

TrueHomes

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2649 Breckridge Centre Dr.
Suite 104
Monroe, N.C. 28110
704-271-1191

THE 'HUDSON'

CROSS LINK

LOT 60

INTEGRITY COLLECTION

93 CROSS LINK DRIVE
BLACK RIVER, NC 27501

COMMUNITY SPECS

(Detailed listing of all Community Specifications can be found in Showroom Selections)

MONO SLAB FOUNDATION
2-CAR GARAGE
5:12 ROOF PITCH MIN.

BASE ELEVATION
SQUARE FOOTAGE

FIRST FLOOR	998 SQ.FT.
SECOND FLOOR	1233 SQ.FT.
TOTAL LIVABLE	2231 SQ.FT.
FRONT PORCH	20 SQ.FT.
2-CAR GARAGE	445 SQ.FT.
REAR PATIO	100 SQ.FT.



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

Mon-Fri: 8am - 5pm
CHARLOTTE MKTS: 704-681-2032
ALL OTHER MKTS: 704-993-1861
E-mail: CADISSUE@truehomesusa.com

ESTIMATING:

- Missing Material or Shortage
- Purchase Order Questions

Mon-Fri: 8am - 5pm
ALL MKTS: 704-681-4916

ARCHITECTURAL SERVICES:

- Missing or Conflicting Dimensions
- Plan Legibility
- Missing Options

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ALL OTHER MKTS: 704-993-1861
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ARCHITECTURAL SERVICES:

NAME: _____
NUMBER: _____

HELP HOTLINES

"WHEN IN DOUBT, GIVE US A SHOUT"
TRUE BUILDER:
(To be filled in by Builder on site)

TABLE OF CONTENTS

C5	COVER SHEET
A2.1	FIRST FLOOR PLAN
A2.2	SECOND FLOOR PLAN
A3.1	FRONT & REAR ELEVATIONS
A3.2	LEFT & RIGHT ELEVATIONS
A4.1	STAIR SECTIONS
E1.1	FIRST FLOOR ELECTRICAL PLAN
E1.2	SECOND FLOOR ELECTRICAL PLAN
S1	FOUNDATION PLAN
S2.1	FIRST FLOOR FRAMING
S3.1	ROOF FRAMING PLAN
GN	GENERAL STRUCTURAL NOTES
D1	TYP. FOUNDATION DETAILS
D3	TYP FLASHING DETAIL
D4	TYP. PORTAL FRAME DETAIL - PFH
D5	TYP FIREPLACE DETAILS
D5.1	TYP STAIR DETAILS
D5.2	TYP STAIR DETAILS
D5.3	TYP STAIR DETAILS
D9	TYP CORNICE DETAILS
D10	TRIM DETAILS

HEADER SCHEDULE

ALL INTERIOR BEARING AND EXTERIOR WALLS
1. SPANS UP TO 3'-6" -- (2) 2x8s
2. SPANS 3'-6" TO 6'-6" -- (2) 2x10s
3. SPANS 6'-6" OR MORE -- SEE PLAN

** SOUTH CAROLINA SPECIFIC NOTE **
ALL OPENINGS IN THERMAL ENVELOPE MUST HAVE INSULATED HEADER PER CODE

EXTERIOR HINGED DOOR SCHEDULE

PLAN I.D.	DOOR WIDTH		DOOR HEIGHT R.O.		
	R.O. WIDTH	8FT CEILING	9FT CEILING	10FT CEILING	11FT CEILING
3/0	3'-2 1/2"				
2/8	2'-10 1/2"	82-1/2"	82-1/2"	98-1/2"	
5/0	5'-3 5/8"				
5/4	5'-7 5/8"				
6/0	6'-3 5/8"				
SLIDING PATIO DOORS					
5/0	4'-1 1/2"	80"	80"	96"	
6/0	5'-1 1/2"				

INTERIOR HINGED DOOR SCHEDULE

PLAN I.D.	DOOR WIDTH		DOOR HEIGHT R.O.		
	R.O. WIDTH	8FT CEILING	9FT CEILING	10FT CEILING	11FT CEILING
1/4	1'-6"				
1/6	1'-8"				
1/8	1'-10"				
2/0	2'-2"				
2/4	2'-6"				
2/6	2'-8"				
2/8	2'-10"				
2/10	3'-0"				
3/0	3'-2"				
4/0	4'-2"				
5/0	5'-2"				
6/0	6'-2"				

◇ LOAD BEARING ○ NON-LOAD BEARING

INTERIOR PASS THRU SCHEDULE

FRAMED OPENING DIMENSIONS		
WALL HEIGHT	R.O. WIDTH	R.O. HEIGHT
8'-1 1/8"	PLAN I.D. + 2"	82-1/2"
9'-1 1/8"	PLAN I.D. + 2"	94-1/2"
10'-1 1/8"	PLAN I.D. + 2"	98-1/2"

ROUGH OPENING HEIGHTS ARE FOR DO, CO, & AO OPENINGS. SHIM HEIGHTS AS NEEDED TO MATCH INTERIOR HINGED DOOR CASING

INTERIOR DOORWAY OPENINGS:
DO = DRYWALL OPENING
CO = CASING OPENING
AO = ARCHED OPENING

GENERAL NOTES

- PLANS PERMITTED IN NORTH CAROLINA ARE DESIGNED TO MEET THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE, 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.
- DO NOT SCALE DIMENSIONS FROM PRINTS. USE DIMENSIONS GIVEN OR CONSULT ARCHITECTURAL SERVICES DEPARTMENT FOR FURTHER CLARIFICATION.
- ALL DIMENSIONS ARE FROM WALL FRAMING (FACE OF STUD), NO FINISHED DIMENSIONS ARE GIVEN U.N.O.
- PROVIDE 2 STUDS BETWEEN ALL WINDOWS.(TYP)
- ACCESS DOORS BETWEEN HOUSE AND GARAGE AREAS TO BE 20-MINUTE FIRE RATED.
- 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.)
- 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.
- ALL ANGLED WALLS ARE AT 45 DEGREES UNLESS NOTED OTHERWISE.
- USE WINDOW NOMINAL SIZES FOR ROUGH OPENINGS (APPLIES TO TWIN AND TRIPLE WINDOWS). SEE ELEVATIONS FOR WINDOW HEADER HEIGHTS.
- PROVIDE BLOCKING ABOVE WINDOWS AND DOORS 16" O.C.
- PROVIDE EXTRA STUDS AS INDICATED AT 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.).
- ALL COMMON CEILING BETWEEN GARAGE TO HOUSE PROVIDE 5/8" TYPE X GWB PER GARAGE SEPARATION REQUIREMENTS PER CODE. ALL JOINTS TO BE TAPED & MUDDER FOR FIRE SEPARATION. ALL STRUCTURES SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRE NOT LESS THAN 1/2" GYP OR EQ. PER SECTION R302.G
- SEPARATE GARAGE FROM ATTIC WITH 5/8" TYPE X GWB SCUTTLE MINIMUM AND 2X SCUTTLE FRAMING MATERIAL.
- HEEL HEIGHTS: SEE ELEVATIONS SHEETS FOR TOP OF FASCIA DIMENSIONS TO GATHER PROPER HEEL HEIGHT REQUIREMENTS.
- 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.
- STAIR TREAD DESIGN TO BE VERIFIED WITH SELECTIONS AND POS.
- PROVIDE 1 1/2" FLAT WALL FRAMING FOR ALL HVAC CHASES UNLESS NOTED OTHERWISE. SEE FRAMING SHEET GN FOR ADDITIONAL NOTES PER LOCAL CODES.
- 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.
- ALL HOMES TREATED WITH BORA-CARE TERMITE TREATMENT.
- SMURF DOORS ARE 21 1/2" x 39" NOMINAL (R.O. 22 1/2" x 40").
- SHEATH WALLS AND CEILINGS w/ OSB PER SPECS. IN FURN. ROOM LOCATIONS
- ALL PLANS ARE GENERATED WITH THE AID OF A COMPUTER AIDED DRAFTING SYSTEM.
- DIMENSION AND NOTATIONS ON PLANS HAVE PREFERENCE OVER GRAPHIC DEPICTIONS AND SHOULD BE UTILIZED TO SETTLE ANY DISCREPANCIES - ANY DISCREPANCIES FOUND SHOULD BE FORWARDED TO THE ARCHITECTURAL SERVICES DEPARTMENT FOR RESOLUTION.
- TYPICAL FOUNDATION AND ENGINEERING CONSTRUCTION DETAILS ARE SHOWN IN RESPECTIVE PLANS. TYPICAL DETAILS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PLAN THAT ARE THE SAME OR SIMILAR TO THOSE SPECIALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF THE DETAIL. SUCH DETAILS SHALL APPLY WITH OR NOT THEY ARE REFERENCED AT EACH LOCATION.
- ALL CONSTRUCTION SPECIFICATION NOT COVERED ON THIS SHEET, OR IN PLAN SETS AND GENERAL SPECIFICATIONS, ARE TO MEET ALL APPLICABLE STATE AND LOCAL BUILDING CODES.
- HOUSE CONSTRUCTION IS TYPICAL 2X4 STUDS AT 16" O.C. AT ALL EXTERIOR WALLS UNLESS OTHERWISE NOTED. WALLS THAT ARE TO BE BALLOON FRAMED OR CONSTRUCTED WITH 2X6 STUDS WILL BE NOTED AS SUCH. ALL BASEMENT FRAMED WALLS TO BE 2X4 STUDS FOR ONE-STORY PLANS AND 2X6 STUDS FOR LOAD BEARING WALLS ON TWO-STORY PLANS UNLESS OTHERWISE NOTED.
- PLANS ARE GENERATED FROM A COMMON GRAPHIC DATABASE WITH MODIFICATIONS AS REQUIRED TO ADAPT PLANS TO LOCAL BUILDING CONDITIONS AND SPECS FOR EACH LOCALITY.
- TRUE HOMES RESERVES THE RIGHT TO MAKE MODIFICATIONS TO FLOOR PLANS, DIMENSIONS, MATERIALS, AND SPECIFICATIONS WITHOUT NOTICE. THESE DRAWINGS ARE FOR THE PURPOSE OF CONVEYING AN ARCHITECTURAL CONCEPT ONLY.

RALEIGH DESIGN CRITERIA

- DESIGN LOADS ARE ALL DEAD LOADS PLUS:
 - SLEEPING ROOMS.....30 PSF
 - ALL OTHER FLOORS.....40 PSF
 - BALCONIES.....60 PSF
 - ATTIC FLOOR LIVE LOADING WITH THE FOLLOWING:
 - AREA ACCESSIBLE BY STAIRS.....40 PSF
 - ROOF SLOPES >3:12.....20 PSF
 - ROOF SLOPES <3:12.....10 PSF
 - ROOF LIVE LOAD.....20 PSF
 - WIND LOAD.....100 MPH
 - SNOW LOAD.....20 PSF
 - SEISMIC ZONE.....C
- DESIGN IS COMPLIANT WITH 2018 NCRC ENERGY CODE N1102.2 PRESCRIPTIVE FOR CLIMATE ZONE 4A

REVISION LOG

1. DATE:	DRAWN BY:
2. DATE:	DRAWN BY:
3. DATE:	DRAWN BY:
4. DATE:	DRAWN BY:

CROSS LINK
LOT# 60

HUDSON
2016
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WALTER

DATE:

01-30-19

SCALE:

1/8" = 1'-0"

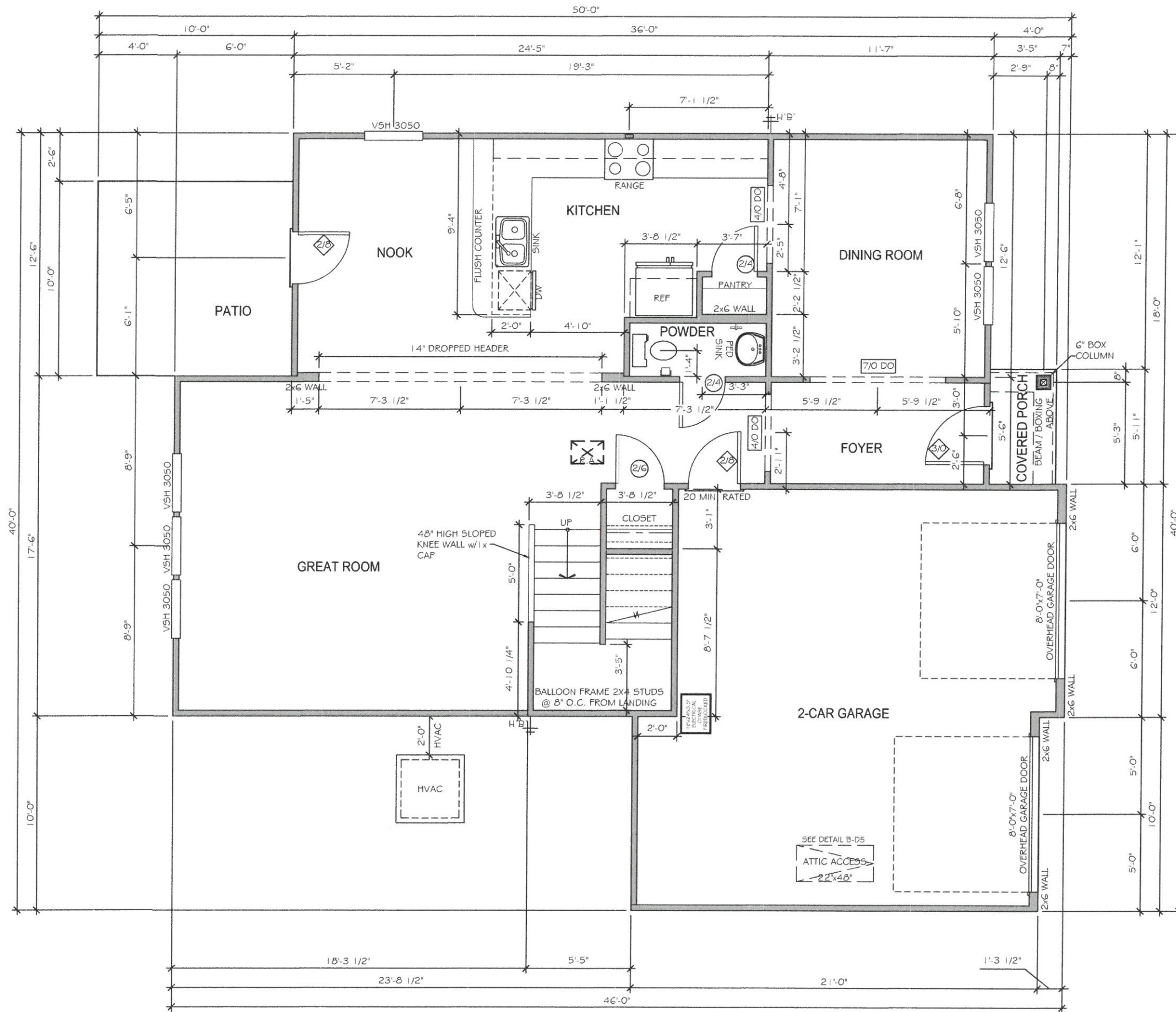
REVIEWED BY:

SCOTT

SHEET:

CS

ORIGINAL CONTRACT ID#: 26016



FIRST FLOOR PLAN

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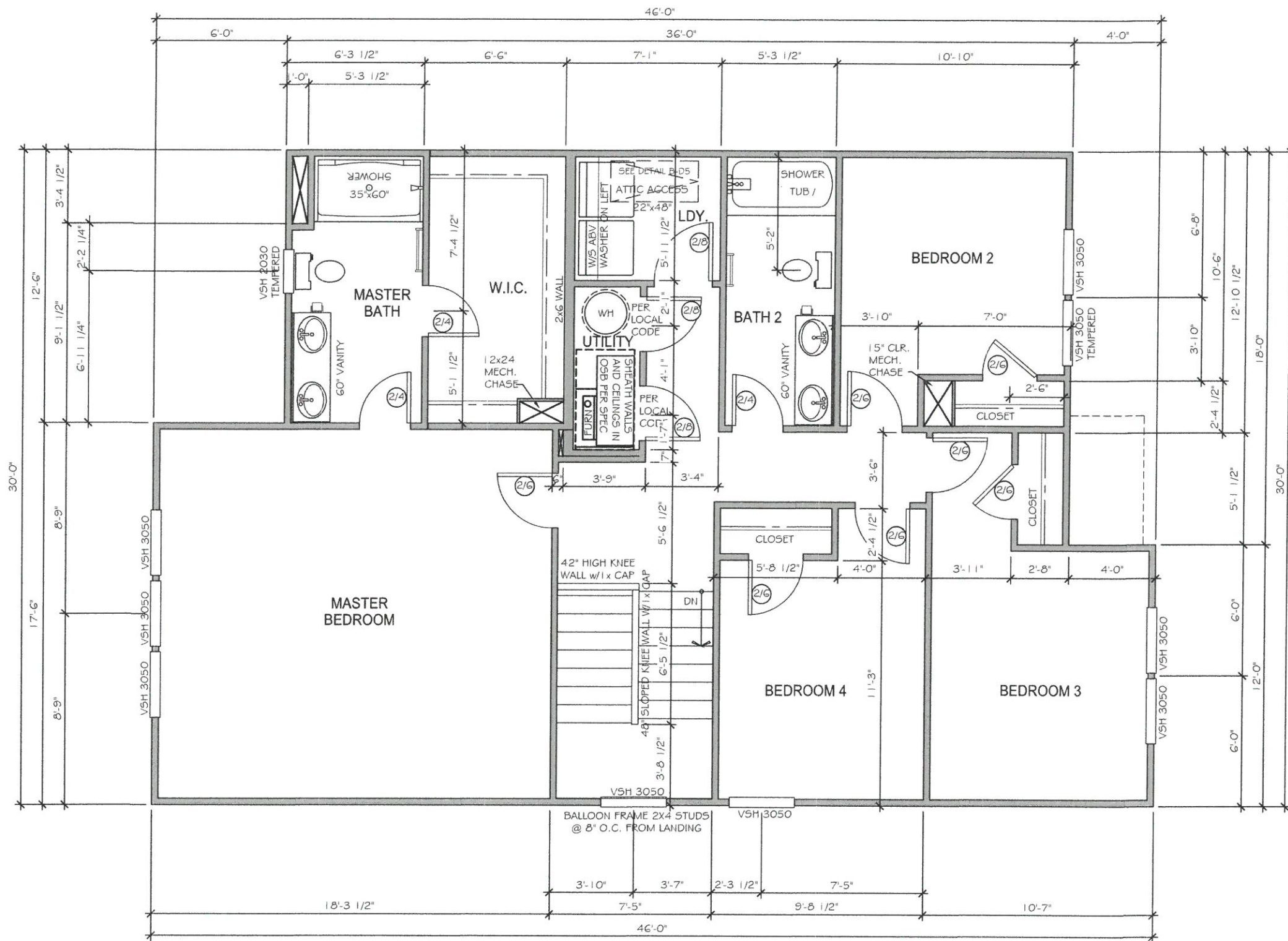
CROSS LINK
 LOT# 60

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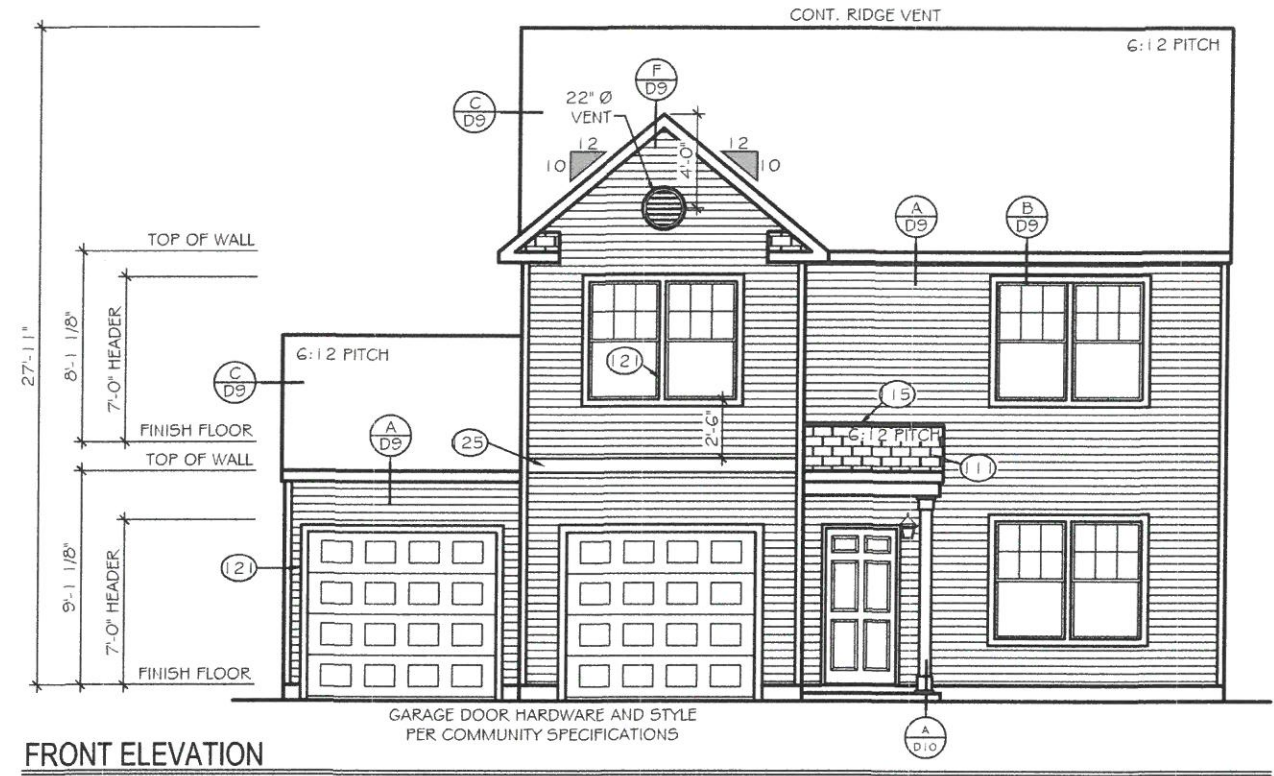
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 3/16" = 1'-0"
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SHEET:
 A2.1



SECOND FLOOR PLAN



FRONT ELEVATION

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

FOUNDATION REVEAL MAY VARY BASED ON SITE CONDITIONS, FINAL GRADING, & COMMUNITY SPECS.

- KEY NOTES**
- (1) 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

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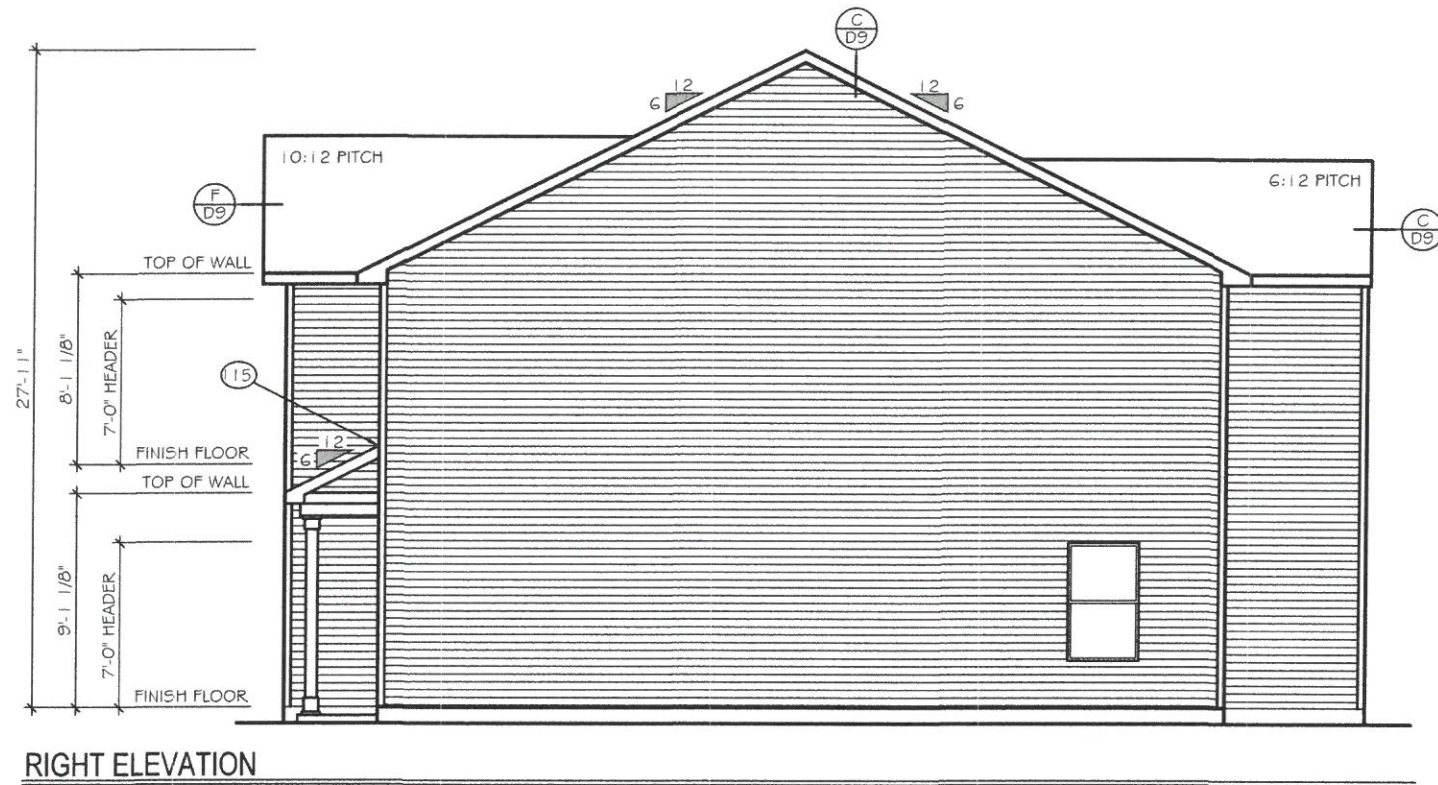
REAR ELEVATION

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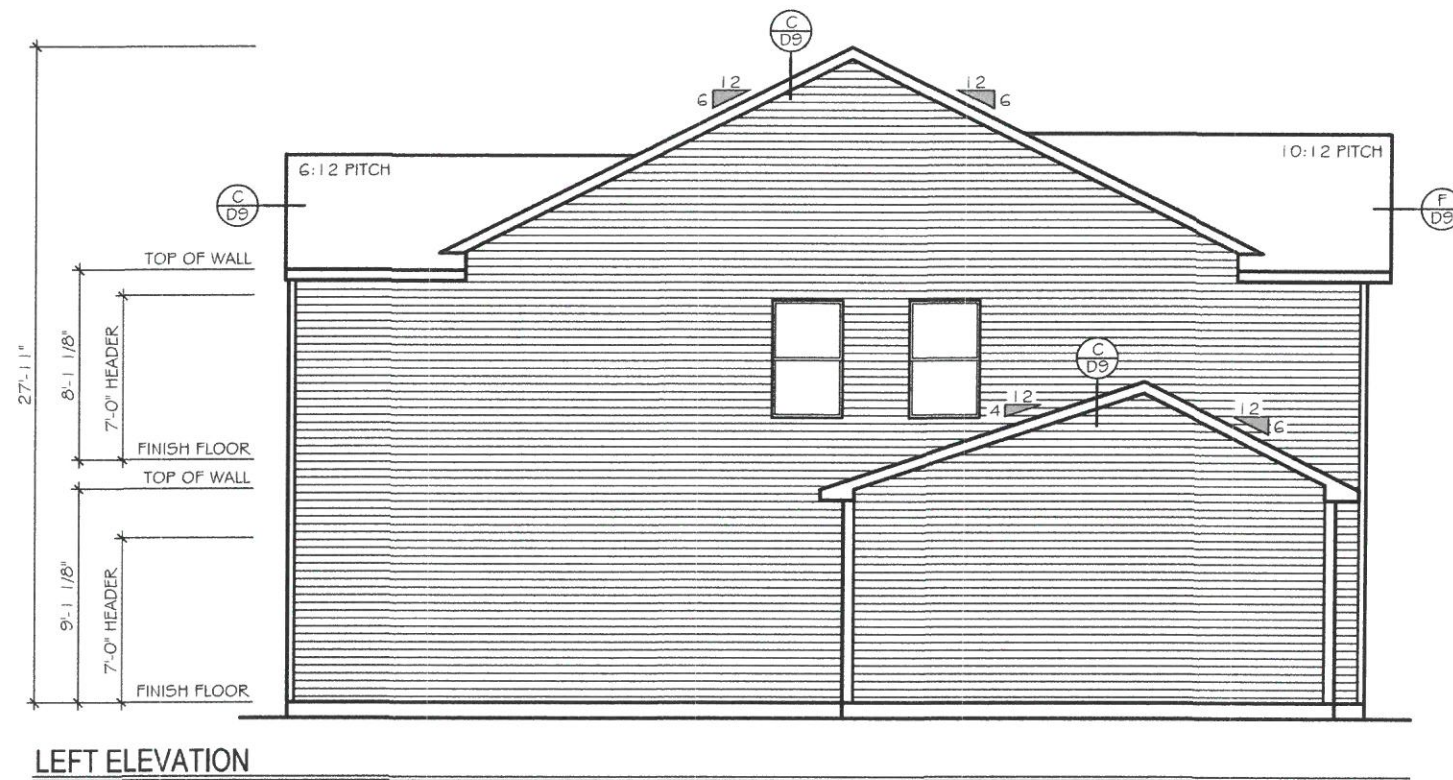
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RIGHT ELEVATION



LEFT ELEVATION

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

FOUNDATION REVEAL MAY VARY BASED ON SITE CONDITIONS, FINAL GRADING, & COMMUNITY SPECS.

