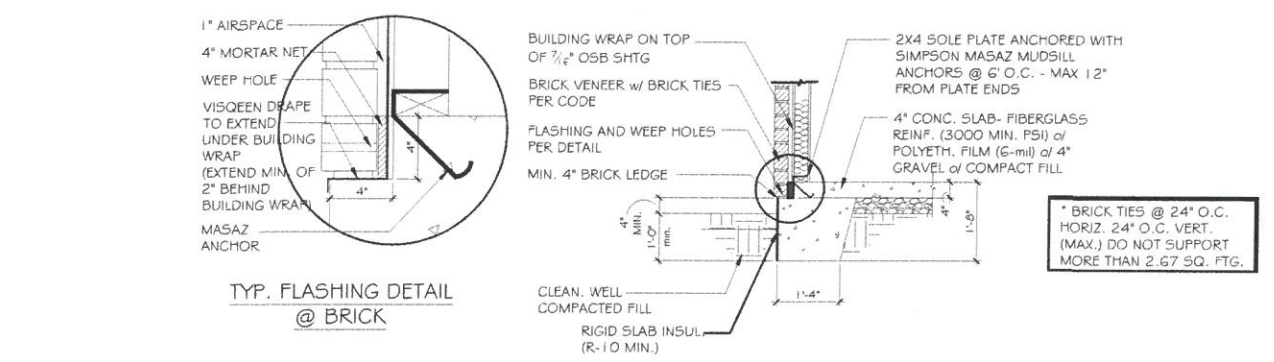
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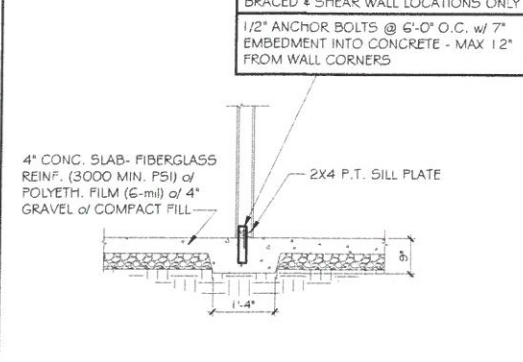
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SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"

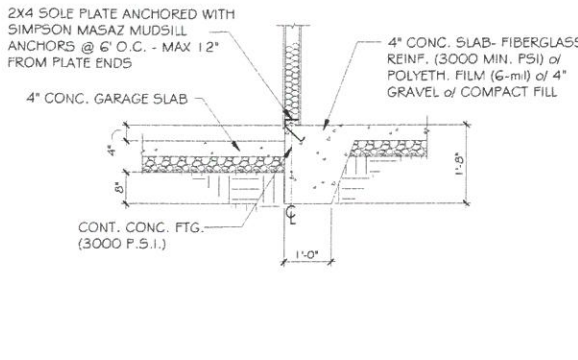


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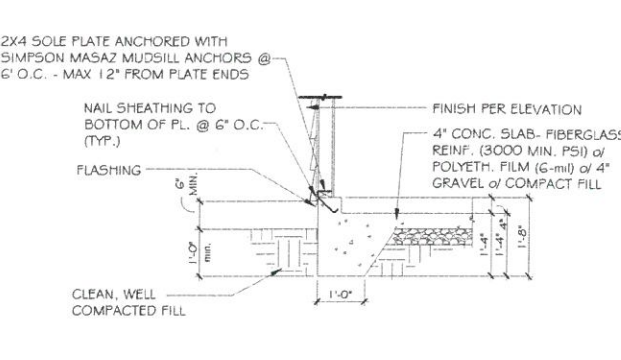
A TYP. SLAB HOUSE TO GRADE

B TYP. FLASHING DETAIL @ BRICK

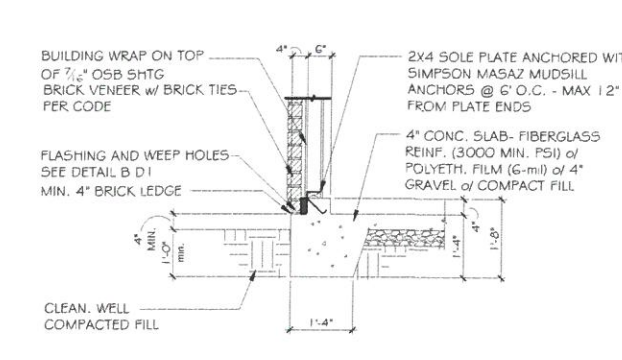
D TYP. THICKENED SLAB DETAIL



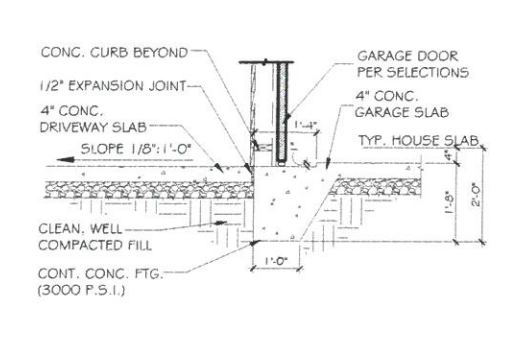
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SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"



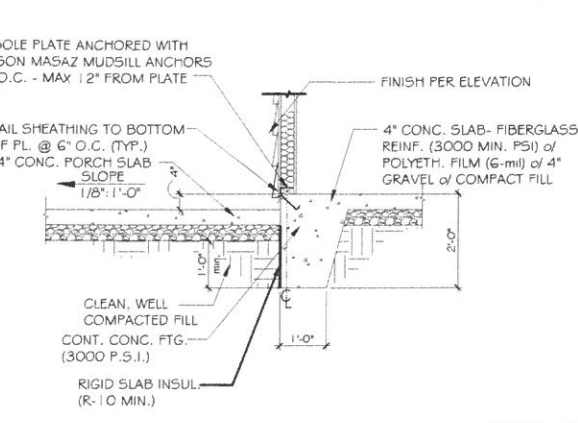
SCALE: 1/4" = 1'-0"

C TYP. SLAB HOUSE TO GRADE

E TYP. SLAB - HOUSE TO GARAGE

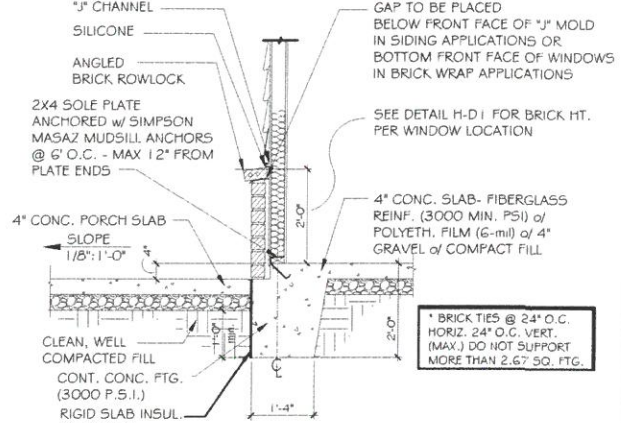
F TYP. SLAB - GARAGE TO GRADE

G TYP. SLAB - GARAGE TO GRADE w/ BRICK



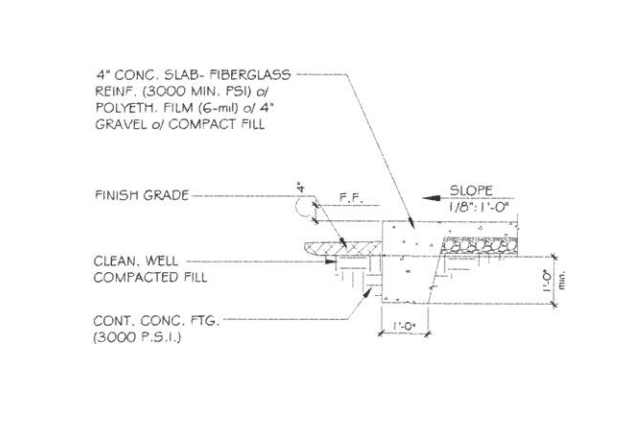
SCALE: 1/4" = 1'-0"

H TYP. GARAGE TO DRIVE



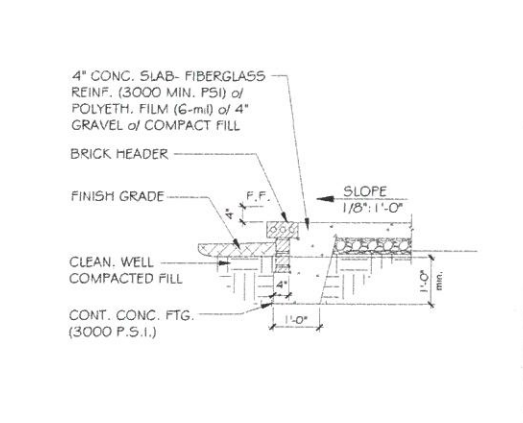
SCALE: 1/4" = 1'-0"

I TYP. SLAB - WAINSCOTING BRICK DETAIL @ PORCH



SCALE: 1/4" = 1'-0"

J TYP. PORCH END DETAIL



SCALE: 1/4" = 1'-0"

K PORCH END DETAIL w/ BRICK

L TYP. SLAB - HOUSE TO PORCH

N TYP. SLAB - WAINSCOTING BRICK DETAIL @ PORCH

P TYP. PORCH END DETAIL

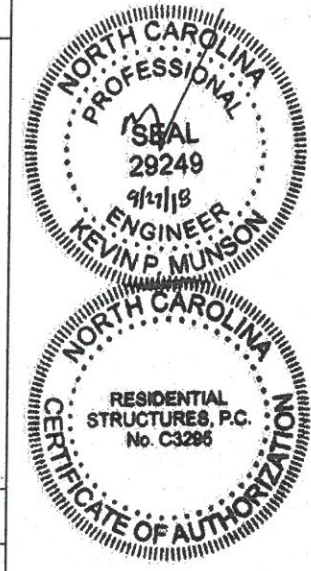
Q PORCH END DETAIL w/ BRICK

MONOSLAB
RALEIGH/TRIAD

NOTES:
CORROSION RESISTANT CORRUGATED METAL TIES - 22 GAUGE, 3/8" WIDE, 6" LONG. PLACE MAX. HORIZONTAL SPACING 24" HORIZ.. NOT TO SUPPORT GREATER THAN 2.67 SQ. FT. WALL AREA
WEEP HOLES TO BE PLACED AT EVERY OTHER HEAD JOINT ON THE BOTTOM COURSE OF BRICK.
VISQUEEN DRAPE TO EXTEND UNDER BUILDING WRAP (EXTEND MIN. OF 2" BEHIND BUILDING WRAP)
PROVIDE WEEP HOLES PER CODES
BRICK TIES @ 24" O.C. HORIZ. 24" O.C. VERT. (MAX.) DO NOT SUPPORT MORE THAN 2.67 SQ. FTG.
BRICK & CMU TO BE INTEGRALLY BONDED PER CODE

USP CONVERSION CHART

REF NO.	USP
ABA44Z	PA44E-TZ
BC52-2/4	BC4010-TZ
C5-16	R5150
DTT27-5D52.5	DTB-TZ
H2.5A	RT7
H2.5A	RT7A
L5-30	MP3
L5TA24	L5TA24
MASAZ	FA3-TZ
STHD14	STAD14
HHU5410	THD410
A24	TDL5
A21	JAI
LSU26	LS5H15-TZ
EPB44	EPB4408
BC6	CG6
BC4	C44
LU528-2	JU528-2
LU526	JU526
ABAGG	PAG6E-TZ
C522	R5-22R
HDU4-5D5	PHD4A
EPB66T	EPB6608
HDQ8-5D3Z	PHD8
L5TA36	L5TA36
A34	MP34



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SHEET:
D1

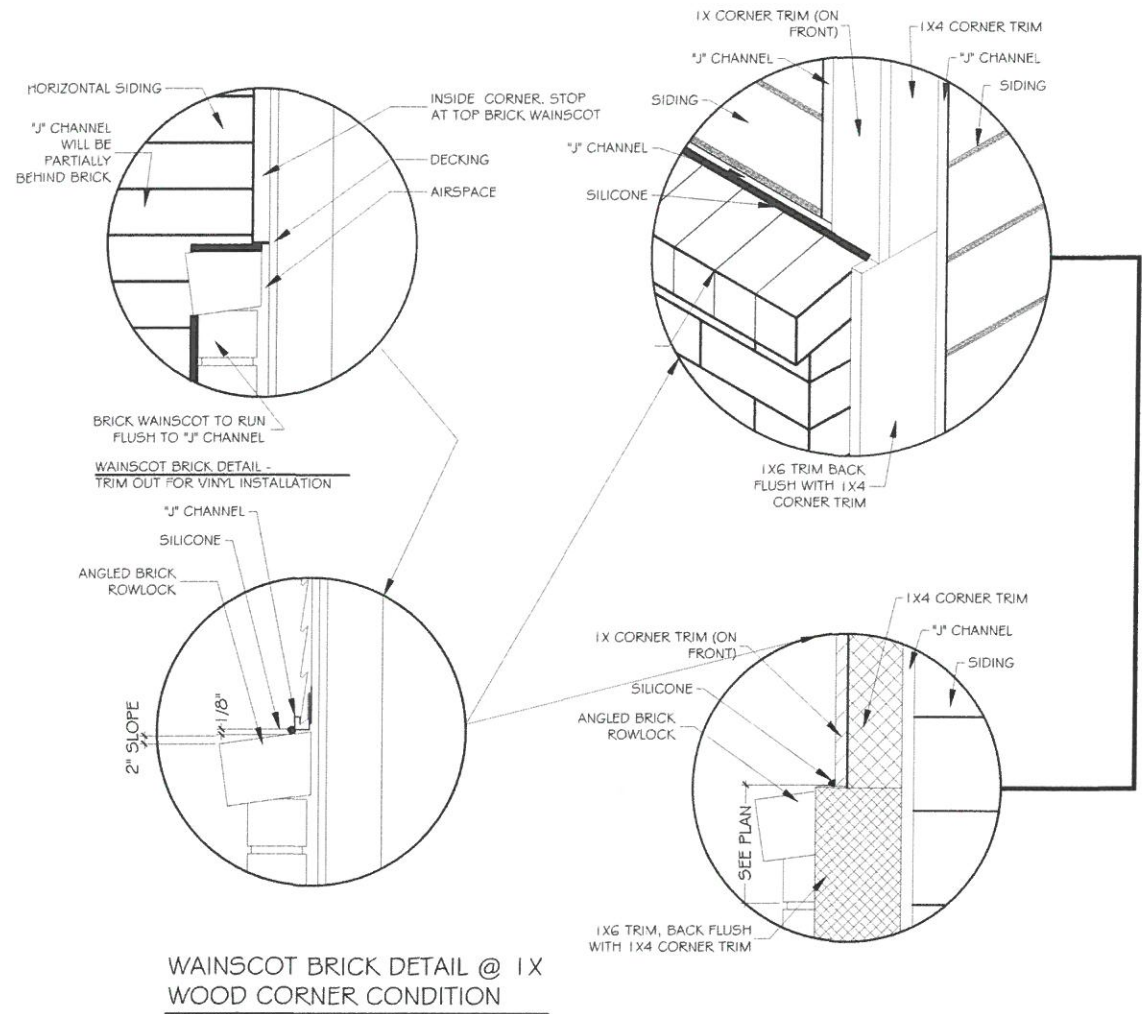
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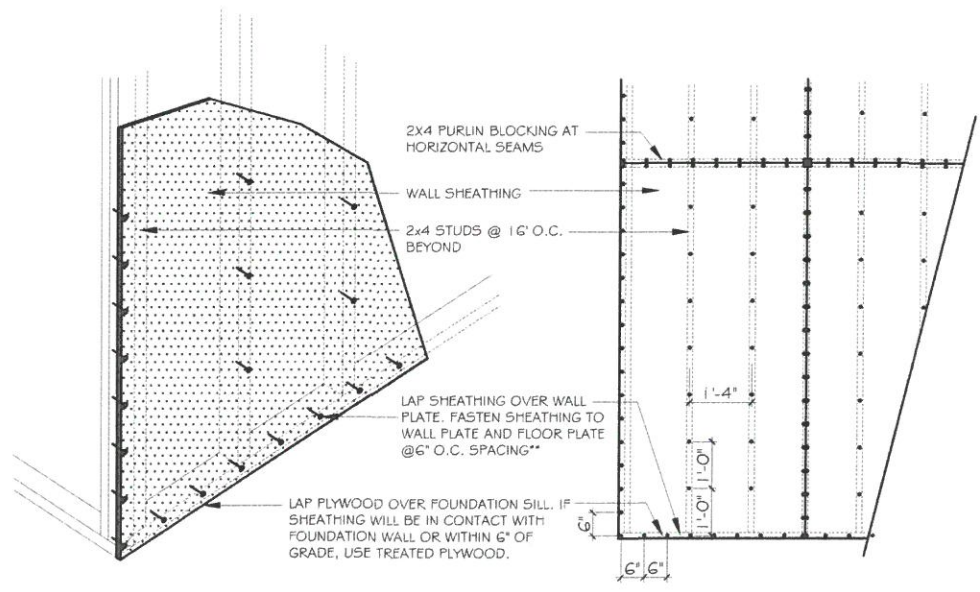
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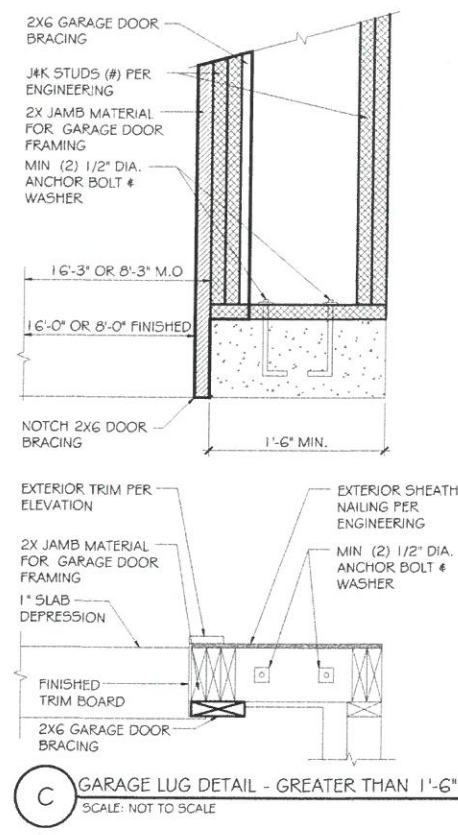
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A FLASHING @ WAINSCOTING BRICK DETAIL
 SCALE: 1/4" = 1'-0"



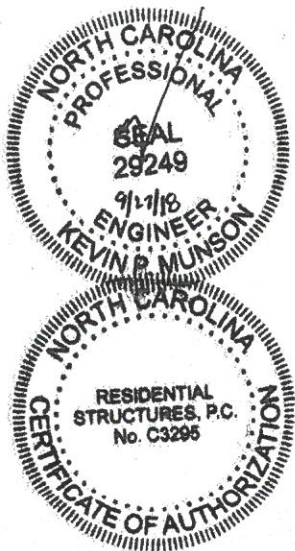
B TYP. NAILING PATTERN
 SCALE: 1/4" = 1'-0"



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USP CONVERSION CHART

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BCS2-2/4	BC4010-TZ
CS-1G	RS150
DTT2Z-SD52.5	DTB-TZ
H2.5A	RT7
H2.5A	RT7A
L5-30	MP3
L5TA24	L5TA24
MASAZ	FA3-TZ
STHD14	STAD14
HHU5410	THD410
A24	TDL5
A21	JA1
LSU2G	LSSH15-TZ
EPB44	EPB440B
BCG	CGG
BC4	C44
LUS2B-2	JUS2B-2
LUS2G	JUS2G
ABAG6	PAG6E-TZ
CS22	RS-22R
HDU4-SD5	PHD4A
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A34	MP34



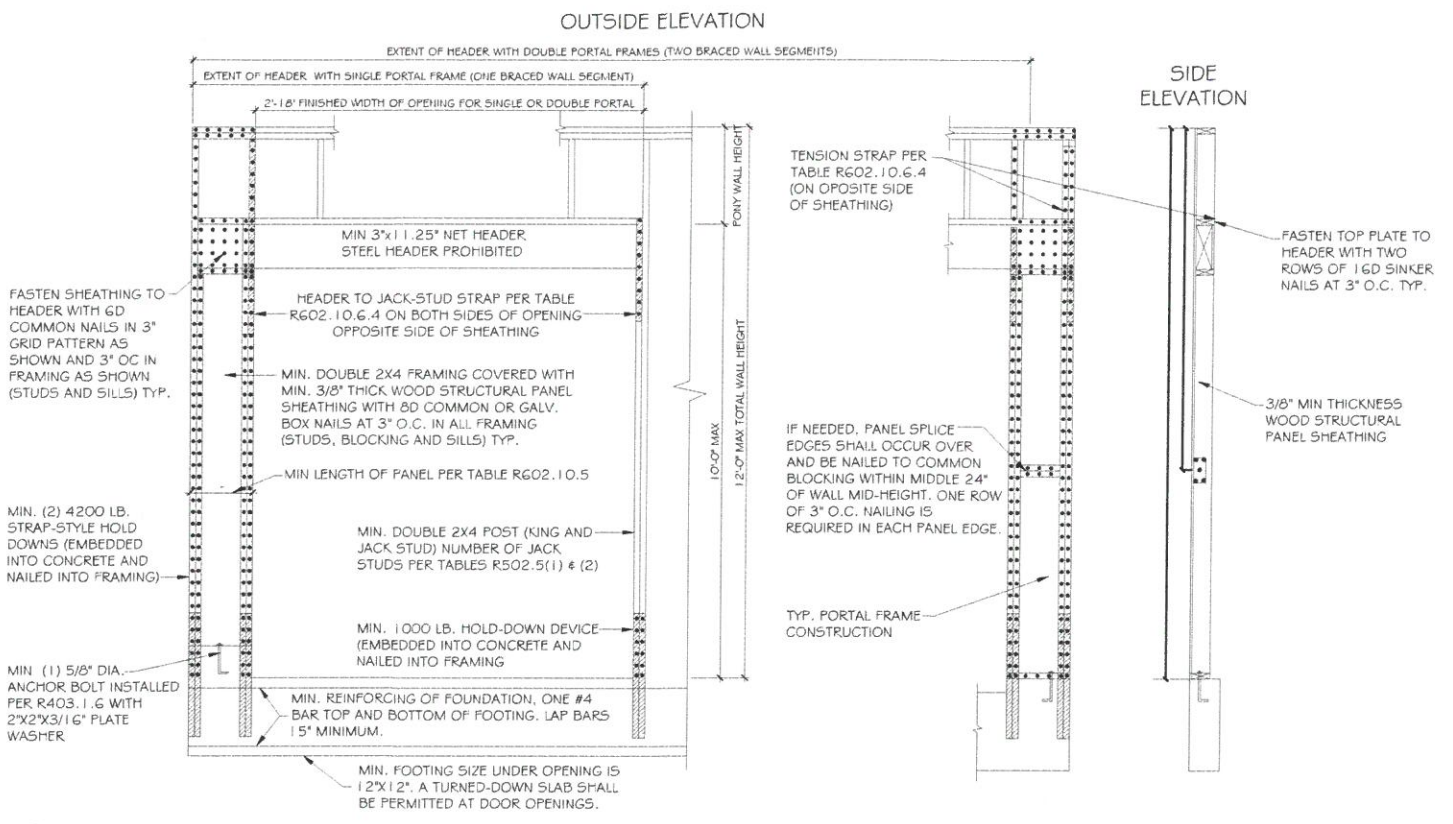
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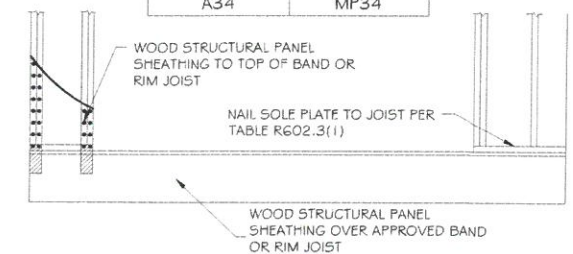
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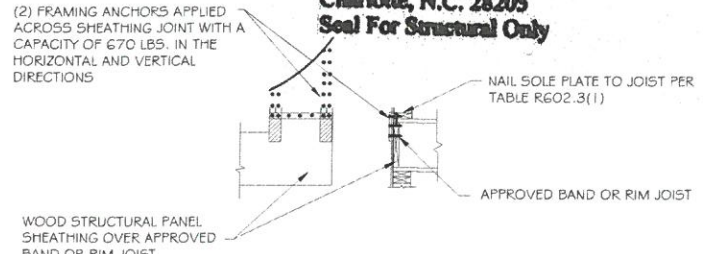
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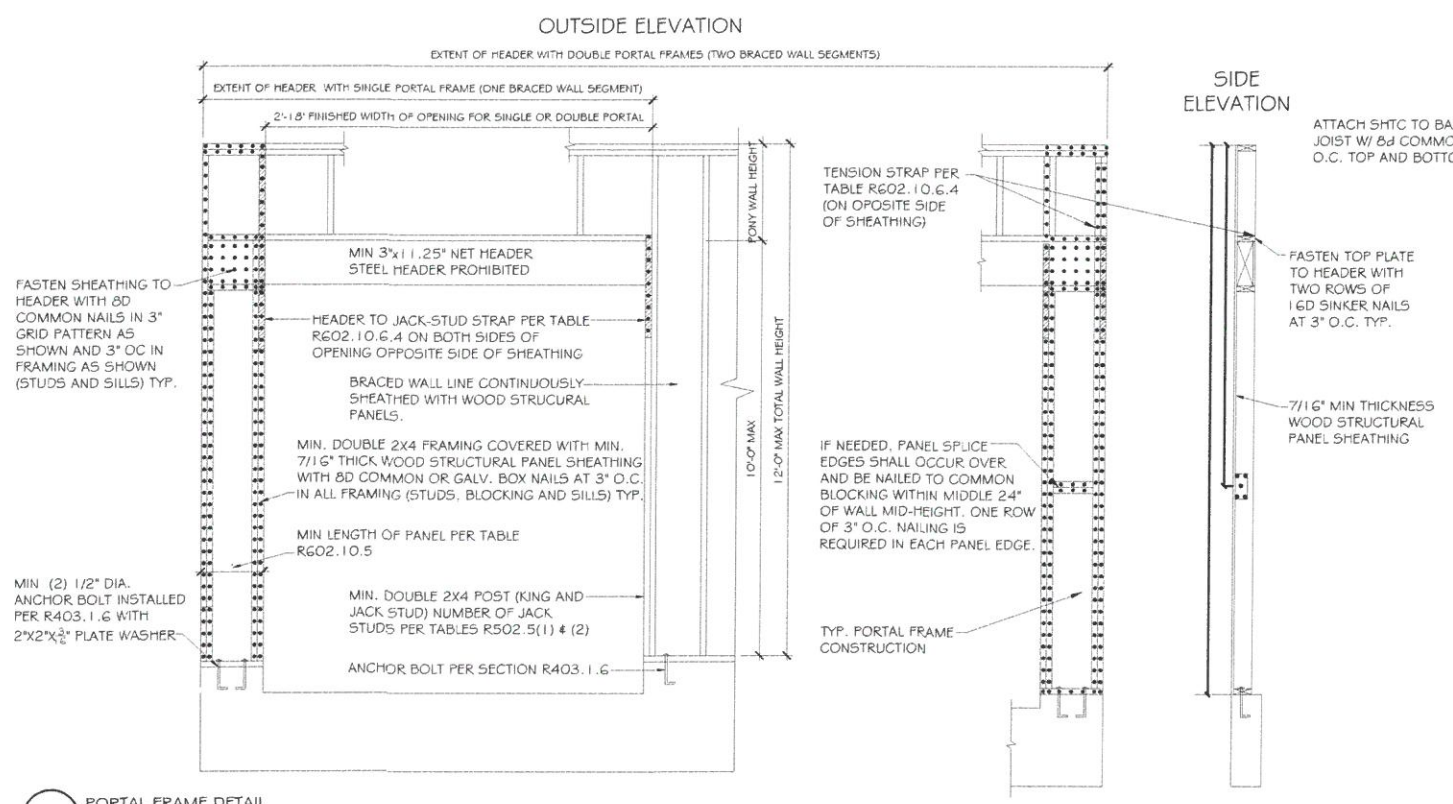
A PORTAL FRAME DETAIL
SCALE: 3/8" = 1'-0"
PFH METHOD: PORTAL FRAME WITH HOLD DOWNS GARAGE DOORS AND OPENINGS 6" TO 18"



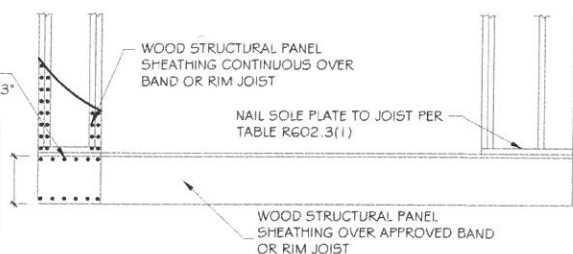
A OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION
SCALE: 3/8" = 1'-0"
(WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)



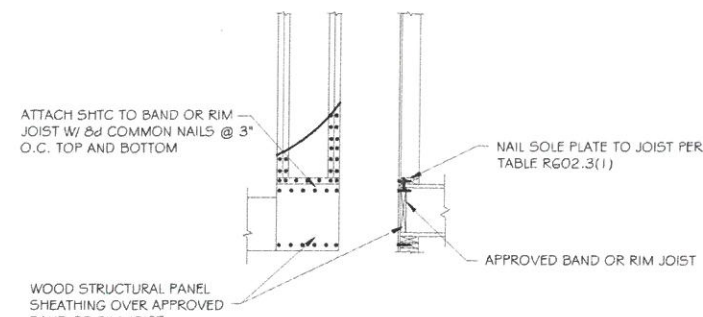
A OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION
SCALE: 3/8" = 1'-0"
(WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)



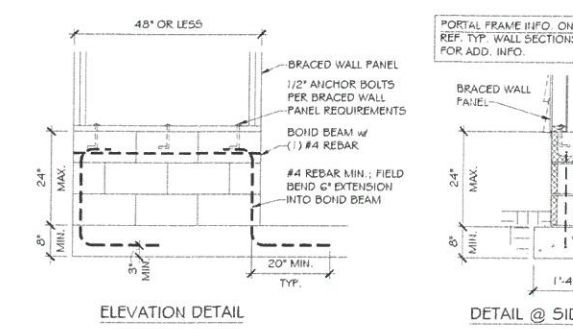
A PORTAL FRAME DETAIL
SCALE: 3/8" = 1'-0"
CS-PF METHOD: CONTINUOUSLY SHEATHED PORTAL FRAME-GARAGE DOOR GARAGE DOORS AND OPENINGS 8" AND GREATER



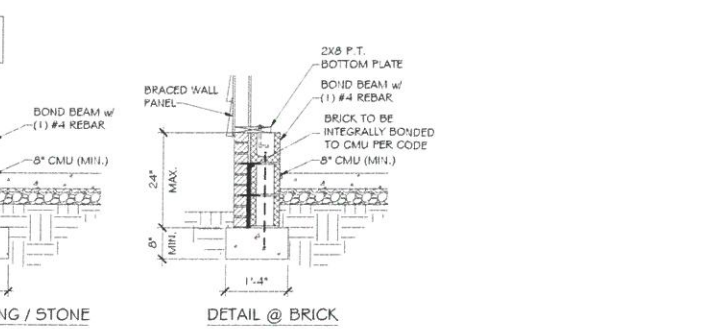
B OVER RAISED WOOD FLOOR - OVERLAP OPTION
SCALE: 3/8" = 1'-0"
(WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)



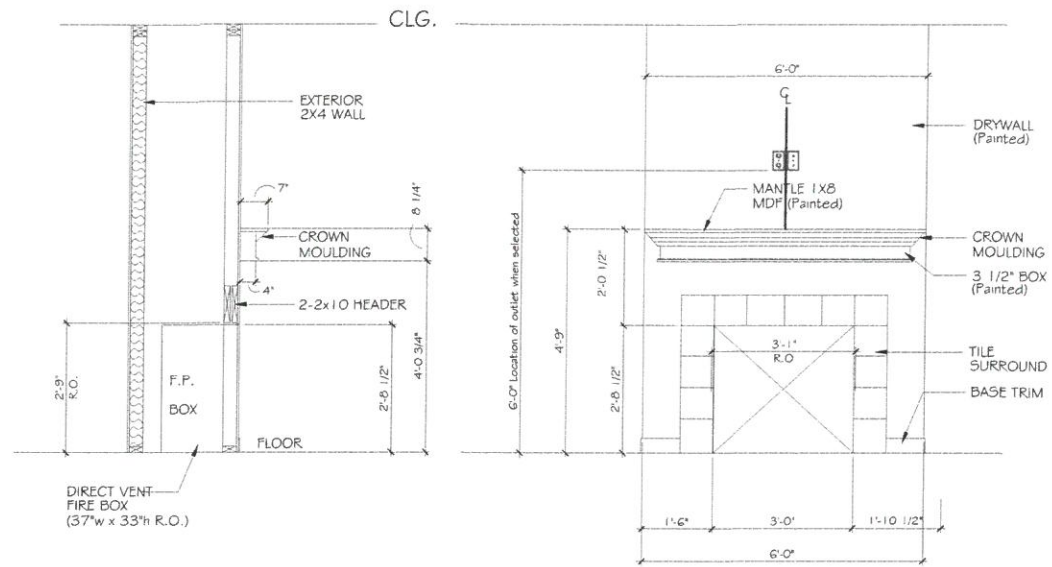
B OVER RAISED WOOD FLOOR - OVERLAP OPTION
SCALE: 3/8" = 1'-0"
(WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)



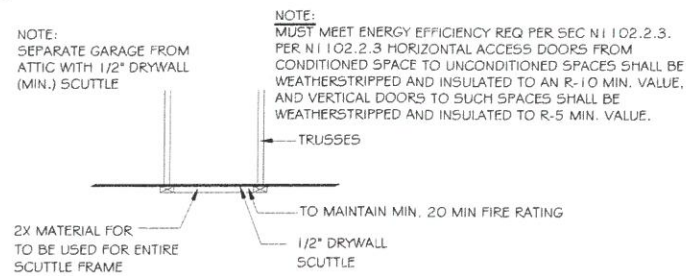
C MASONRY STEM WALL SUPPORTING BRACED WALL PANEL DETAILS
SCALE: 3/8" = 1'-0"



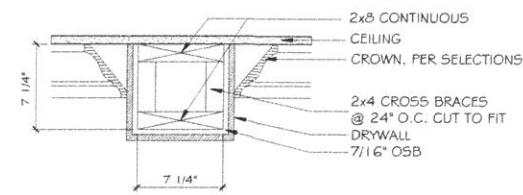
C MASONRY STEM WALL SUPPORTING BRACED WALL PANEL DETAILS
SCALE: 3/8" = 1'-0"
PER 3012 I.R.C. FIGURE R602.10.9 SHORT STEM WALL REINFORCEMENT



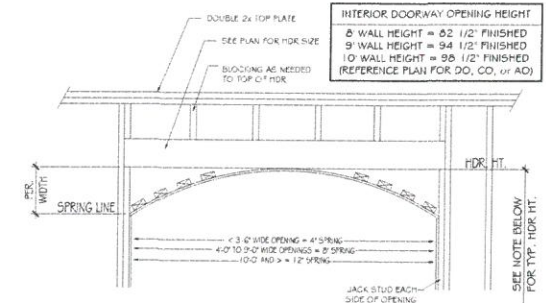
A FIREPLACE OPTION 1
SCALE: 3/8" = 1'-0"



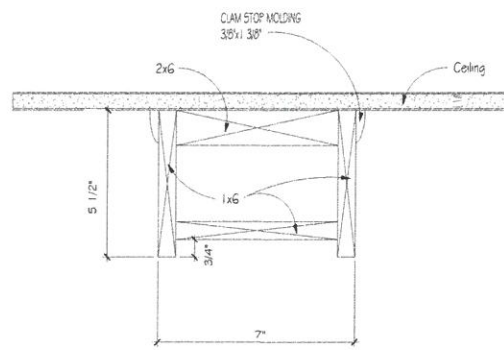
B ATTIC ACCESS PANEL DETAIL
SCALE: 1/2" = 1'-0"



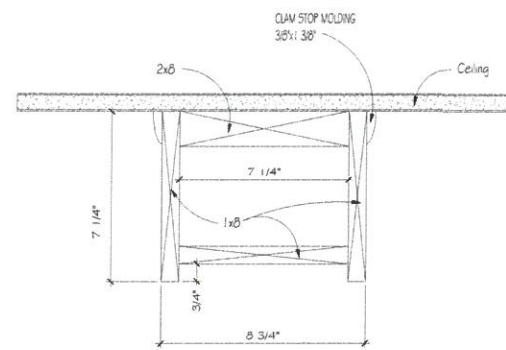
C 8" DRYWALL BEAM DETAIL - LIVING/DINING/STUDY
SCALE: 1/2" = 1'-0"



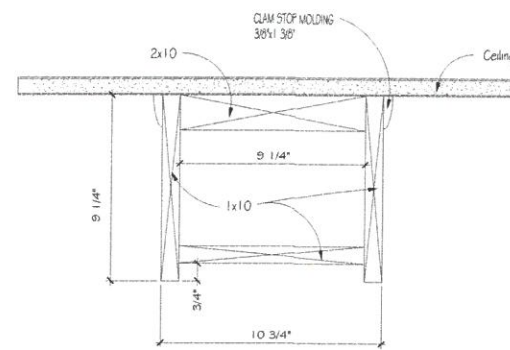
D ARCHED OPENING DETAIL
SCALE: 3/8" = 1'-0"



E 8" CEILING *WOOD FAUX BEAMS - KITCHEN/NOOK ONLY



F 9" CEILING *WOOD FAUX BEAMS KITCHEN/NOOK ONLY



G 10" CEILING *WOOD FAUX BEAMS KITCHEN/NOOK ONLY

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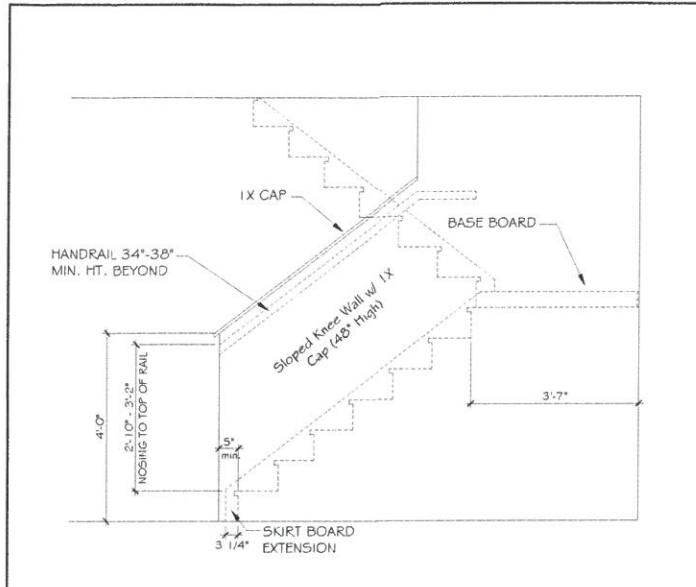
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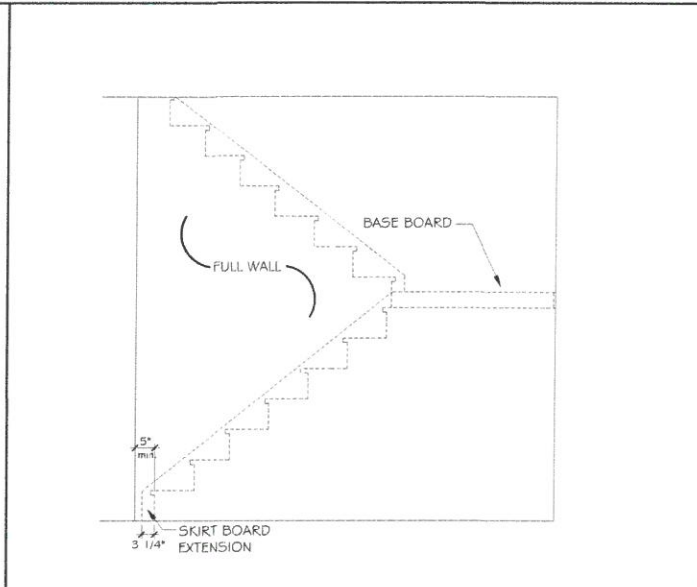
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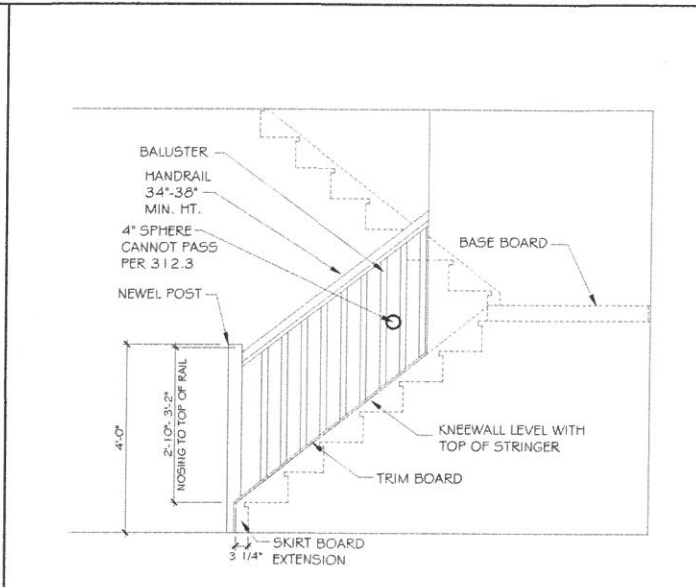
SHEET:
D5



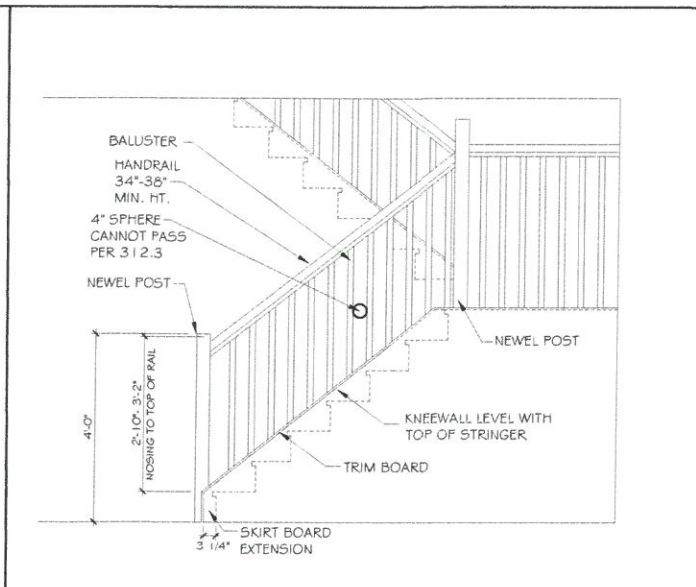
ST-1 48" SLOPED WALL w/ 1x CAP



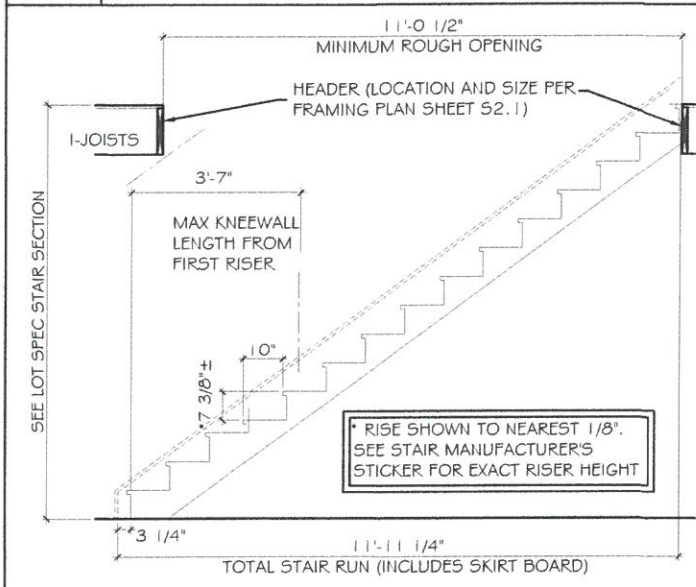
ST-2 FULL WALL



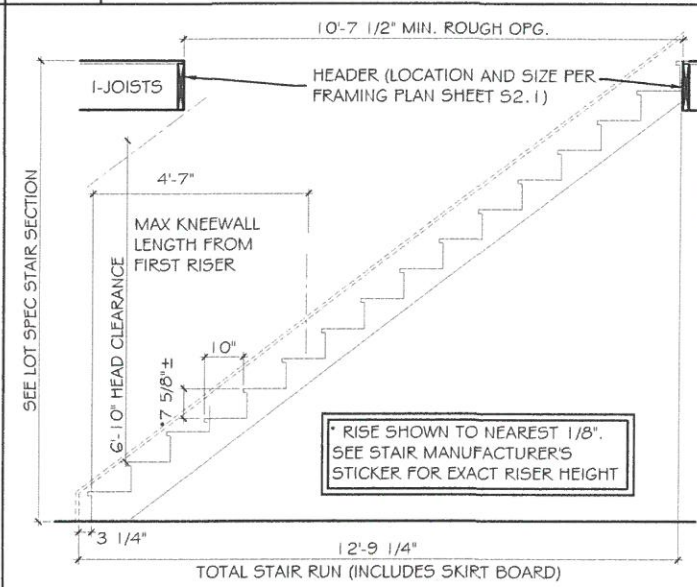
ST-3 OPT. OPEN RAIL



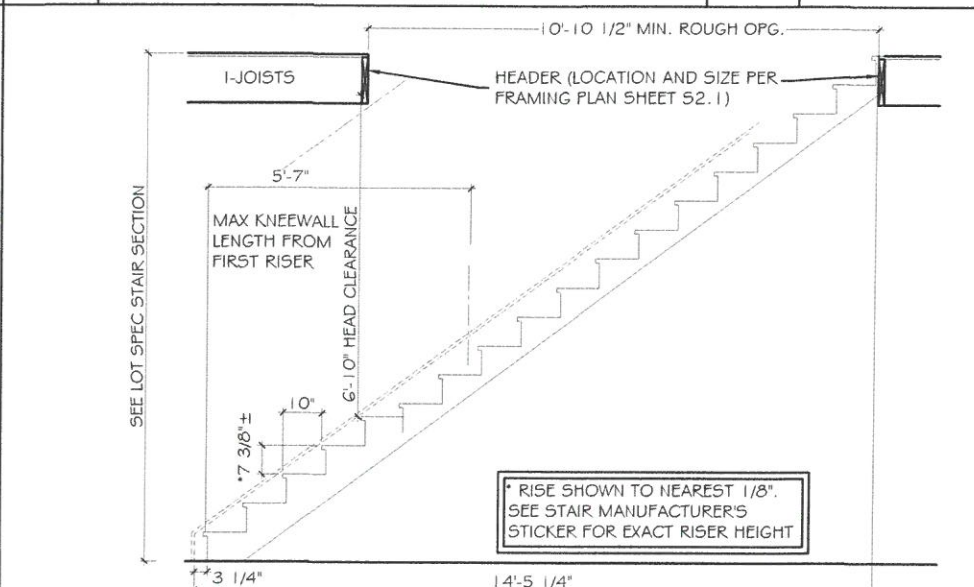
ST-4 OPT. OPEN RAIL FULL STAIR



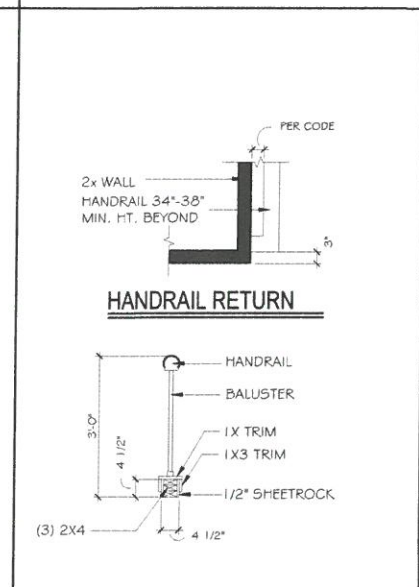
ST-5 STRAIGHT STAIR SECTION - 8ft CEILING HEIGHT w/ 11 7/8" FLOOR SYSTEM