- 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
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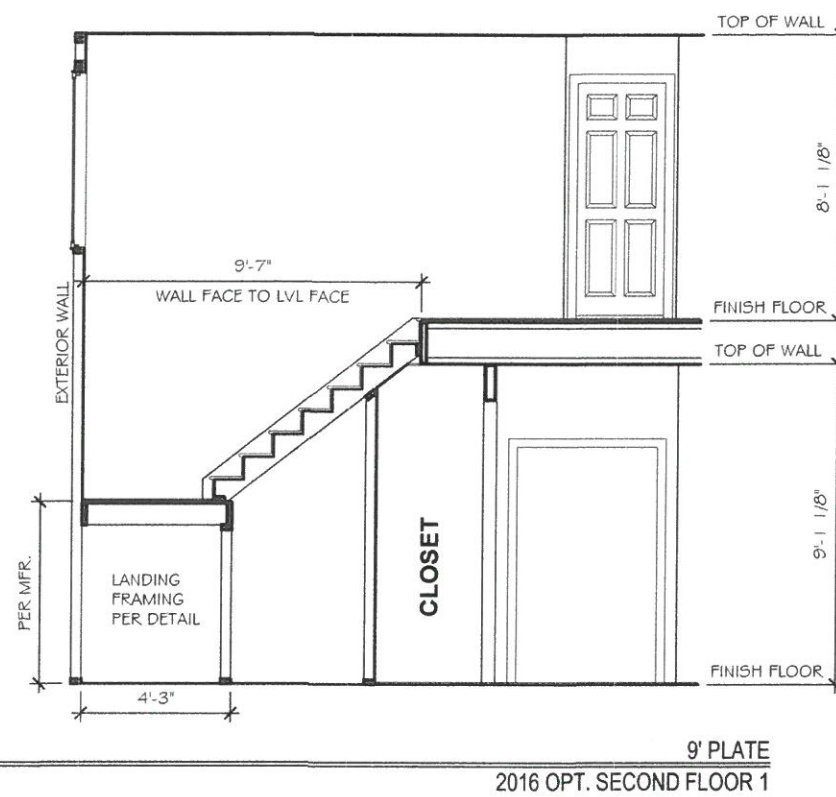
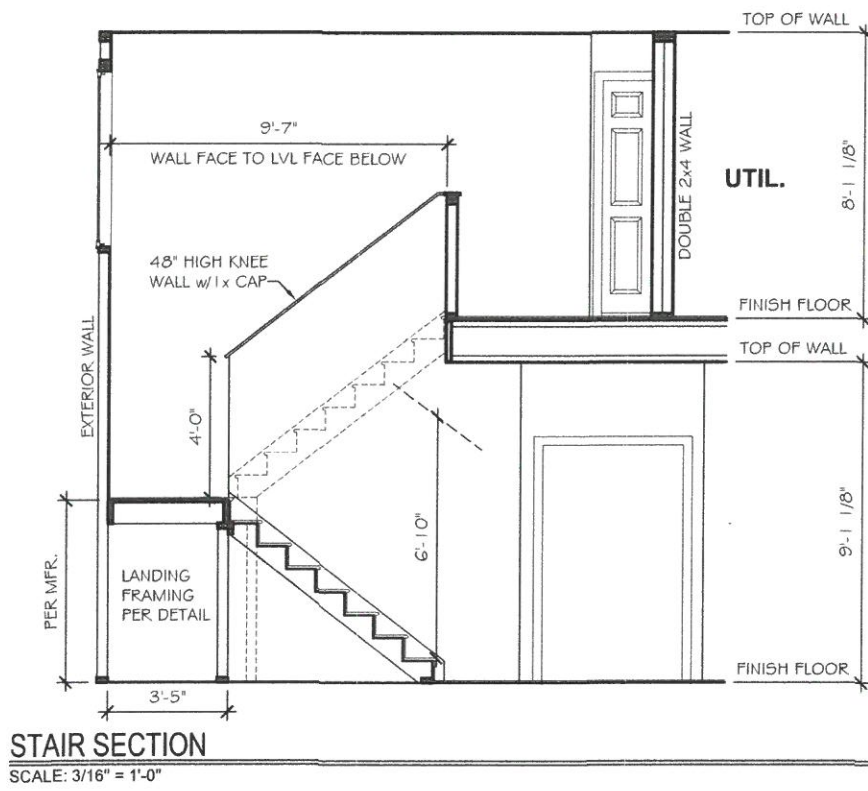
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A3.2

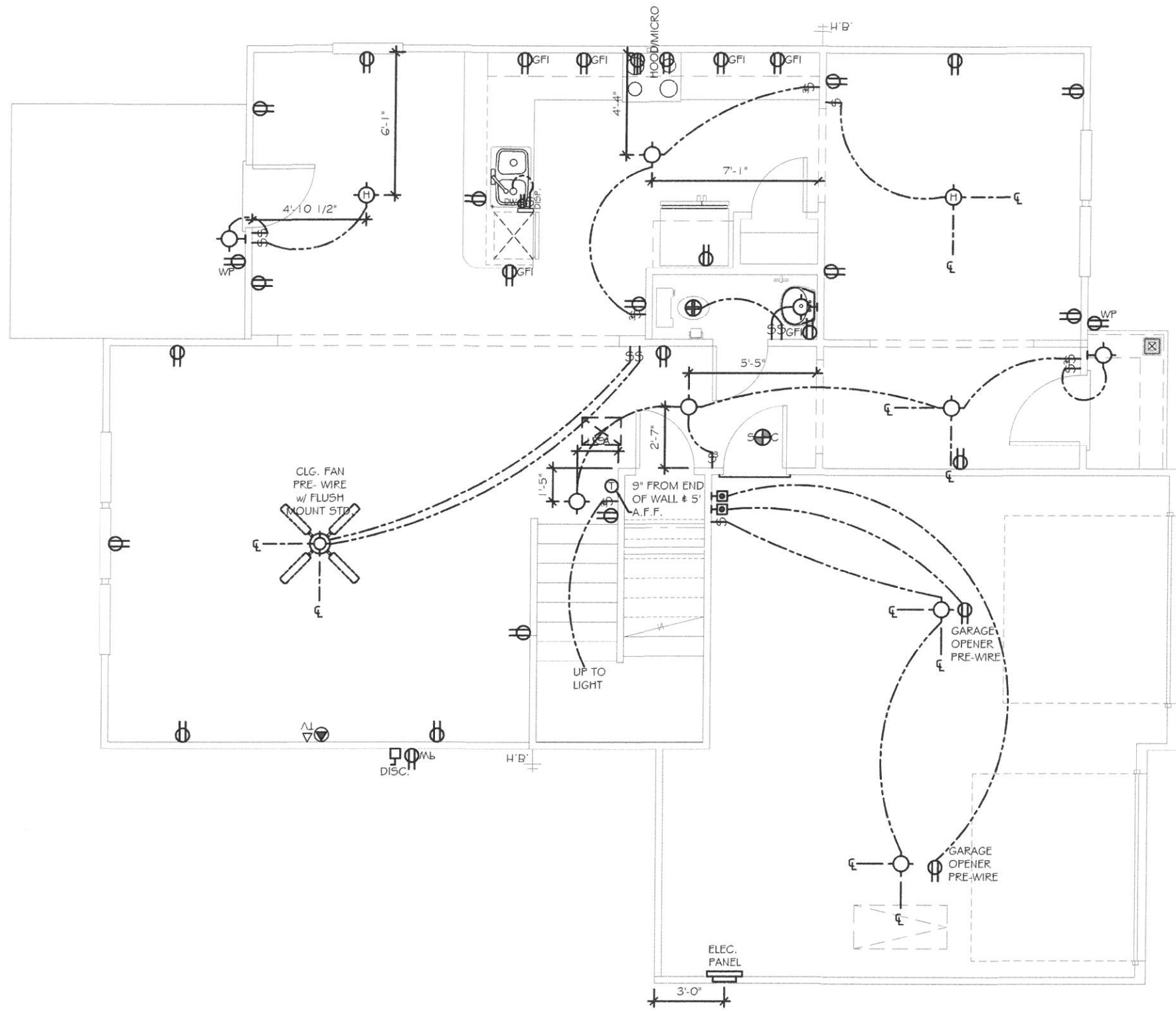


9' PLATE
 2016 OPT. SECOND FLOOR 1

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ELECTRICAL LEGEND	
	EXT. CARRIAGE LIGHT
	OUTLET 220V
	OUTLET 110V
	OUTLET 110V WATER PROOF
	OUTLET 110V GFI
	SWITCHED RECEPTACLE
	PHONE
	SMOKE / CO DETECTOR
	SMOKE DETECTOR
	SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	SPEAKER SWITCH
	THERMOSTAT
	CABLE TV
	CEILING LIGHT
	COMPACT FLUORESCENT LIGHT GU24 SOCKET
	JUNCTION LIGHT
	SPEAKER
	EXHAUST FAN
	EXHAUST FAN / LIGHT
	FLOOD LIGHT - LOCATION TO BE VERIFIED IN FIELD WITH BUILDER/CLIENT
	UNDER CABINET LIGHT
	PUSH BUTTON
	ELECTRIC PANEL
	CAN LIGHT
	MINI-CAN LIGHT
	PENDANT LIGHT
	REWIRE
	CEILING FAN PRE-WIRE
ELECTRICAL TO BE PLACED PER CODE IN THE FIELD.	
PLACE GAS METER MAX 15' AWAY FROM ELECTRICAL METER IF APPLICABLE	



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.
4	Detectors	Smoke Detector
3	Detectors	Smoke/Carbon Monoxide Detector
2	Jacks	Thermostat
2	Jacks	Phone Jack
5	Jacks	TV Jack
14	Lights	Ceiling Light
3	Lights	Hanging Light
1	Lights	Exhaust Fan
7	Lights	Carriage Light
2	Lights	Exhaust Fan/Light
1	Lights	CFT Light
3	Receptacle	WP
46	Receptacle	110V
11	Receptacle	GFI
2	switch	Push Button
8	switch	3-Way Switch
24	switch	Single Pole Switch

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SHEET:
E1.1

FIRST FLOOR ELECTRICAL PLAN

ELECTRICAL LEGEND	
	EXT. CARRIAGE LIGHT
	OUTLET 220V
	OUTLET 110V
	OUTLET 110V WATER PROOF
	OUTLET 110V GFI
	SWITCHED RECEPTACLE
	PHONE
	SMOKE / CO DETECTOR
	SMOKE DETECTOR
	SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	SPEAKER SWITCH
	THERMOSTAT
	CABLE TV
	CEILING LIGHT
	COMPACT FLUORESCENT LIGHT GU24 SOCKET
	JUNCTION LIGHT
	SPEAKER
	EXHAUST FAN
	EXHAUST FAN / LIGHT
	FLOOD LIGHT - LOCATION TO BE VERIFIED IN FIELD WITH BUILDER/CLIENT UNDER CABINET LIGHT
	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.	
PLACE GAS METER MAX 15' AWAY FROM ELECTRICAL METER IF APPLICABLE	

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.

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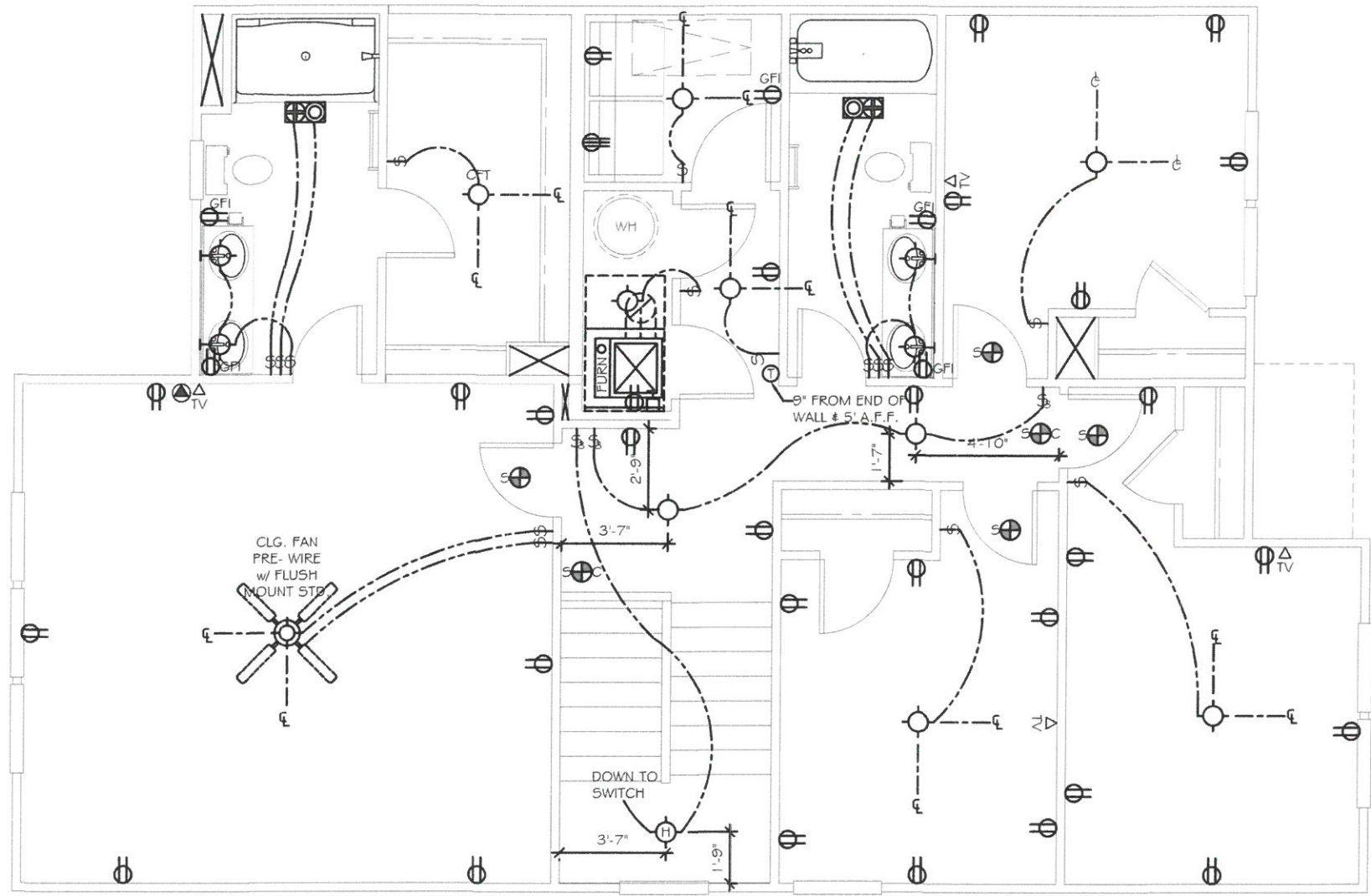
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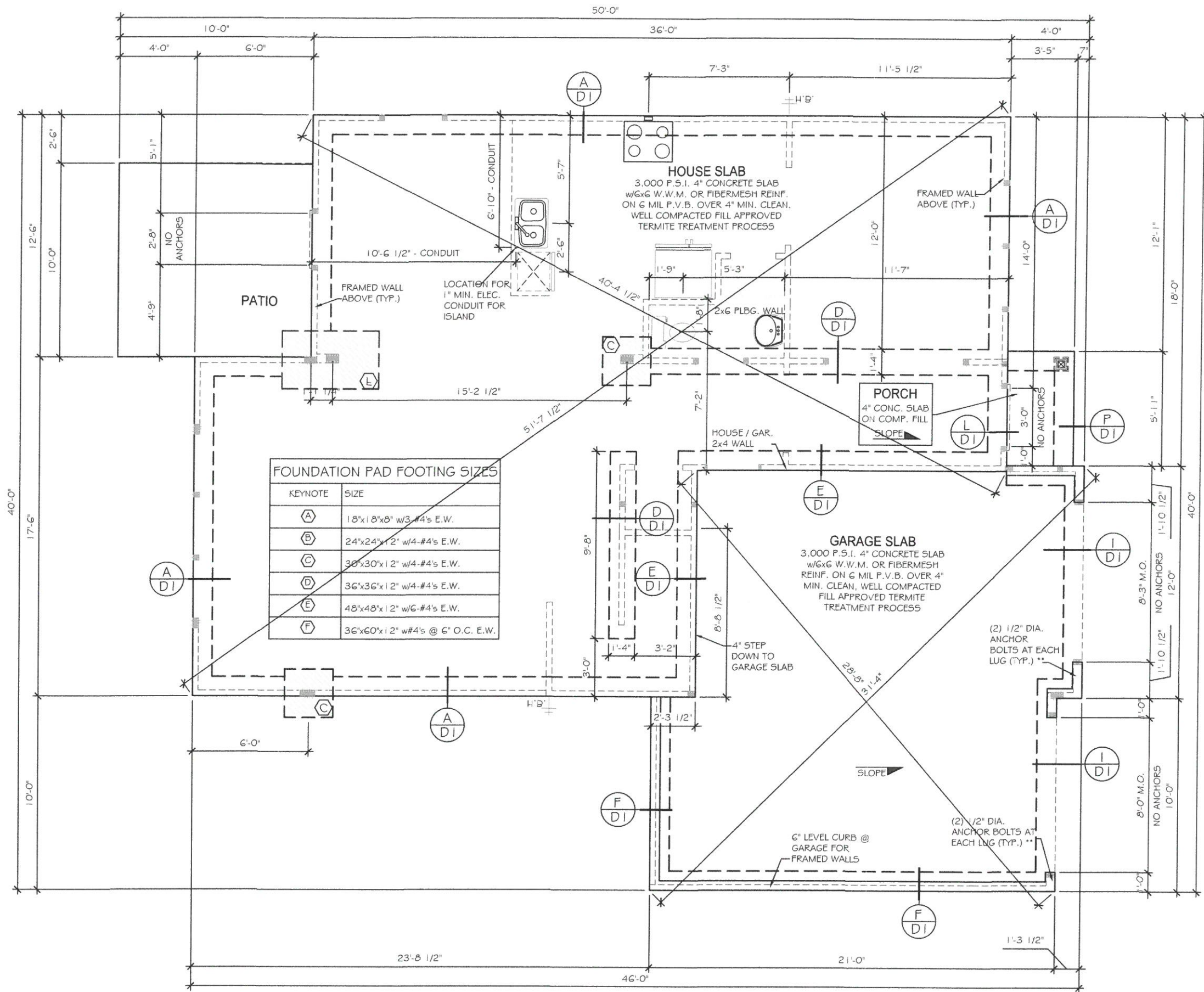
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SHEET:
E1.2



SECOND FLOOR ELECTRICAL PLAN



MONO SLAB FOUNDATION PLAN



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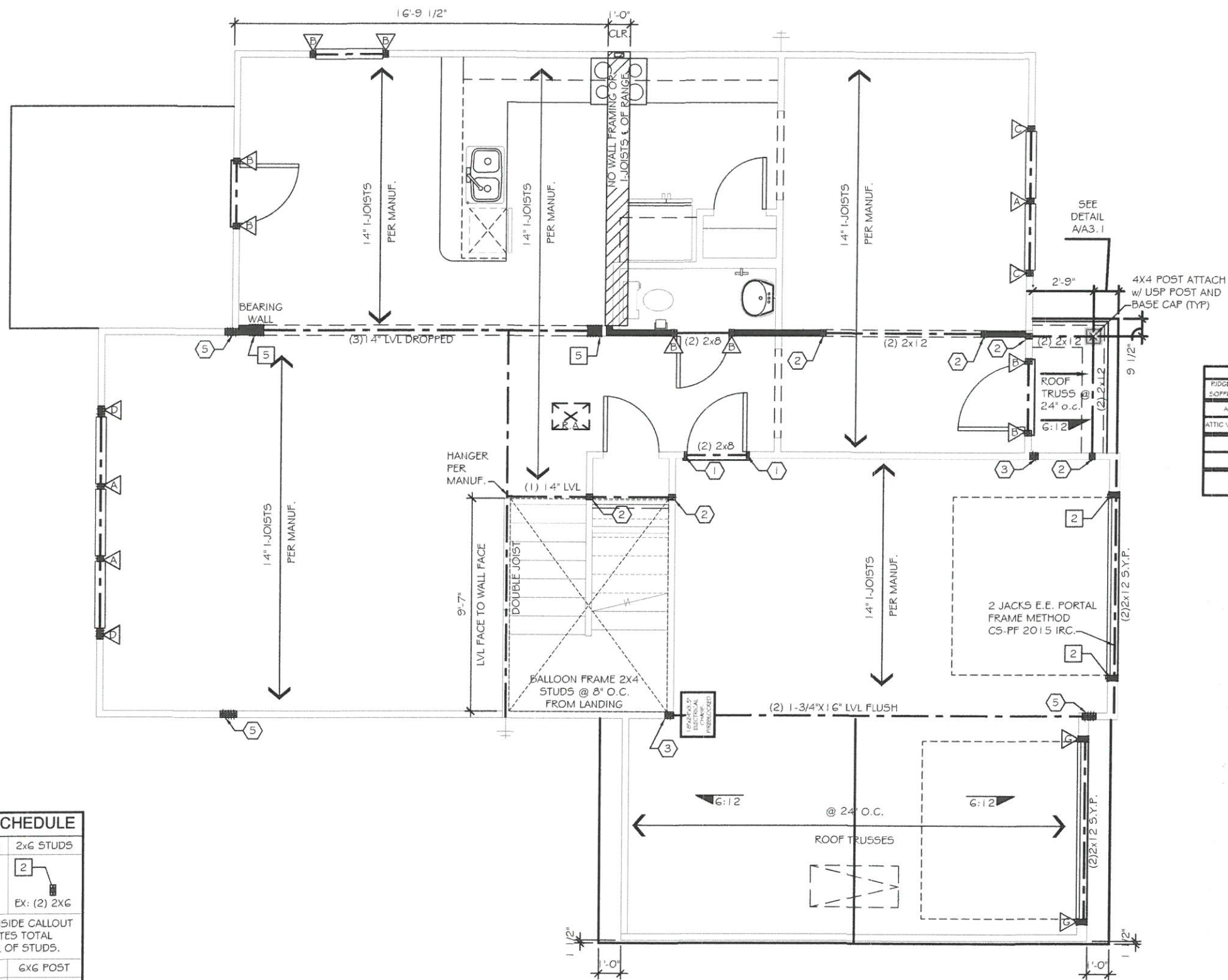
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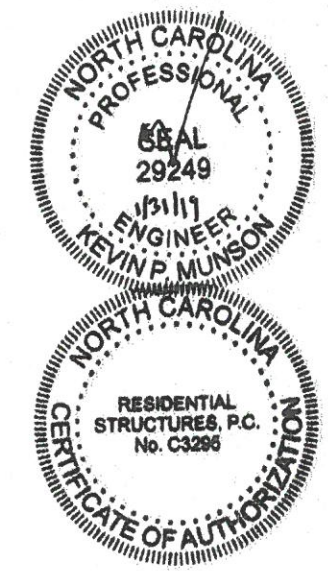
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SHEET:
S1



STRUCTURAL LEGEND	
	BEARING WALL
	METHOD GB OF 2015 IRC
	BEARING WALL W/ METHOD GB OF 2015 IRC
	CENTER OF BEAM / JOIST / GIRDER TRUSS
	METHOD CS-WSP (UNO)
	INTERIOR SHEAR WALL PER HIGH WIND NOTE 1.C
	USP LSTA24 HOLDDOWN OR EQ.
	USP STAD14 HOLDDOWN OR EQ.
	USP DTB-TZ HOLDDOWN OR EQ.
	USP R5150 STRAP HOLDDOWN (36" LONG - 12" MIN. END LAP)
	USP PHD8 HOLDDOWN OR EQ.

ATTIC VENTILATION CALCULATIONS	
RIDGE VEIT NET FREE AREA	= 14 SQ. IN. PER LINEAR FT.
SOFFIT VEIT NET FREE AREA	= 9 SQ. IN. PER LINEAR FT.
ATTIC AREA (TOTAL)	= 232 SQ. FT.
ATTIC VENTILATION (REQUIRED)	= 232 / 200 = 0.77 SQ. FT. = 111.36 SQ. IN.
RIDGE VEIT	= 6 FT. x 16.50 IN. = 96 SQ. IN. NET FREE AREA
SOFFIT VEIT	= 20 FT. x 9.50 IN. = 180 SQ. IN. NET FREE AREA
TOTAL	= 276 SQ. IN. NET FREE AREA > 111.36 SQ. IN. REQUIRED



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****SEE COVER PAGE FOR**
ROUGH OPENING DIMENSIONS**

KING / JACK STUD SCHEDULE	POST SCHEDULE	
	2x4 STUDS	2x6 STUDS
(2) JACKS		
(1) JACK # (1) KING	EX: (2) 2X4	EX: (2) 2X6
(1) JACK # (2) KINGS	NUMBER INSIDE CALLOUT INDICATES TOTAL NUMBER OF STUDS.	
(1) JACK # (3) KINGS		
(2) JACKS # (1) KING	4X4 POST	6X6 POST
(2) JACKS # (2) KINGS		
(2) JACKS # (3) KINGS		
(3) JACKS # (3) KINGS	LETTER 'P' INSIDE CALLOUT INDICATES A SOLID 4x4 or 6x6 POST	
(4) JACKS # (4) KINGS		

FLOOR FRAMING PLAN

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**CROSS LINK
 LOT# 60**

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WALTER

DATE:
 01-30-19

SCALE:
 3/16" = 1'-0"

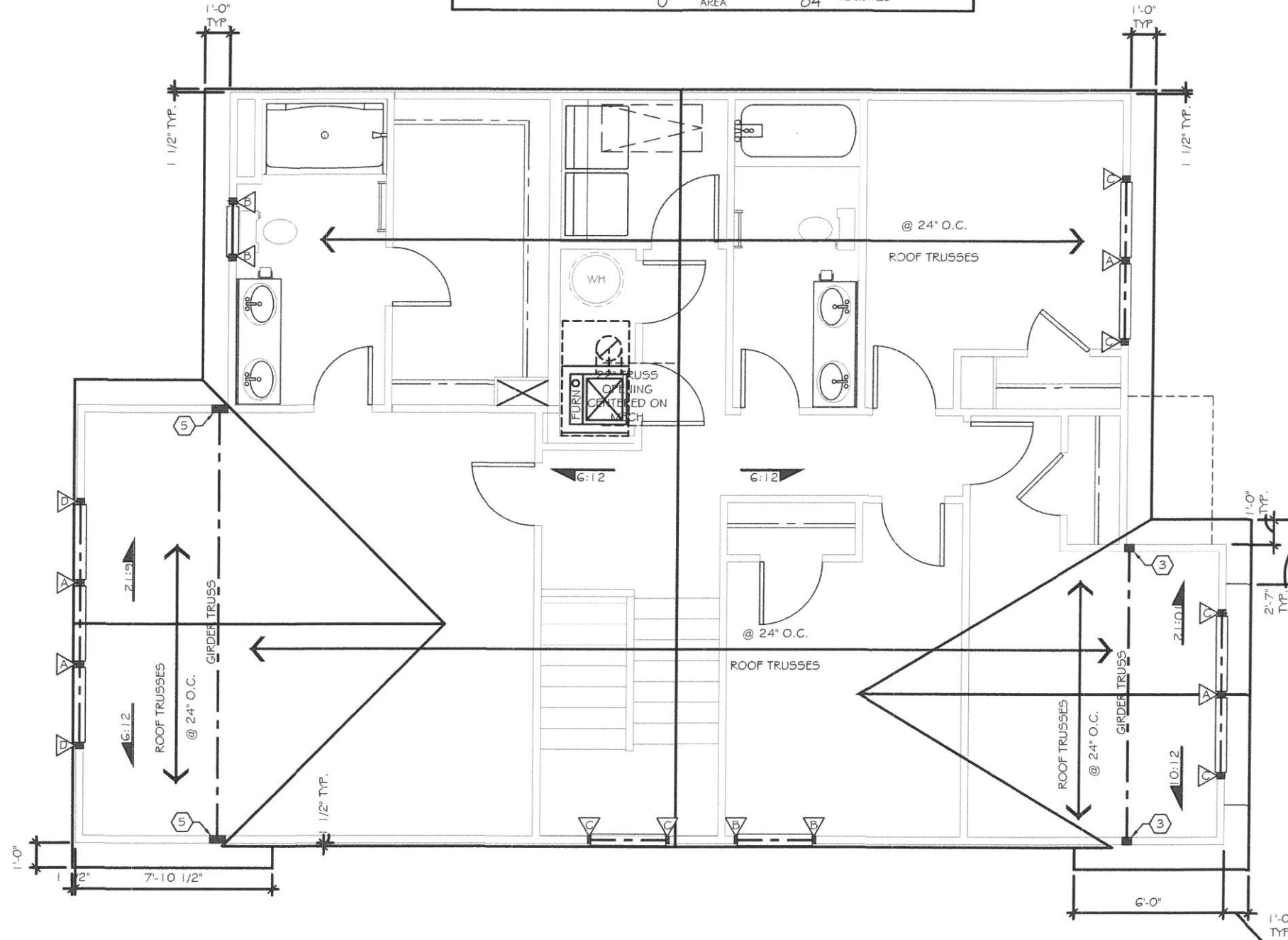
REVIEWED BY:
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SHEET:
S2.1

SEE COVER PAGE FOR
ROUGH OPENING DIMENSIONS

KING / JACK STUD SCHEDULE	POST SCHEDULE	
	2x4 STUDS	2x6 STUDS
(2) JACKS		
(1) JACK & (1) KING	EX: (2) 2x4	EX: (2) 2x6
(1) JACK & (2) KINGS	NUMBER INSIDE CALLOUT INDICATES TOTAL NUMBER OF STUDS.	
(1) JACK & (3) KINGS	NUMBER INSIDE CALLOUT INDICATES TOTAL NUMBER OF STUDS.	
(2) JACKS & (1) KING	4x4 POST	6x6 POST
(2) JACKS & (2) KINGS		
(2) JACKS & (3) KINGS		
(3) JACKS & (3) KINGS	LETTER 'P' INSIDE CALLOUT INDICATES A SOLID 4x4 or 6x6 POST	
(4) JACKS & (4) KINGS	LETTER 'P' INSIDE CALLOUT INDICATES A SOLID 4x4 or 6x6 POST	

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)	=	1233 SQ.FT.	
ATTIC VENTILATION (REQUIRED)	=	$1233 / 300 = 4.11$ SQ.FT. =	591.84 SQ.IN.
RIDGE VENT	=	37 FT x 16 SQ.IN.	= 592 SQ. IN. NET FREE AREA
SOFFIT VENT	=	62 FT x 9 SQ.IN.	= 558 SQ. IN. NET FREE AREA
TOTAL	=	115 SQ. IN. NET FREE AREA	> 591 SQ. IN. REQUIRED



ROOF FRAMING PLAN

STRUCTURAL LEGEND	
	BEARING WALL
	METHOD GB OF 2015 IRC
	BEARING WALL W/ METHOD GB OF 2015 IRC
	CENTER OF BEAM / JOIST / GIRDER TRUSS
	METHOD C5-W5P (UHO)
	INTERIOR SHEAR WALL PER HIGH WIND NOTE 1.C
	USP L5TA24 HOLDDOWN OR EQ.
	USP STAD 14 HOLDDOWN OR EQ.
	USP DTB-TZ HOLDDOWN OR EQ.
	USP RS 150 STRAP HOLDDOWN (36" LONG - 12" MIN. END LAP)
	USP PHDB HOLDDOWN OR EQ.



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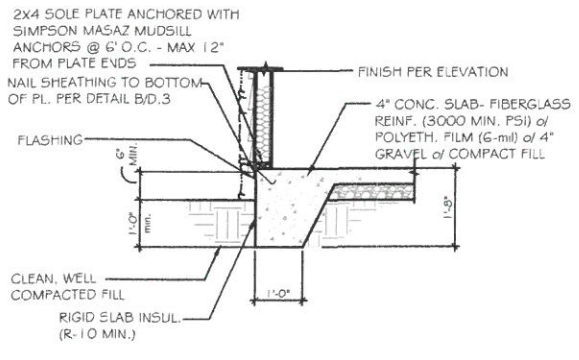
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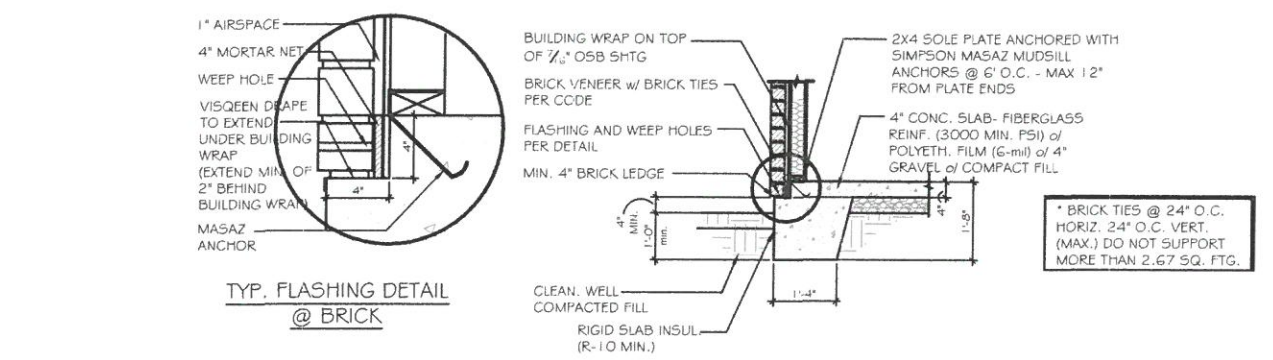
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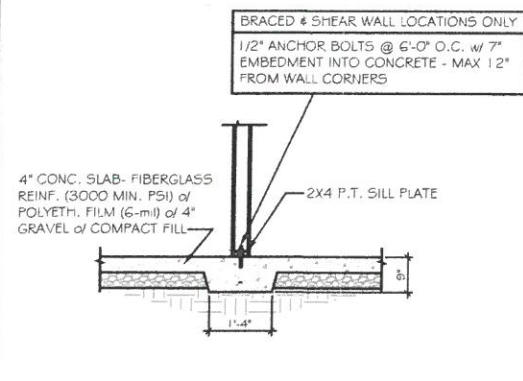


SCALE: 1/4" = 1'-0"



TYP. FLASHING DETAIL @ BRICK

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



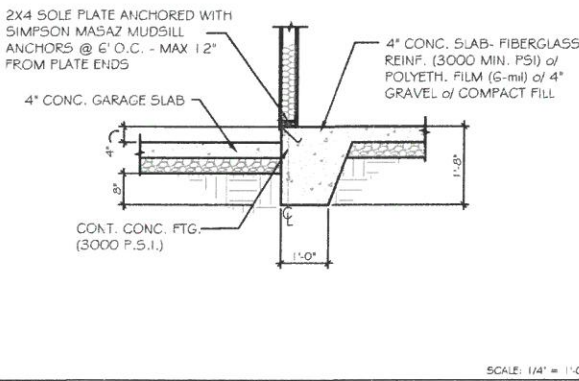
SCALE: 1/4" = 1'-0"

USP CONVERSION CHART	
REF NO.	USP
ABA44Z	PA44E-TZ
BCS2-2/4	BC4010-TZ
CS-16	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	JAI
LSU26	L55H15-TZ
EPB44	EPB4408
BC6	C66
BC4	C44
LU528-2	JU528-2
LU526	JU526
ABAG6	PAG6E-TZ
CS22	RS-22R
HDU4-SD5	PHD4A
EPB66T	EPB6608
HDO8-SD3Z	PHD8
L5TA36	L5TA36
A34	MP34

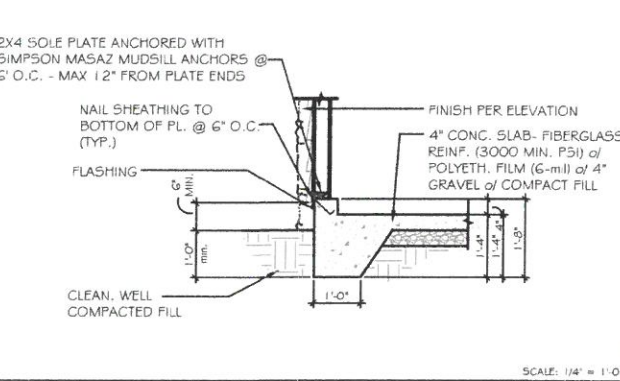
A TYP. SLAB HOUSE TO GRADE

B TYP. SLAB HOUSE TO GRADE w/ BRICK

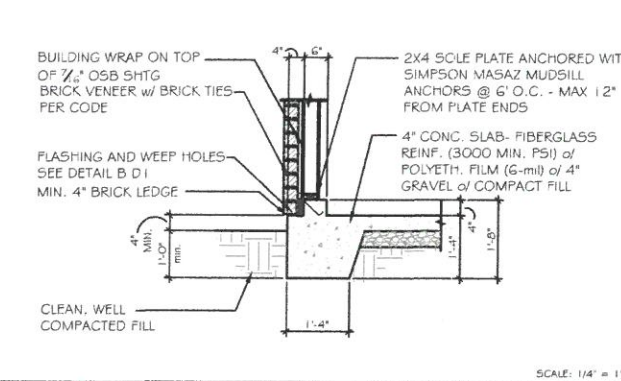
D TYP. THICKENED SLAB DETAIL



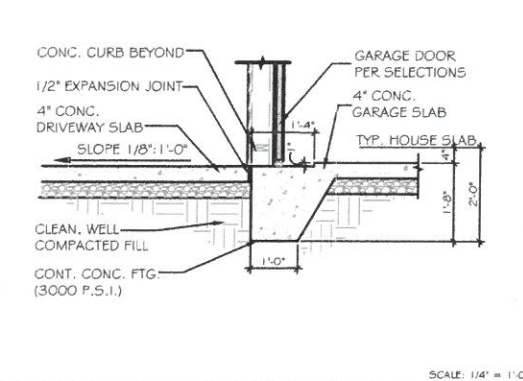
SCALE: 1/4" = 1'-0"



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



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



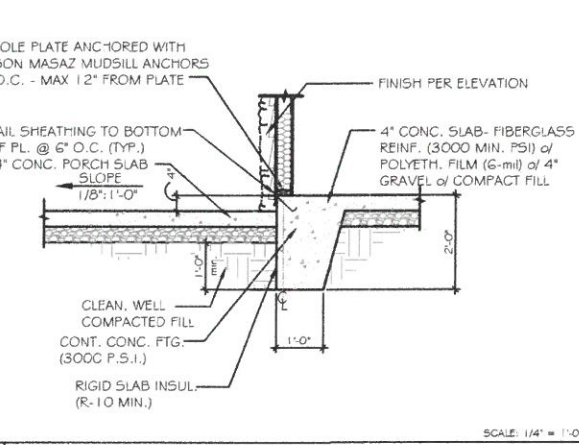
SCALE: 1/4" = 1'-0"

E TYP. SLAB - HOUSE TO GARAGE

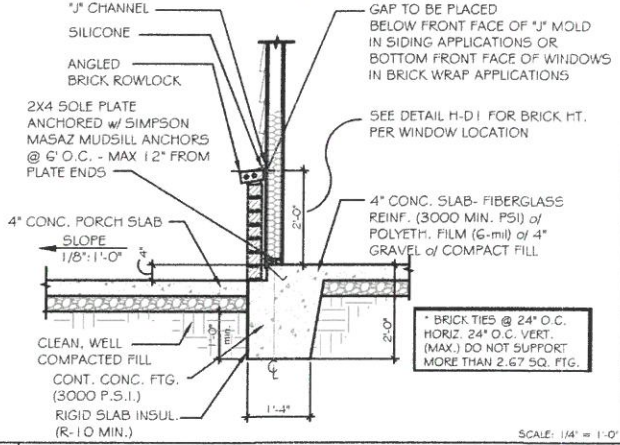
F TYP. SLAB - GARAGE TO GRADE

G TYP. SLAB - GARAGE TO GRADE w/ BRICK

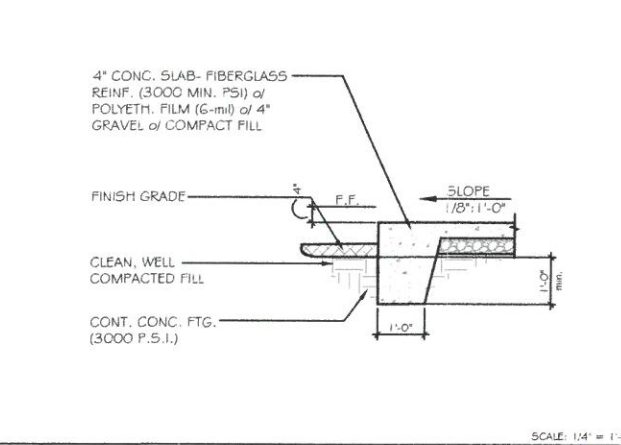
I TYP. GARAGE TO DRIVE



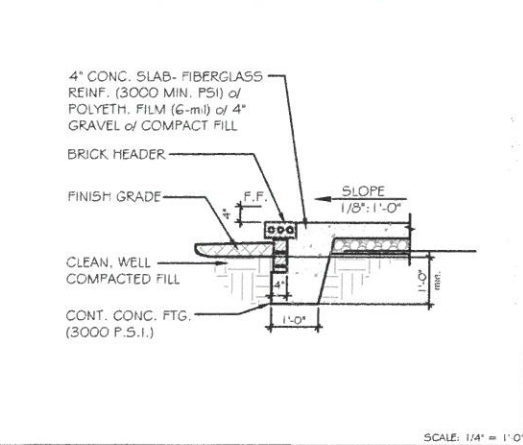
SCALE: 1/4" = 1'-0"



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



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



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

L TYP. SLAB - HOUSE TO PORCH

N TYP. SLAB - WAINSCOTING BRICK DETAIL @ PORCH

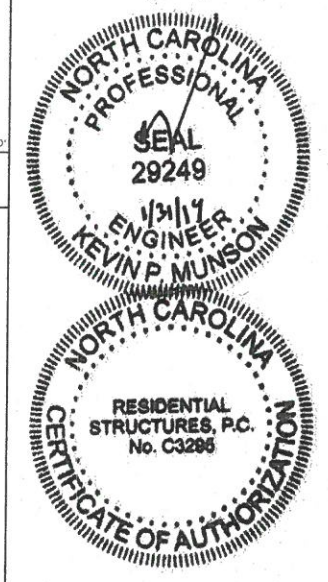
P TYP. PORCH END DETAIL

Q PORCH END DETAIL w/ BRICK

MONOSLAB
RALEIGH/TRIAD

NOTES:
CORROSION RESISTANT CORRUGATED METAL TIES - 22 GAUGE, 7/8" WIDE, 6" LONG. PLACE MAX. HORIZONTAL SPACING 24" HORZ., 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

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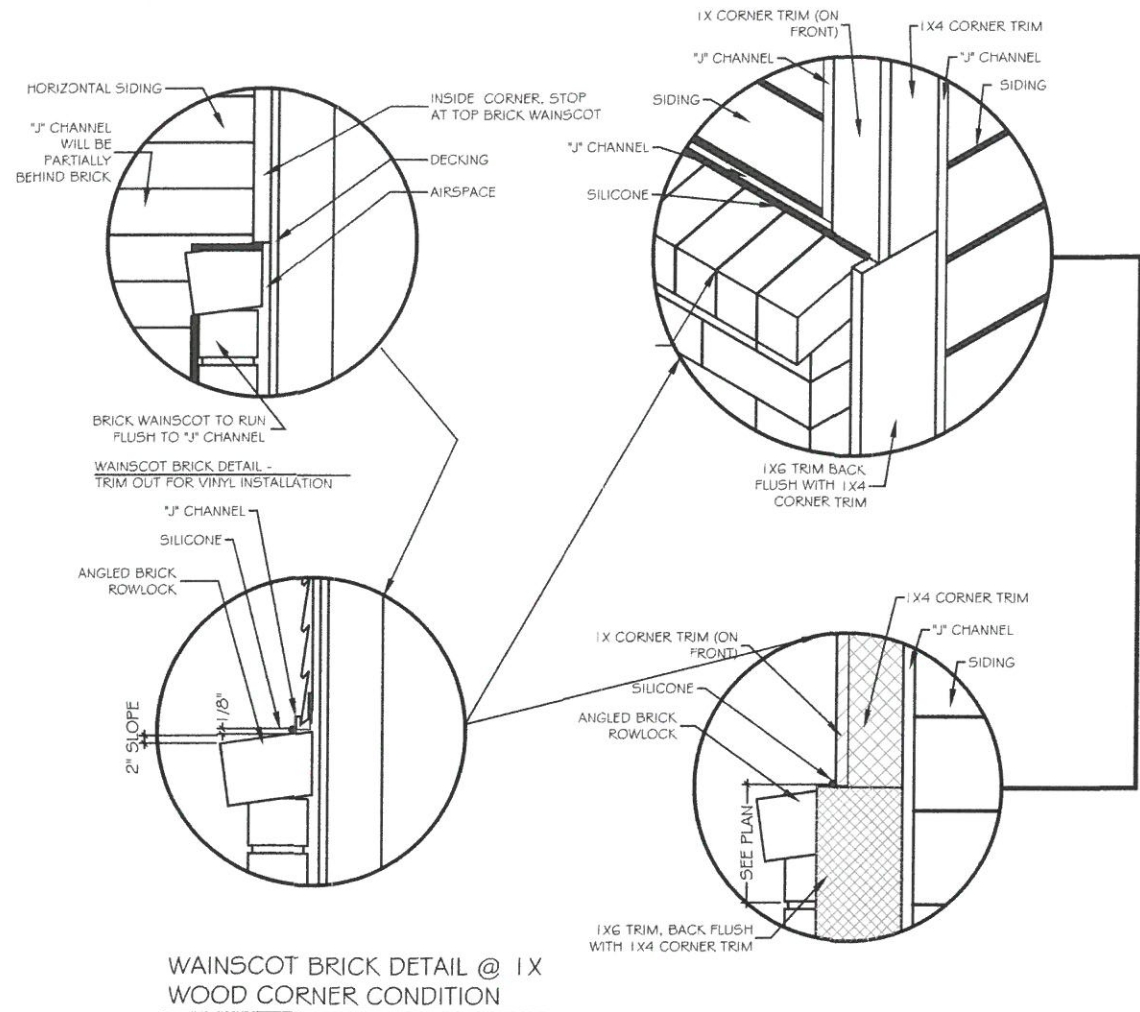
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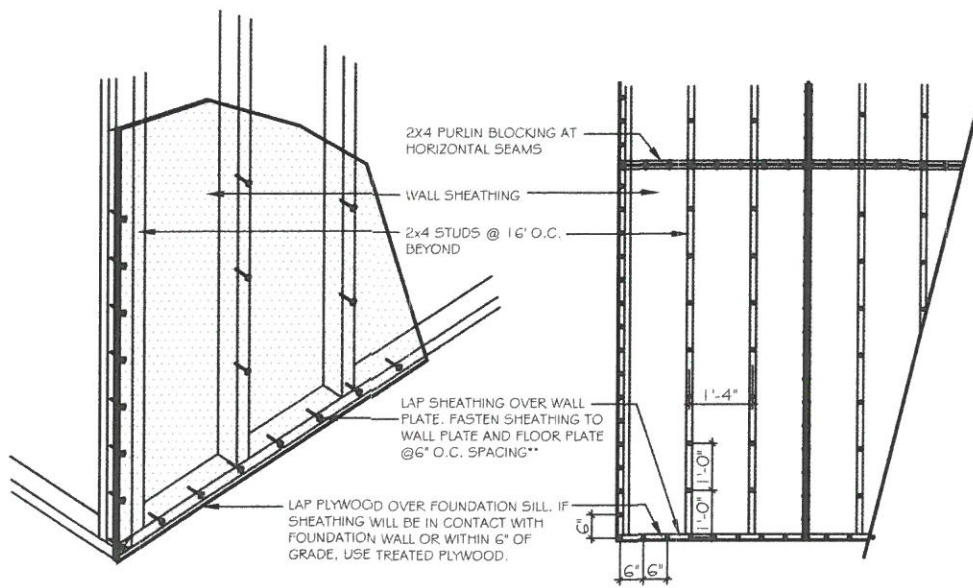
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SCALE:
1/4" = 1'-0"
REVIEWED BY:
SCOTT

SHEET:
D1

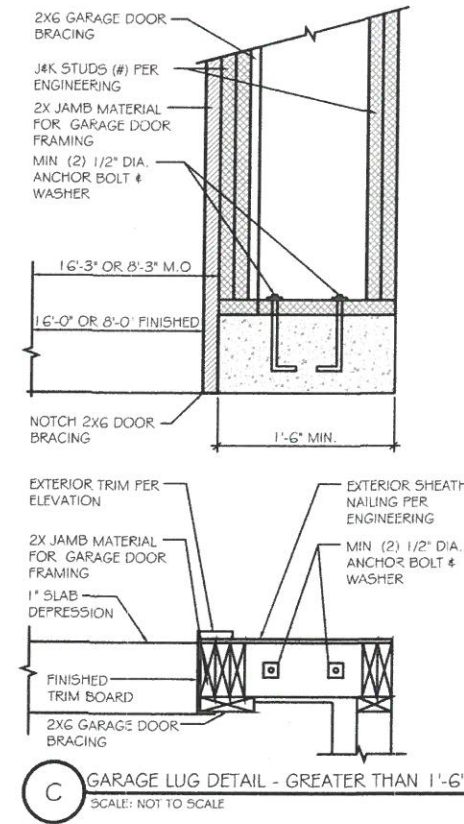


WAINSCOT BRICK DETAIL @ 1X WOOD CORNER CONDITION

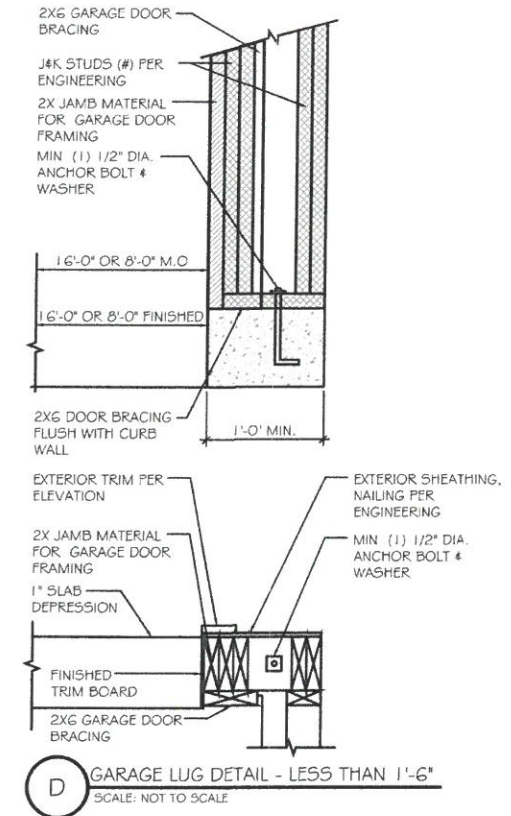
A FLASHING @ WAINSCOTING BRICK DETAIL
SCALE: 1/4" = 1'-0"



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



C GARAGE LUG DETAIL - GREATER THAN 1'-6"
SCALE: NOT TO SCALE



D GARAGE LUG DETAIL - LESS THAN 1'-6"
SCALE: NOT TO SCALE



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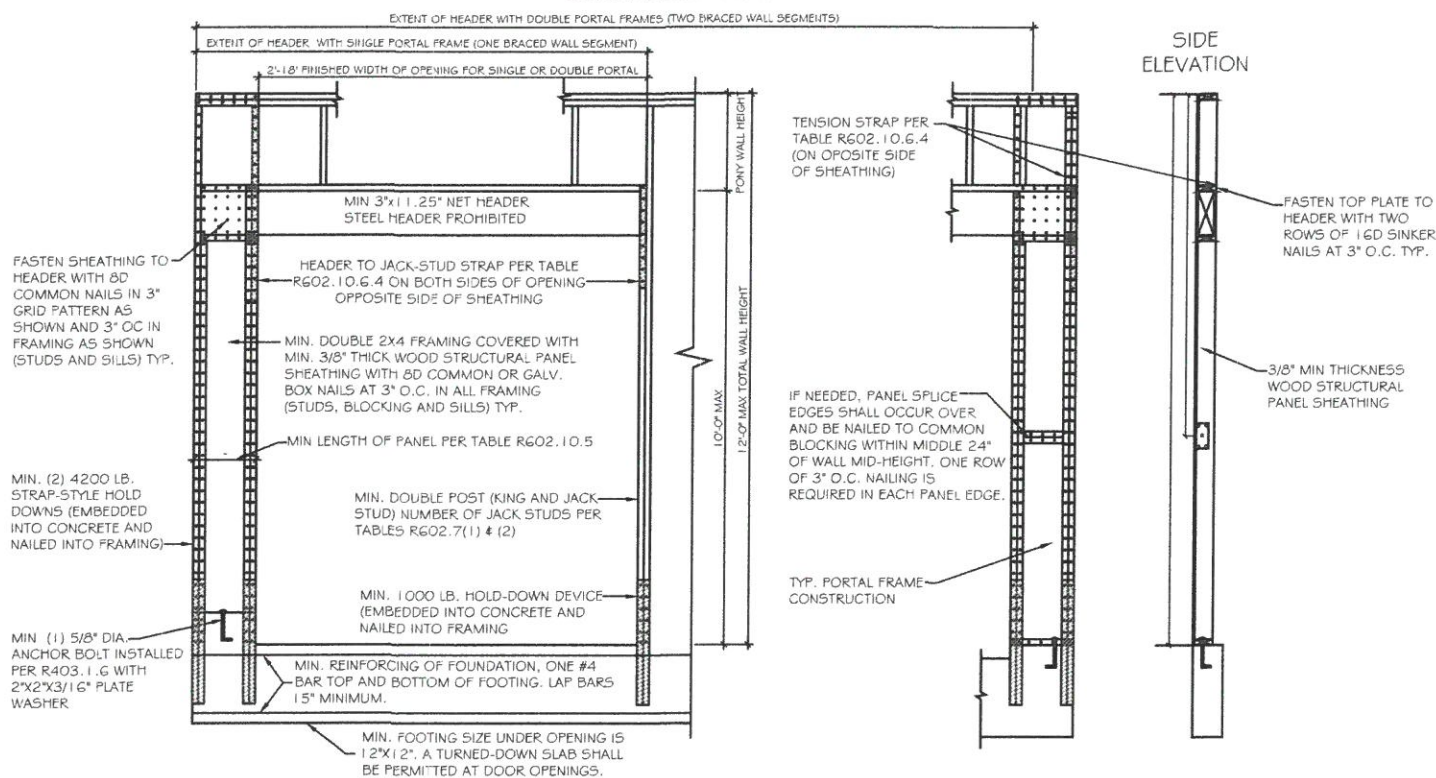
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WALL BRACING HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2018 NCRS AND/OR THE 2015 IRC AS ALLOWED PER SECTION R602.10 OF THE 2018 IRC