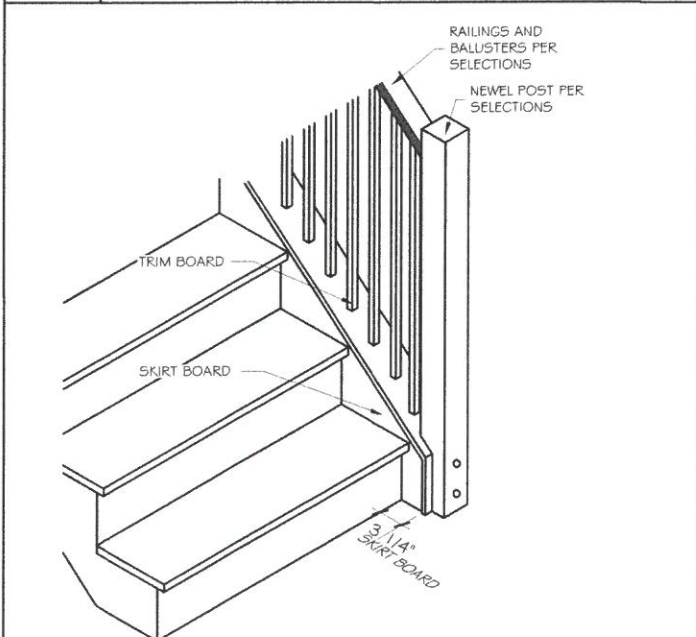
ST-6 STRAIGHT STAIR SECTION - 9ft CEILING HEIGHT w/ 11 7/8" FLOOR SYSTEM



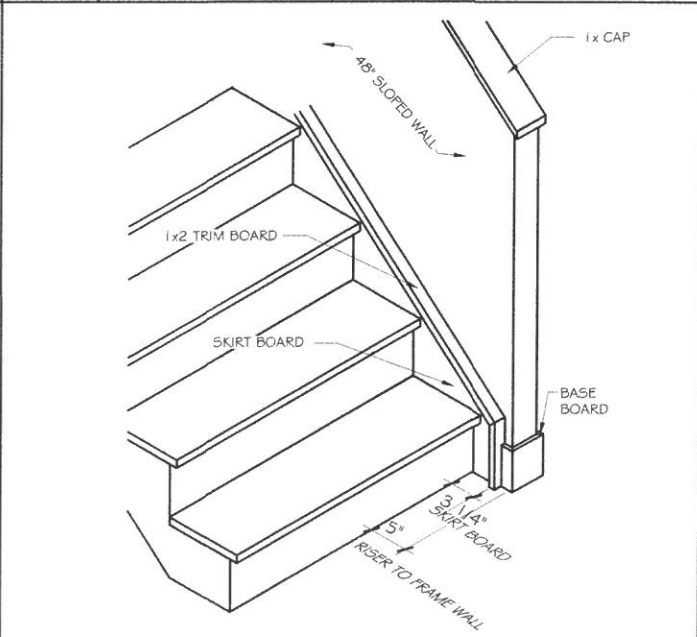
ST-7 STRAIGHT STAIR SECTION - 10ft CEILING HEIGHT w/ 11 7/8" FLOOR SYSTEM



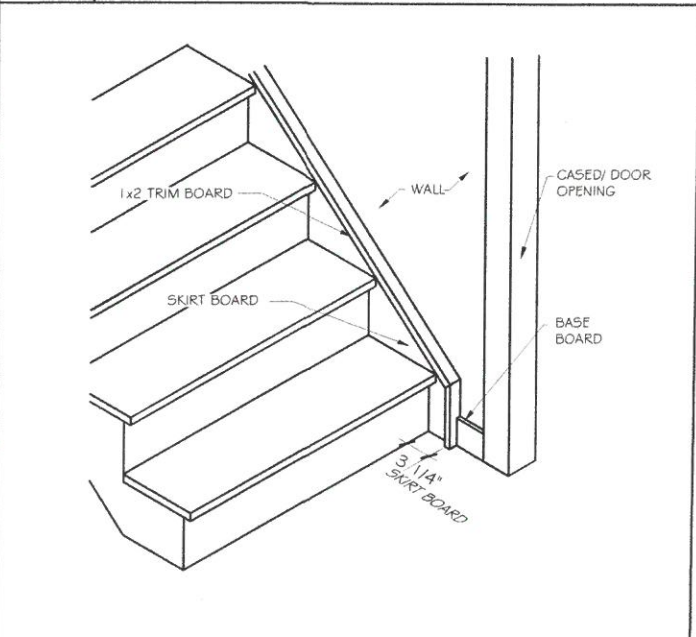
ST-8 HANDRAILS



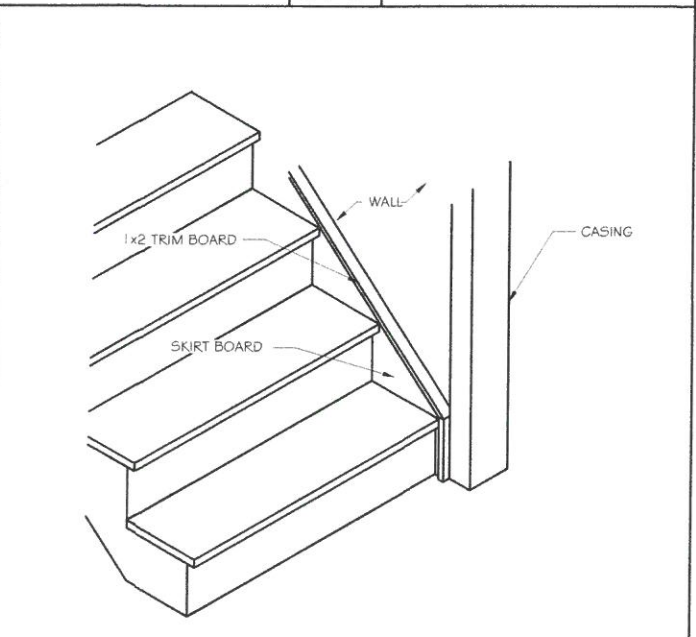
ST-9 OPT. OPEN RAIL - ISO



ST-10 48" SLOPED WALL w/ 1x CAP - ISO



ST-11 STAIRS @ CASSED OPENING - ISO



ST-12 TRIM SKIRT BOARD @ CASSED OPENING

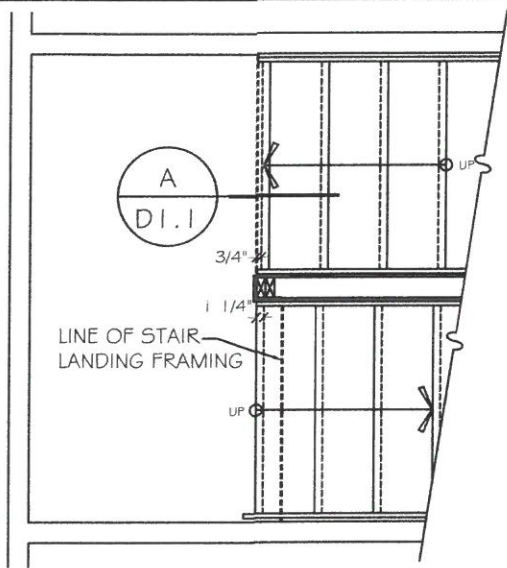
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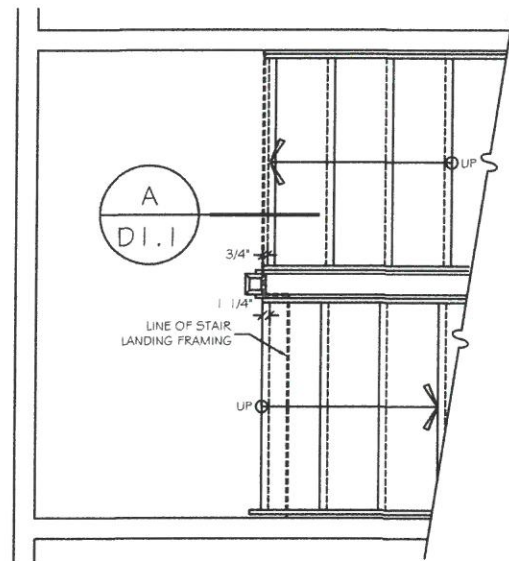
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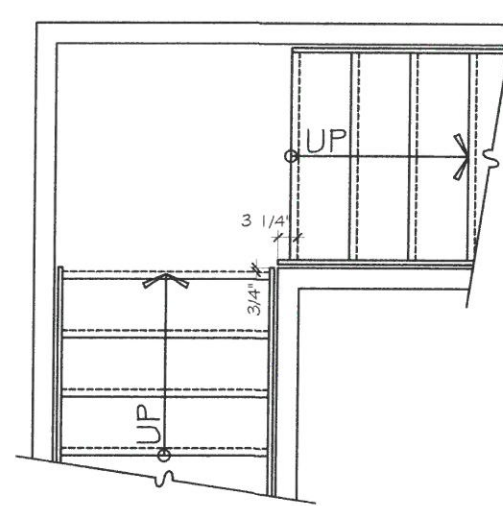
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D5.1



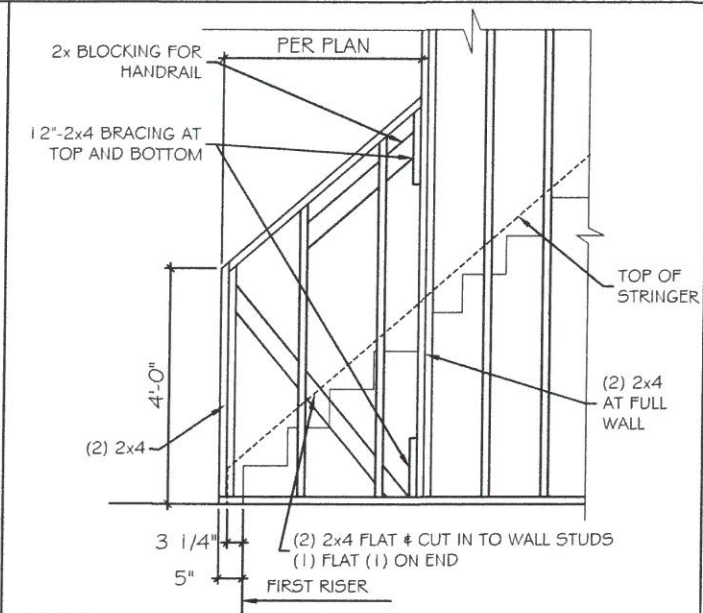
ST-13 STAIR LANDING HALF WALL w/ CAP



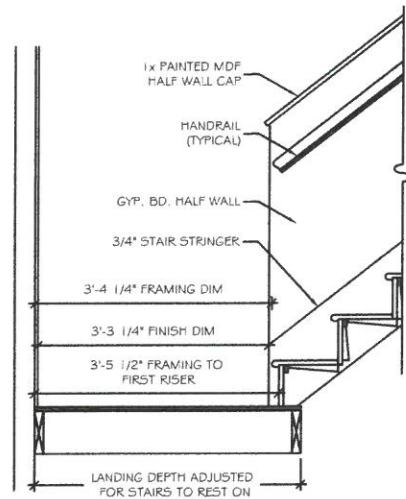
ST-14 STAIR LANDING NEWEL POST & BALUSTRADES



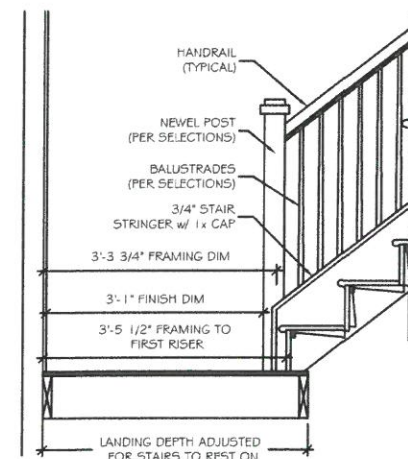
ST-15 STAIR LANDING FULL WALL



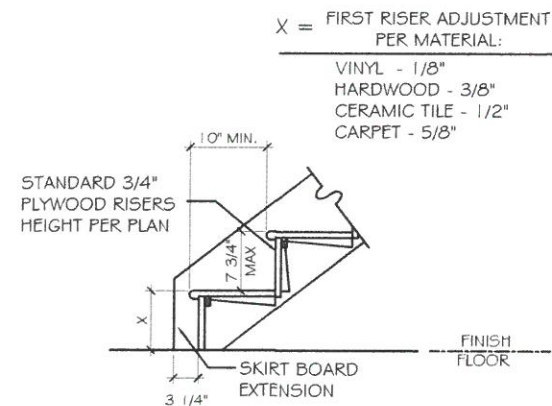
ST-16 SLOPED WALL @ STAIRS - FRAMING



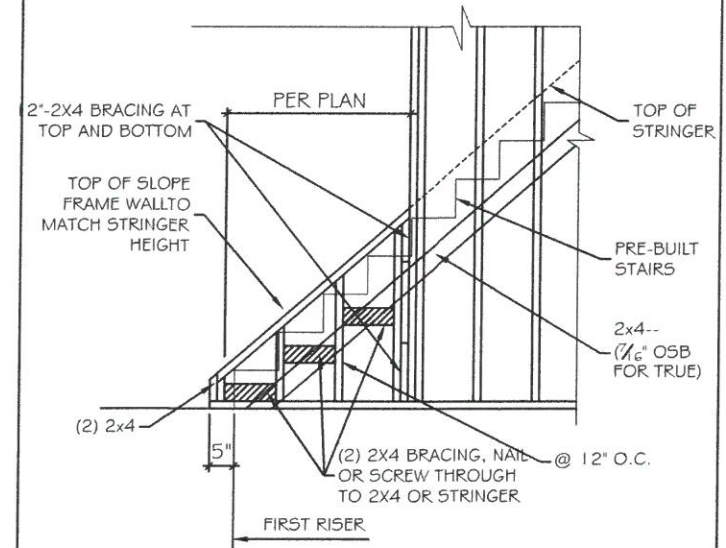
ST-17 SECTION A- SLOPED WALL



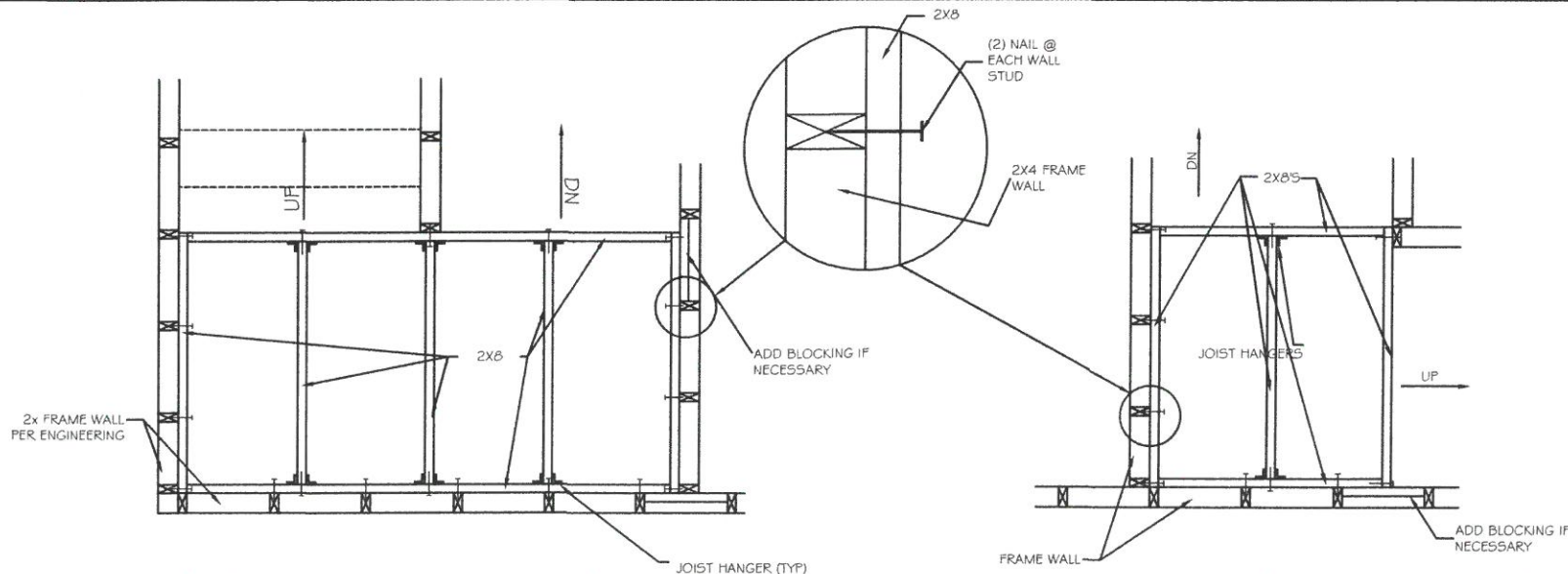
ST-18 SECTION A- OPEN RAIL



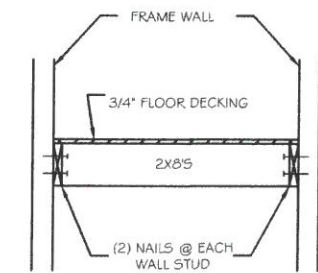
ST-19 STAIR SECTION - FIRST FLOOR



ST-20 OPEN RAIL - CURB WALL FRAMING



ST-21 STAIR LANDING - PLAN VIEW



STAIR LANDING - SECTION VIEW

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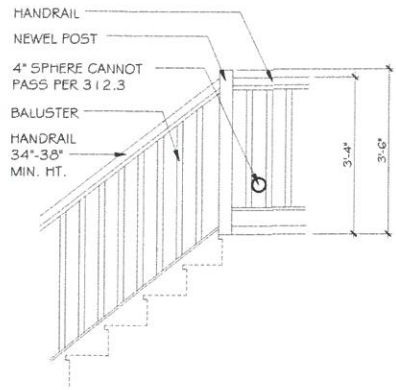
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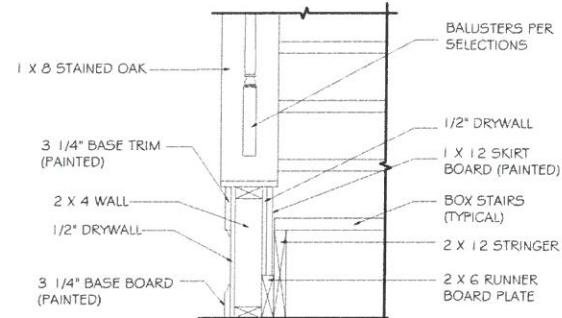
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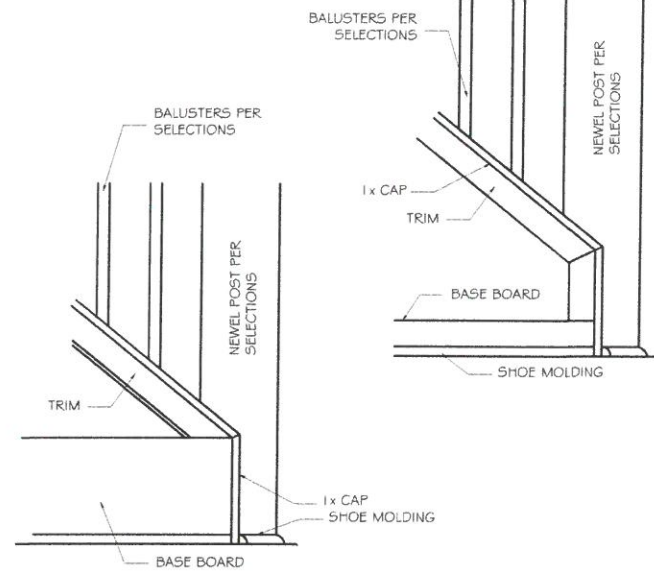
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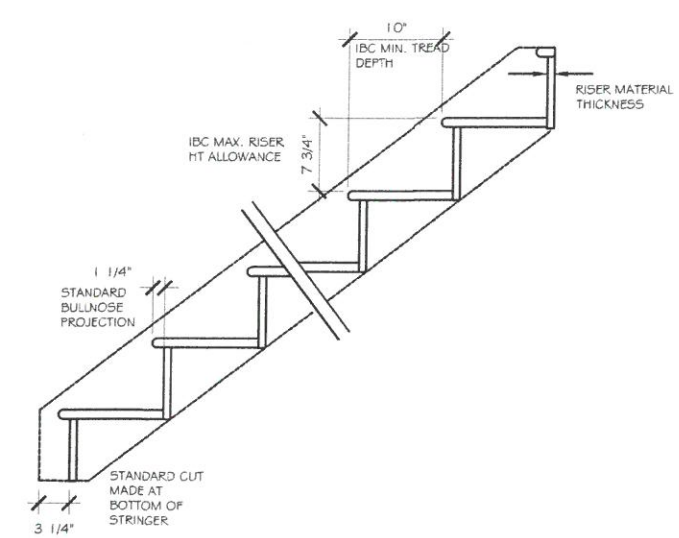
ST-23 OPT. OPEN RAIL AT LANDING