OUTSIDE ELEVATION

SIDE ELEVATION

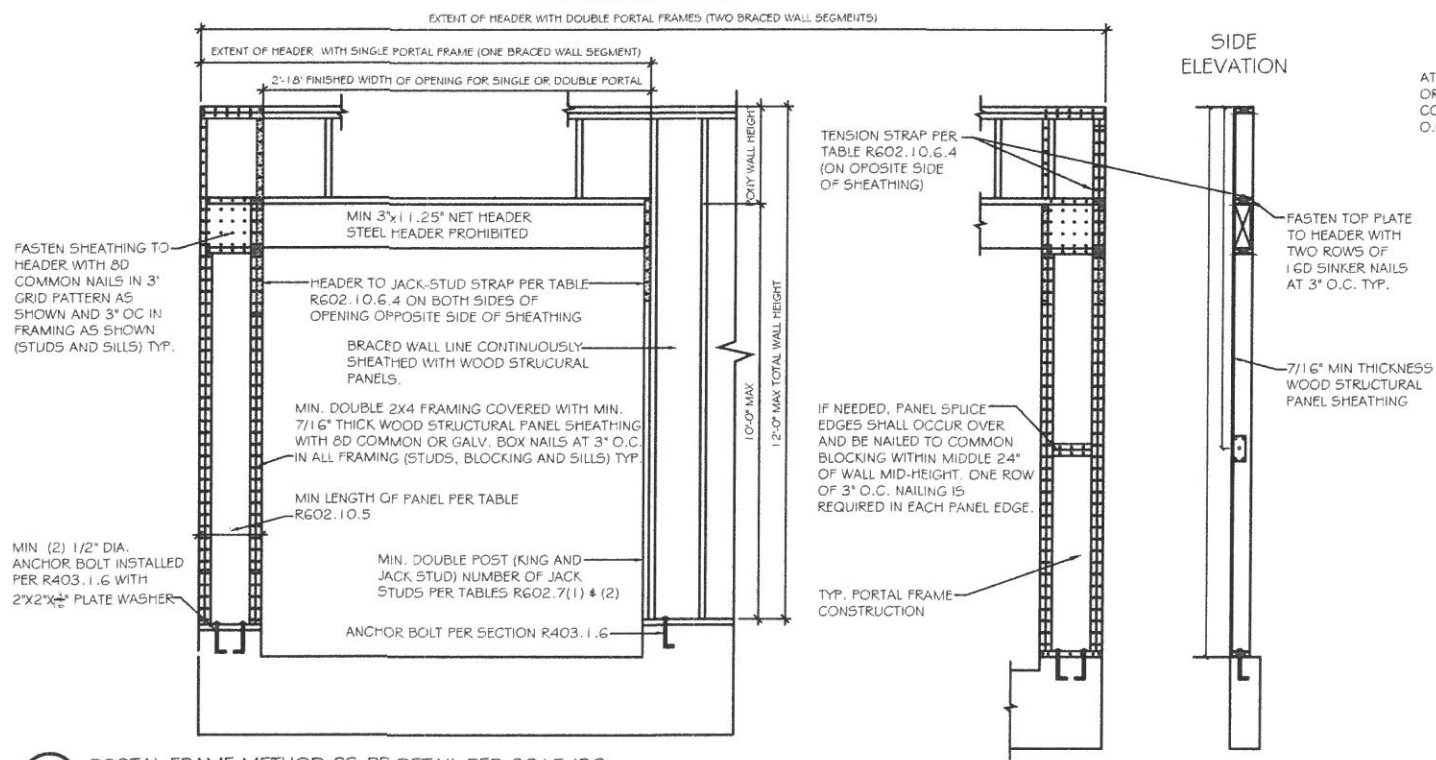


A PORTAL FRAME METHOD PFH DETAIL PER 2015 IRC
SCALE: 3/8" = 1'-0"

PFH METHOD: PORTAL FRAME WITH HOLD DOWNS GARAGE DOORS AND OPENINGS 6' TO 10'

OUTSIDE ELEVATION

SIDE ELEVATION



A PORTAL FRAME METHOD CS-PF DETAIL PER 2015 IRC
SCALE: 3/8" = 1'-0"

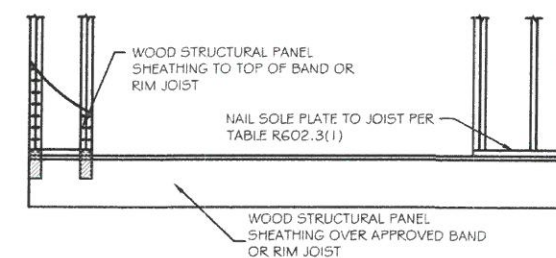
CS-PF METHOD: CONTINUOUSLY SHEATHED PORTAL FRAME-GARAGE DOOR GARAGE DOORS AND OPENINGS 8' AND GREATER

USP CONVERSION CHART

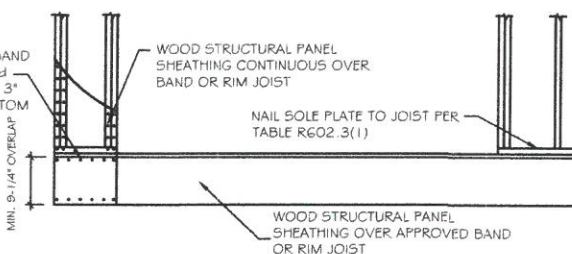
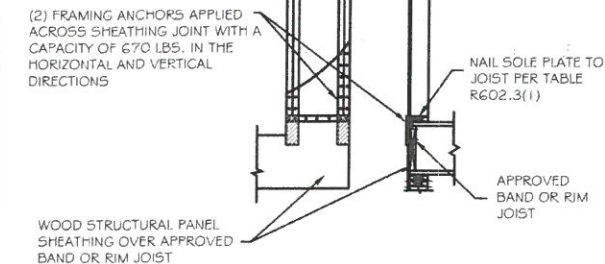
REF NO.	USP
ABA44Z	PA44E-TZ
BC52-2/4	BC4010-TZ
C5-1G	R5150
DTT2Z-SD52.5	DTB-TZ
H2.5A	RT7
H2.5A	RT7A
L5-30	MP3
L5TA24	L5TA24
MASAZ	FA3-TZ
STHD14	STAD14
HHU5410	THD410
A24	TDL5
A21	JA1
LSU2G	L5SH15-TZ
EPB44	EPB4408
BC6	C6G
BC4	C44
LU52B-2	JU52B-2
LU52G	JU52G
ABAGG	PAGGE-TZ
C522	R5-22R
HDU4-SD5	PHD4A
EPB6GT	EPB6G08
HQ08-SD3Z	PHD8
L5TA3G	L5TA36
A34	MP34



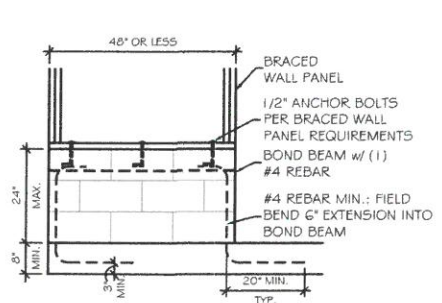
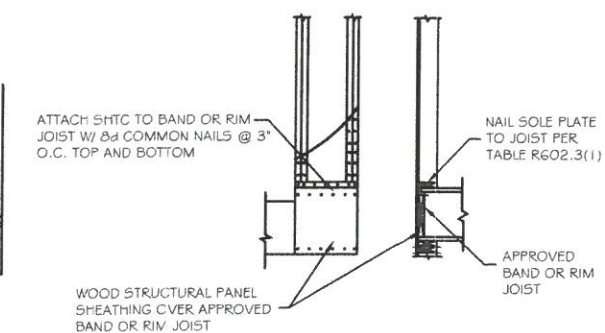
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A OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION
SCALE: 3/8" = 1'-0"
(WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)

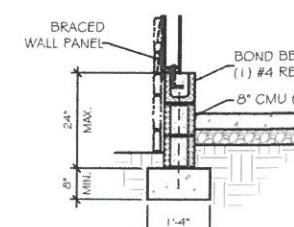


B OVER RAISED WOOD FLOOR - OVERLAP OPTION
SCALE: 3/8" = 1'-0"
(WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)

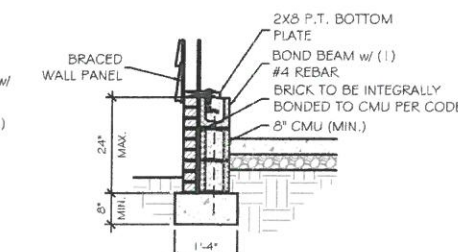


E ELEVATION DETAIL

PORTAL FRAME INFO. ONLY
REF. TYP. WALL SECTIONS FOR ADD. INFO.



F DETAIL @ SIDING / STONE



G DETAIL @ BRICK

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

PER 2015 I.R.C. SHORT STEM WALL REINFORCEMENT

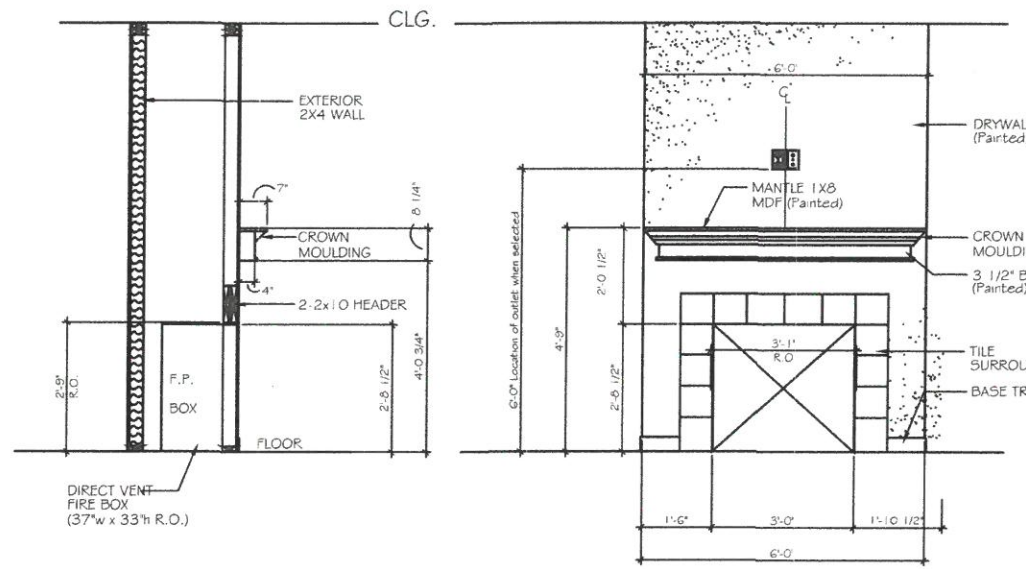
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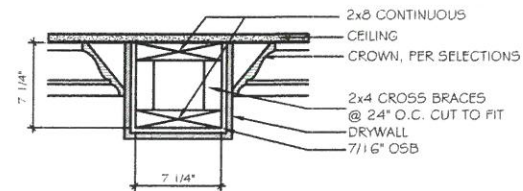
SHEET:
D4



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

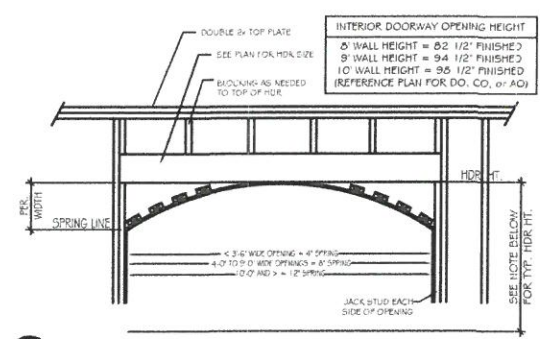
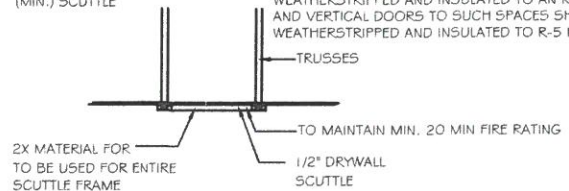
NOTE: SEPARATE GARAGE FROM ATTIC WITH 1/2" DRYWALL (MIN.) SCUTTLE

NOTE: MUST MEET ENERGY EFFICIENCY REQ PER SEC N 1102. PER N 1102.2.4 HORIZONTAL ACCESS DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACES SHALL BE WEATHERSTRIPPED AND INSULATED TO AN R-10 MIN. VALUE, AND VERTICAL DOORS TO SUCH SPACES SHALL BE WEATHERSTRIPPED AND INSULATED TO R-5 MIN. VALUE.

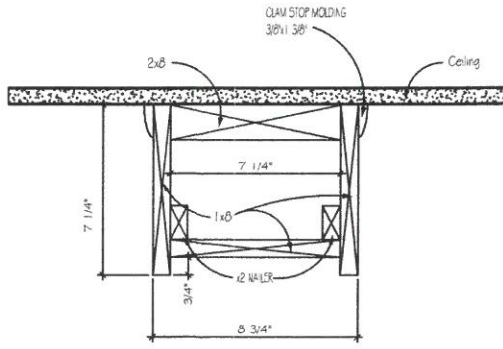


C 8" DRYWALL BEAM DETAIL - LIVING/DINING/STUDY
SCALE: N.T.S.

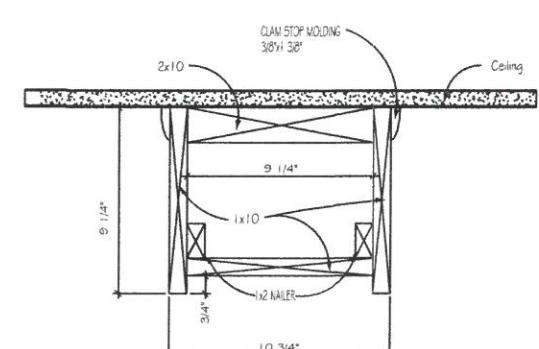
B ATTIC ACCESS PANEL DETAIL
SCALE: N.T.S.



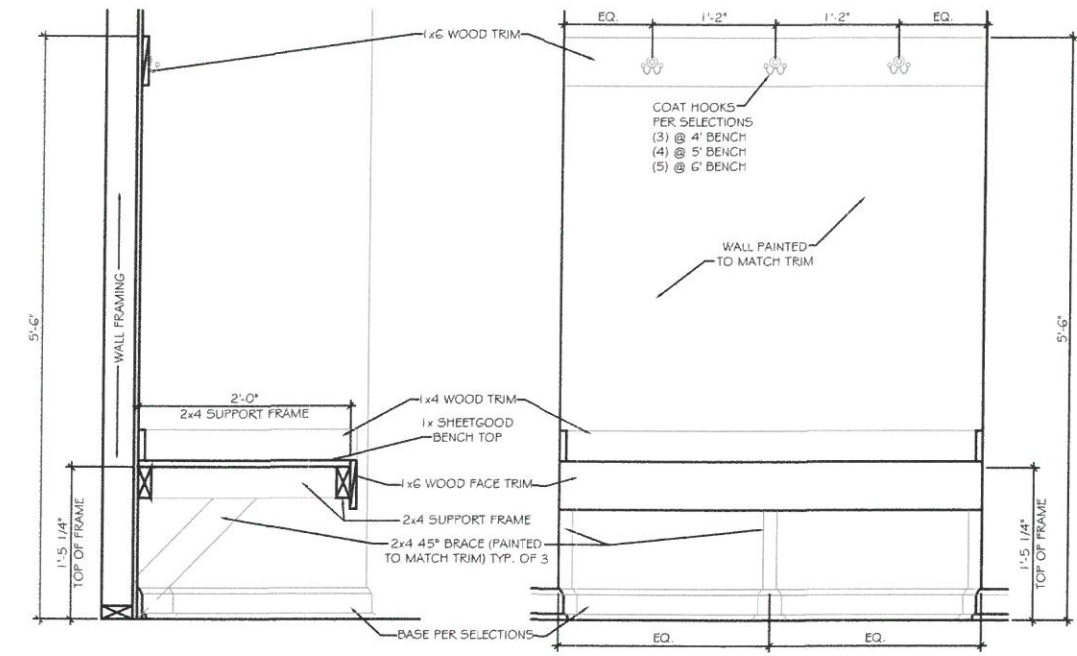
D ARCHED OPENING DETAIL
SCALE: 3/8" = 1'-0"



E 9' CEILING
*WOOD FAUX BEAMS KITCHEN/NOOK ONLY

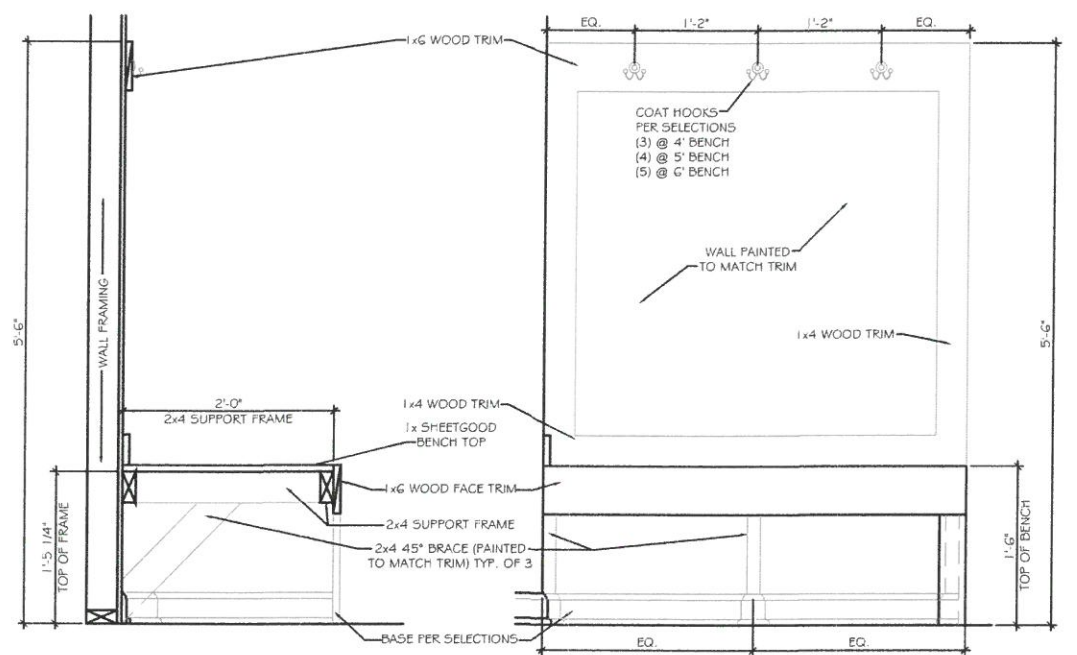


F 10' CEILING
*WOOD FAUX BEAMS KITCHEN/NOOK ONLY



SECTION AT OPEN BENCH
SCALE: NOT TO SCALE WALL END CONDITION

ELEVATION AT OPEN BENCH
SCALE: NOT TO SCALE WALL END CONDITION



SECTION AT OPEN BENCH
SCALE: NOT TO SCALE OPEN END CONDITION

ELEVATION AT OPEN BENCH
SCALE: NOT TO SCALE OPEN END CONDITION

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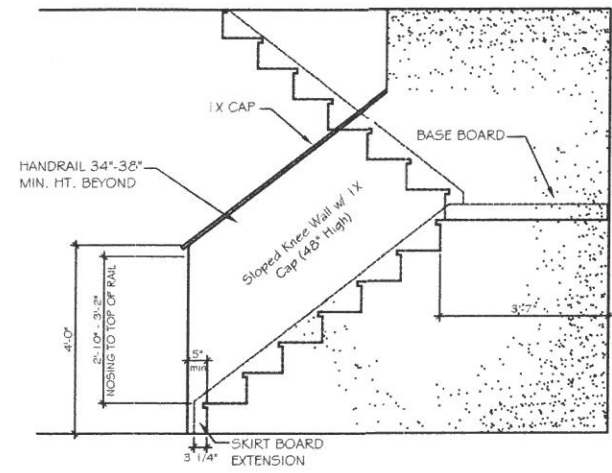
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DATE:
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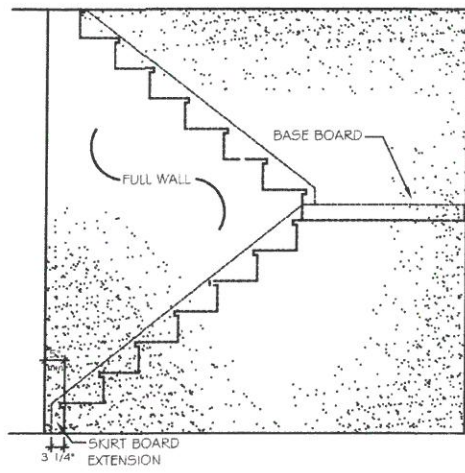
SCALE:
AS SHOWN

REVIEWED BY:
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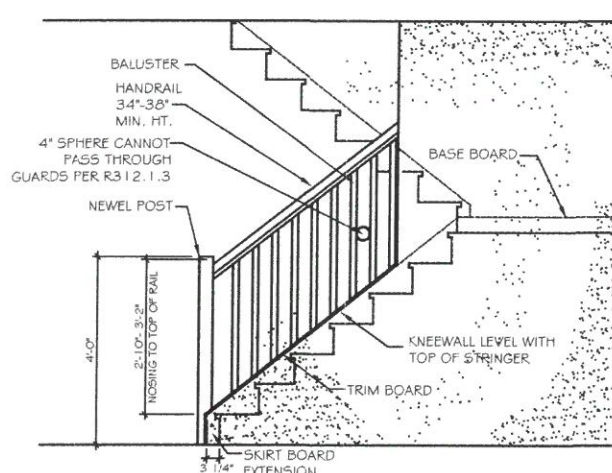
SHEET:
D5



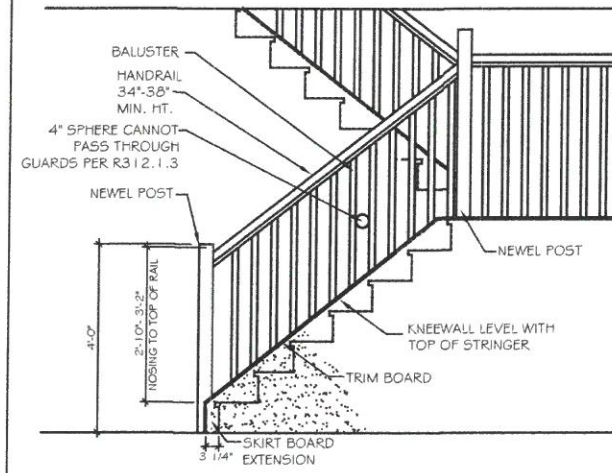
ST-1 48° SLOPED WALL w/ 1x CAP



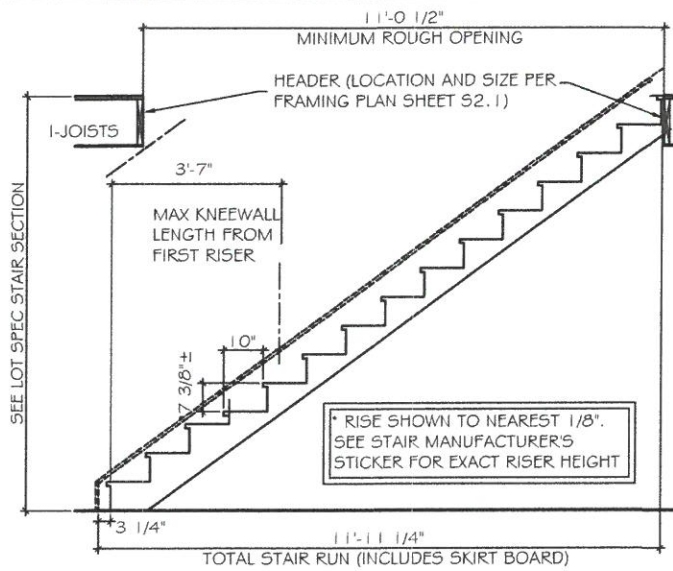
ST-2 FULL WALL



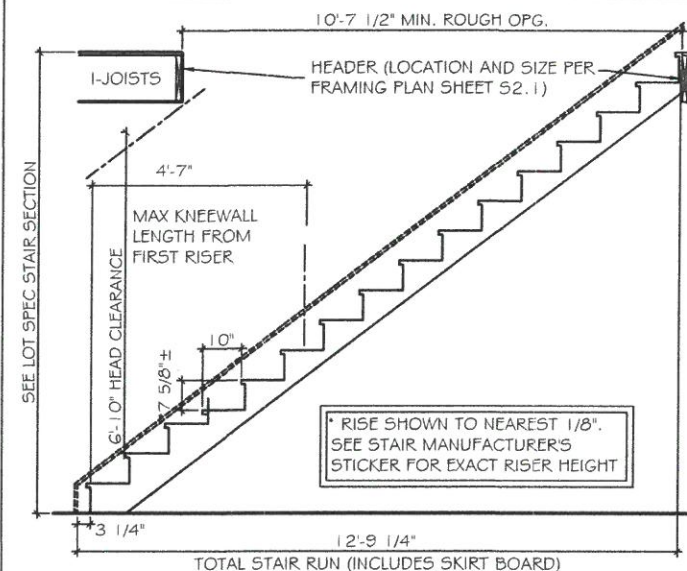
ST-3 OPT. OPEN RAIL



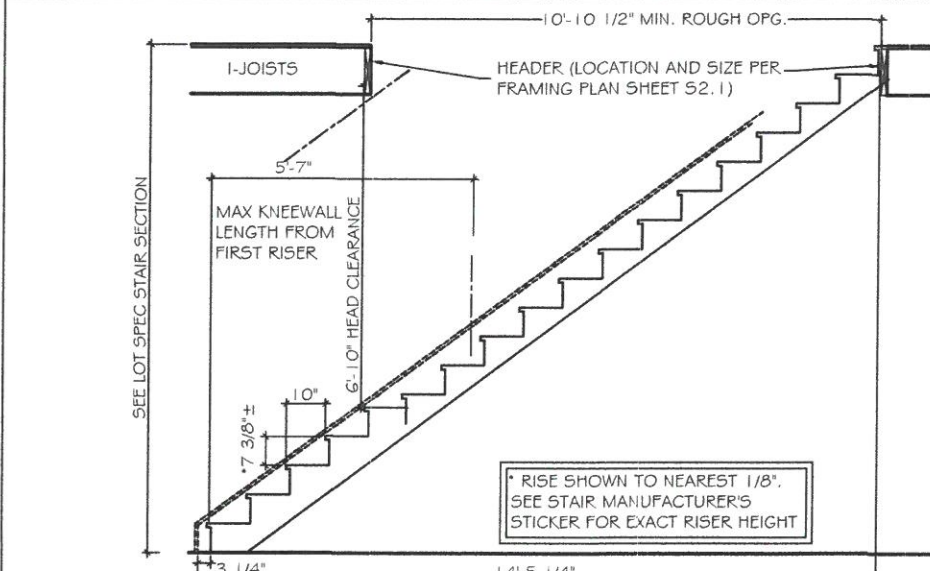
ST-4 OPT. OPEN RAIL FULL STAIR



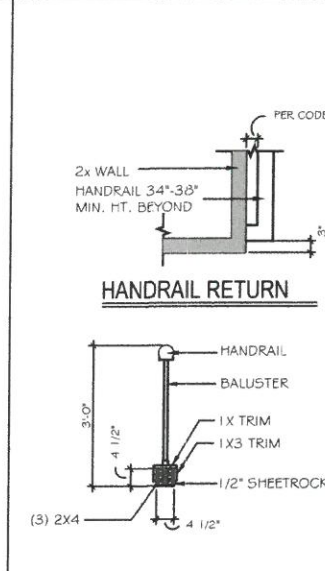
ST-5 STRAIGHT STAIR SECTION - 8ft CEILING HEIGHT w/ 11 7/8\"/>



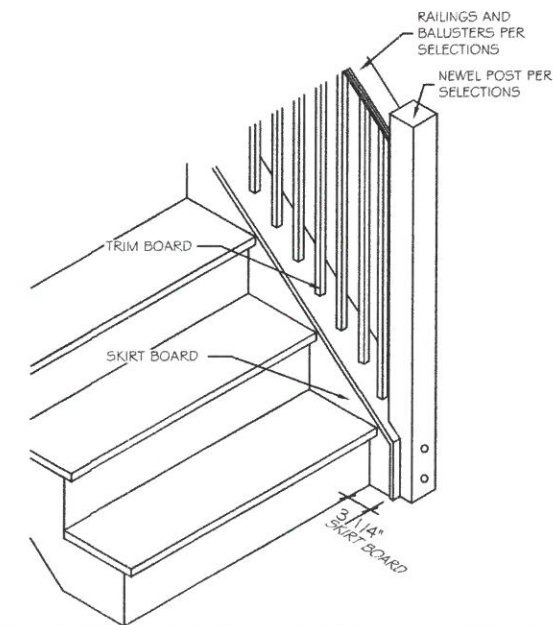
ST-6 STRAIGHT STAIR SECTION - 9ft CEILING HEIGHT w/ 11 7/8\"/>



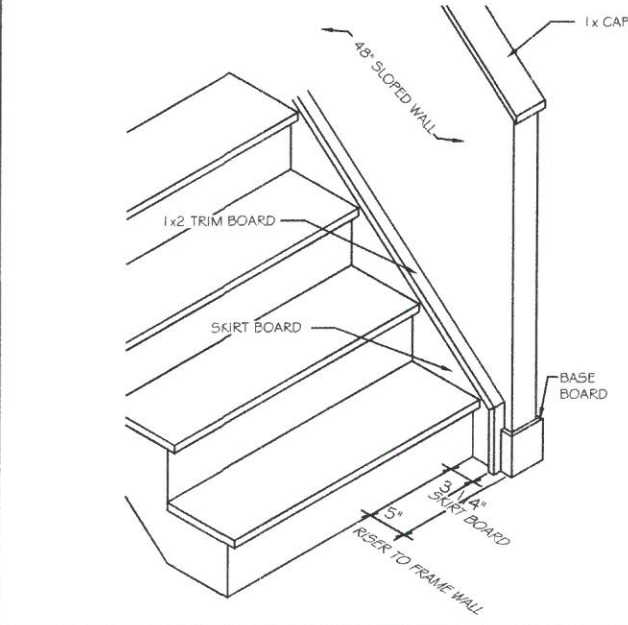
ST-7 STRAIGHT STAIR SECTION - 10ft CEILING HEIGHT w/ 11 7/8\"/>



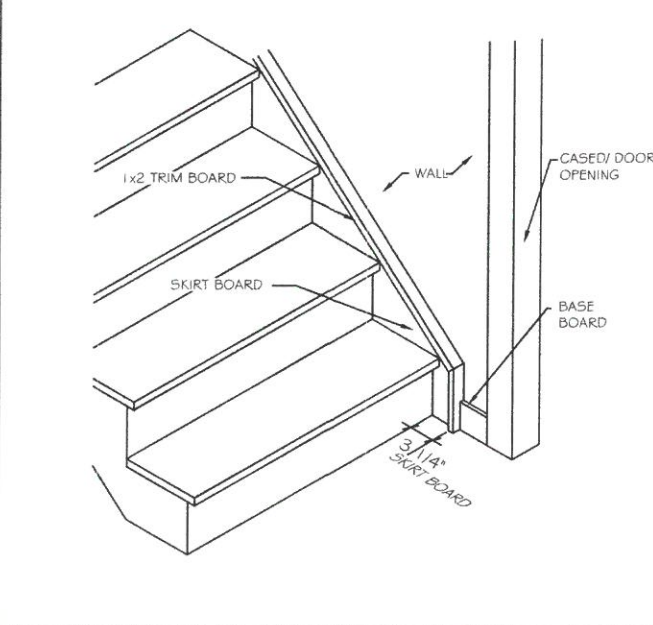
ST-8 HANDRAILS



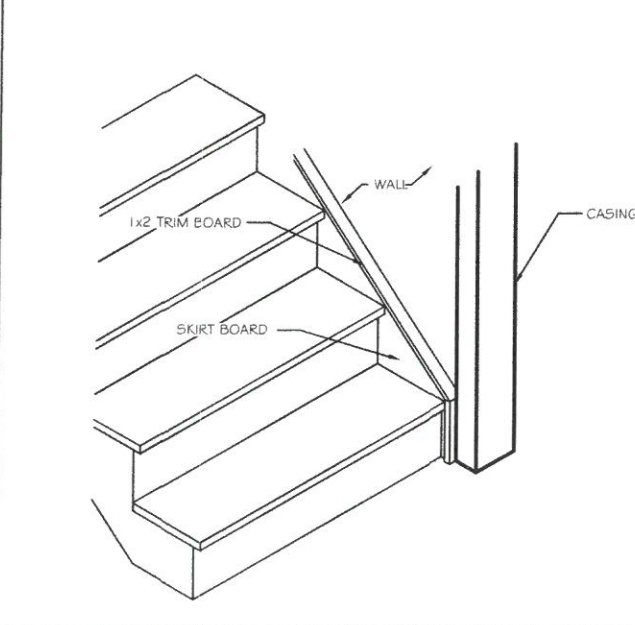
ST-9 OPT. OPEN RAIL - ISO



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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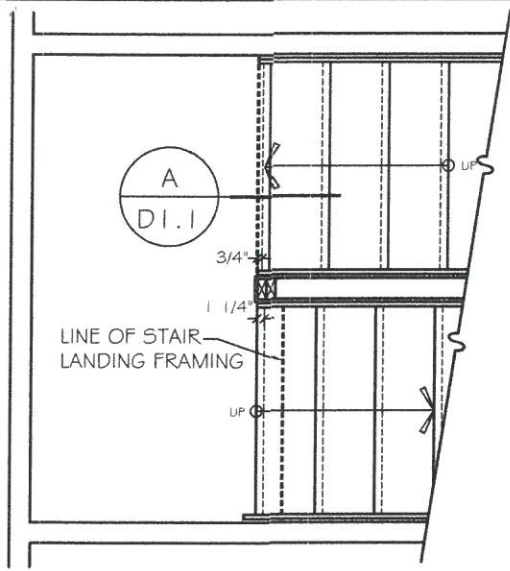
CROSS LINK
LOT# 60

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2016
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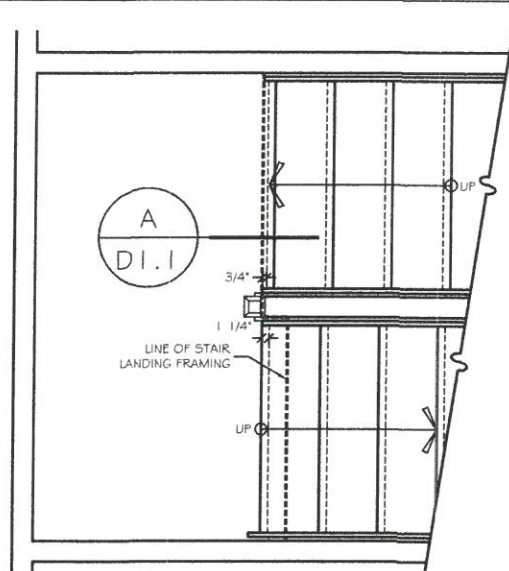
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REVIEWED BY:
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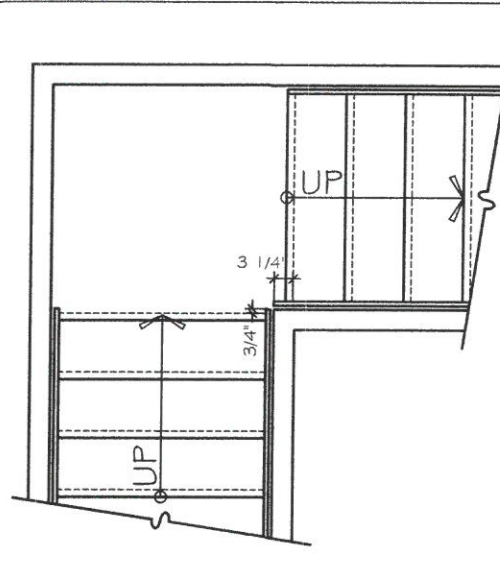
SHEET:
D5.1



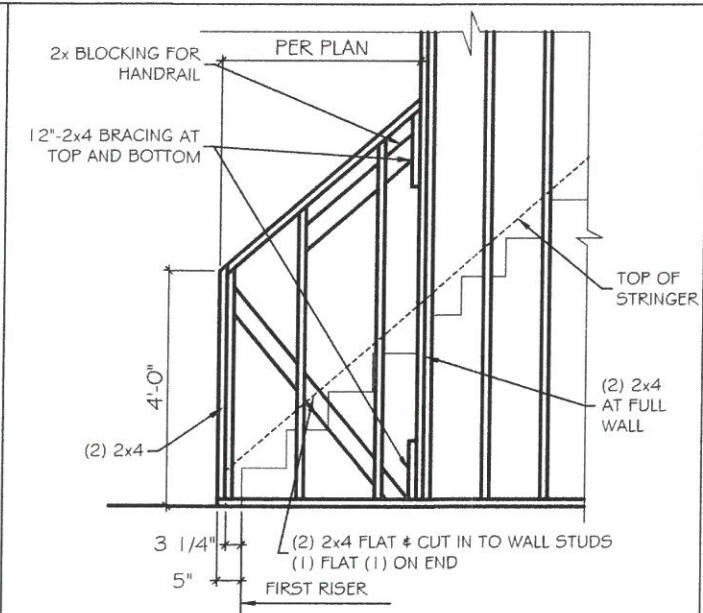
ST-13 STAIR LANDING HALF WALL w/ CAP



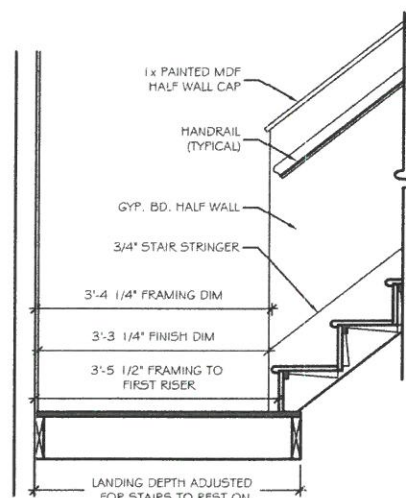
ST-14 STAIR LANDING NEWEL POST & BALUSTRADES



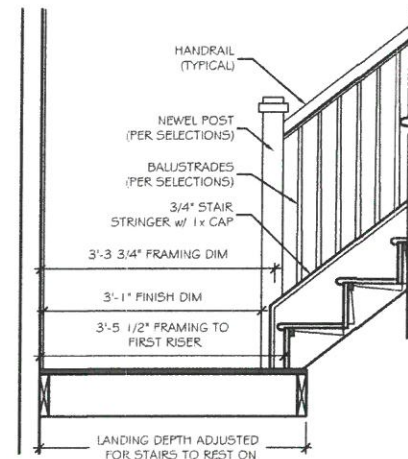
ST-15 STAIR LANDING FULL WALL



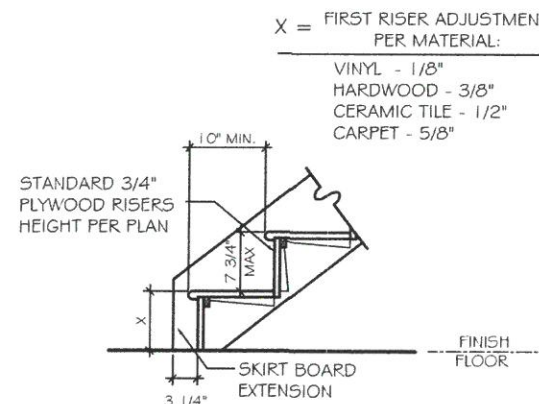
ST-16 SLOPED WALL @ STAIRS - FRAMING



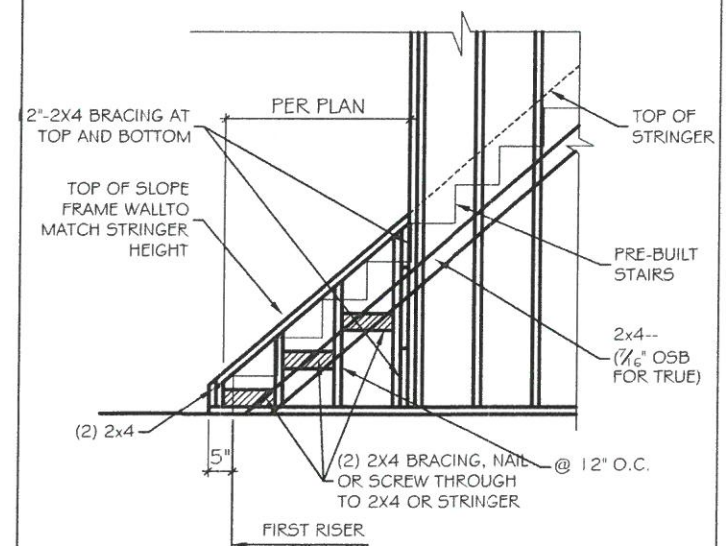
ST-17 SECTION A- SLOPED WALL



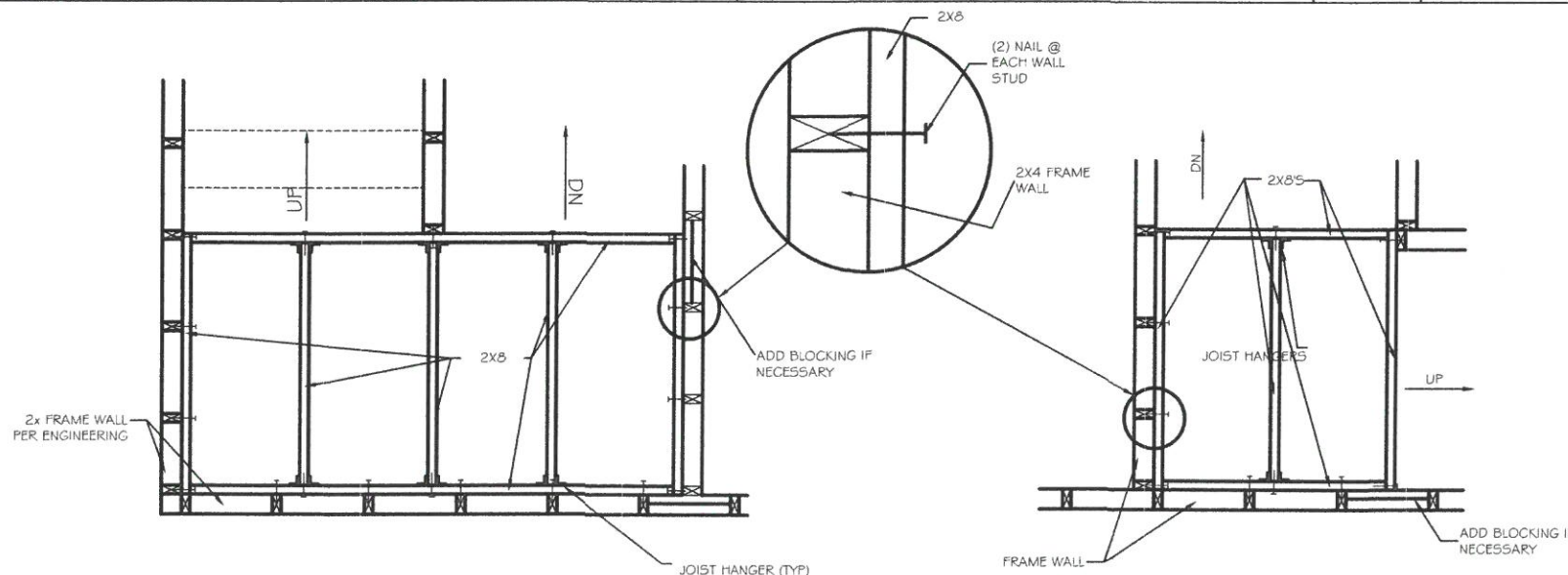
ST-18 SECTION A- OPEN RAIL



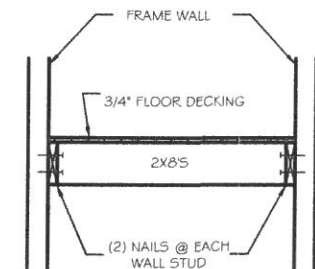
ST-19 STAIR SECTION - FIRST FLOOR



ST-20 OPEN RAIL - CURB WALL FRAMING



ST-21 STAIR LANDING - PLAN VIEW



STAIR LANDING - SECTION VIEW

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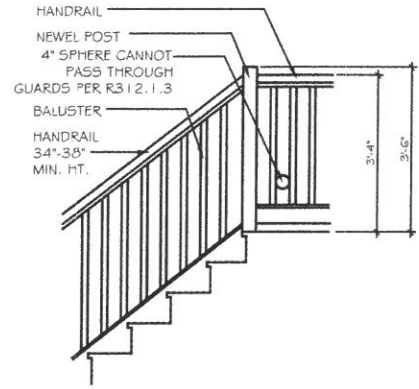
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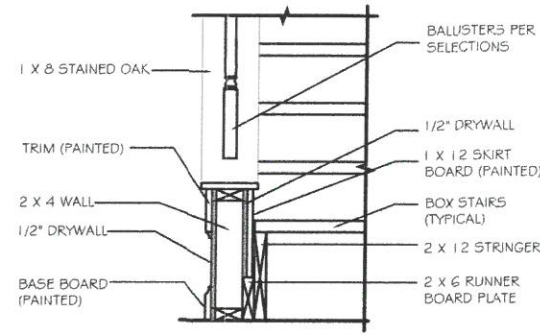
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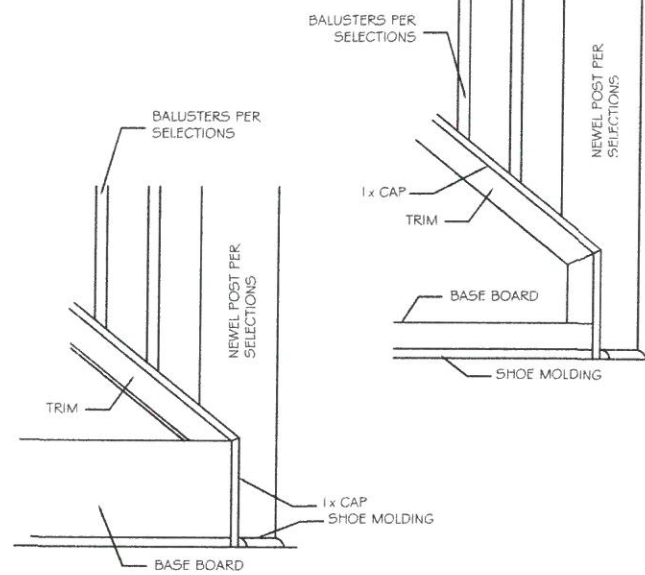
SHEET:
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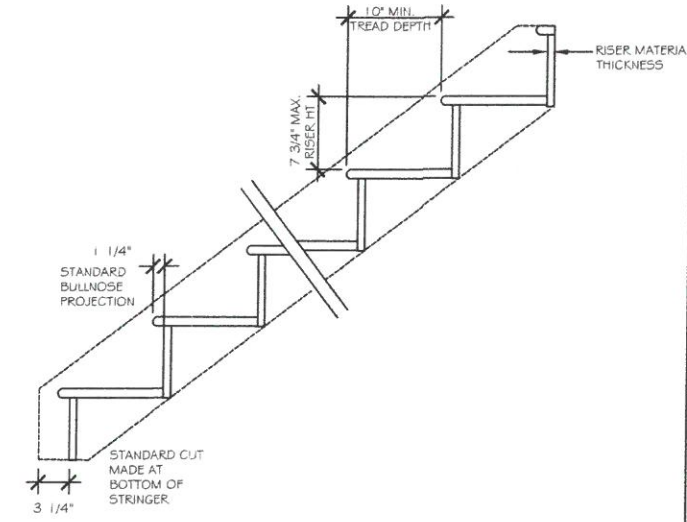
ST-23 OPT. OPEN RAIL AT LANDING



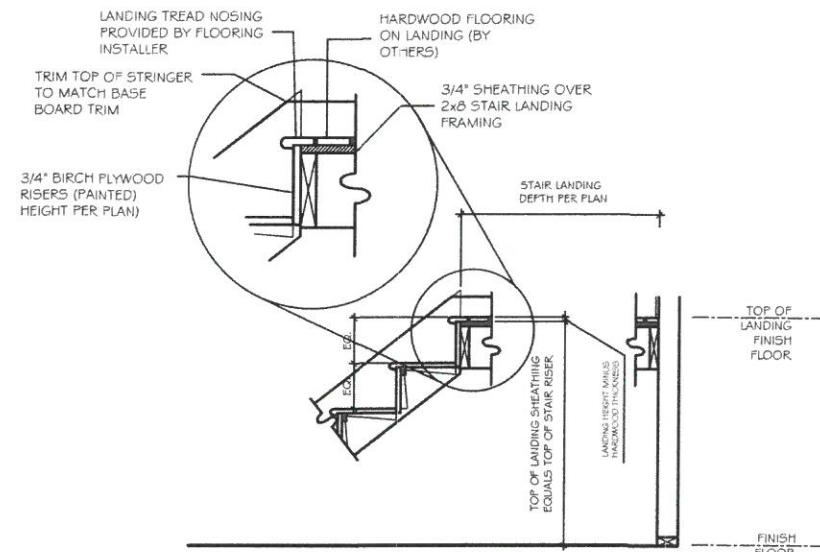
ST-24 SECTION @ CURB WALL



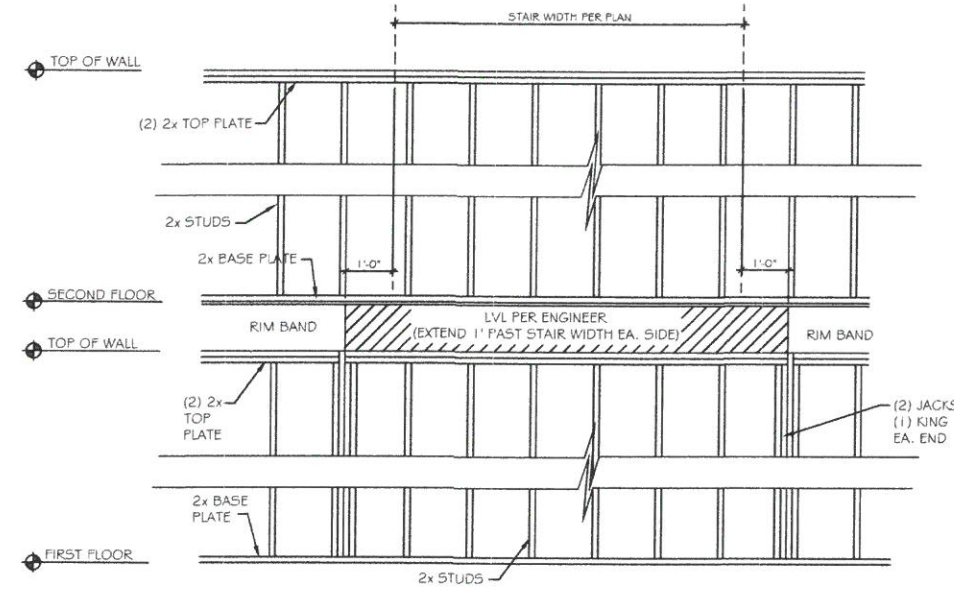
ST-25 OUTSIDE TRIM @ STAIR CURB WALL



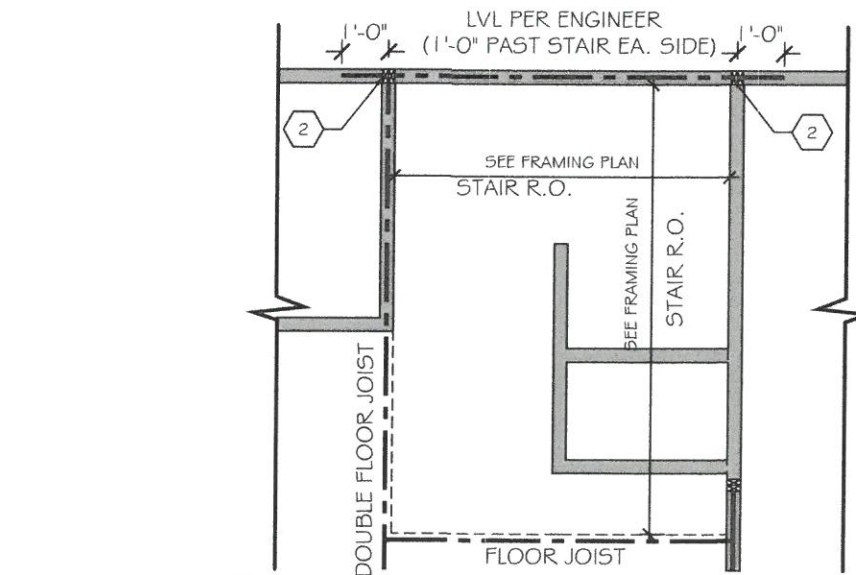
STAIR SECTION



ST-26 STAIR SECTION - HARDWOOD STAIRS AND LANDING



ST-27 STAIR SECTION - CARPET STAIRS AND LANDING



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

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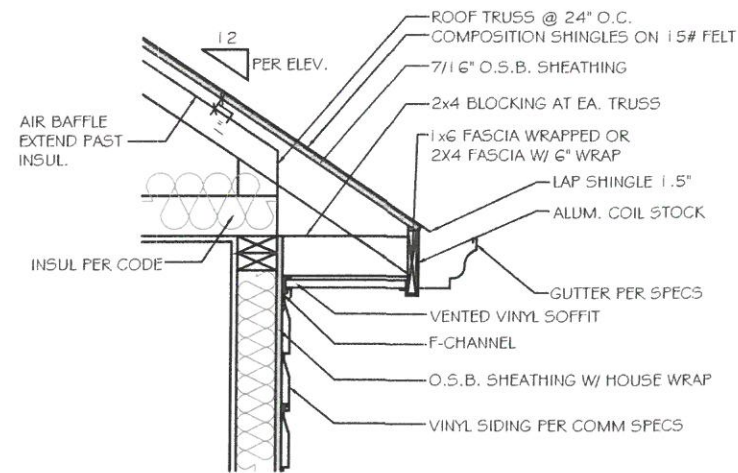
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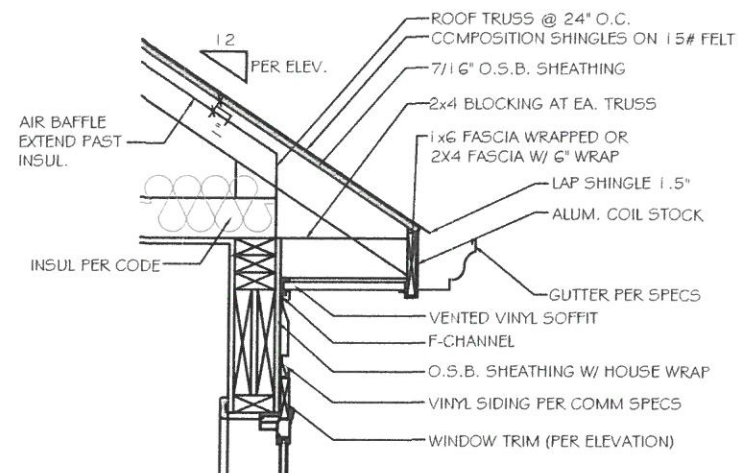
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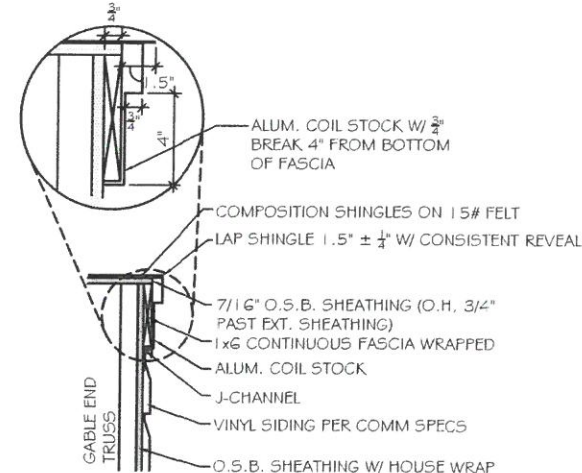
SHEET:
D5.3