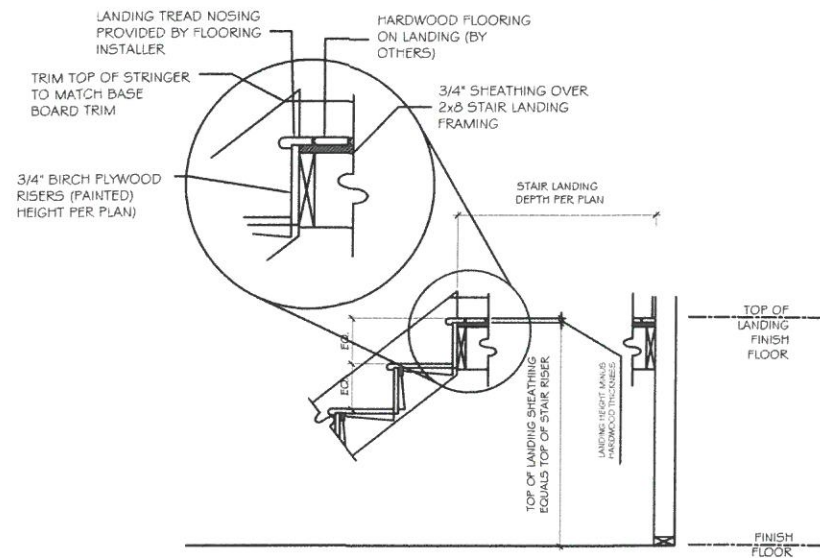
ST-24 SECTION @ CURB WALL



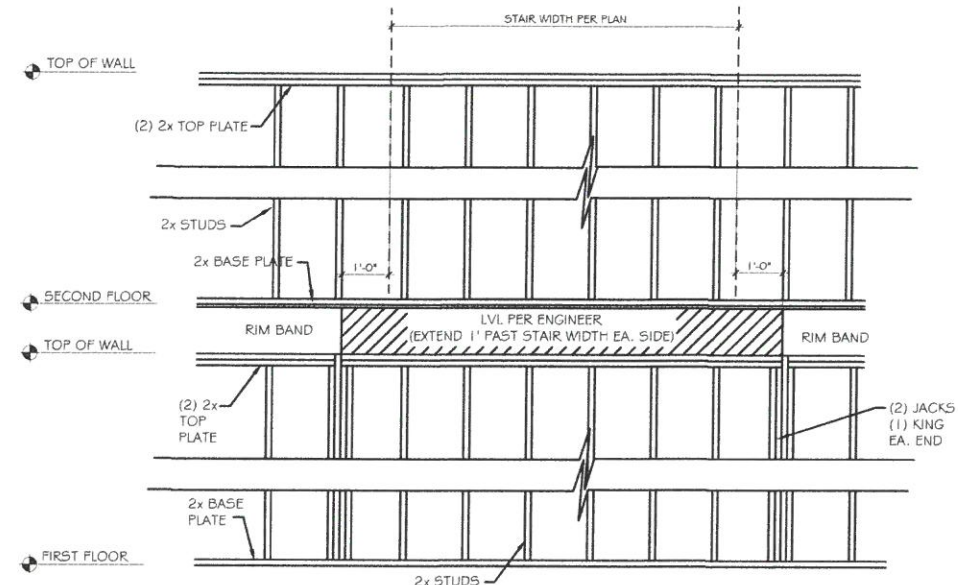
ST-25 OUTSIDE TRIM @ STAIR CURB WALL



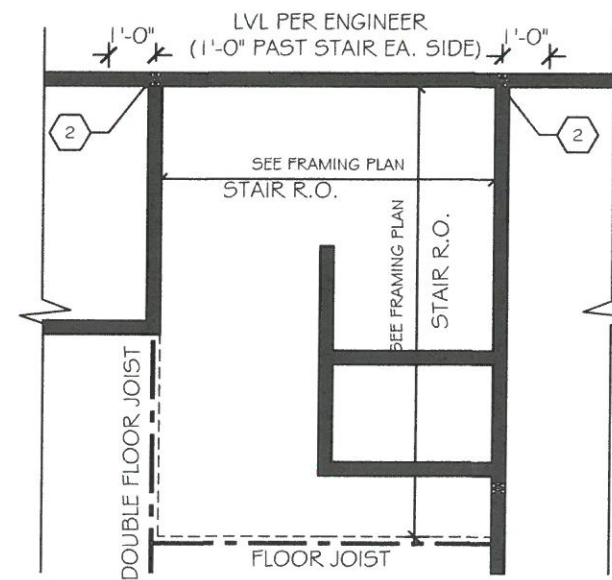
STAIR SECTION



ST-26 STAIR SECTION - HARDWOOD STAIRS AND LANDING



ST-27 STAIR SECTION - CARPET STAIRS AND LANDING



ST-28 EXTERIOR WALL FRAMING @ U-SHAPED STAIRS Ito BALLOON FRAMING

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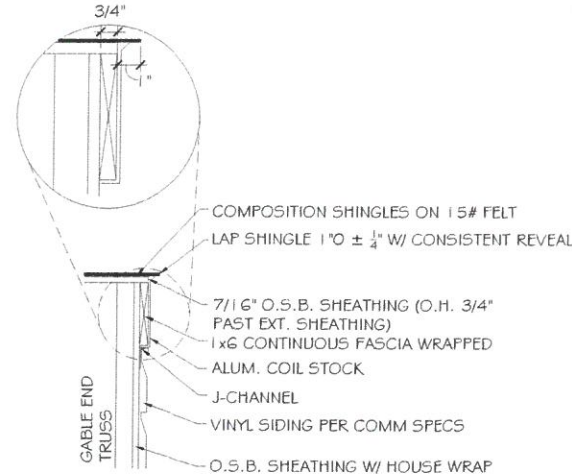
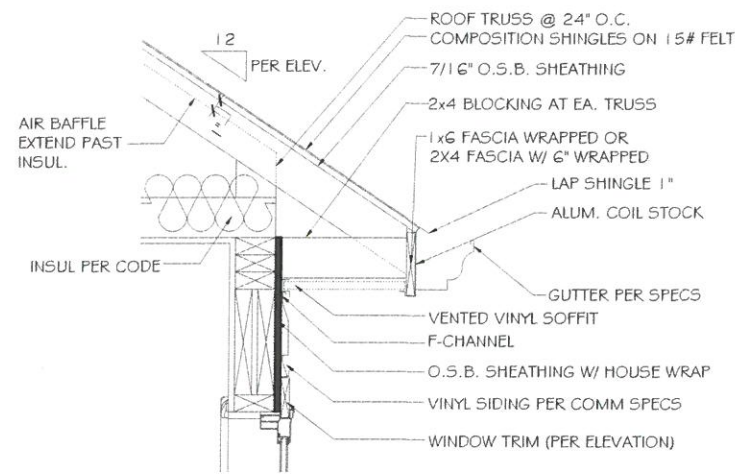
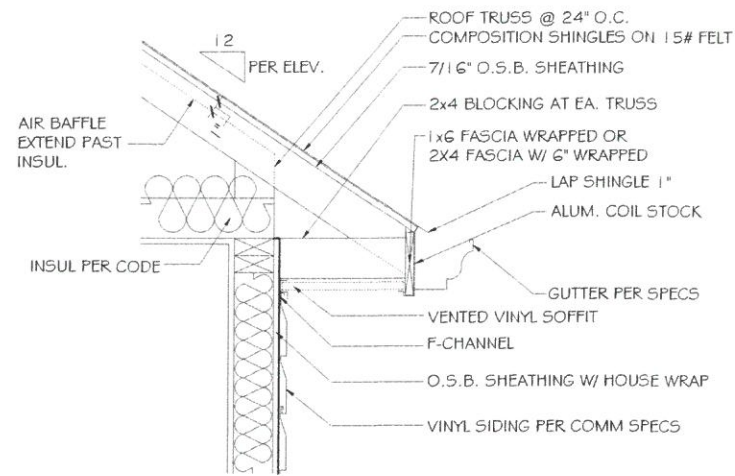
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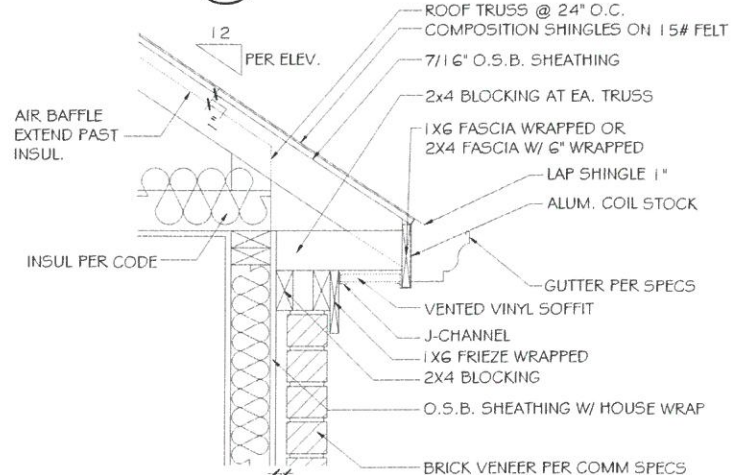
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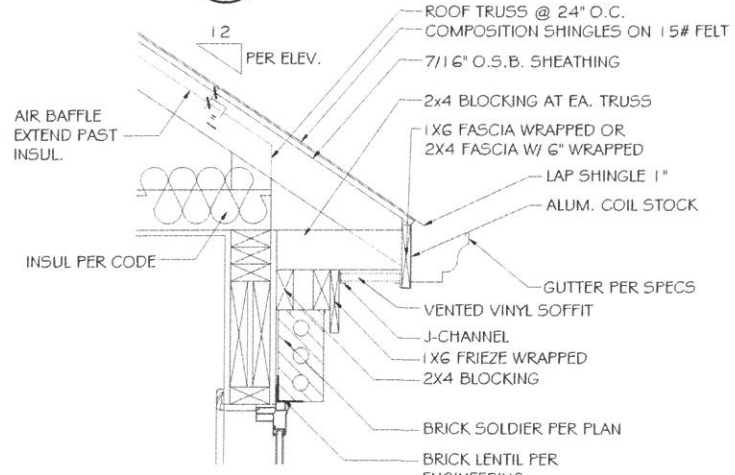
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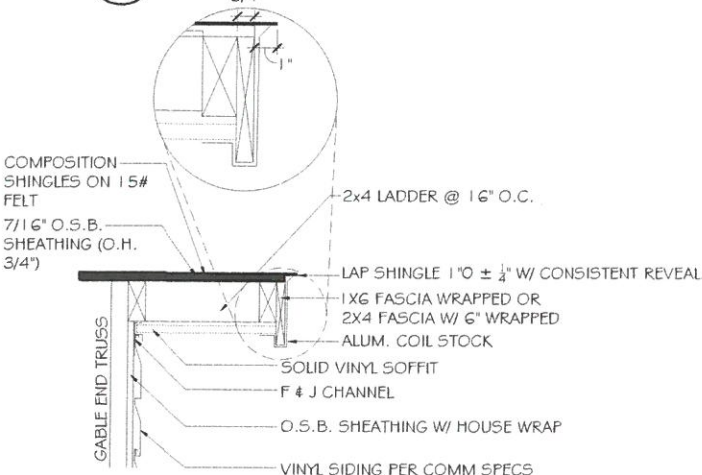
A CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE SIDES & REAR



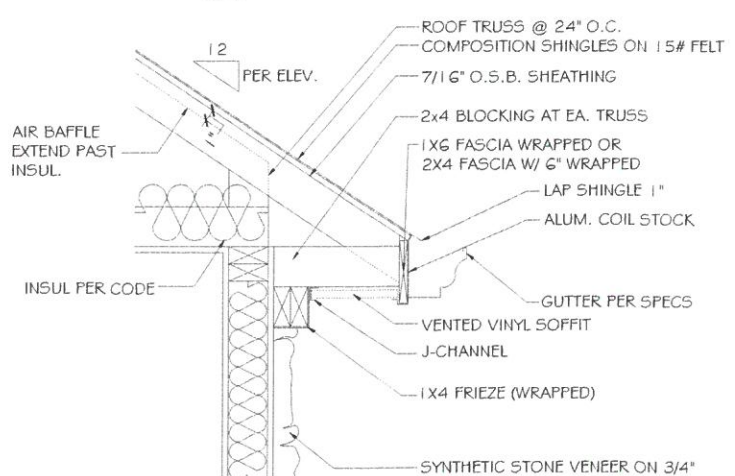
B CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE OVER WINDOW



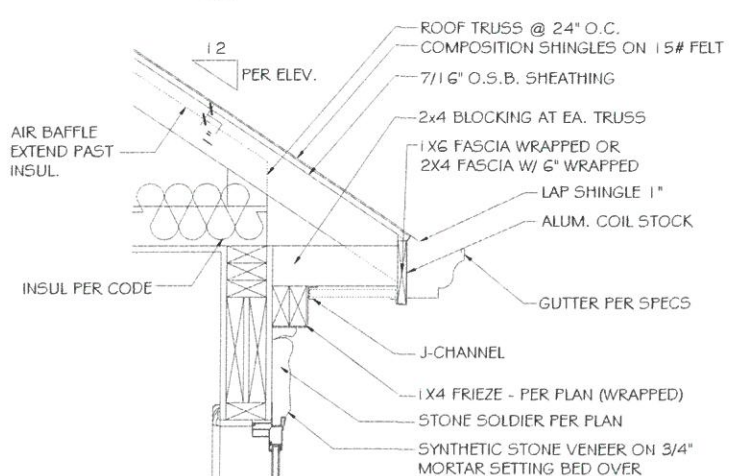
C FLUSH RAKE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE GABLE END



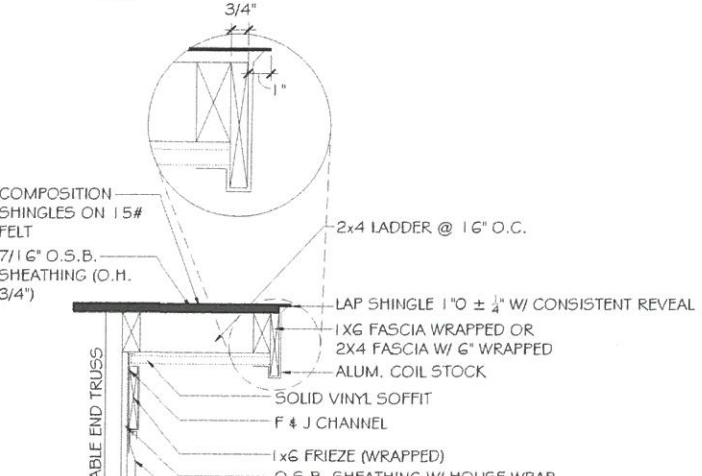
D BRICK CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE FRONT



E BRICK CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE OVER WINDOW



F RAKE OVERHANG DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE GABLE END SIDE



G STONE CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE FRONT & REAR



H STONE CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE OVER WINDOW



J RAKE OVERHANG DETAIL w/ FRIEZE - VINYL/VINYL
SCALE: NOT TO SCALE FRONT



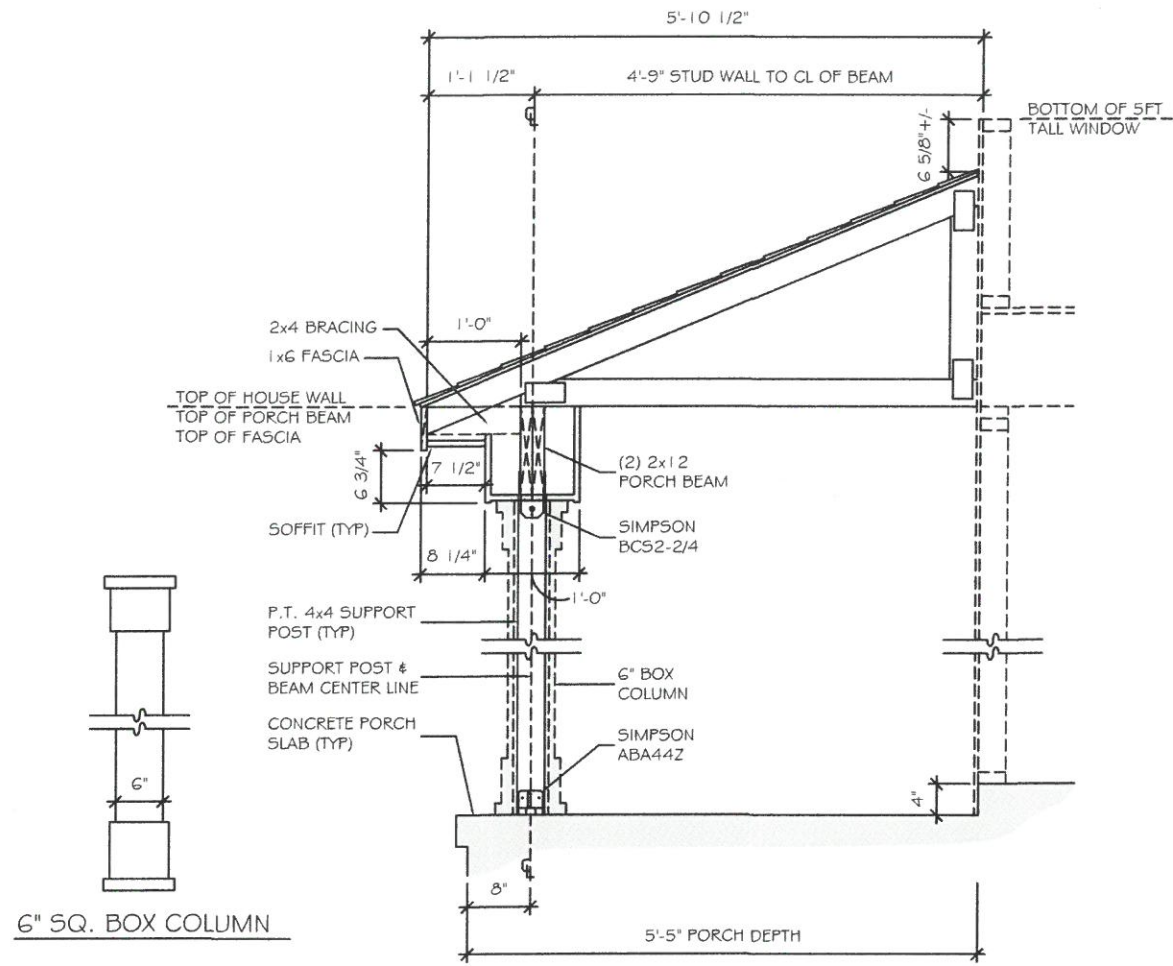
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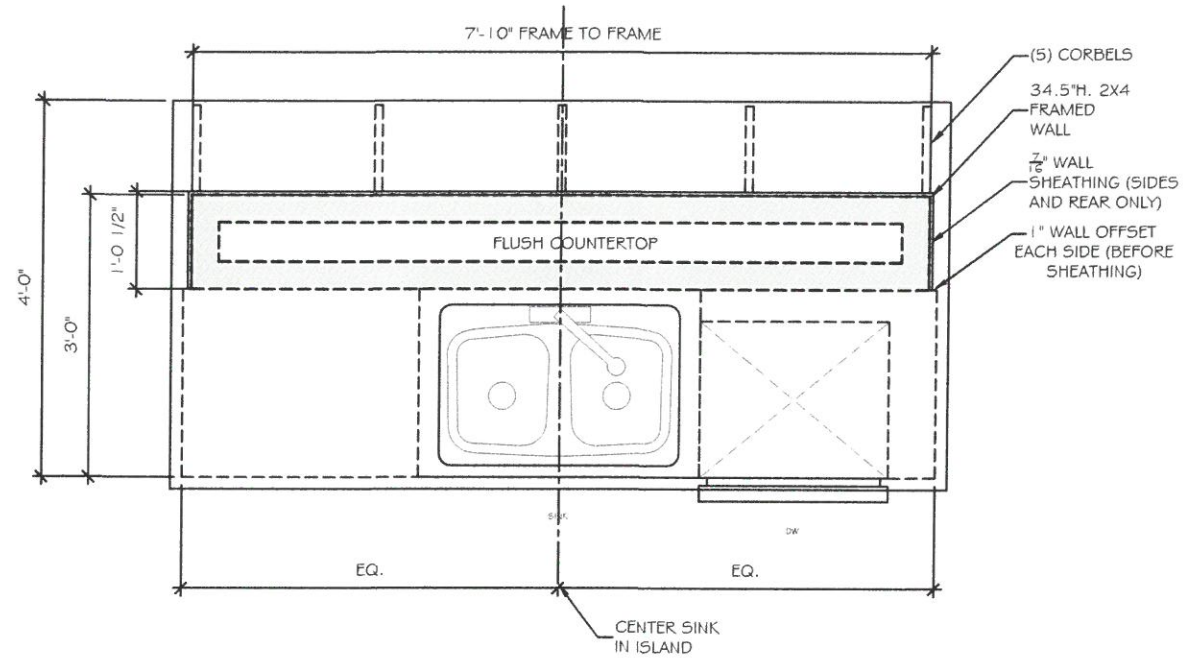
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DRAWN BY: WRR
DATE: 9-20-16
SCALE: AS SHOWN
CHECKED BY: SHC

SHEET:
D9



6" SQ. BOX COLUMN

A BOX COLUMNS (5'-5" PORCH DEPTH)
SCALE: 1/2" = 1'-0" 6" BOX COLUMN SHOWN



KITCHEN ISLAND DETAIL



RESIDENTIAL STRUCTURES, P.C.
3410 N. Davidson St.
Charlotte, N.C. 28205
Seal For Structural Only

TrueHomes
IT'S ALL ABOUT U
2649 Brekonridge Centre Dr.
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Monroe, N.C. 28110
704-271-1191

CROSS LINK
LOT # 72

JASPER
2317

HARNETT

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DRAWN BY: WRR
DATE: 9-20-16
SCALE: AS SHOWN
CHECKED BY: SHC

SHEET:
D10



Trenco
818 Soundside Rd
Edenton, NC 27932

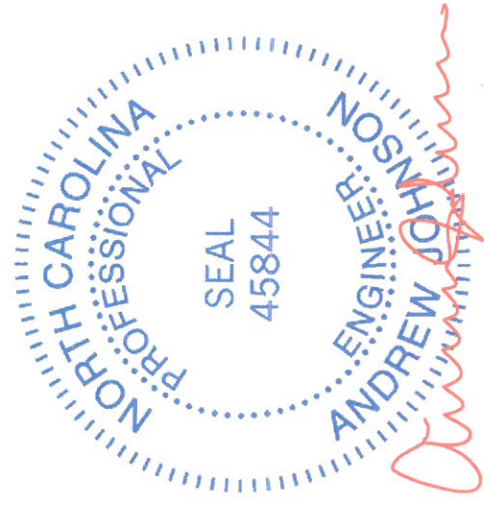
Re: 18101894
Lot-72-CLK/2317-Jasper-A2/RF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I34930338 thru I34930359

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



Johnson, Andrew

October 10, 2018

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930338
18101894	A	COMMON TRUSS	12	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8,220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:01 2018 Page 1
 ID:PVc7jxLhoWMyvzbNFxcRyyo1P-YRHncng0ovScEgM?VtdwTwnZuNZrRw53cJXyUs34



Scale = 1:67.7

Plate Offsets (X,Y)	[2,0,4-14,0-1-8], [10,0-4-14,0-1-8]
10-3-2	20-0-0
10-3-2	9-8-14
29-8-14	29-8-14
9-8-14	9-8-14
40-0-0	40-0-0
10-3-2	10-3-2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.44	Vert(LL) -0.41	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(TL) -0.78	13-15	>617	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(TL) 0.16	10	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-AS						

LUMBER-

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.1 *Except*
- WEBS 12-14: 2x4 SP DSS
- OTHERS 2x4 SP No.3

- BRACING- TOP CHORD Structural wood sheathing directly applied.
- BOT CHORD Rigid ceiling directly applied.
- WEBS 1 Row at midpt 7-13, 5-13

Weight: 208 lb FT = 20%

REACTIONS.