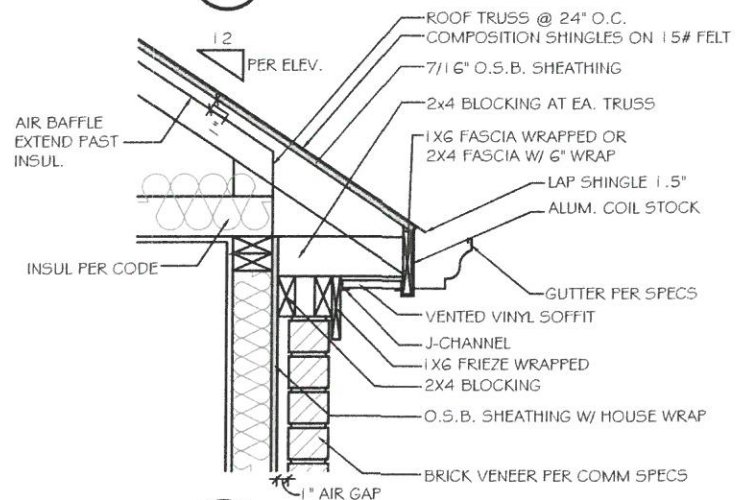
A CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE SIDES & REAR



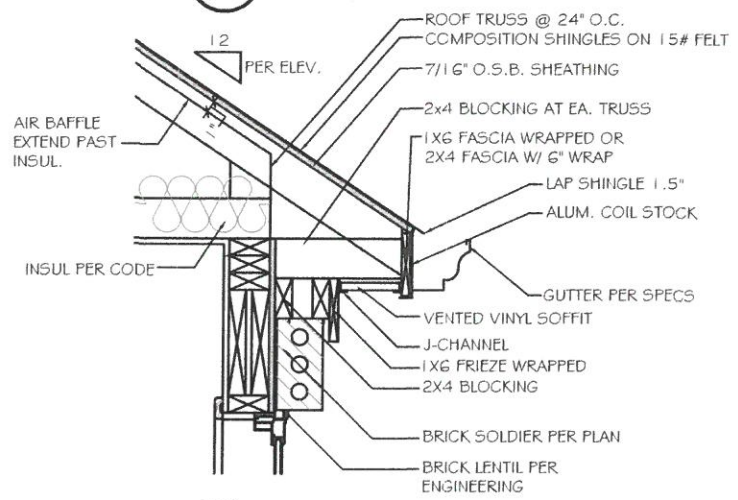
B CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE OVER WINDOW



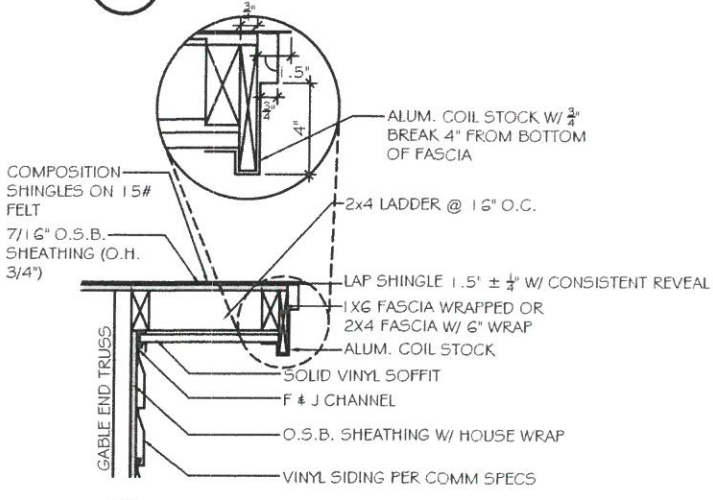
C FLUSH RAKE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE GABLE END



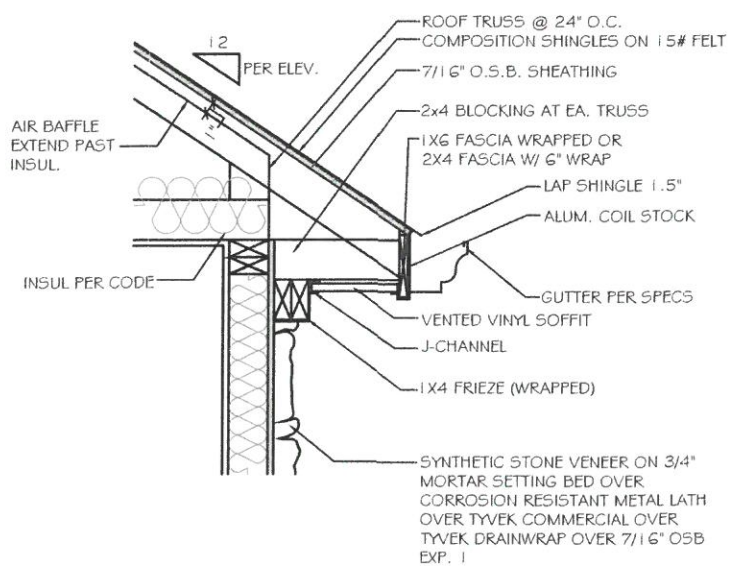
D BRICK CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE FRONT



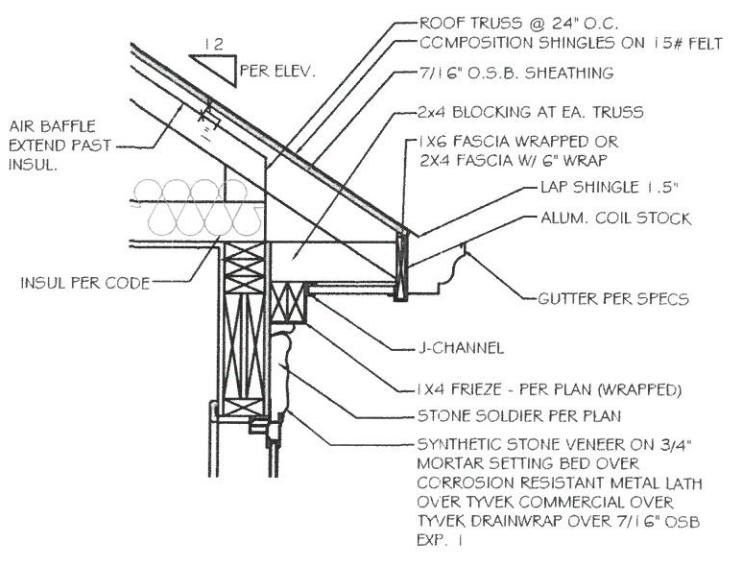
E BRICK CORNICE DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE OVER WINDOW



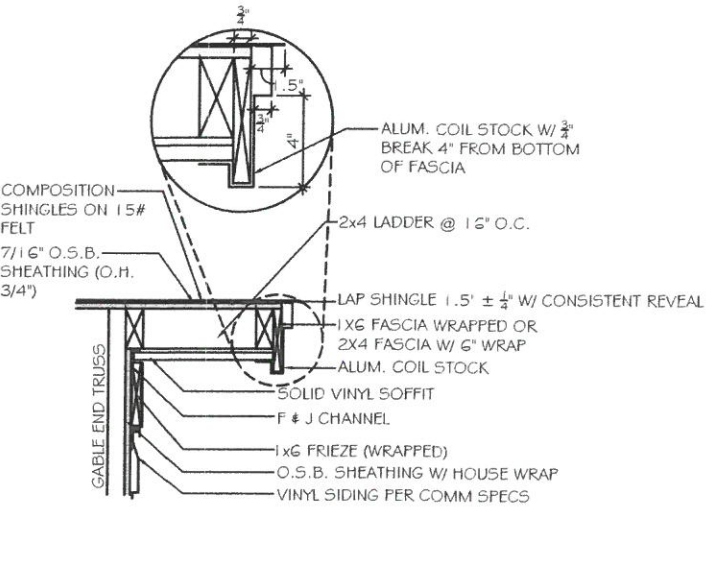
F RAKE OVERHANG DETAIL - VINYL/VINYL
SCALE: NOT TO SCALE GABLE END SIDE



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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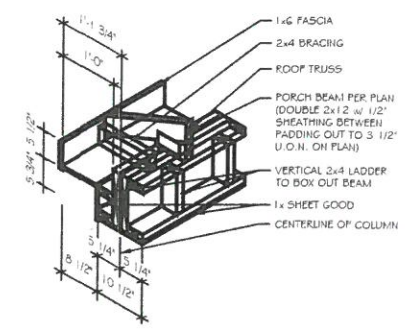
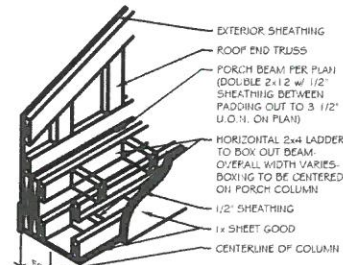
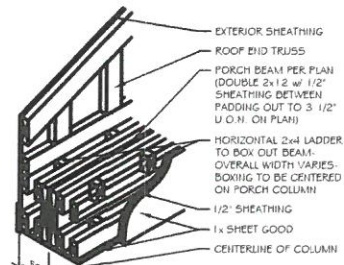
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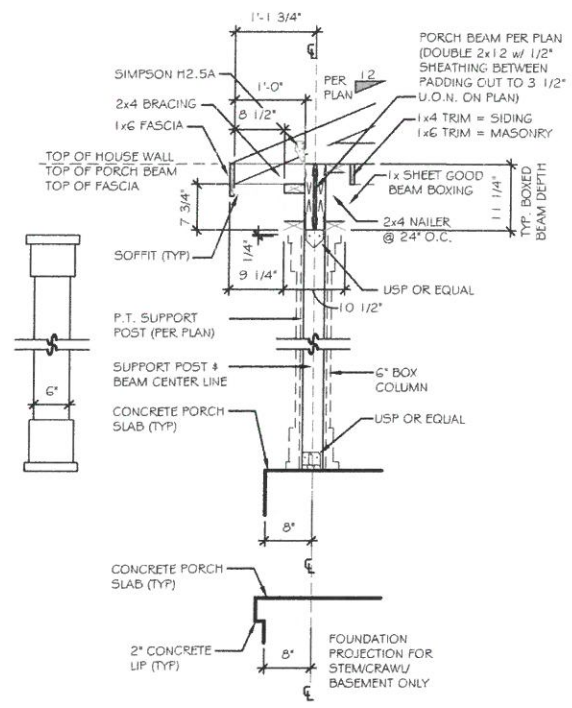
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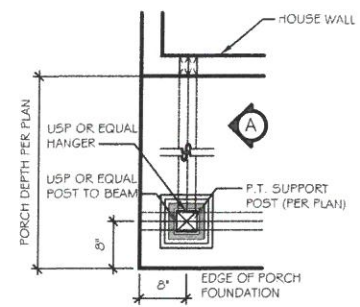
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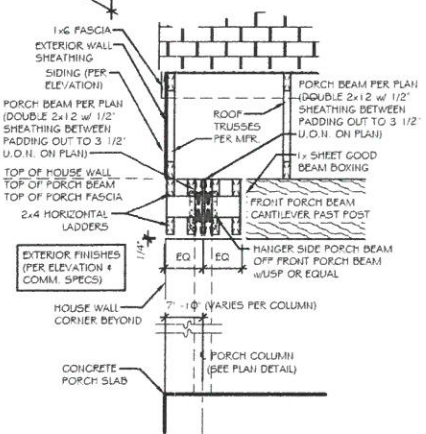
FRONT PORCH BEAM & SOFFIT



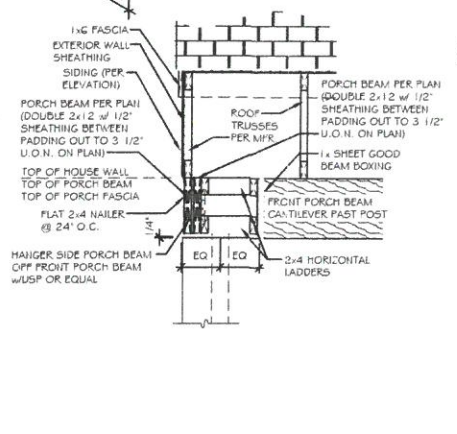
6" BOX COLUMN SECTION DETAIL



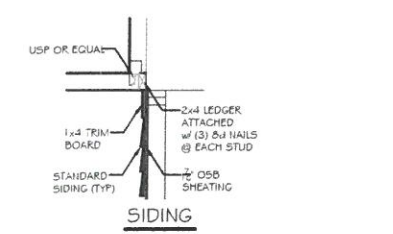
6" BOX COLUMN PLAN



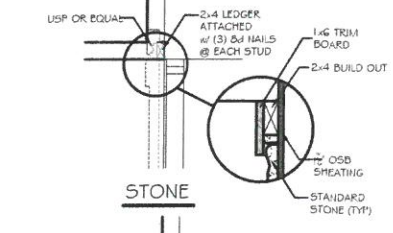
FRONT PORCH BEAM END SECTION



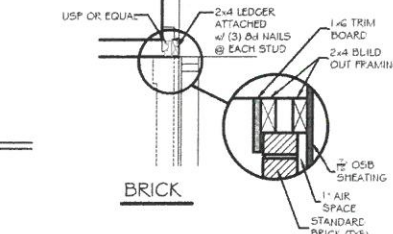
FRONT PORCH BEAM SECTION @ 2nd FLOOR BUMP



SIDING



STONE



BRICK

TRIM @ PORCH SECTION

A FRONT PORCH COLUMN DETAIL
NOTE: PLAN DIMENSIONS SUPERCEDE DETAIL DIMENSIONS

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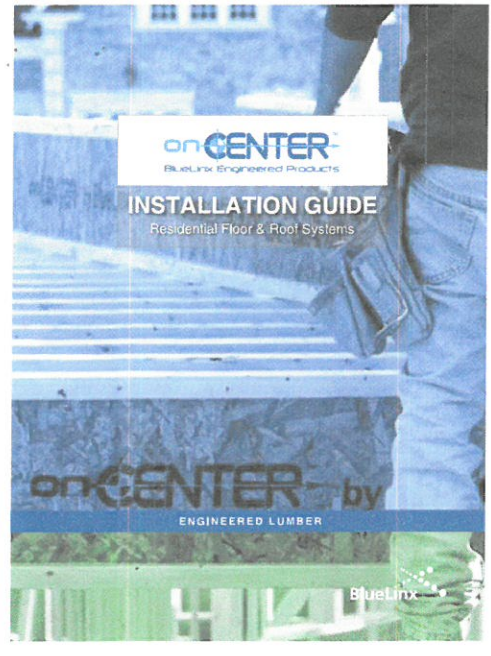


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SHEET:
D10



STORAGE & HANDLING

Protect from moisture, avoid excessive handling, and use proper lifting techniques. Do not use forklifts to lift or move materials. Do not use forklifts to lift or move materials.

SAFETY PRECAUTIONS

Use safety glasses, gloves, and proper lifting techniques. Do not use forklifts to lift or move materials. Do not use forklifts to lift or move materials.

BRACING REQUIREMENTS

Use proper bracing techniques to ensure structural integrity. Do not use forklifts to lift or move materials. Do not use forklifts to lift or move materials.

INSTALLATION NOTES

1. Do not use onCENTER products for applications not intended for use.
2. Do not use onCENTER products for applications not intended for use.
3. Do not use onCENTER products for applications not intended for use.
4. Do not use onCENTER products for applications not intended for use.
5. Do not use onCENTER products for applications not intended for use.

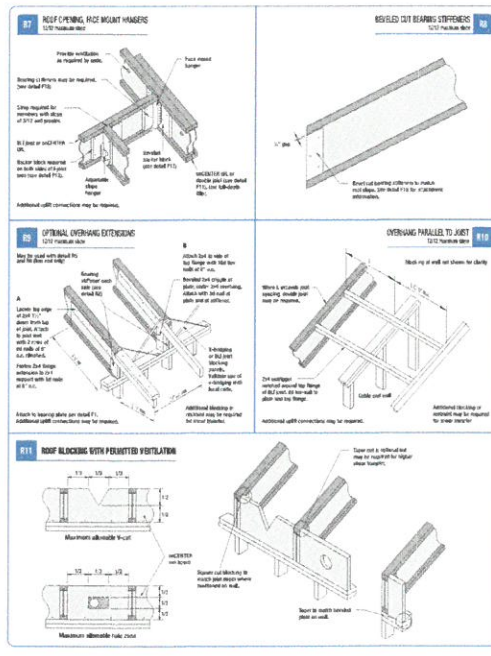
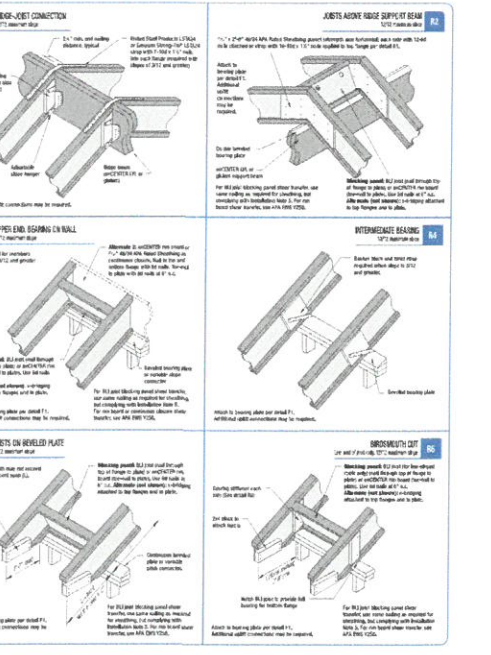
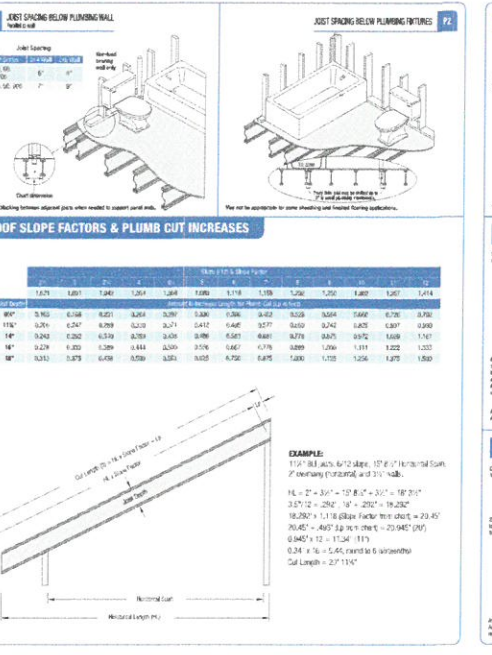
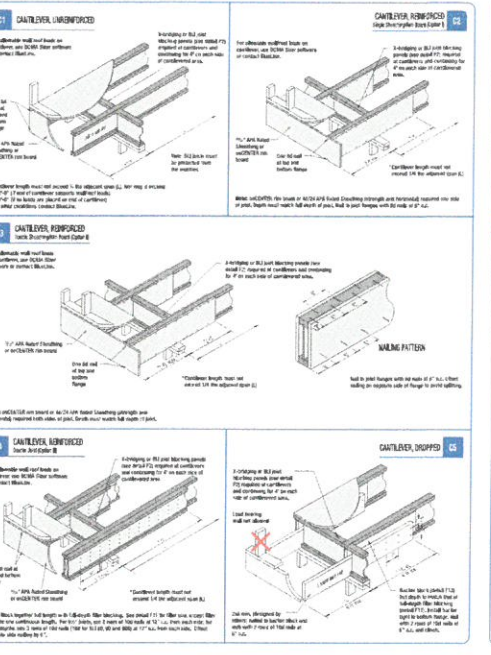
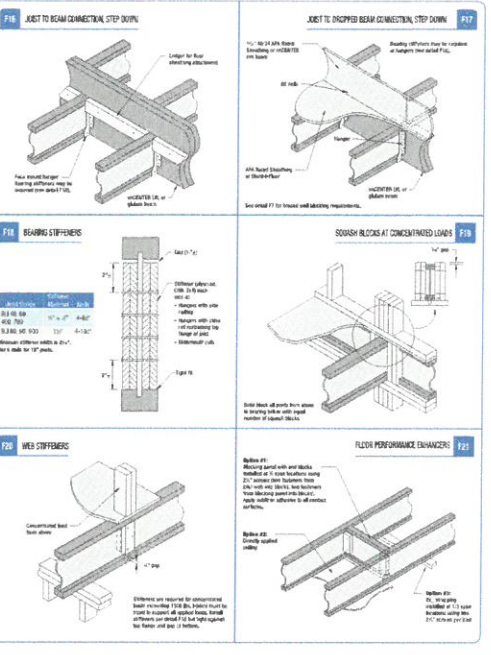
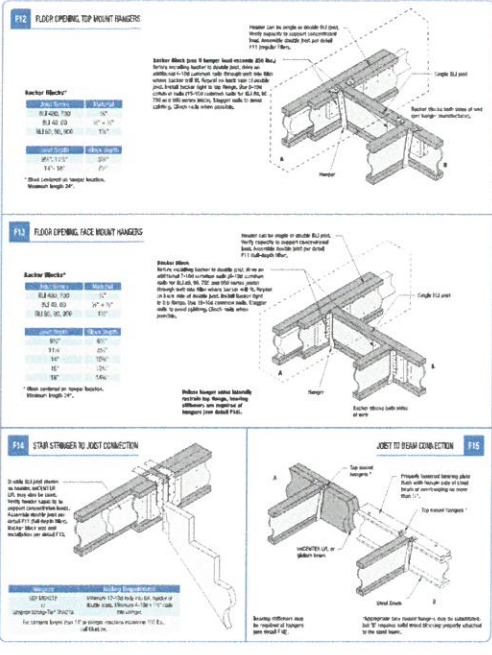
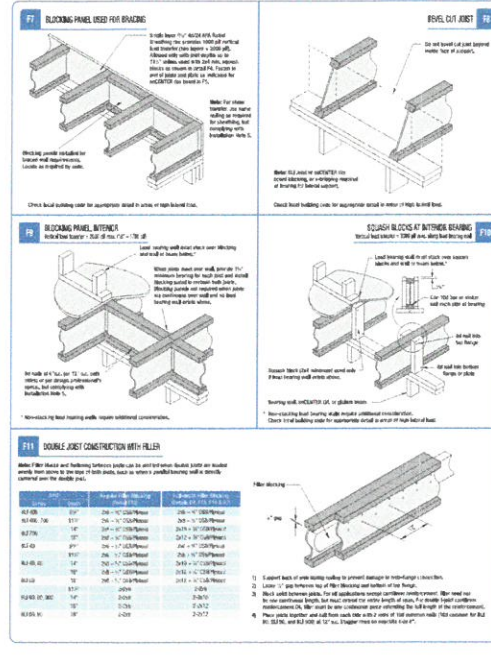
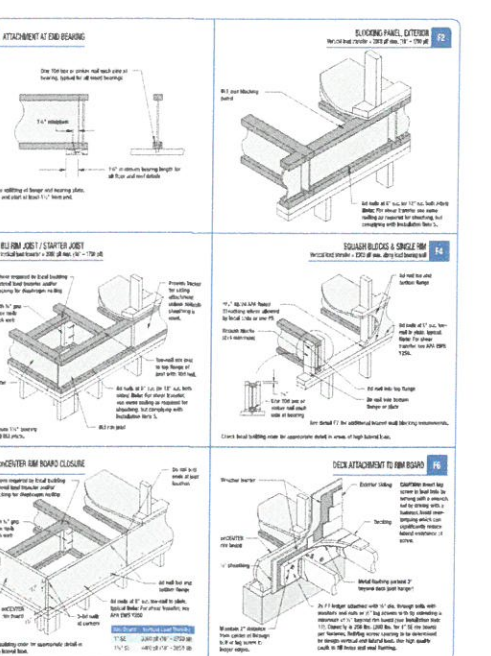
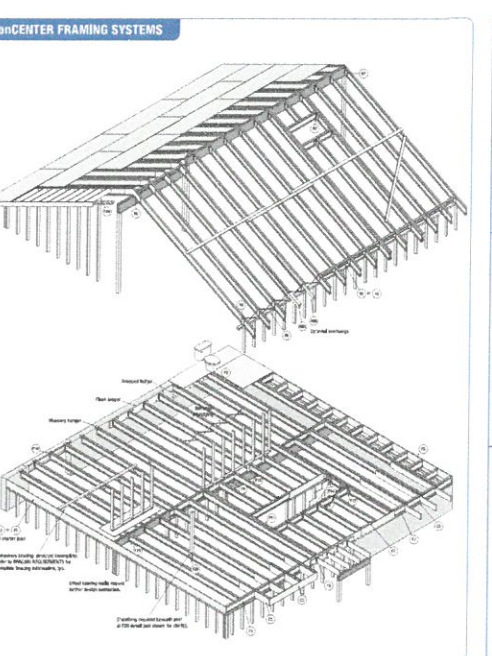
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FLOOR SPANS

40 PSF Live Load + 10 PSF Dead Load (L400)

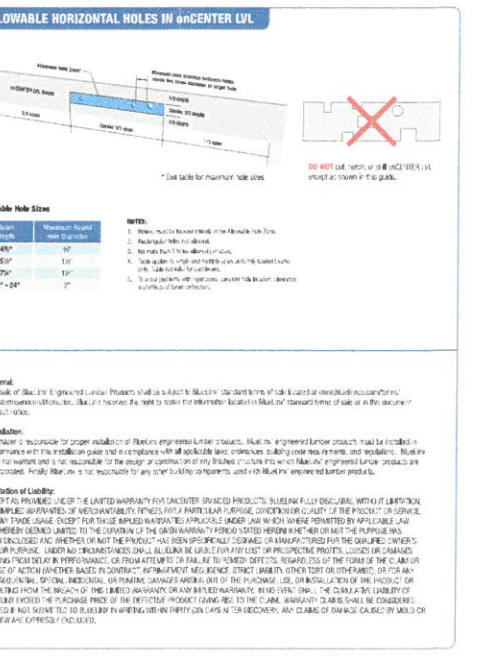
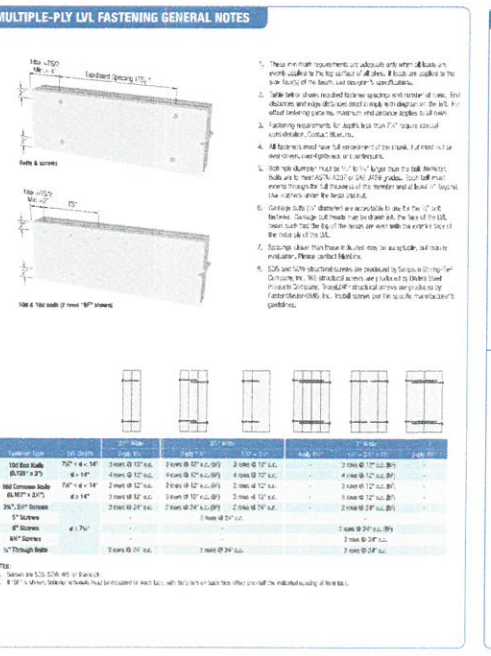
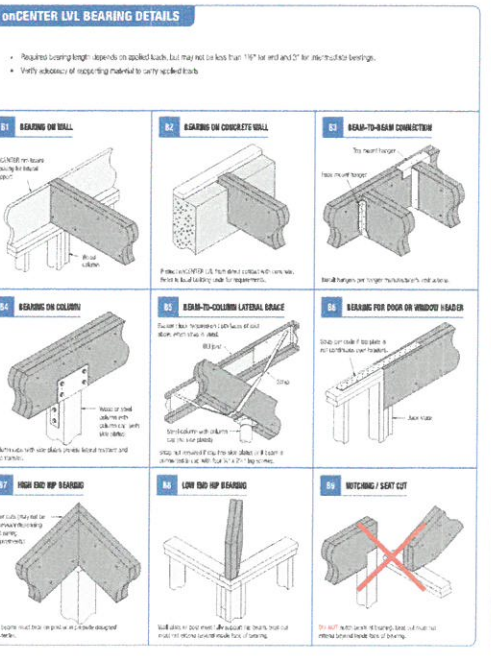
Span	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	40 PSF Live Load + 10 PSF Dead Load (L400)	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)	10'	12'	14'	16'	18'	20'	22'	24'	26'



HOLES

Allowable Hole Location for BLU 400 (Single or Multiple Joists)

Span	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"
12"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"



onCENTER BlueLinx Engineered Products

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1-877-814-7770
www.oncenter.com

BlueLinx
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General
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PRECAUCIONES DE SEGURIDAD

REQUISITOS DE REFORZAMIENTO

NOTAS DE INSTALACION

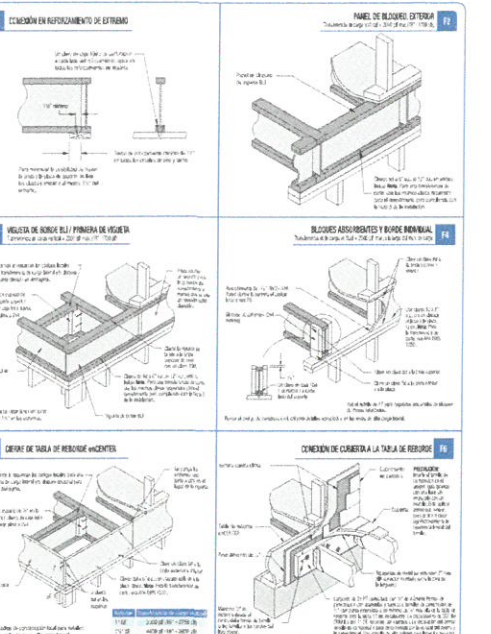
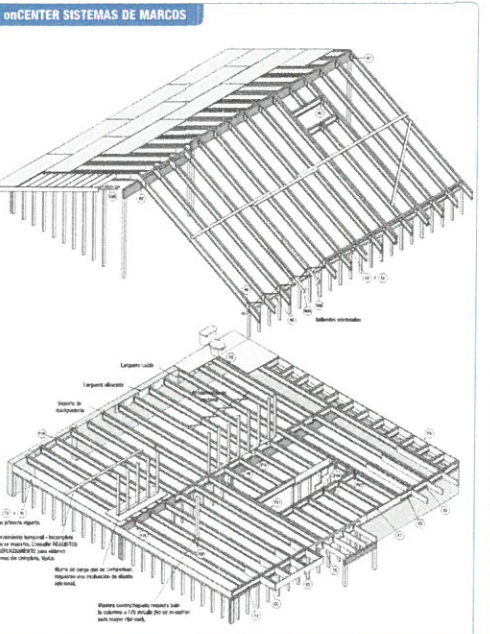
1. Use the product onCEnter LVL in accordance with the applicable code and local regulations.
2. The beams must be stored and handled in a safe and secure manner.
3. The beams must be supported properly during installation.
4. The beams must be installed in accordance with the applicable code and local regulations.
5. The beams must be supported properly during installation.
6. The beams must be installed in accordance with the applicable code and local regulations.