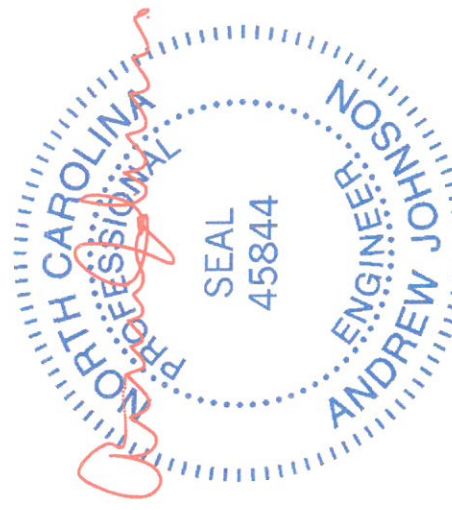
- (lb/size) 2=1660/0-3-8, 10=1600/Mechanical
- Max Horz 2=150(LC 10)
- Max Uplift 2=-165(LC 10), 10=-148(LC 11)
- Max Grav 2=1732(LC 2), 10=1681(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- TOP CHORD 2-3=-3182/588, 3-5=-2955/559, 5-6=-2133/476, 6-7=-2133/476, 7-9=-2957/560, 9-10=-3184/590
- BOT CHORD 2-15=-448/277, 13-15=-288/2325, 11-13=-289/2326, 10-11=-450/2780
- WEBS 6-13=-261/1531, 7-13=-716/247, 7-11=-51/598, 9-11=-359/201, 5-13=-715/247, 5-15=-50/596, 3-15=-357/200

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(RC2012)=91mph; TCCL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 2=165, 10=148.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/Z317-Jasper-A2/RF	134930339
18101894	A1	COMMON TRUSS	3	1		

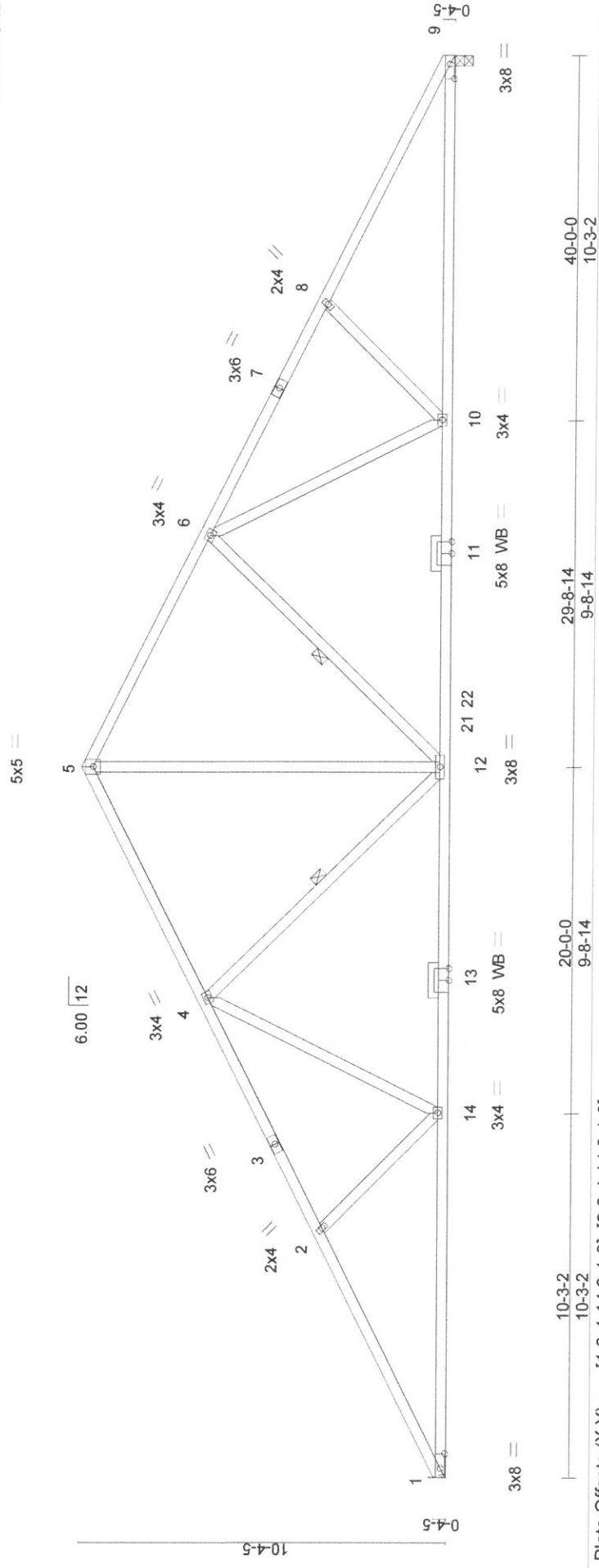
The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:02 2018 Page 1
 ID:PVc7xlhoWMyvzbNfxcRyyo1P-1dr9q2Un61JEupswiQiA805azEcllDa8lo9r_yUs33

26-5-15 6-5-15 20-0-0 6-5-15 13-6-1 6-5-15 7-0-2 7-0-2 40-0-0 7-0-2

Scale = 1:67.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.44	Vert(LL) -0.41 12-14 >999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(TL) -0.78 12-14 >618		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(TL) 0.16 9 n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-AS			

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 WEBS 11-13: 2x4 SP DSS
 OTHERS 2x4 SP No.3
 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-12, 4-12

Weight: 206 lb FT = 20%

REACTIONS.

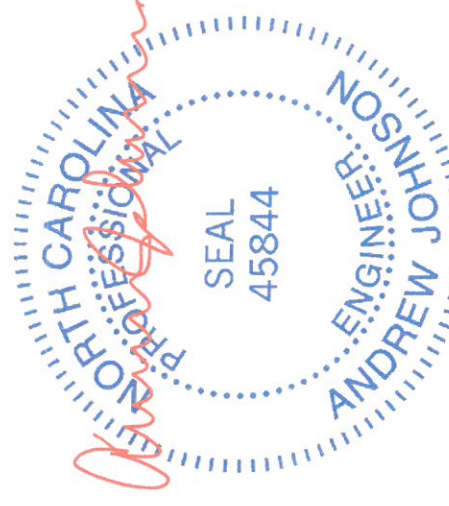
(lb/size) 1=1600/Mechanical, 9=1600/0-3-8
 Max Horz 1=-137(LC 15)
 Max Uplift 1=-148(LC 10), 9=-148(LC 11)
 Max Grav 1=1682(LC 2), 9=1682(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-3185/590, 2-4=-2957/560, 4-5=-2134/476, 5-6=-2134/476, 6-8=-2957/560, 8-9=-3185/590
 BOT CHORD 1-14=-450/2780, 12-14=-289/2326, 10-12=-289/2326, 9-10=-450/2780
 WEBS 5-12=-262/1532, 6-12=-716/247, 6-10=-51/598, 8-10=-359/201, 4-12=-716/247, 4-14=-51/598, 2-14=-359/201

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 1=148, 9=148.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



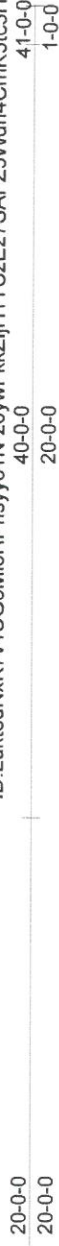
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930340
18101894	A1GE	GABLE	2	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:04 2018 Page 1
 ID:Lukt8dNkK7v4CG3MioHPHsyyo1N-z0YwFkkZjH1TCzE27SAFZ5Wdn4CmK3tc3HGwsyUs31



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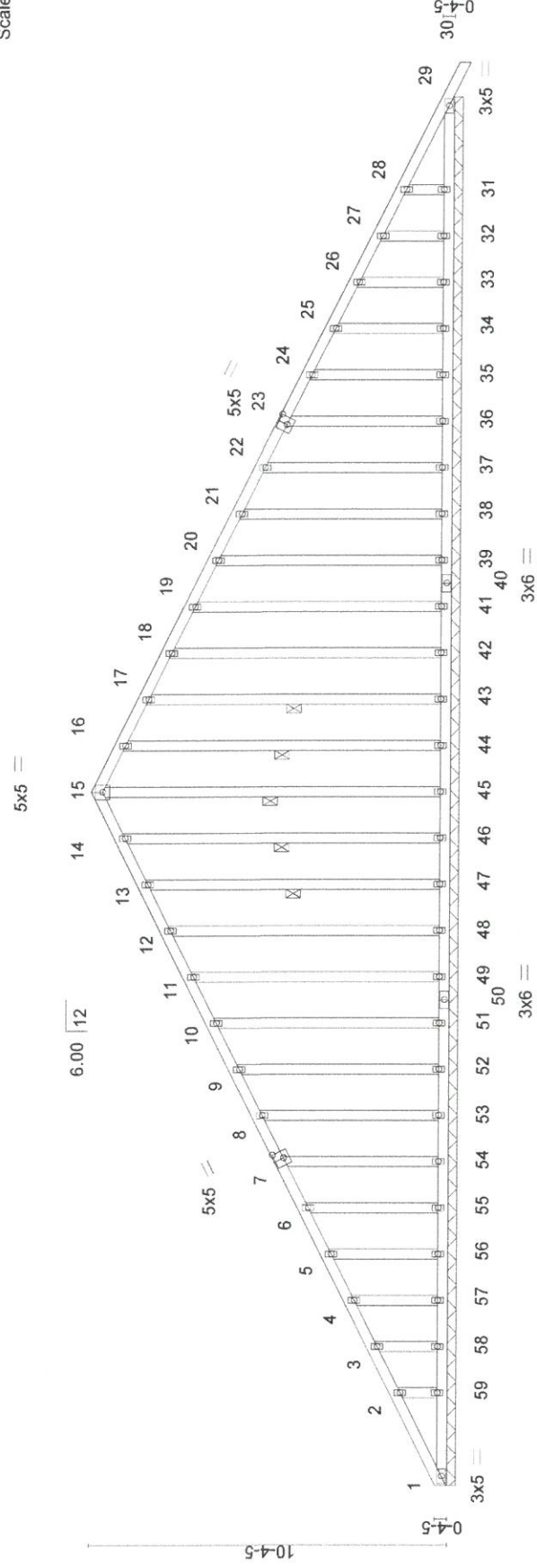


Plate Offsets (X,Y) - [7:0-2-8,0-3-0], [23:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.08	Vert(LL)	-0.00	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL)	0.00	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(TL)	0.01	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purfins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 15-45, 14-46, 13-47, 16-44, 17-43

Weight: 342 lb FT = 20%

REACTIONS.

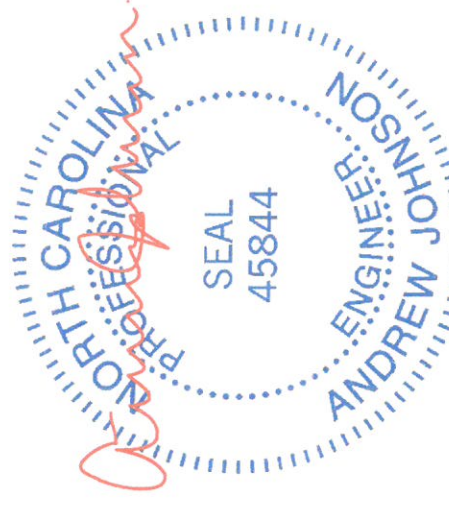
All bearings 40-0-0.
 (lb) - Max Horz 1=-149(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31
 Max Grav All reactions 250 lb or less at joint(s) 1, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 29

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 14-15=-91/251, 15-16=-91/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930341
18101894	B	Common Truss	1	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:05 2018 Page 1
 ID:Fja9h?EETweBLVIU6Sbs?z3kws-RCWIS4k31P4u5MYRbrzPomefKbGEV1r1qj1pSlyUs30



Scale = 1:50.2

4x4 =

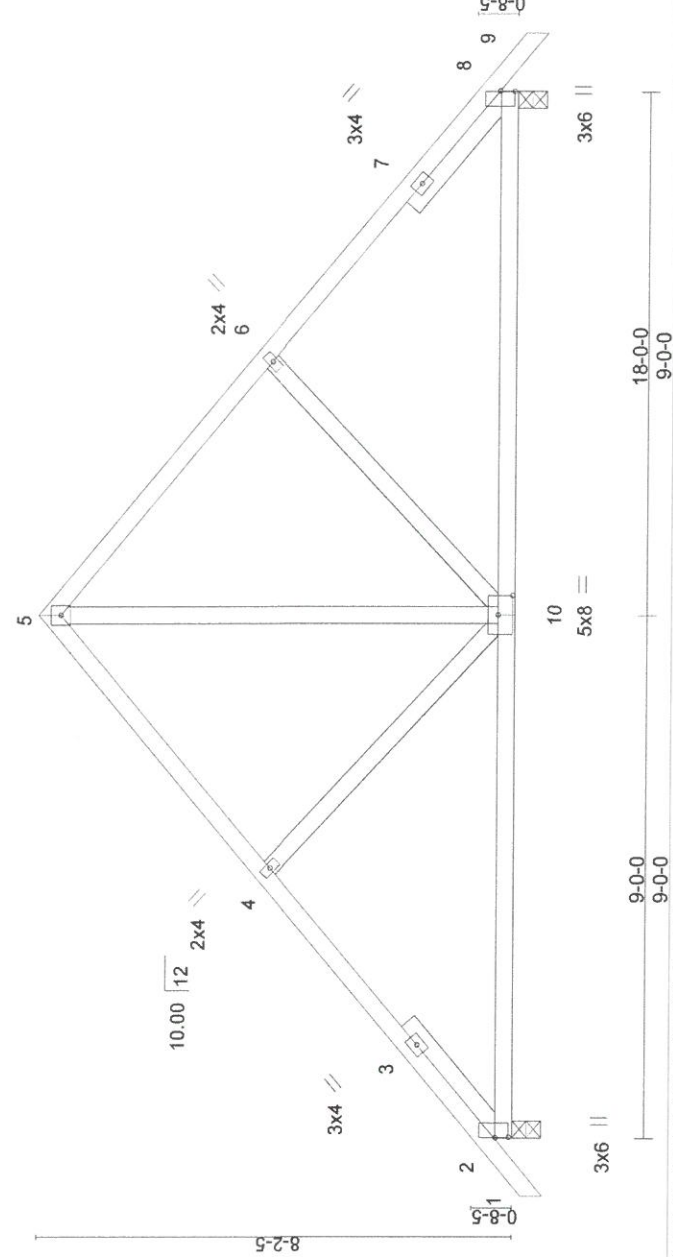


Plate Offsets (X,Y) = [2,0-2,-12,0-0-1], [8,0-3-0,0-0-1], [10,0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.21	Vert(LL) >999	-0.09 10-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(TL) >942	-0.23 10-17	>942	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(TL) 0.01	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-AS						

Weight: 102 lb FT = 20%

LUMBER-

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.3
- SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

BRACING-

- TOP CHORD Structural wood sheathing directly applied.
- BOT CHORD Rigid ceiling directly applied.

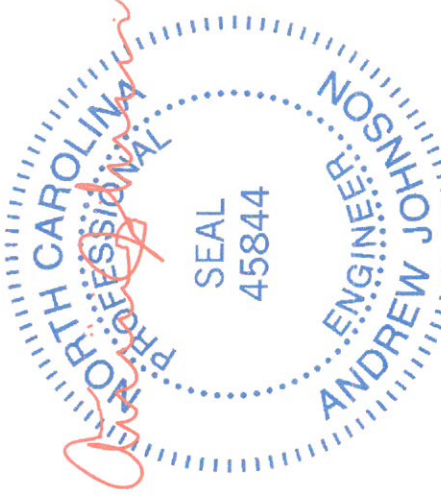
- REACTIONS.** (lb/size) 2=780/0-3-8, 8=780/0-3-8
 Max Horz 2=169(LC 9)
 Max Uplift 2=68(LC 10), 8=68(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- TOP CHORD 2-4=-716/145, 4-5=-656/157, 5-6=-656/157, 6-8=-716/145
- BOT CHORD 2-10=-86/626, 8-10=-14/590
- WEBS 5-10=-96/510

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vu11=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 18101894	Truss BGE	Truss Type GABLE	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930342
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8:220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:07 2018 Page 1
ID: Yo_NbajzbPg3_pkNu?HF2uz3kx0-Nbe2mmRbefckgipjF0ttBj14_6BzgyJ1WwXByUs3_



Scale = 1:50.6

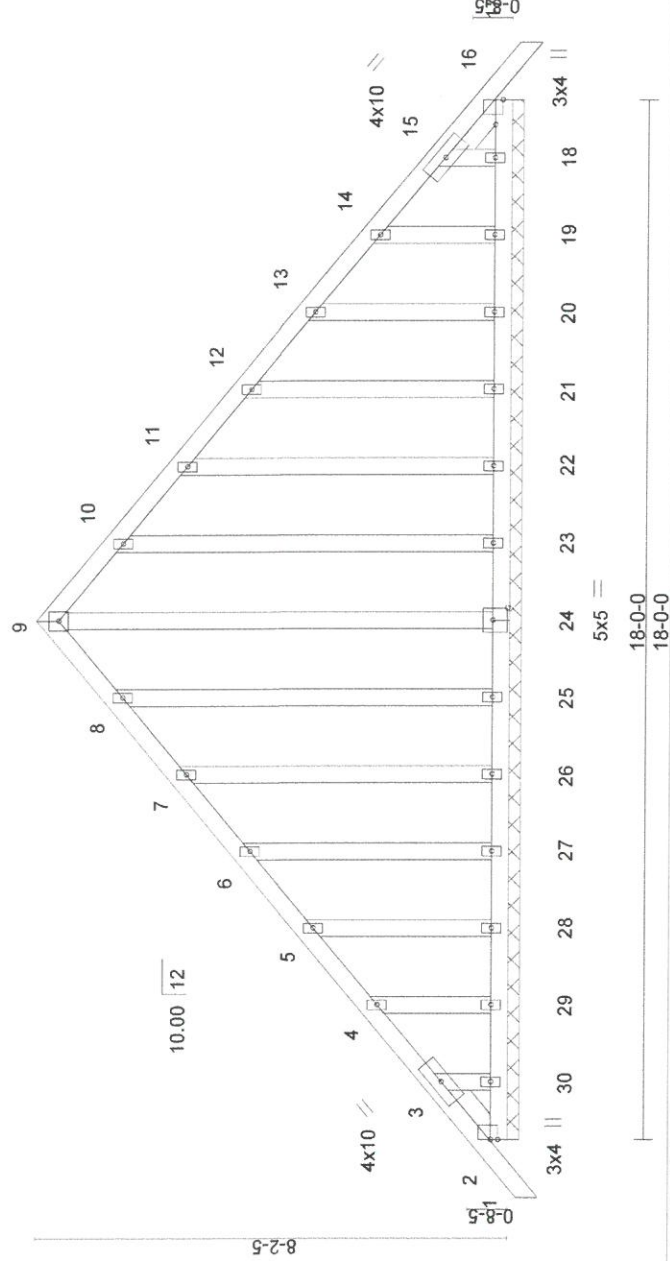


Plate Offsets (X, Y) - [16:Edge,0-5-3], [24:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.07	Vert(LL) -0.00	17	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00	17	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(TL) 0.00	16	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-S						

LUMBER-

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- OTHERS 2x4 SP No.3
- SLIDER Left 2x4 SP No.2 1-1-8, Right 2x4 SP No.2 1-1-8

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.

Weight: 148 lb FT = 20%

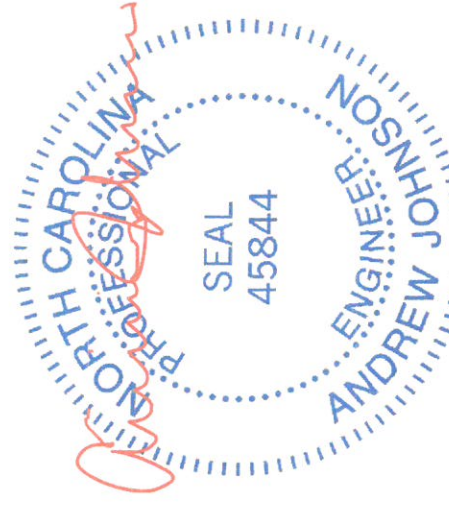
REACTIONS.

- All bearings 18-0-0.
- (lb) - Max Horz 2=-169(LC 8)
- Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18
- Max Grav All reactions 250 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCCL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	18101894	Truss	BGR	Truss Type	COMMON GIRDER	Qty	1	Ply	3	Lot-72-CLK/2317-Jasper-A2/RF	134930343
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:08 2018 Page 1
 ID:RfHz1Ei11EkM7Qn?mVbvzyyEhil-mCR46n3MynSyPH0HzX6PPG7YOHR?ITXhFT2dyUsZz



Scale = 1:51.9

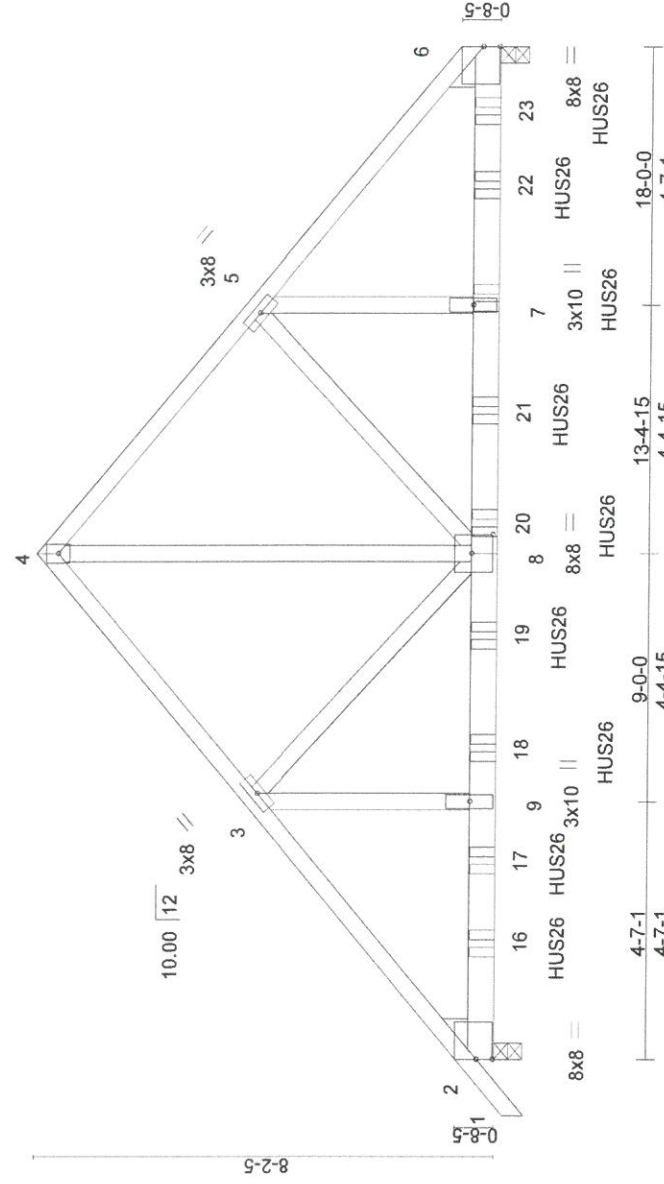


Plate Offsets (X, Y)-- [2:Edge,0-3-7], [6:0-0-0,0-3-7], [8:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.34	Vert(LL) -0.08	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(TL) -0.18	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.66	Horz(TL) 0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-MSH						

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except
 4-8: 2x4 SP No.2

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

(lb/size) 6=8189/0-3-8, 2=7450/0-3-8
 Max Horz 2=163(LC 7)
 Max Uplift 6=679(LC 9), 2=630(LC 8)
 Max Grav 6=8493(LC 2), 2=7700(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-9496/780, 3-4=-6558/611, 4-5=-6561/611, 5-6=-9580/785
 BOT CHORD 2-9=-624/7214, 8-9=-624/7214, 7-8=-557/7291, 6-7=-557/7291
 WEBS 4-8=-689/8072, 5-8=-3123/374, 5-7=-274/3860, 3-8=-3018/364, 3-9=-265/3755

NOTES-

- 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vu/I=115mph (3-second gust) V(IIRC2012)=91mph; TC/DL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 6=679, 2=630.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 16-10-4 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2



October 10, 2018

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ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 18101894	Truss BGR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Lot-72-CLK/2317-Jasper-A2/RF	134930343
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:08 2018 Page 2
 ID: Rfnz1Eil1EKm7Qn?mVbvzyyEhil-mCR46n3MynSyPH0HzX6PPG7YOHRI?ITXhFT2dyUsZz

LOAD CASE(S) Standard

Uniform Loads (plf)
 Vert. 1-4=-60, 4-6=-60, 10-13=-20
 Concentrated Loads (lb)
 Vert. 7=-1572(F) 16=-1571(F) 17=-1571(F) 18=-1571(F) 19=-1571(F) 20=-1571(F) 21=-1571(F) 22=-1572(F) 23=-1572(F)



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ENGINEERING BY

A MITek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 18101894	Truss F	Truss Type Common	Qty 5	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930344
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:09 2018 Page 1
ID:PVc7jxLhoWMyvzbNFxcRyyo1P-K_mplRoi7FwJazsCgg2LycoJYohnRawclL71a4yUszy



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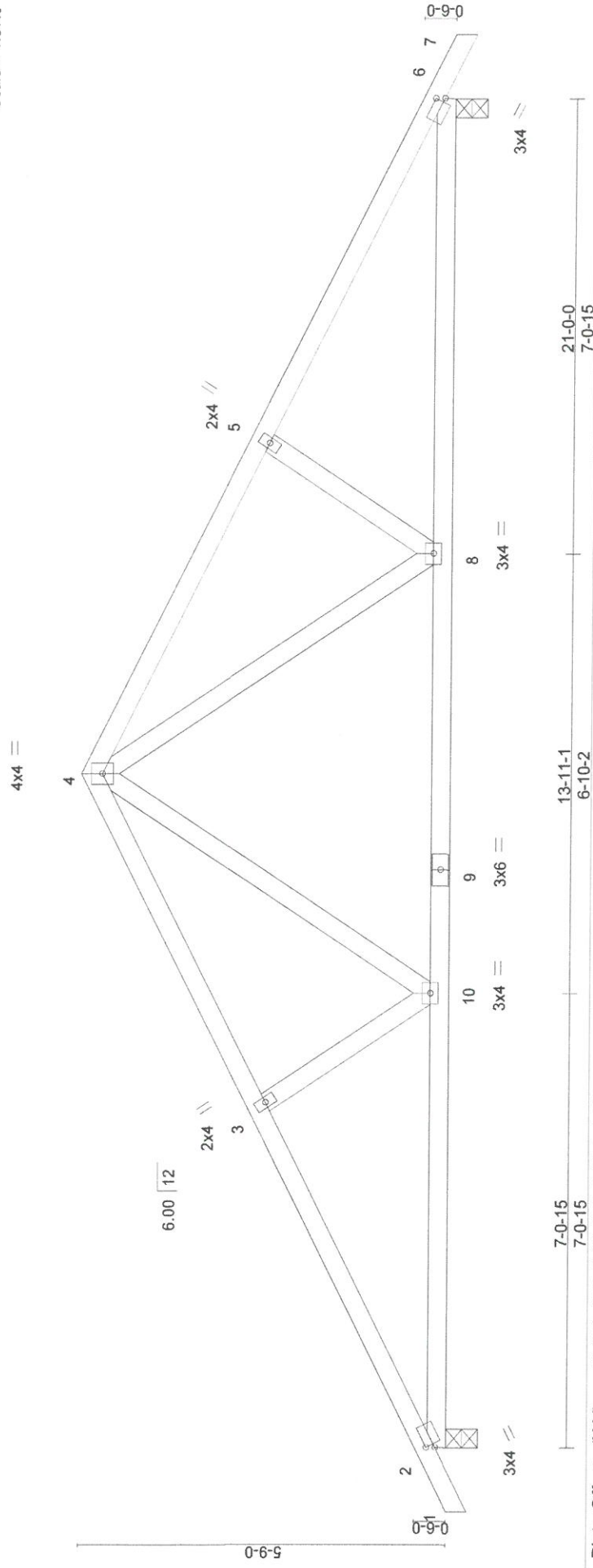


Plate Offsets (X, Y)-- [2:0-0-12,0-1-8], [6:0-0-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.26	Vert(LL) -0.05	8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(TL) -0.16	8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(TL) 0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-AS						

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

Weight: 97 lb FT = 20%

REACTIONS.

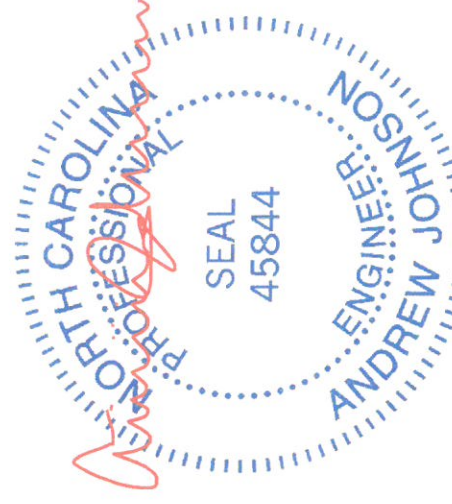
(lb/size) 2=900/0-3-8, 6=900/0-3-8
Max Horz 2=-79(LC 11)
Max Uplift 2=-94(LC 10), 6=-94(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1407/283, 3-4=-1244/290, 4-5=-1244/290, 5-6=-1407/283
BOT CHORD 2-10=-166/1198, 8-10=-44/815, 6-8=-166/1198
WEBS 4-8=-73/456, 5-8=-294/156, 4-10=-73/456, 3-10=-294/156

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TC DL=5.0psf, h=35ft; Cat. II, Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 10, 2018

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818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss FGE	Truss Type GABLE	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	I34930345
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The Building Center Inc., Gastonia, NC 28052
 8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:11 2018 Page 1
 ID:PVc7jxLhoWMyvzbNFxcRyyo1P-GMuZj7pyfA1pH?by54p11ui5bTBvWbvDFU7fyUs2w



Scale = 1:39.8

Plate Offsets (X, Y)-- [28:0-1-12,0-0-0], [29:0-3-0,0-1-4], [29:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.07	Vert(LL) -0.00	19	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00	19	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00	18	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-S						

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 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.

Weight: 130 lb FT = 20%

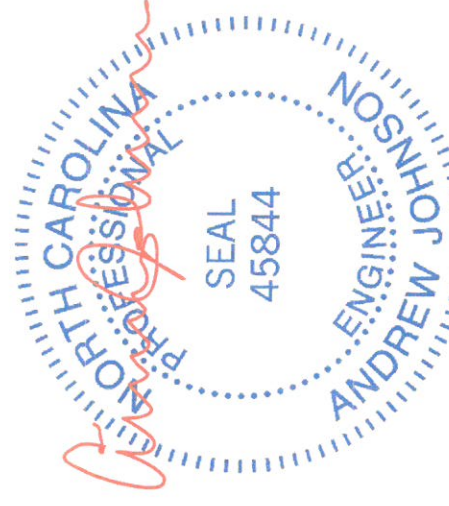
REACTIONS.

All bearings 21-0-0.
 (lb) - Max Horz 2=-79(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18
 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCCL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 1-4-0 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 with a clearance greater than 6-0-0 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, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18.



October 10, 2018

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818 Soundside Road
 Edenton, NC 27932

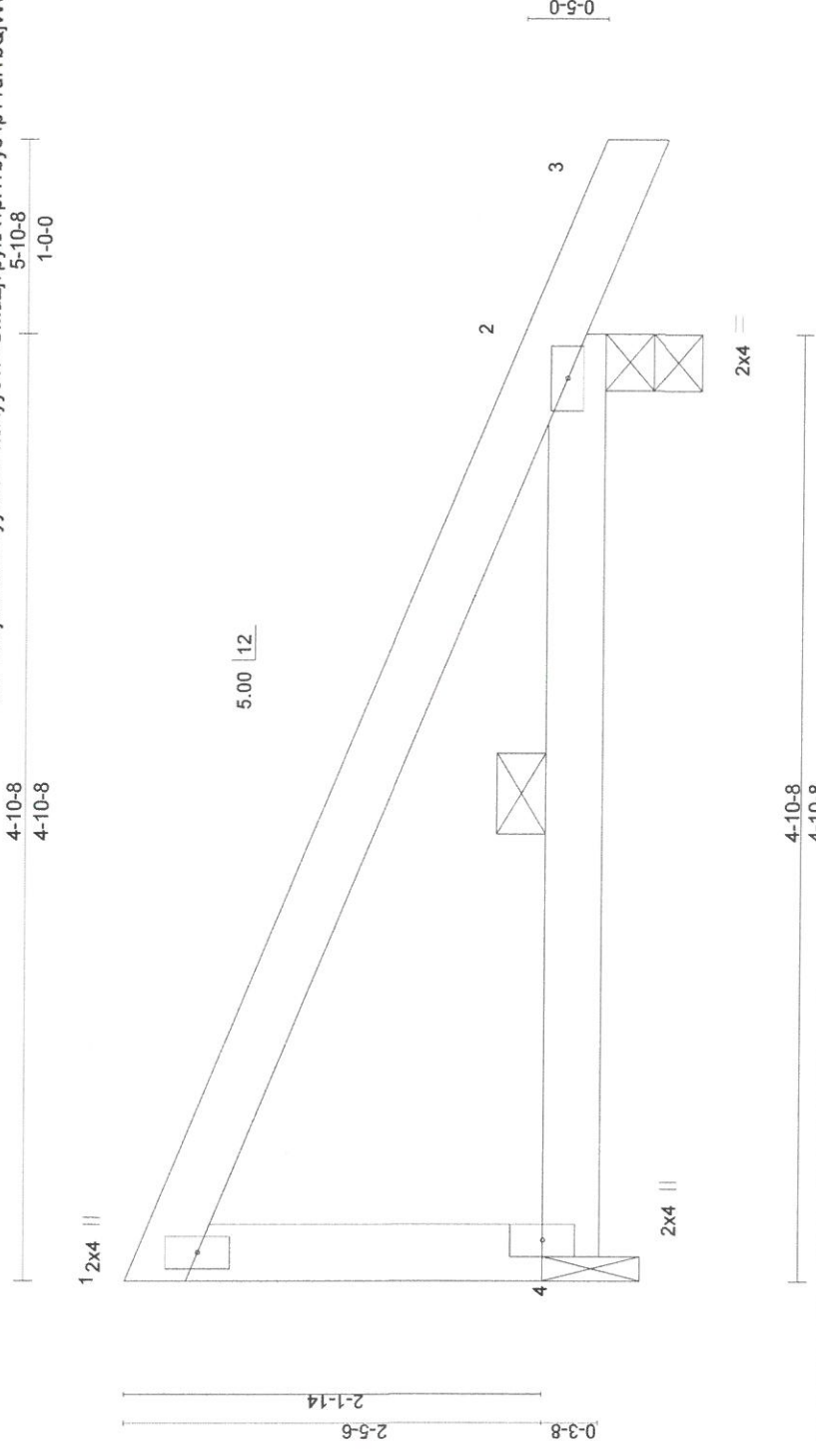
Job	18101894	Truss	H1	Truss Type	ROOF SPECIAL	Qty	8	Ply	1	Lot-72-CLK/2317-Jasper-A2/RF	I34930346
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:11 2018 Page 1
 ID:PVc7jxLhoWMMyvzbNFxcRyyo1P-GMuZj7pyfRA1pH?by54p11ufTbQjWwMvDfU7fyU52w

Scale = 1:15.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.30	Vert(LL) -0.02	4-7	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(TL) -0.06	4-7	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	2	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-AS					

Weight: 19 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD 4-0-0 oc bracing.

REACTIONS. (lb/size) 2=256/0-3-8, 4=183/0-1-8

Max Horz 4=-74(LC 11)
 Max Uplift 2=-32(LC 11), 4=-40(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IR2012)=91mph; TC DL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



October 10, 2018

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 Edenton, NC 27932

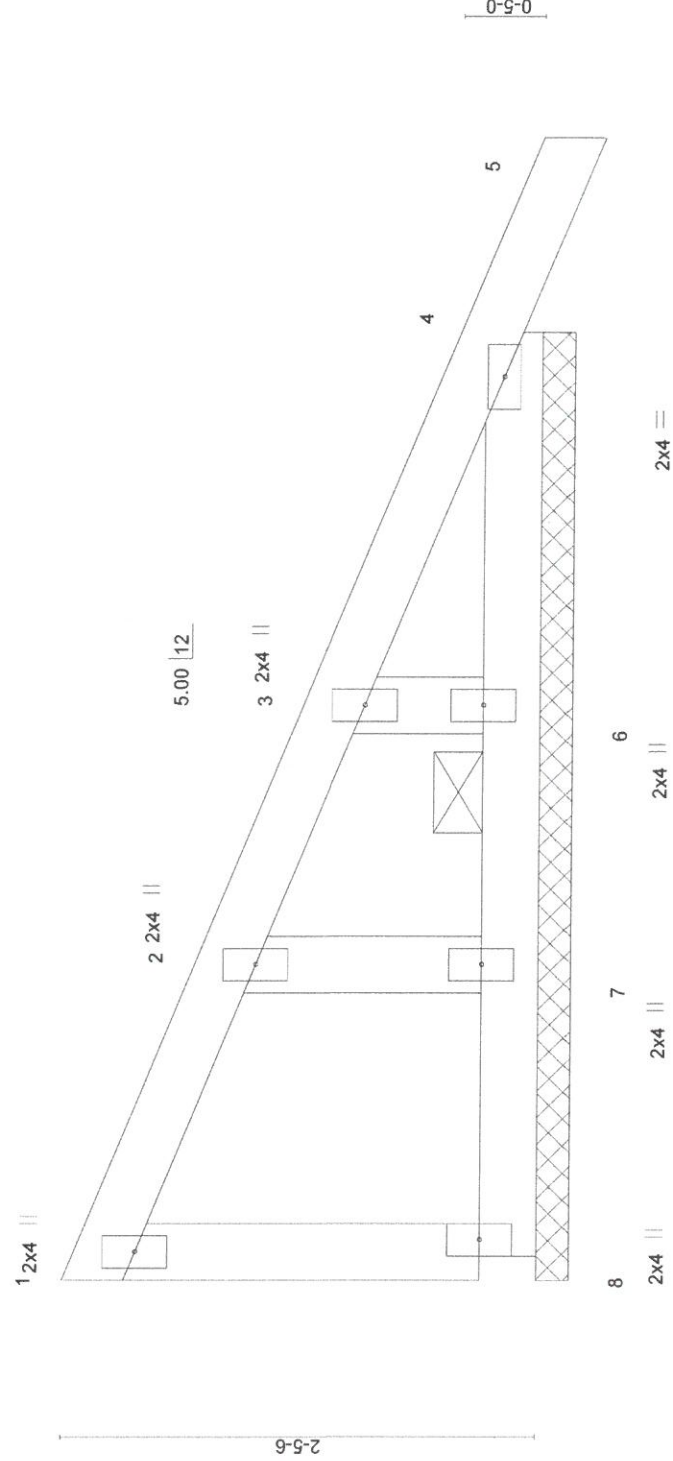
Job 18101894	Truss H1GE	Truss Type GABLE	Qty 2	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	I34930347
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:12 2018 Page 1
 ID:PVc7jxLhoWfMyvzbNFxcRyyo1P-kZRxxwTqaQAIuRRanWpb2afQIq?pnZD3RJdHBPYU52v

Scale = 1:15.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.07	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00	4	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-P						

Weight: 22 lb FT = 20%

LUMBER-

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.3
- OTHERS 2x4 SP No.3

BRACING-

- TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.
- BOT CHORD 4-0-0 oc bracing.

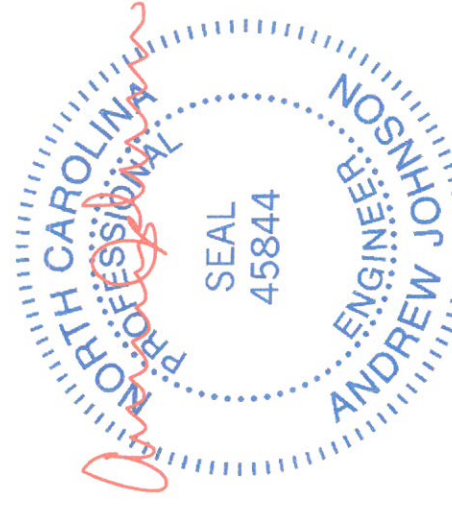
REACTIONS.

- All bearings 4-10-8.
- (lb) - Max Horz 8=74(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 8, 4, 7, 6
- Max Grav All reactions 250 lb or less at joint(s) 8, 4, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TC DL=5.0psf, BC DL=5.0psf, h=35ft, Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 7, 6.



October 10, 2018

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818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss J	Truss Type Common	Qty 2	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930348
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:13 2018 Page 1
 ID:X0u1ROVrkWHW0yPTrc_eByyo1C-CI7K7prCBUQI2b9z3W7H6Sz1gP0KNO_CgyzEjryUs2u
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 4-2-6 4-8-10 1-0-0

Scale: 3/8"=1'

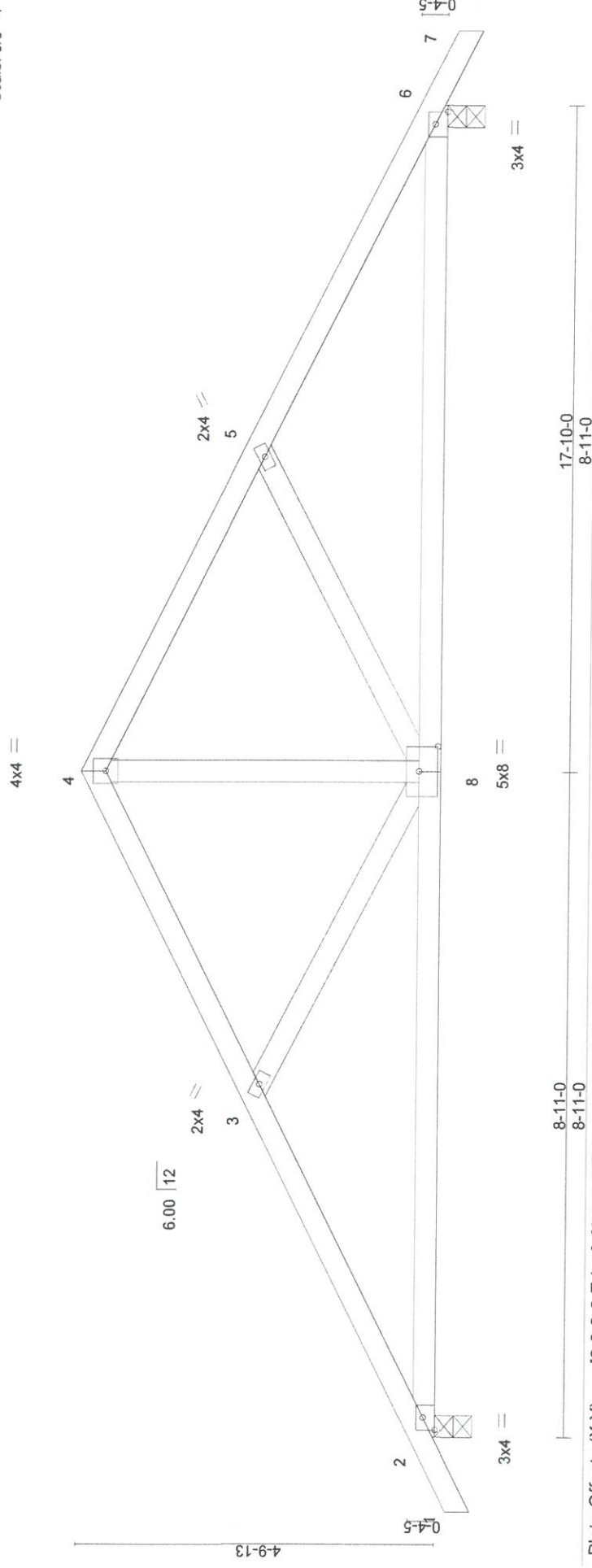


Plate Offsets (X, Y) - [2:0-2-0,Edge], [6:0-2-0,Edge], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.08	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(TL) -0.22		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(TL) 0.03		
BCDL 10.0	Code IRC2012/TP12007	Matrix-AS			

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

Weight: 80 lb FT = 20%

REACTIONS.