PRECAUCIONES DE LA INSTALACION

DISTANCIAS MÁXIMAS DE LAS VIGUETAS

40 PSF carga viva + 10 PSF carga muerta (L-40)

Span	40/10	40/10	40/10	40/10	40/10	40/10	40/10	40/10
LVL 40	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
LVL 60	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
LVL 80	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
LVL 100	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
LVL 120	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
LVL 160	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"
	10'0"	11'0"	12'0"	13'0"	14'0"	15'0"	16'0"	17'0"



17 PANEL DE BLOQUEADO PARA REFUERZO

18 BLOQUEO DEL INTERIOR DEL PANEL

19 TABLEROS DE PIEL CONECTADOS EN LA PARTE SUPERIOR

20 TABLEROS DE PIEL CONECTADOS EN LA PARTE INFERIOR

21 CONEXION VIGUETA A VIGA ESCALÓN

22 BLOQUES ASISTENTES A CARGAS CONCENTRADAS

23 VIGUETAS NO REFREJADAS

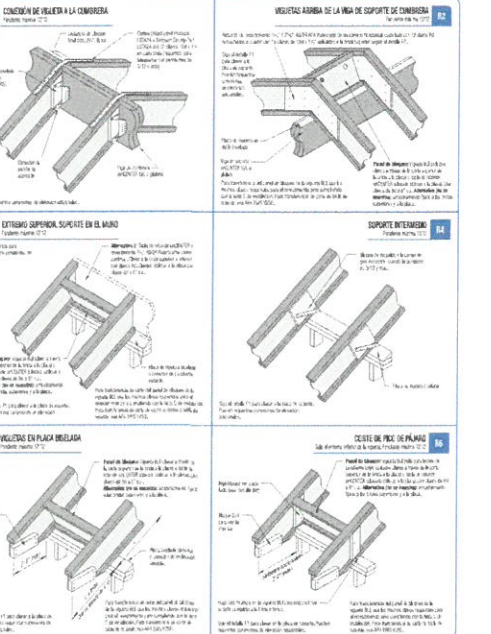
24 VIGUETAS REFREJADAS

SEPARACION DE VIGUETAS EN LA LINEA DE CONEXION DE PUNTO

Dimension	10'	11'	12'	13'	14'	15'	16'	17'	18'
Distancia	10'	11'	12'	13'	14'	15'	16'	17'	18'

FACTORES DE TECHO DE PENDIENTE Y AUMENTA LA PLOMADA CORTE

Pendiente	1/12	1/8	1/4	1/3	1/2	2/3	1	3/4	1
Factor	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40



27 BLOQUEO DE TORNILLOS CONECTADOS EN LA PARTE SUPERIOR

AGUJEROS

Dimension	12"	14"	16"	18"	20"	22"	24"
Distancia	12"	14"	16"	18"	20"	22"	24"

DETALLES DE SOPORTE PARA onCENTER LVL

28 BLOQUEO DE TORNILLOS CONECTADOS EN LA PARTE INFERIOR

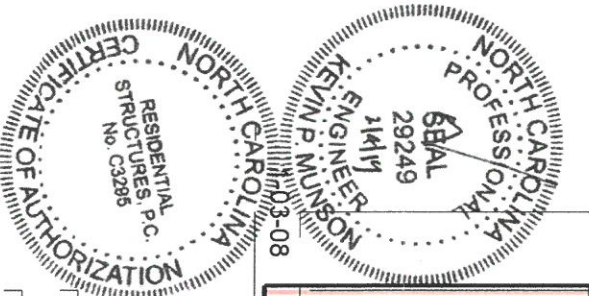
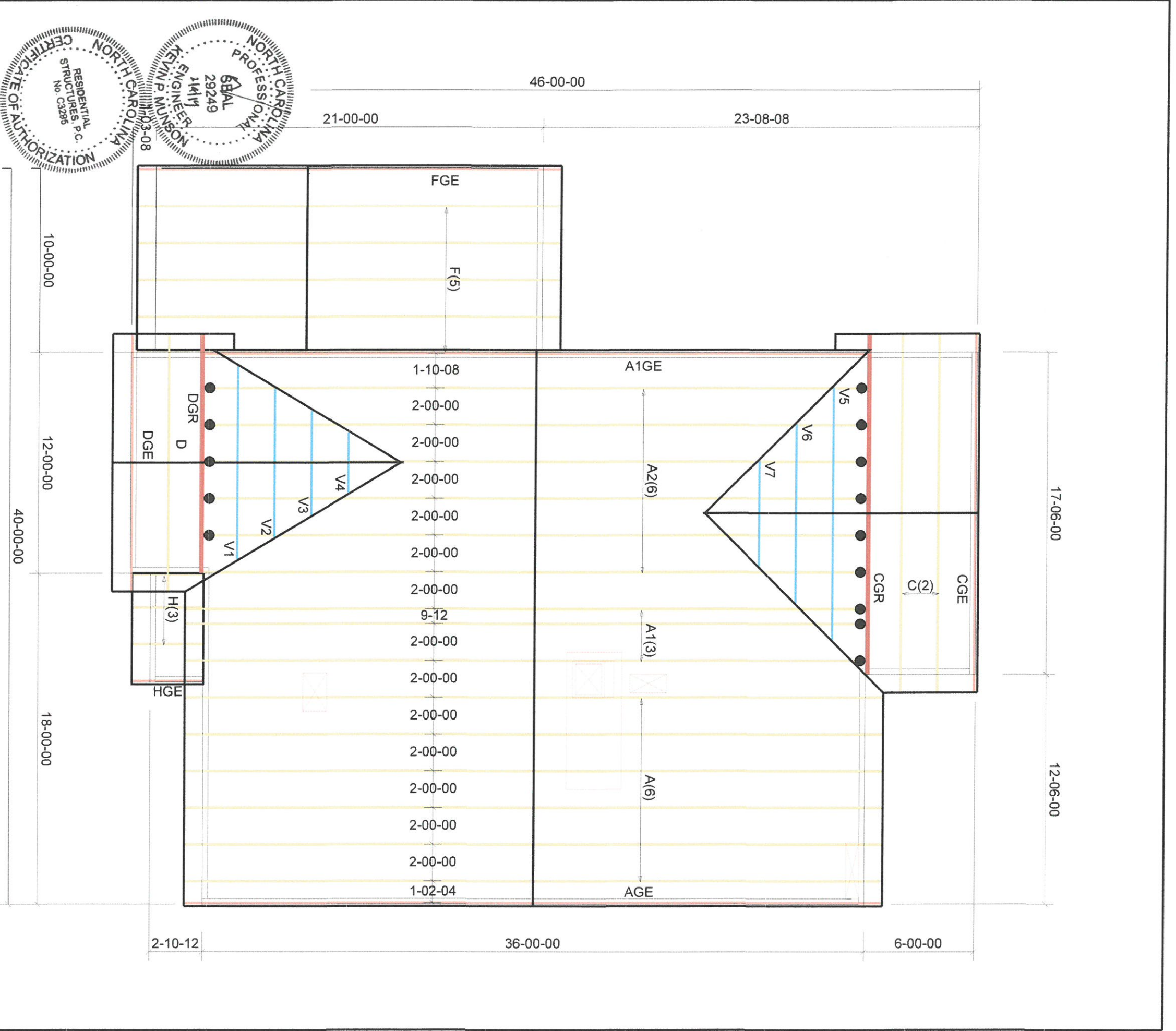
REQUISITOS MÍNIMOS PARA LA CONEXION DE MÚLTIPLES PIEZAS DE LVL

AGUJEROS HORIZONTALES PERMITIDOS EN LVL onCENTER

Dimension	12"	14"	16"	18"	20"	22"	24"
Distancia	12"	14"	16"	18"	20"	22"	24"

onCENTER
BlueTinx Engineered Products

BlueTinx Corporation
4300 Wilkwood Parkway
Atlanta, GA 30329
1-877-914-7779
www.BlueTinx.com



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

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.

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.

ROOF TRUSS LAYOUT

SCALE: 3/16" = 1' 0"

Hangers	
●	14) HUS26
■	#####
▲	#####
⊕	#####
⊗	#####
∠	#####

Client: **True Homes**

THE BUILDING CENTER, INC.

The
 Building
 Center, Inc.

2591 Jenkins Dairy Rd
 PH. (704) 824-8182
 FAX. (704) 824-2232

Job Desc: **HUDSDON - 2016**

Site Information:
Lot 60 - CLK

Salesman: **NA** Date: **2/04/2019**
 Drafter: **TPC** Job #: **19020247**

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

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.
 SHOP DRAWING APPROVAL
 REVIEWED BY: _____ DATE: _____
 APPROVED BY: _____ DATE: _____



Trenco
818 Soundside Rd
Edenton, NC 27932

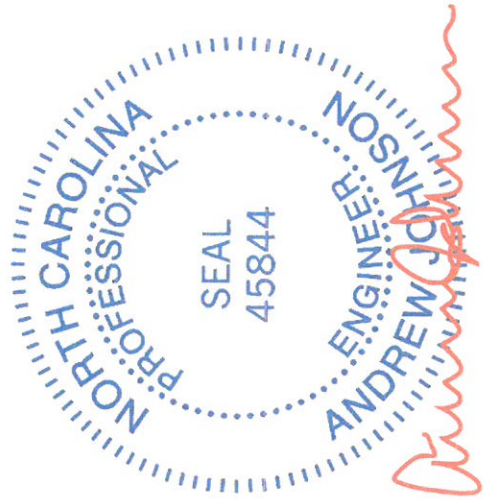
Re: 19020247
Lot-60-CLK/2016-Hudson-01/RF

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: I36038744 thru I36038765

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



Johnson, Andrew

February 4, 2019

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-60-CLK/2016-Hudson-01/RF		I36038744
19020247	A		Common Truss		6	1			
The Building Center Inc., Gastonia, NC 28052		12-9-7		18-0-0	5-2-9	5-2-9	28-1-1-2	36-0-0	37-0-0
7-0-14		7-0-14		5-8-8	5-2-9	5-2-9	5-8-8	7-0-14	1-0-0
7-0-14		7-0-14		5-8-8	5-2-9	5-2-9	5-8-8	7-0-14	1-0-0
7-0-14		7-0-14		5-8-8	5-2-9	5-2-9	5-8-8	7-0-14	1-0-0

Job Reference (optional)
 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:27 2019 Page 1
 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-QQNzfiAPr6EH4Dk0xy1015Qz_755w_fjkrKzoYCK
 23-2-9 28-1-1-2 36-0-0 37-0-0

Scale = 1:62.4

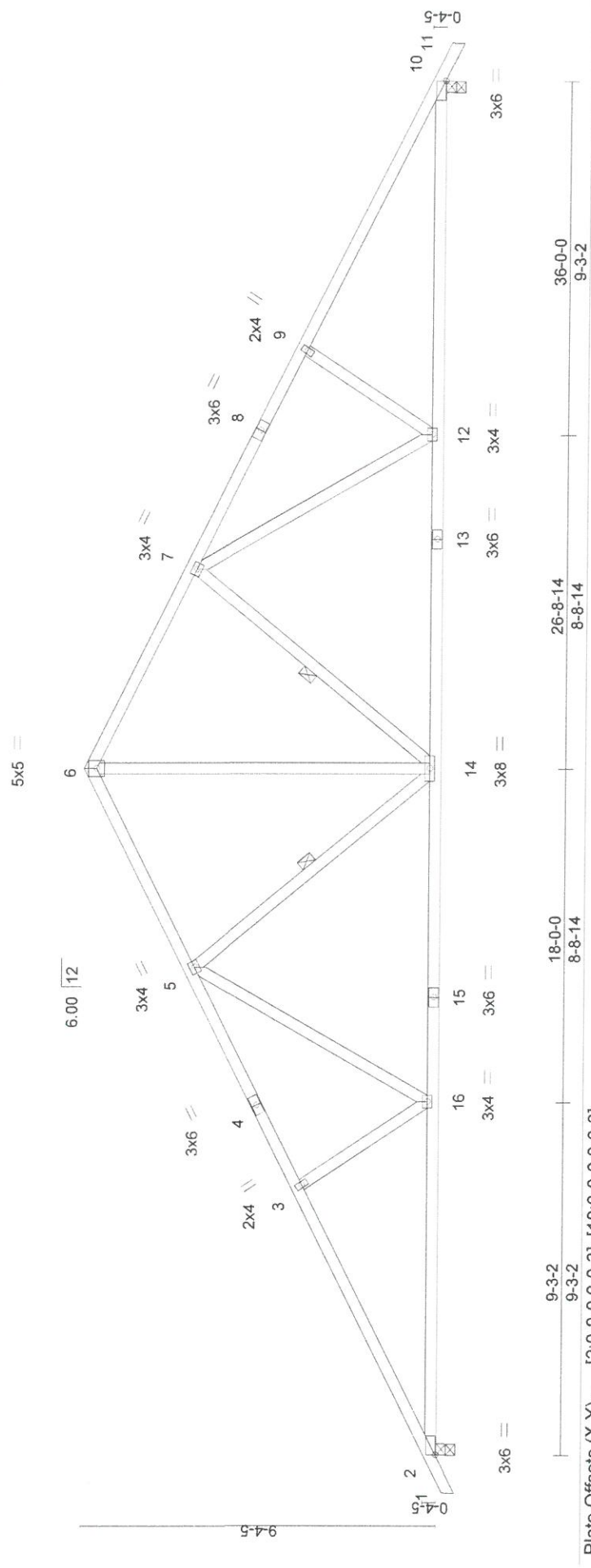


Plate Offsets (X, Y) - [2:0-0-0,0-0-3], [10:0-0-0,0-0-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.14	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(TL) -0.46		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(TL) 0.14		
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

REACTIONS. (lb/size) 2=1500/0-3-8, 10=1500/0-3-8
 Max Horz 2=130(LC 15)
 Max Uplift 2=-151(LC 10), 10=-151(LC 11)

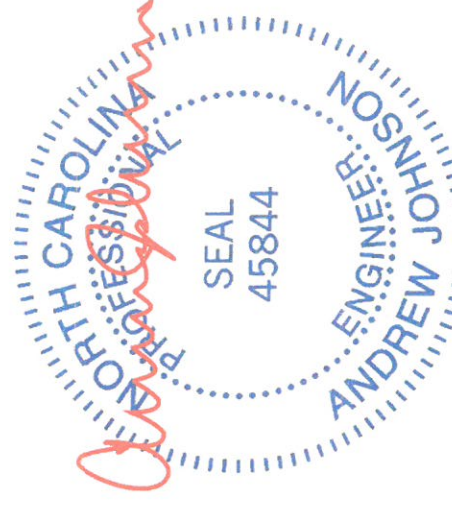
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2569/507, 3-5=-2361/514, 5-6=-1657/427, 6-7=-1657/427, 7-9=-2361/514, 9-10=-2569/507
 BOT CHORD 2-16=-346/2217, 14-16=-210/1797, 12-14=-210/1797, 10-12=-346/2217
 WEBS 6-14=-251/1120, 7-14=-616/217, 7-12=-77/515, 9-12=-330/185, 5-14=-616/217, 5-16=-77/515, 3-16=-330/185

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2 and 151 lb uplift at joint 10.
- 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.

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-14, 5-14

Weight: 187 lb FT = 20%



February 4, 2019

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/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

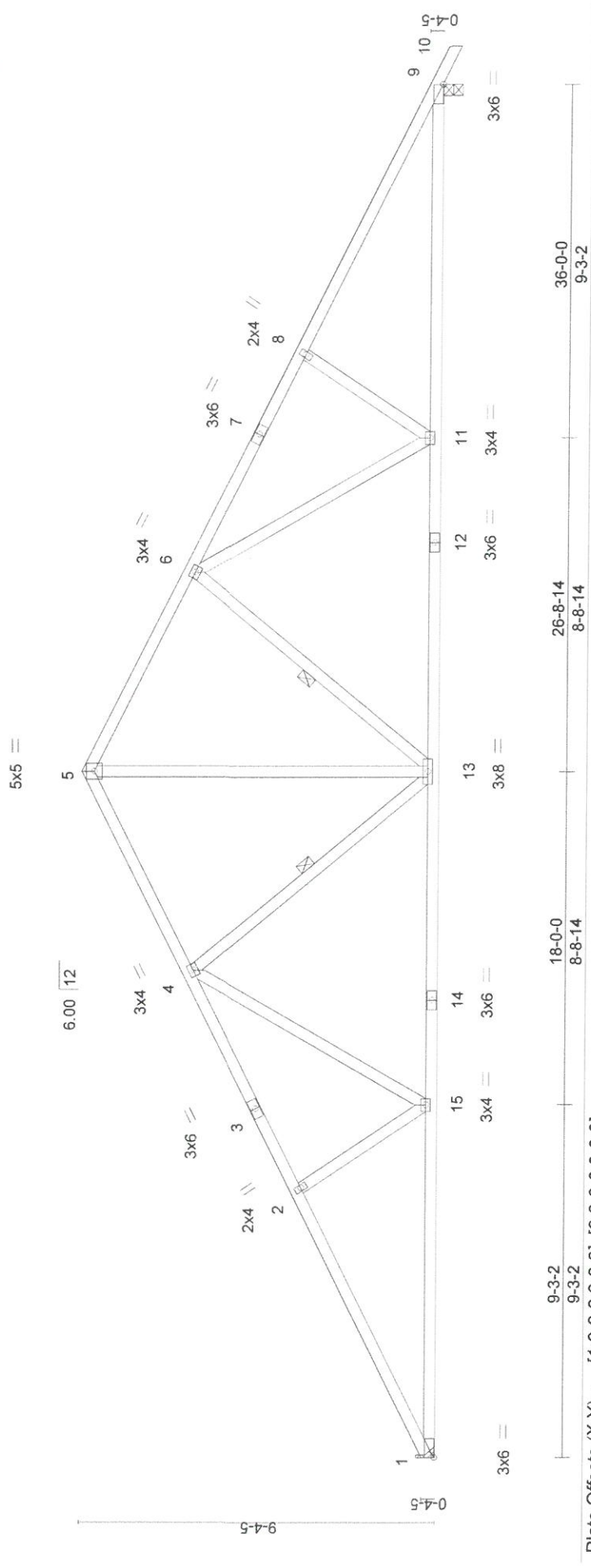
Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	I36038745
19020247	A1	COMMON TRUSS	3	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:28 2019 Page 1
 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-idxMs4B1c3E5vEoxMTSBqEzCqqJAsYK3DJ2INmzoYCj
 7-0-14 7-0-14 12-9-7 5-8-8 18-0-0 5-2-9 23-2-9 5-2-9 28-11-2 5-8-8 36-0-0 7-0-14 37-0-0 1-0-0

Scale = 1:62.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.42	Vert(LL) -0.14 11-13 >999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(TL) -0.46 11-13 >936		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(TL) 0.14 9 n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-AS			

Weight: 185 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.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-13, 4-13

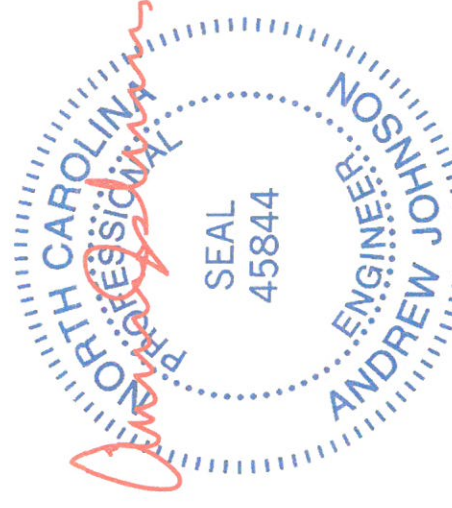
REACTIONS. (lb/size) 1=1440/Mechanical, 9=1500/0-3-8
 Max Horz 1=-136(LC 11)
 Max Uplift 1=-134(LC 10), 9=-151(LC 11)

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

TOP CHORD 1-2=-2573/509, 2-4=-2364/516, 4-5=-1658/428, 5-6=-1658/428, 6-8=-2362/514,
 8-9=-2570/508
BOT CHORD 1-15=-348/2221, 13-15=-210/1798, 11-13=-210/1797, 9-11=-347/2218
WEBS 5-13=-251/1120, 6-13=-616/217, 6-11=-77/515, 8-11=-330/185, 4-13=-617/217,
 4-15=-78/518, 2-15=-332/186

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 1 and 151 lb uplift at joint 9.
- 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.



February 4, 2019

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-60-CLK/2016-Hudson-01/RF	I36038746
19020247	A1GE	GABLE	1	1		

The Building Center Inc., Gastonia, NC 28052

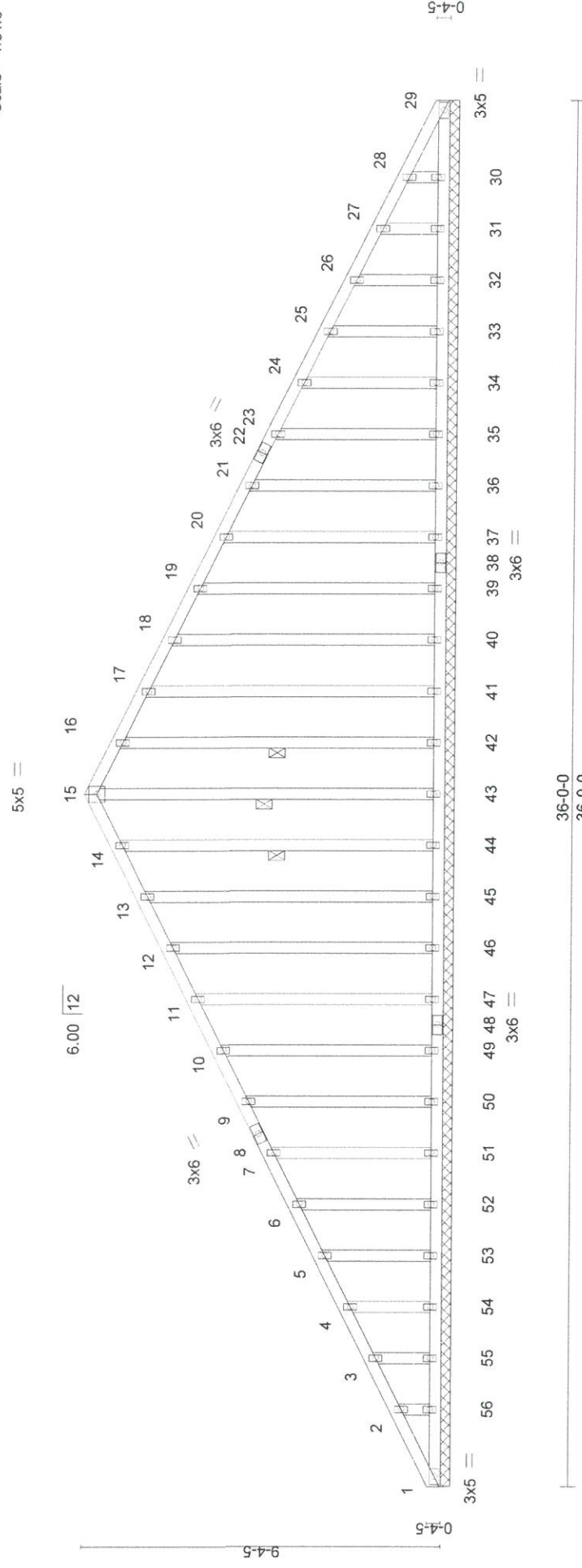
Job Reference (optional)

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8,240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:31 2019 Page 1

36-0-0
18-0-0

Scale = 1:61.6



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)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(TL)	0.01	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

Weight: 287 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.
WEBS 1 Row at midpt 15-43, 14-44, 16-42

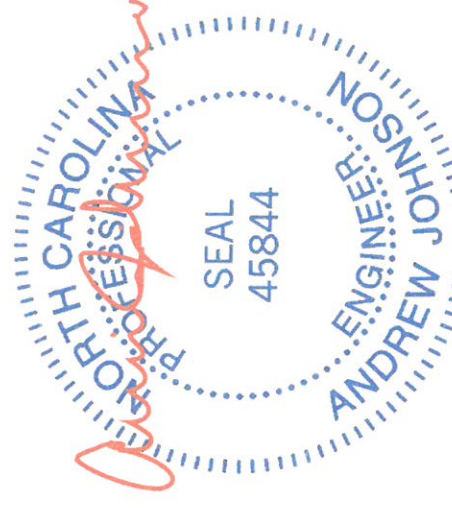
REACTIONS.

(lb) - Max Horiz 1=124(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30
Max Grav All reactions 250 lb or less at joint(s) 1, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 29, 31, 30

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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30.