(lb/size) 2=773/0-3-8, 6=773/0-3-8
 Max Horz 2=68(LC 14)
 Max Uplift 2=-84(LC 10), 6=-84(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

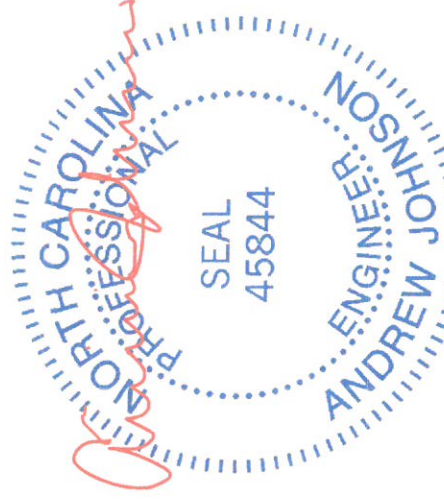
TOP CHORD 2-3=-1121/261, 3-4=-845/193, 4-5=-845/193, 5-6=-1121/261
 BOT CHORD 2-8=-152/958, 6-8=-152/958
 WEBS 4-8=-56/460, 5-8=-305/152, 3-8=-305/152

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCCL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



October 10, 2018

ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930349
18101894	JGE	GABLE	1	1		

The Building Center Inc., Gastonia, NC 28052
 8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:14 2018 Page 1
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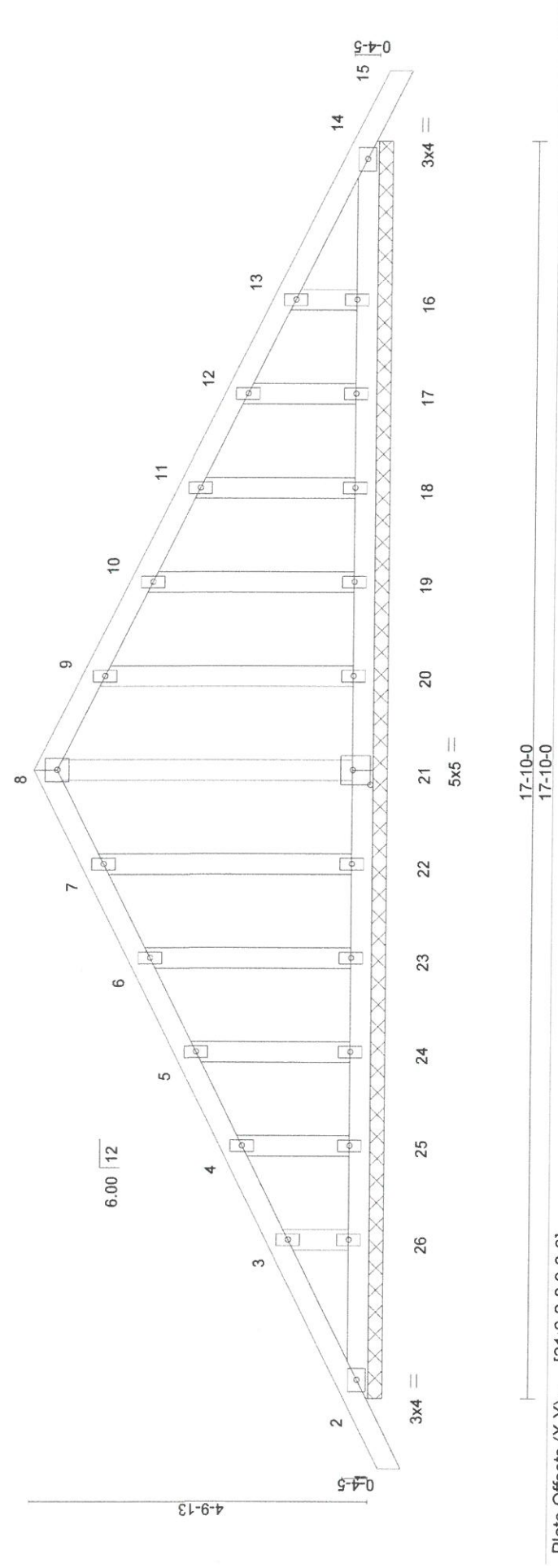
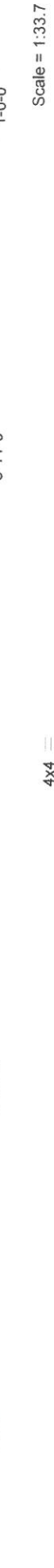


Plate Offsets (X,Y)-- [21:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	14	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00	15	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00	14	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

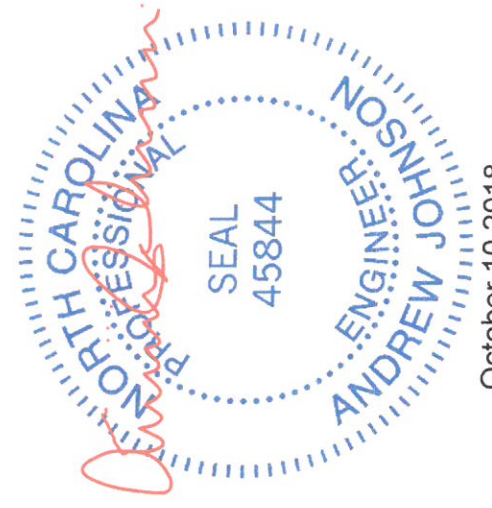
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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.

REACTIONS. All bearings 17-10-0.
 (lb) - Max Horz 2=-68(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, 16
 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IR2012)=91mph; TC DL=5.0psf, BC DL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 1-4-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, and 16. This connection is for uplift only and does not consider lateral forces.



October 10, 2018

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 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	18101894	Truss	JGR	Truss Type	COMMON GIRDER	Qty	1	Ply	2	Lot:72-CLK/2317-Jasper-A2/RF	134930350
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The Building Center Inc., Gastonia, NC 28052
 8-220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:16 2018 Page 1
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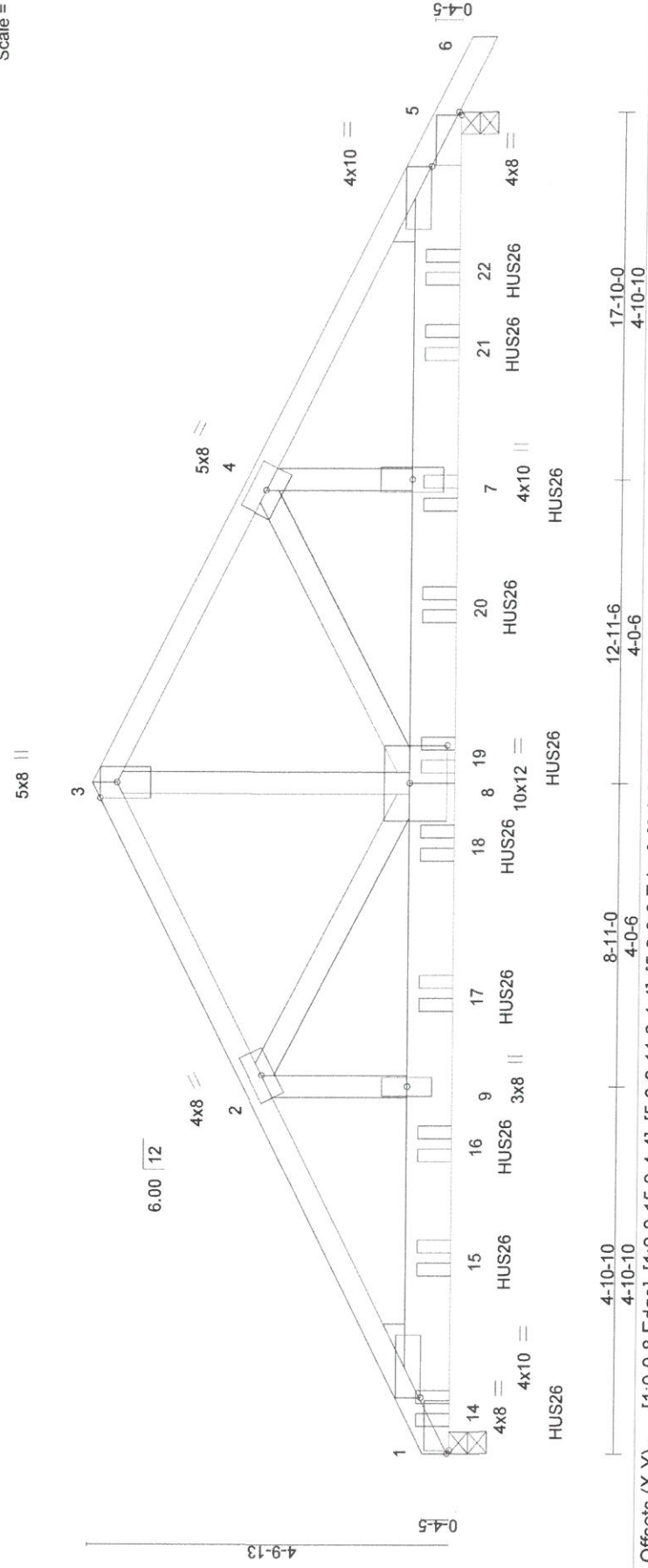


Plate Offsets (X,Y)-- [1:0-0-8,Edge], [1:0-8-15,0-4-4], [5:0-8-11,0-4-4], [5:0-0-8,Edge], [8:0-6-0,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.95	Vert(LL) -0.16	8-9	>999	360	MT20	137/130
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(TL) -0.38	8-9	>556	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.95	Horz(TL) 0.10	5	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-MSH						

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 3-6: 2x4 SP DSS
 BOT CHORD 1-1/2X7-1/4 LP-LSL TC 1.75E
 WEBS 2x4 SP No.3 *Except*
 3-8: 2x4 SP No.1
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 1=9012/0-3-8, 5=8600/0-3-8
 Max Horz 1=-75(LC 9)
 Max Uplift 1=-785(LC 8), 5=-794(LC 9)
 Max Grav 1=9332(LC 2), 5=8853(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-15177/1299, 2-3=-10933/967, 3-4=-10933/969, 4-5=-15893/1390
 BOT CHORD 1-9=-1164/13556, 8-9=-1164/13556, 7-8=-1179/14207, 5-7=-1179/14207
 WEBS 3-8=-794/9492, 4-8=-5149/528, 4-7=-364/4587, 2-8=-4396/430, 2-9=-276/3911

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 244 lb FT = 20%

NOTES-
 1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
 Bottom chords connected as follows: 1-1/2x7-1/4 - 2 rows staggered at 0-3-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

5) The solid section of the plate is required to be placed over the splice line at joint(s) 8.

6) Plate(s) at joint(s) 8 checked for a plus or minus 1 degree rotation about its center.

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

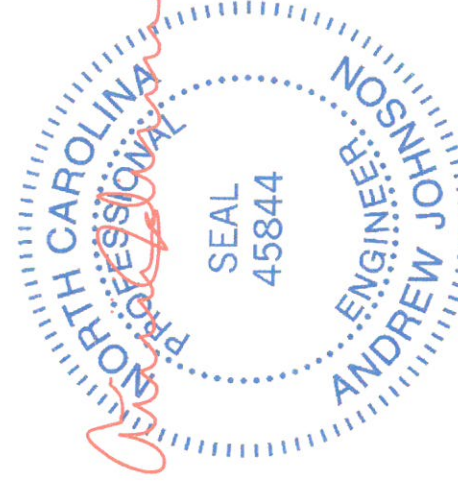
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=785, 5=794.

10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 15-9-4 to connect truss(es) to front face of bottom chord.

11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
 Continued on page 2



October 10, 2018

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ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 18101894	Truss JGR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Lot-72-CLK/2317-Jasper-A2/RF	134930350
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

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8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:16 2018 Page 2

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1641(F) 14=-1577(F) 15=-1572(F) 16=-1572(F) 17=-1572(F) 18=-1641(F) 19=-1641(F) 20=-1641(F) 21=-1641(F) 22=-1641(F)



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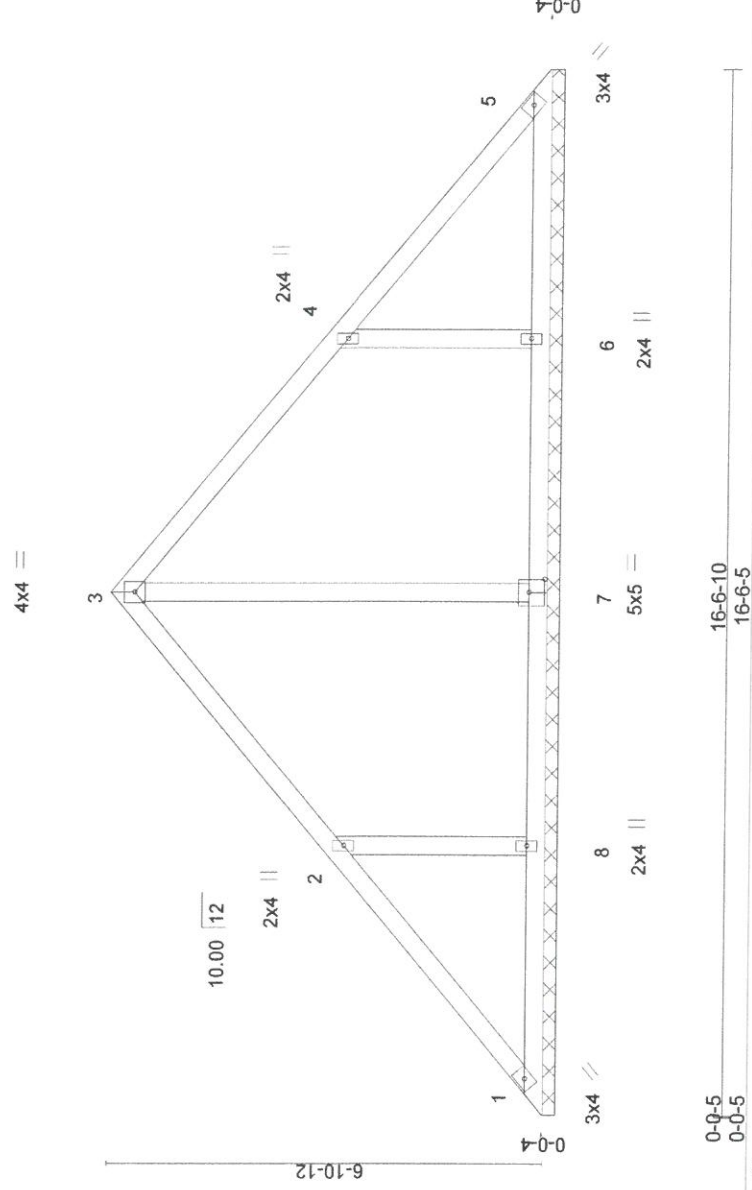
ENGINEERING BY
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930351
18101894	V1	Valley Truss	1	1		

The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:17 2018 Page 1
 ID:X0u1ROVrkWHW0yPTrc_eByyo1C-5WFqzAjEjwBXCtkMBDH18iCOU9JCwobaxSscyUszq
 16-6-10
 8-3-5
 8-3-5
 Job Reference (optional)

Scale = 1:46.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.22	Vert(LL) n/a	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(TL) n/a	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(TL) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-S						

Weight: 73 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 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.

REACTIONS.

(lb) - All bearings 16-6-0.
 (lb) - Max Horz 1=-133(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-161(LC 10), 6=-161(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=358(LC 20), 8=450(LC 17), 6=450(LC 18)

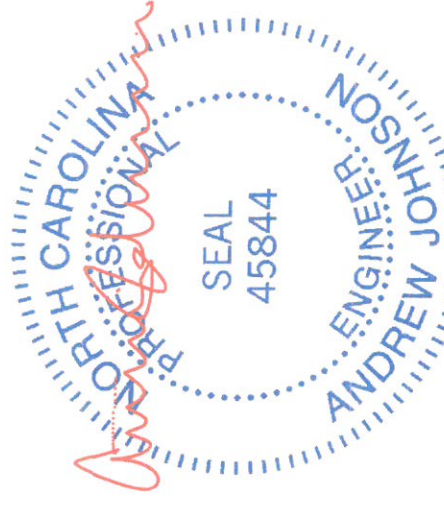
FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-297/198, 4-6=-296/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IR:2012)=91mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=161, 6=161.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=161, 6=161.



October 10, 2018

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 Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

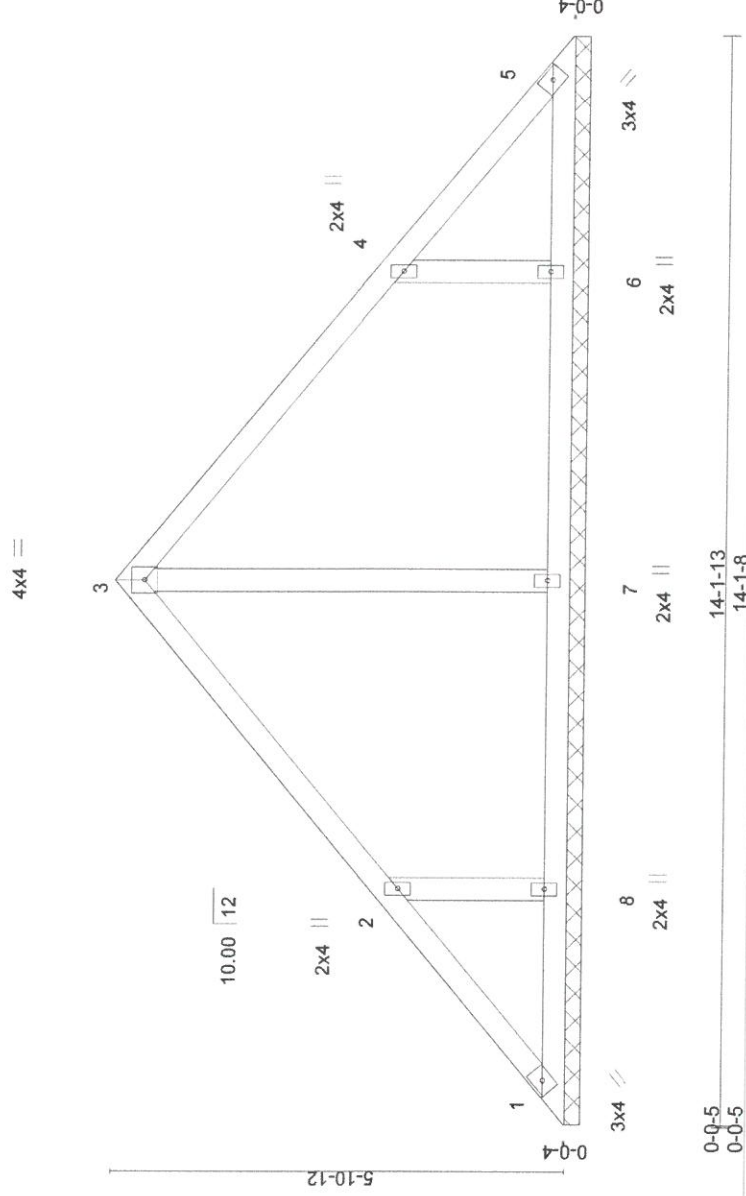


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930352
18101894	V2	Valley Truss	1	1		

The Building Center Inc., Gastonia, NC 28052
 8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:18 2018 Page 1
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 14-1-13
 7-0-14
 7-0-14
 Job Reference (optional)

Scale = 1:37.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.18	Vert(LL) n/a	-	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(TL) n/a	-	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(TL) 0.00	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S					

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 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.

Weight: 61 lb FT = 20%

REACTIONS.

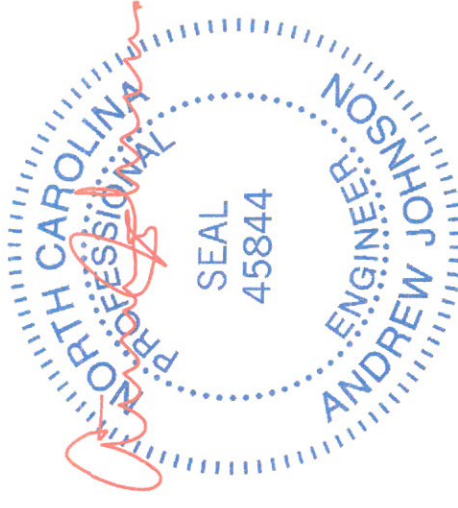
All bearings 14-1-3.
 (lb) - Max Horz 1=112(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-139(LC 10), 6=-139(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=334(LC 17), 6=334(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-258/174, 4-6=-258/174

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; V_{ult}=115mph (3-second gust) V_(IRC2012)=91mph; TC_{DL}=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (j=lb) 8=139, 6=139.



October 10, 2018

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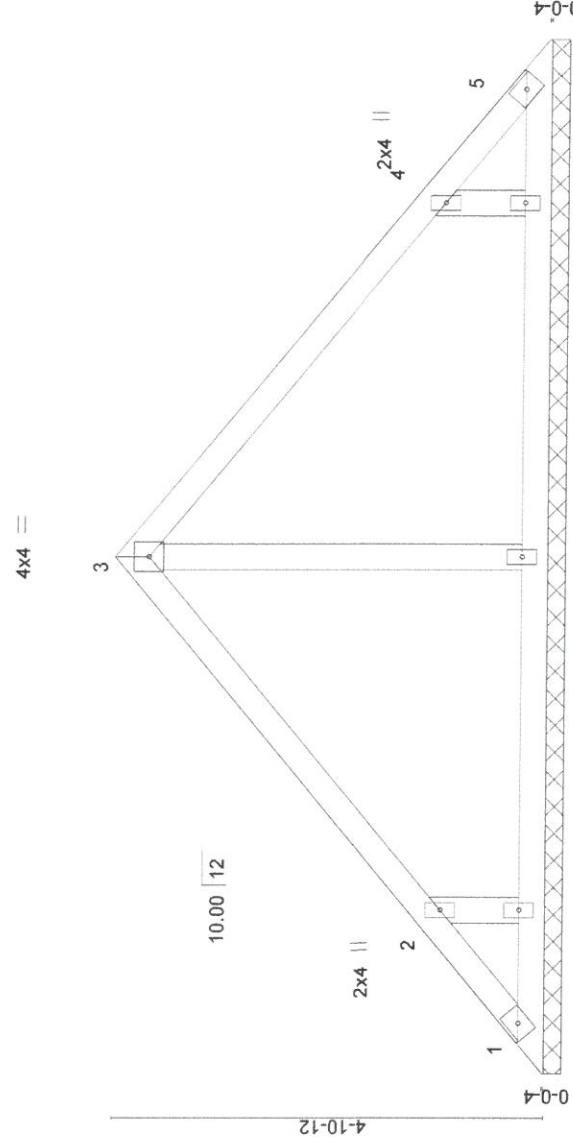
Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930353
18101894	V3	Valley Truss	1	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:18 2018 Page 1
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Scale = 1:33.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.19	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

Weight: 48 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 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.

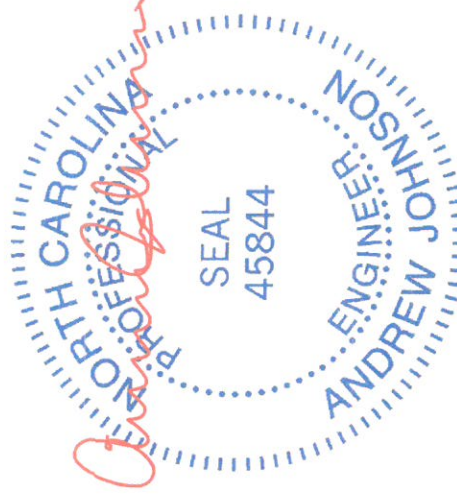
REACTIONS.

All bearings 11-8-6.
 (lb) - Max Horz 1--92(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8--133(LC 10), 6--132(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=309(LC 17), 6=309(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=133, 6=132.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

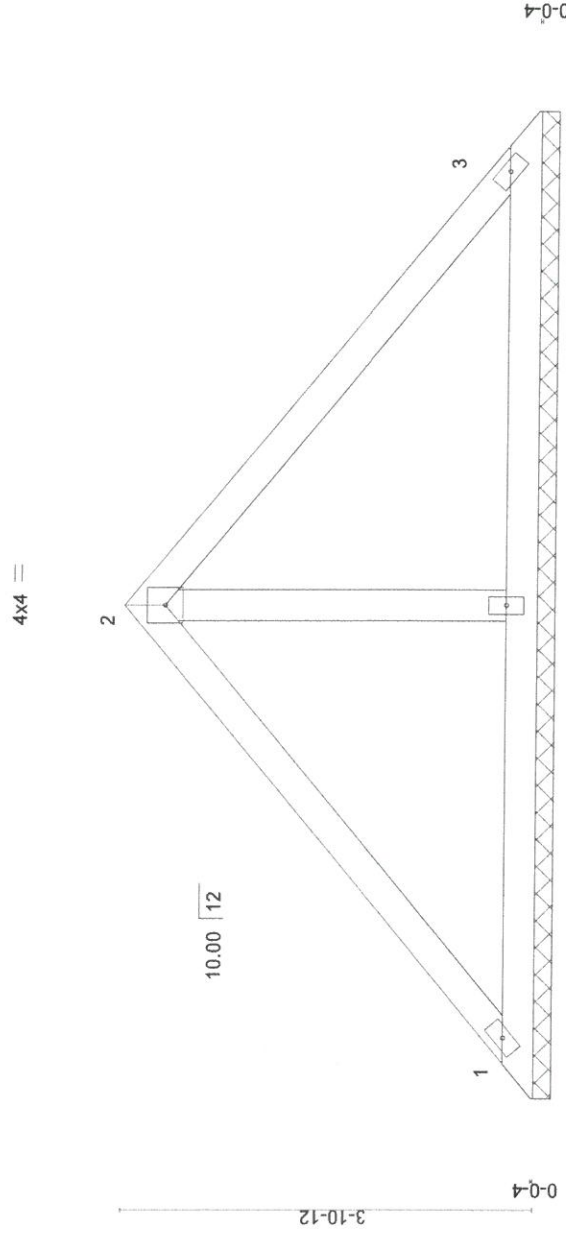
Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930354
18101894	V4	Valley Truss	1	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:19 2018 Page 1
 ID: X0u1ROVrkWHW0yPTrc_eByyo1C-1vMbOsvzmKAvmWc7QnDhmjD14qAdn7T43uQYxyUs2o
 9-4-3
 4-8-2

Scale = 1:27.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.26	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(TL)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 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.

Weight: 35 lb FT = 20%

REACTIONS. (lb/size) 1=181/9-3-10, 3=181/9-3-10, 4=322/9-3-10
 Max Horz 1=72(LC 7)
 Max Uplift 1=23(LC 11), 3=-32(LC 11), 4=-3(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) VIRC(2012)=91mph, TCDL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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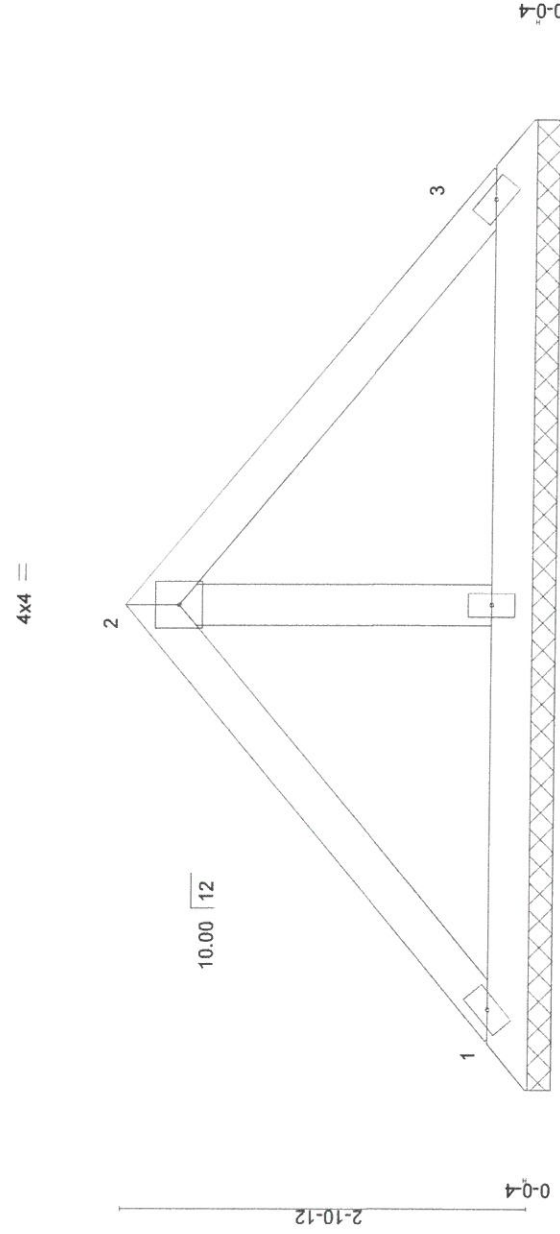
Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930355
18101894	V5	Valley Truss	1	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:20 2018 Page 1
 ID:X0u1ROVrkWHW0yPTrc_eByyo1C-V5wzbCwbXellOIBJ_UlwwxmE5EXEWa7EHY96TyUs2n

Scale = 1:20.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.18	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(TL)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-P						

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 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.

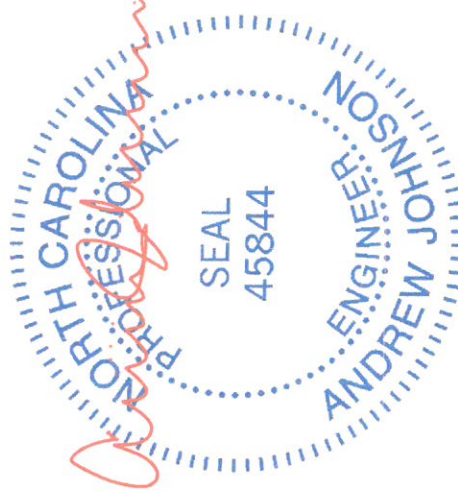
Weight: 26 lb FT = 20%

REACTIONS. (lb/size) 1=141/6-10-13, 3=141/6-10-13, 4=210/6-10-13
 Max Horz 1=52(LC 7)
 Max Uplift 1=-24(LC 11), 3=-30(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vu1t=115mph (3-second gust) V(IR2012)=91mph; TCDL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



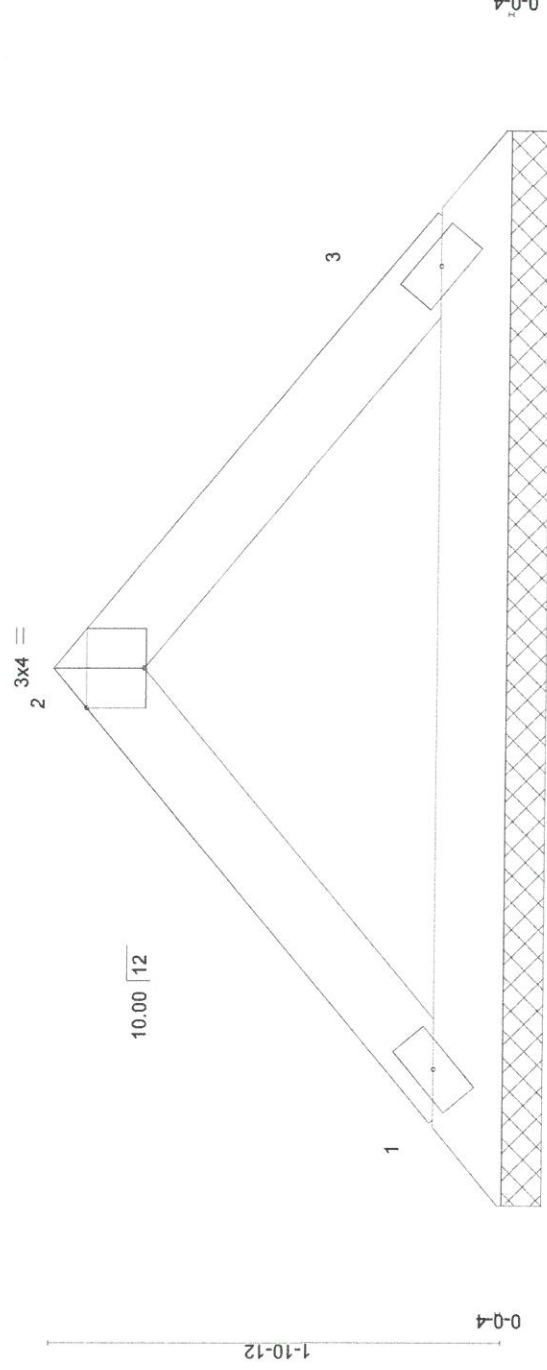
818 Soundside Road
 Edenton, NC 27932

Job	18101894	Truss	V6	Truss Type	Valley Truss	Qty	1	Ply	1	Lot-72-CLK/2317-Jasper-A2/RF	134930356
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)
 8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:21 2018 Page 1
 ID:X0u1ROVrkWHW0yPTrc_eByyo1C-zHULpYxDixQc0pmWXCG9R8IRdsIF1qNWCvf?NYUs2m

Scale = 1:12.2



2x4

2x4

0-0-5
0-0-5

4-6-10
4-6-5

Plate Offsets (X,Y) - [2:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.06	Vert(LL) n/a	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(TL) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-P						

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

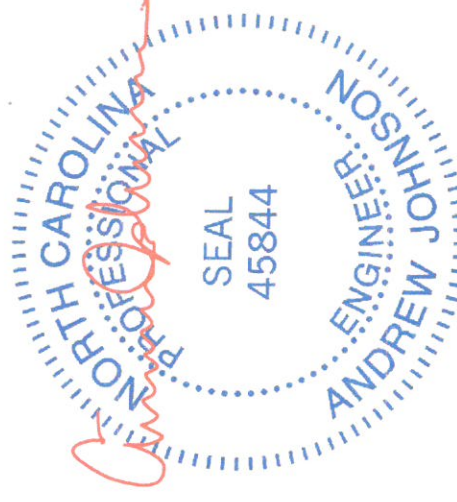
Weight: 14 lb FT = 20%

REACTIONS. (lb/size) 1=150/4-6-0, 3=150/4-6-0
 Max Horz 1=32(LC 9)
 Max Uplift 1=-11(LC 10), 3=-11(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) VIRC(2012)=91mph, TC DL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 10, 2018

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818 Soundside Road
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Job 18101894	Truss VJ1	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930357
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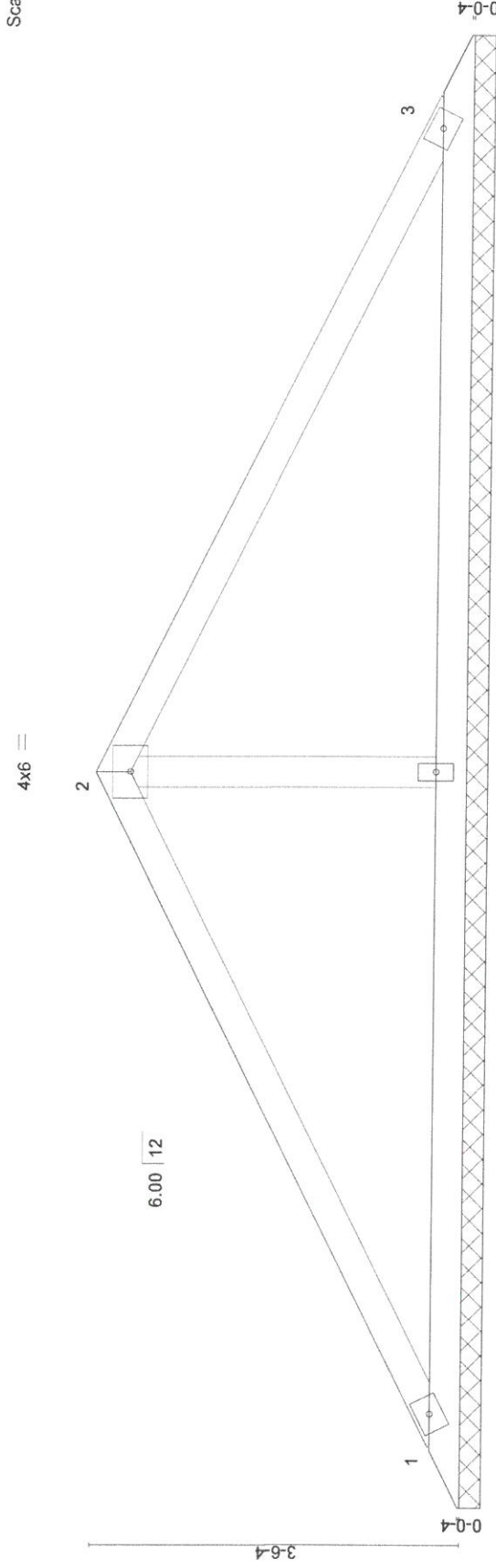
The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:21 2018 Page 1
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Job Reference (optional)

14-1-0
7-0-8

Scale = 1:25.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.61	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(TL)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 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.

Weight: 46 lb FT = 20%

REACTIONS. (lb/size) 1=234/14-0-0, 3=234/14-0-0, 4=558/14-0-0
 Max Horz 1=44(LC 15)
 Max Uplift 1=-38(LC 10), 3=-46(LC 11), 4=-19(LC 10)
 Max Grav 1=236(LC 21), 3=236(LC 22), 4=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-370/144

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TC DL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
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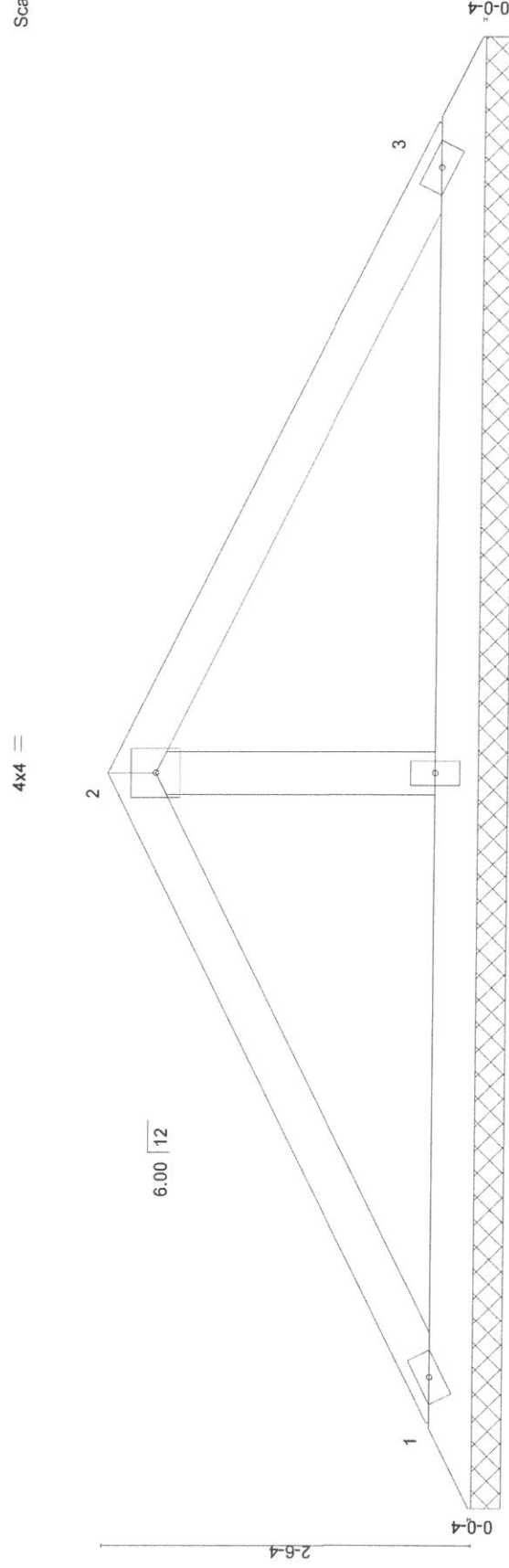


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-72-CLK/2317-Jasper-A2/RF	134930358
18101894	VJ2	Valley Truss	1	1		

The Building Center Inc., Gastonia, NC 28052
 8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:22 2018 Page 1
 ID:3pLrFE2VCzC9fOoqHluS15zyyoTD-RU2j0uyr3FYTDzLi5vmO_MrY51BB_UExIseDXpyUs2l
 10-1-0
 5-0-8
 5-0-8

Scale = 1:18.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.27	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(TL)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						Weight: 32 lb FT = 20%

LUMBER-	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 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.

REACTIONS. (lb/size) 1=161/10-0-0, 3=161/10-0-0, 4=384/10-0-0
 Max Horz 1=30(LC 14)
 Max Uplift 1=-26(LC 10), 3=-32(LC 11), 4=-13(LC 10)
 Max Grav 1=163(LC 21), 3=163(LC 22), 4=384(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-255/113

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 4. This connection is for uplift only and does not consider lateral forces.

connection is for uplift only and does not consider lateral forces.



October 10, 2018

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ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 18101894	Truss VJ3	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930359
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The Building Center Inc., Gastonia, NC 28052
 ID:X0u1ROVrkWHW0yPTrc_eByyo1C-vgc5EEyUqZgkF7wufldWZOmVRVojxKgzWOM4GyUszk
 8.220 s Sep 24 2018 MITek Industries, Inc. Wed Oct 10 09:42:23 2018 Page 1
 Job Reference (optional)
 6-1-0
 3-0-8

Scale = 1:13.0

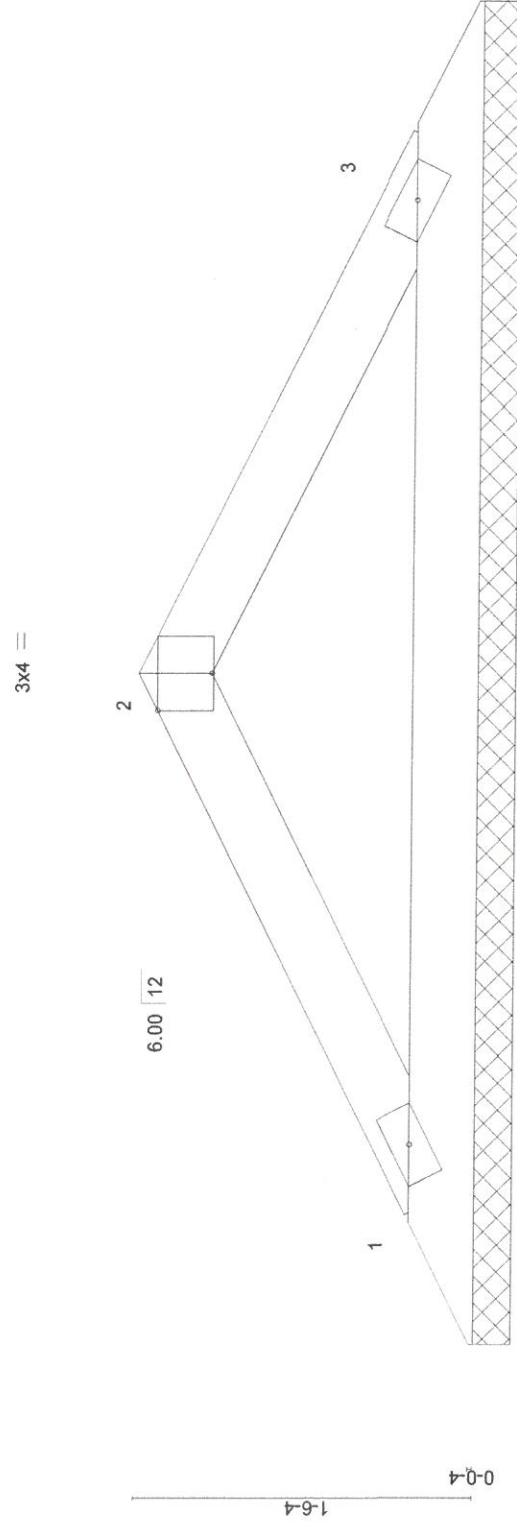


Plate Offsets (X, Y) --	[2:0-2-0, Edge]
0-0-8	6-1-0
0-0-8	6-0-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.10	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(TL) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-P						

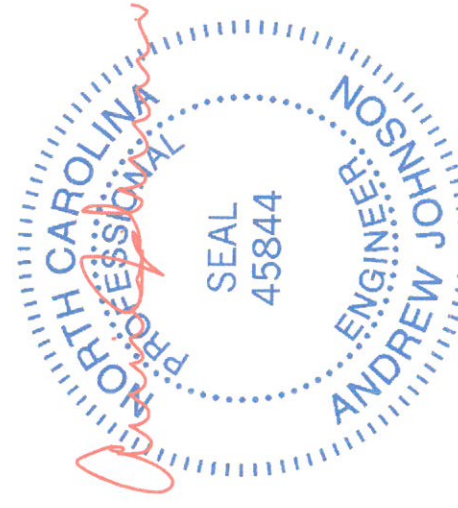
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

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.

REACTIONS. (lb/size) 1=193/6-0-0, 3=193/6-0-0
 Max Horz 1=17(LC 14)
 Max Uplift 1=-18(LC 10), 3=-18(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IR2012)=91mph; TC DL=5.0psf, BCDL=5.0psf, h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



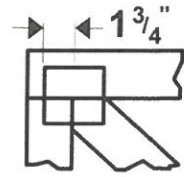
October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

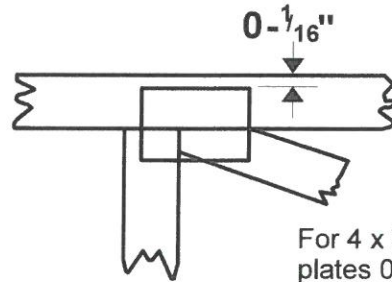
ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

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 0-¹/₁₆" from outside edge of truss.



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

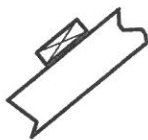
* Plate location details available in MiTek 20/20 software or upon request.

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

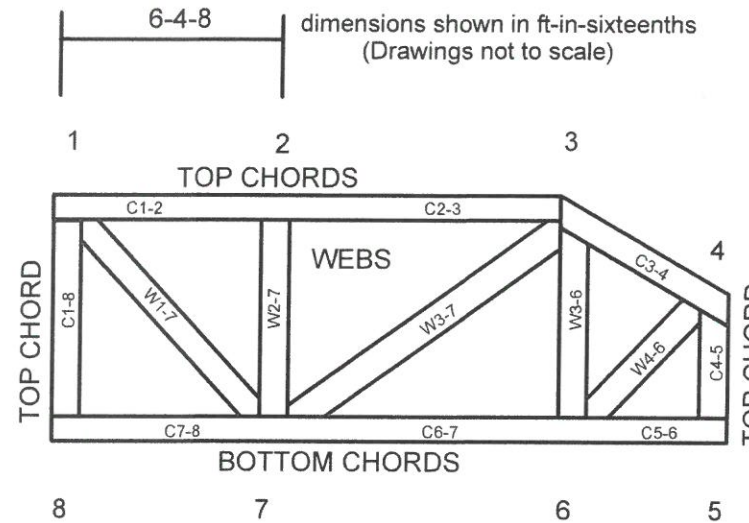


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

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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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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 wane 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 pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.