February 4, 2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	136038747
19020247	A2	COMMON TRUSS	6	1		

The Building Center Inc., Gastonia, NC 28052

ID: P8HCHMU73SEDR6eVBE6m2ePzZmjO-DakFwoFARbsN0?gu902MXIG3ir0LXpZoMbm32zZoYCe
 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:33 2019 Page 1
 Job Reference (optional)

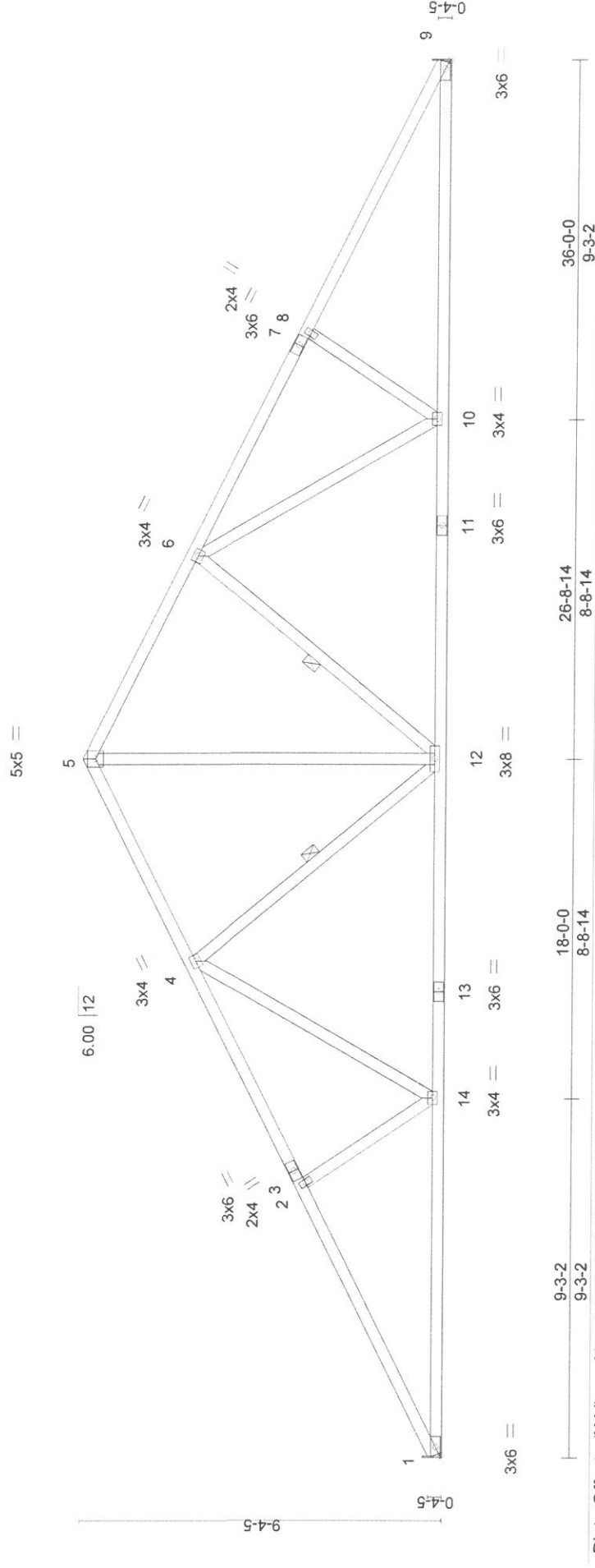
36-0-0
7-0-14

18-0-0
5-2-9

12-9-7
5-8-8

7-0-14
7-0-14

Scale = 1:61.8



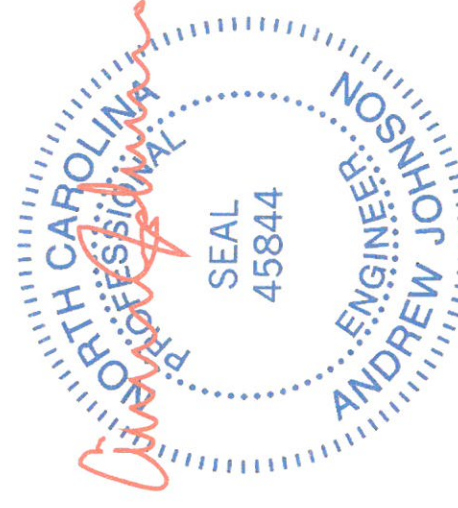
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.41	Vert(LL) -0.14	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(TL) -0.46	10-12	>939		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(TL) 0.14	9	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-AS					

LUMBER-	REACTIONS.	FORCES.
TOP CHORD 2x4 SP No.2	(lb/size) 1=1440/Mechanical, 9=1440/Mechanical	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2x4 SP No.2	Max Horiz 1=-123(LC 15)	TOP CHORD 1-2=-2573/510, 2-4=-2365/516, 4-5=-1658/428, 5-6=-1658/428, 6-8=-2365/516,
WEBS 2x4 SP No.3	Max Uplift 1=-134(LC 10), 9=-134(LC 11)	8-9=-2573/510
		BOT CHORD 1-14=-377/2222, 12-14=-239/1799, 10-12=-239/1799, 9-10=-377/2222
		WEBS 6-12=-617/217, 6-10=-78/518, 5-12=-252/1121, 8-10=-332/186, 4-12=-617/217,
		4-14=-78/518, 2-14=-332/186

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

Weight: 183 lb FT = 20%

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) VIRC2012=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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * 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.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=134, 9=134.
 - 7) 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.



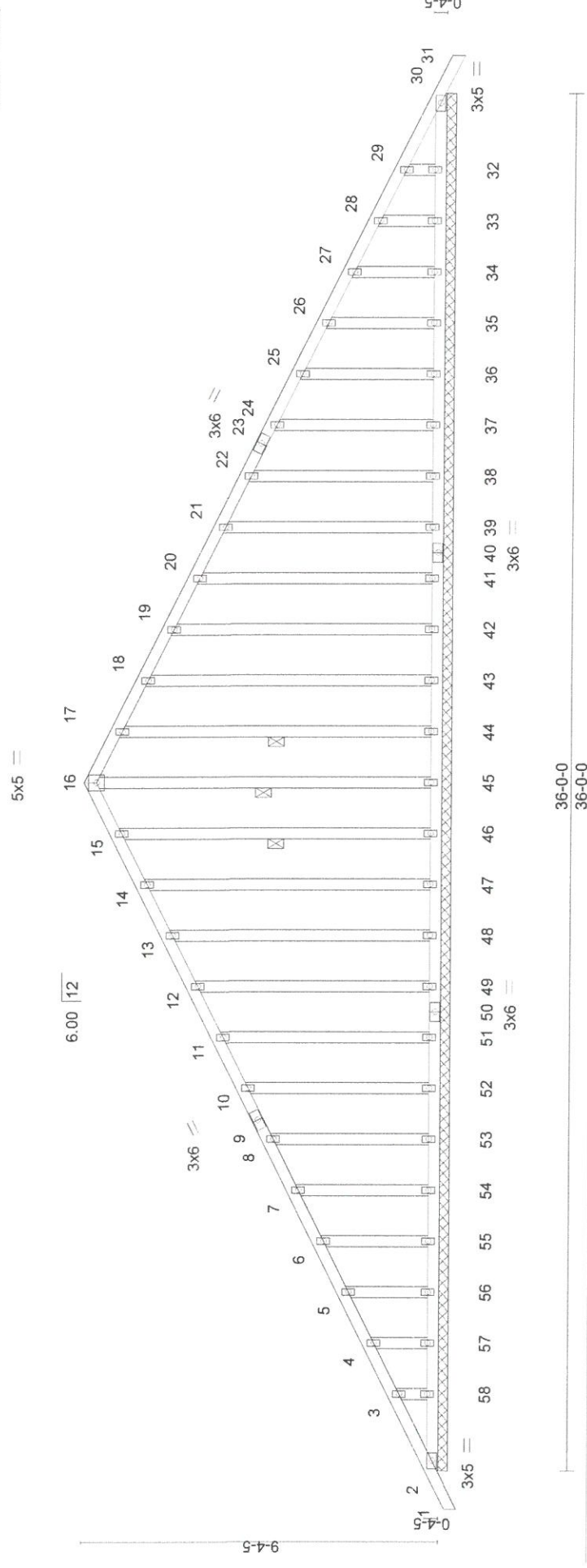
February 4, 2019

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

Job 19020247	Truss AGE	Truss Type GABLE	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038748
The Building Center Inc., Gastonia, NC 28052		Job Reference (optional)				
-1-0-0 1-0-0		8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:35 2019 Page 1		ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-9zs?LUGQzC65FlqHGR4qclUTeiv7or5qvF97szoYcc		
18-0-0 18-0-0		36-0-0 18-0-0		37-0-0 1-0-0		

Scale = 1:62.0



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	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(TL)	-0.00	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(TL)	0.01	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

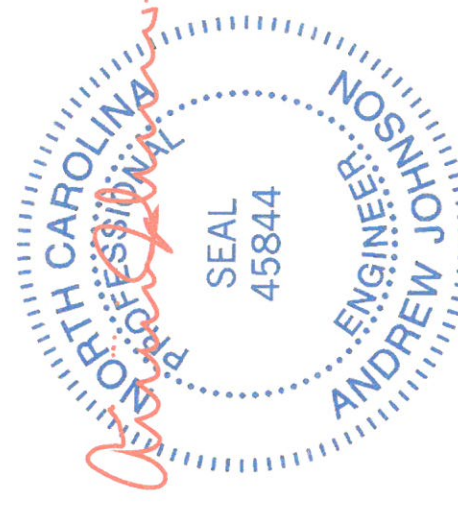
Weight: 290 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 16-45, 15-46, 17-44

REACTIONS. (lb) - Max. Horiz 2=130(LC 14)
 (lb) - Max Uplift 100 lb or less at joint(s) 2, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 30, 33, 32
 Max Grav All reactions 250 lb or less at joint(s) 2, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 30, 33, 32

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 ANSITPI 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, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 30, 33, 32.



February 4, 2019

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

Job 19020247	Truss C	Truss Type Common	Qty 2	PIY 1	Lot-60-CLK/2016-Hudson-01/RF	I36038749
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The Building Center Inc., Gastonia, NC 28052
 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-6L_l9lgVqNpUc_fos6i8RpGSQWThzOHDKGBizoYCa
 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:37 2019 Page 1
 Job Reference (optional)
 12-10-6 4-1-6 8-9-0 4-7-10 17-6-0 4-7-10 18-6-0 1-0-0

Scale: 3/8"=1'

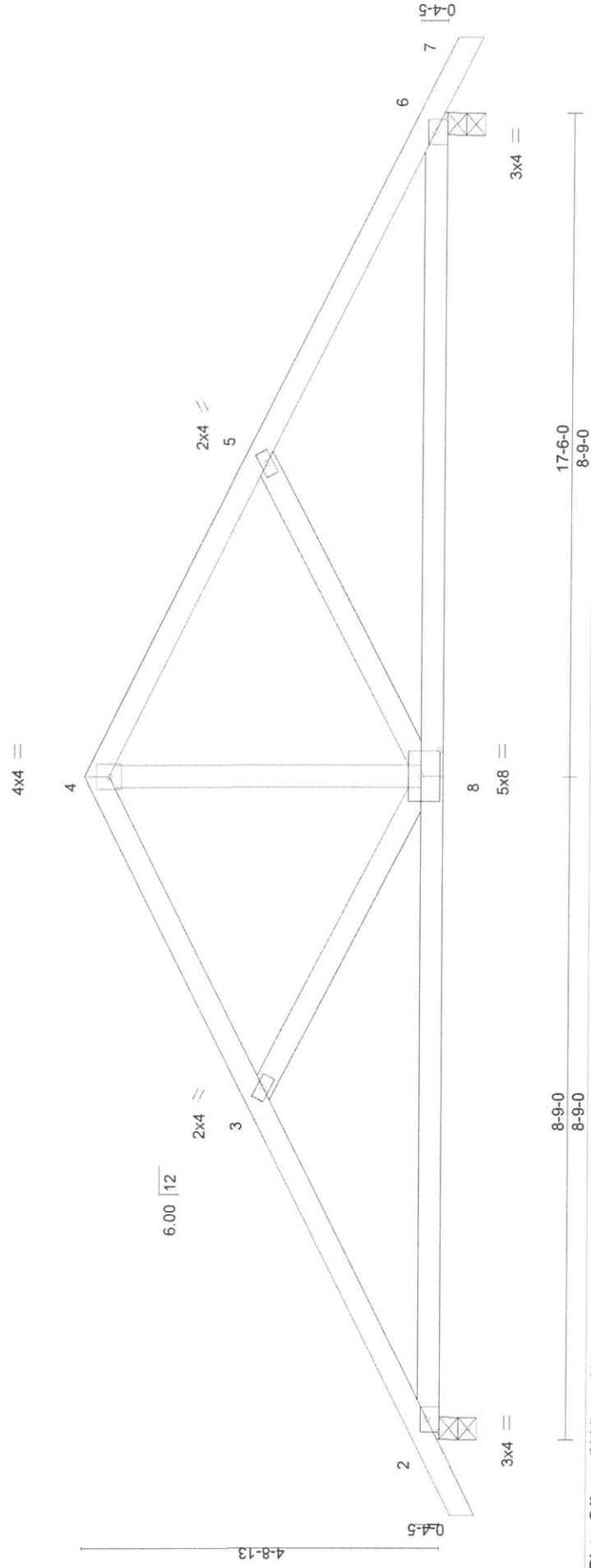


Plate Offsets (X, Y) - [2:0-2-0,Edge], [6:0-2-0,Edge], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.18	Vert(LL) -0.08	8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(TL) -0.20	8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(TL) 0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-AS						

Weight: 79 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.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

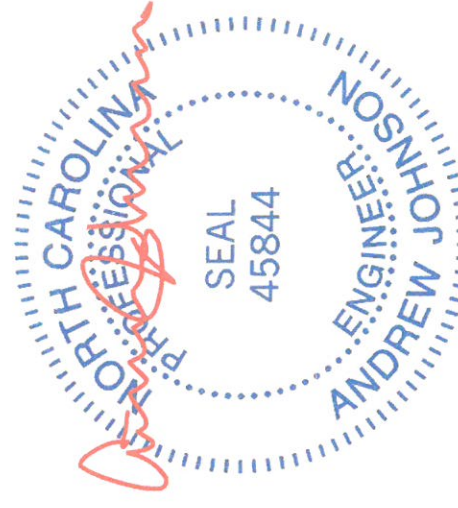
(lb/size) 2=760/0-3-8, 6=760/0-3-8
 Max Horz 2=-67(LC 11)
 Max Uplift 2=-82(LC 10), 6=-82(LC 11)

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

TOP CHORD 2-3=-1098/256, 3-4=-829/189, 4-5=-829/189, 5-6=-1098/256
 BOT CHORD 2-8=-148/938, 6-8=-148/938
 WEBS 4-8=-54/451, 5-8=-298/149, 3-8=-298/149

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IR2012)=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.



February 4, 2019

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	I36038750
19020247	CGE	GABLE	1	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

ID:P8HCMUJ73SEDR6eVBE6m2ePzZmjO-aY8zVJIG7Vg6mZsyZdXELz7osviCAZXWTKqBzoYCZ

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:38 2019 Page 1

-1-0-0
1-0-0

8-9-0
8-9-0

17-6-0
8-9-0

18-6-0
1-0-0

Scale: 3/8"=1'

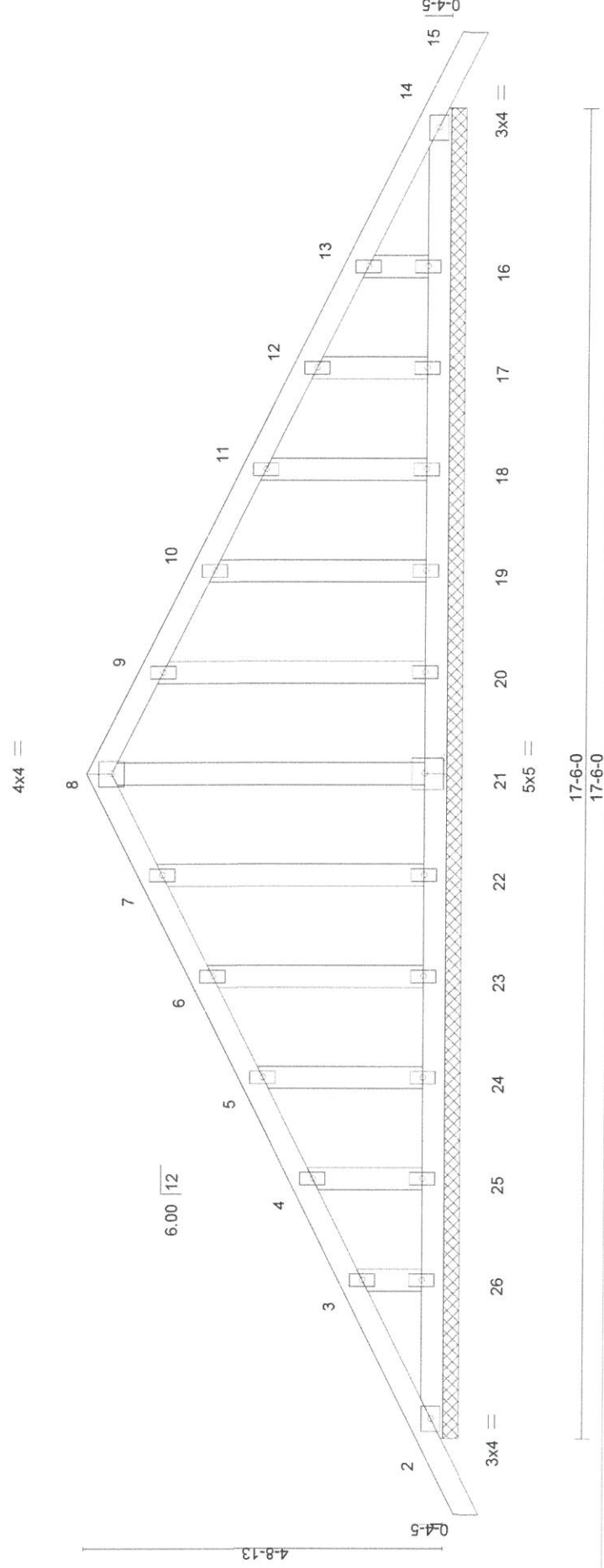


Plate Offsets (X,Y) = [21:0-2-8,0-3-0]

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	15	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						Weight: 98 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.

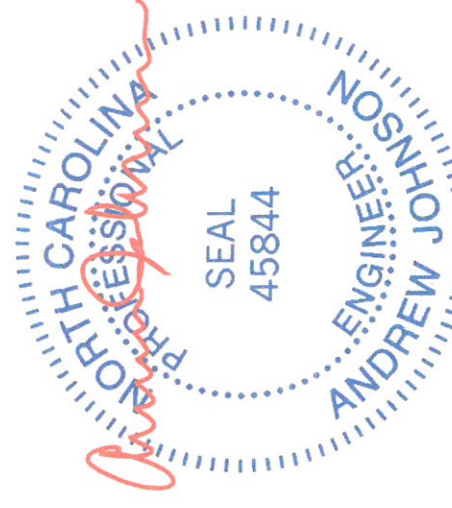
REACTIONS.

All bearings 17-6-0.
(lb) - Max Horz 2=-67(LC 11)
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-

- 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, 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
- 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 ANSITPI 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, 16.



February 4, 2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	I36038751
19020247	CGR	Common Girder	1	2		

The Building Center Inc., Gastonia, NC 28052
 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:40 2019 Page 1
 ID:P8HCMUJ73SEDR6eVBE6m2ePzZmjO-VwguOBKZnlOL4IE3_g?Jm38WFRsgtwqzAywo3zoYCX



Scale = 1:31.1

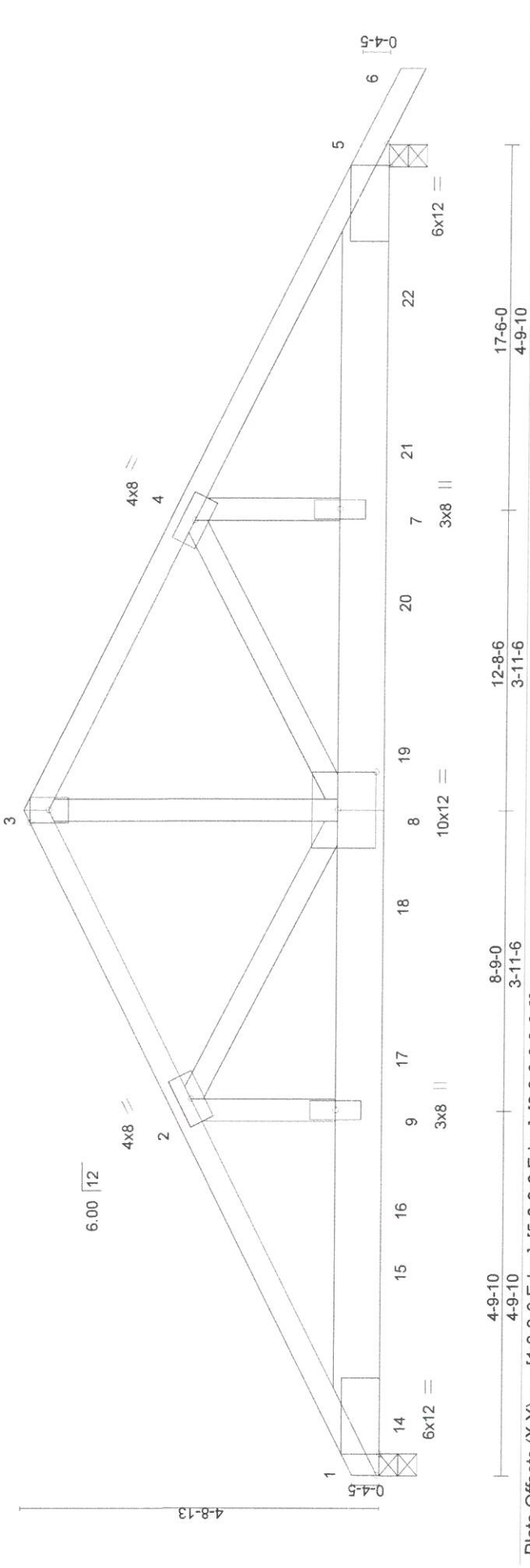


Plate Offsets (X,Y) - [1:0-3-6,Edge], [5:0-3-6,Edge], [8:0-6-0,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.95	Vert(LL) -0.13	8-9	>999	MT20	137/130
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(TL) -0.33	8-9	>622		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.87	Horz(TL) 0.08	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MSH					

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 1-1/2X7-1/4 LP-LSL TC 1.75E
 WEBS 2x4 SP No.3 *Except*
 3-8: 2x4 SP No.2

REACTIONS. (lb/size) 1=7764/0-3-8, 5=6463/0-3-8
 Max Horz 1=-74(LC 13)
 Max Uplift 1=-776(LC 8), 5=-659(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-12355/1237, 2-3=-8285/843, 3-4=-8284/845, 4-5=-11599/1156
 BOT CHORD 1-9=-1109/11029, 8-9=-1109/11029, 7-8=-969/10345, 5-7=-969/10345
 WEBS 3-8=-686/7100, 4-8=-3441/411, 4-7=-261/2990, 2-8=-4233/494, 2-9=-336/3706

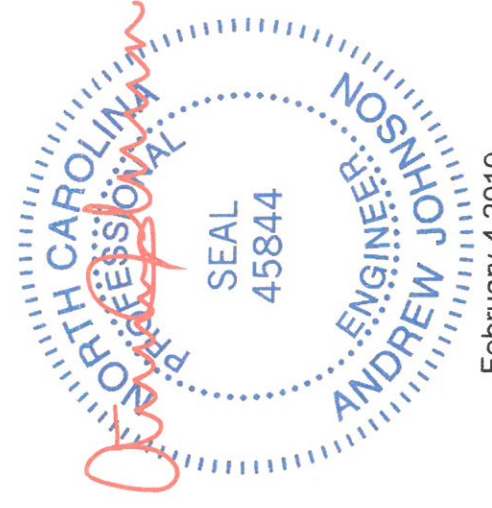
NOTES-

- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc.
 Bottom chords connected as follows: 1-1/2X7-1/4 - 2 rows staggered at 0-4-0 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; 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; 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 (jt=lb) 1=776, 5=659.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1422 lb down and 151 lb up at 0-9-0, 1420 lb down and 154 lb up at 2-9-0, 1420 lb down and 154 lb up at 3-6-12, 1420 lb down and 153 lb up at 5-6-12, 1420 lb down and 153 lb up at 7-6-12, 1420 lb down and 153 lb up at 9-6-12, 1420 lb down and 153 lb up at 11-6-12, and 1420 lb down and 153 lb up at 13-6-12, and 1420 lb down and 153 lb up at 15-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 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

Continued on page 2



February 4, 2019

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

Job 19020247	Truss CGR	Truss Type Common Girder	Qty 1	Ply 2	Lot-60-CLK/2016-Hudson-01/RF	I36038751
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

ID:P8HCMU73SEDR6eVBE6m2ePZmjO-VwguOBKZnIOL4IE3_g?Jm38WFRsgtwqzAywo3zoYCX
8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:40 2019 Page 2

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 14=-1422(B) 15=-1420(B) 16=-1420(B) 17=-1420(B) 18=-1420(B) 19=-1420(B) 20=-1420(B) 21=-1420(B) 22=-1420(B)

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818 Soundside Road
Edenton, NC 27932

Job 19020247	Truss D	Truss Type Common Truss	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038752
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:41 2019 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-_7DgbXLBV2fZDHRdIBEs_bSv3soPWE_CqjUKWzoYCW

12-0-0
6-0-0
13-0-0
1-0-0

Scale = 1:36.3

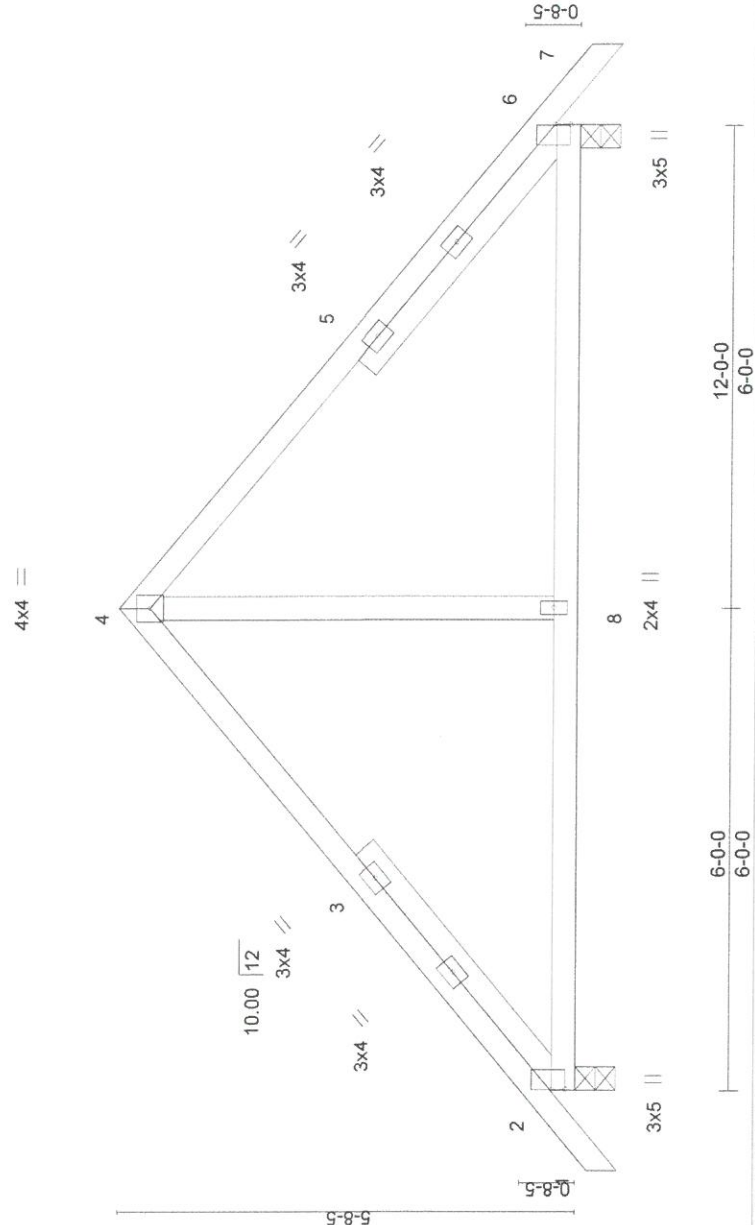


Plate Offsets (X,Y)=[2:0-2,0,0-0-1], [6:0-2,4,0,0-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.33	Vert(LL) 0.04	8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.07	8-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(TL) 0.02	2	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
 SLIDER Left 2x4 SP No.3 3-9-14, Right 2x4 SP No.3 3-9-14

BRACING-

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

Weight: 64 lb FT = 20%

REACTIONS. (lb/size) 2=540/0-3-8, 6=540/0-3-8
 Max Horiz 2=118(LC 9)
 Max Uplift 2=-51(LC 10), 6=-51(LC 11)

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

TOP CHORD 2-4=-402/100, 4-6=-402/100
 BOT CHORD 2-8=0/320, 6-8=0/320
 WEBS 4-8=0/261

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.
- 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.



February 4, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 19020247	Truss DGE	Truss Type GABLE	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038753
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

ID: P8HCMU73SEDR6eVBE6m2ePzZmjO-SJneptMpJM?6bNsdBPITPB8g6TG18_77RUR1yzoYCV
8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:42 2019 Page 1



Scale = 1:36.3

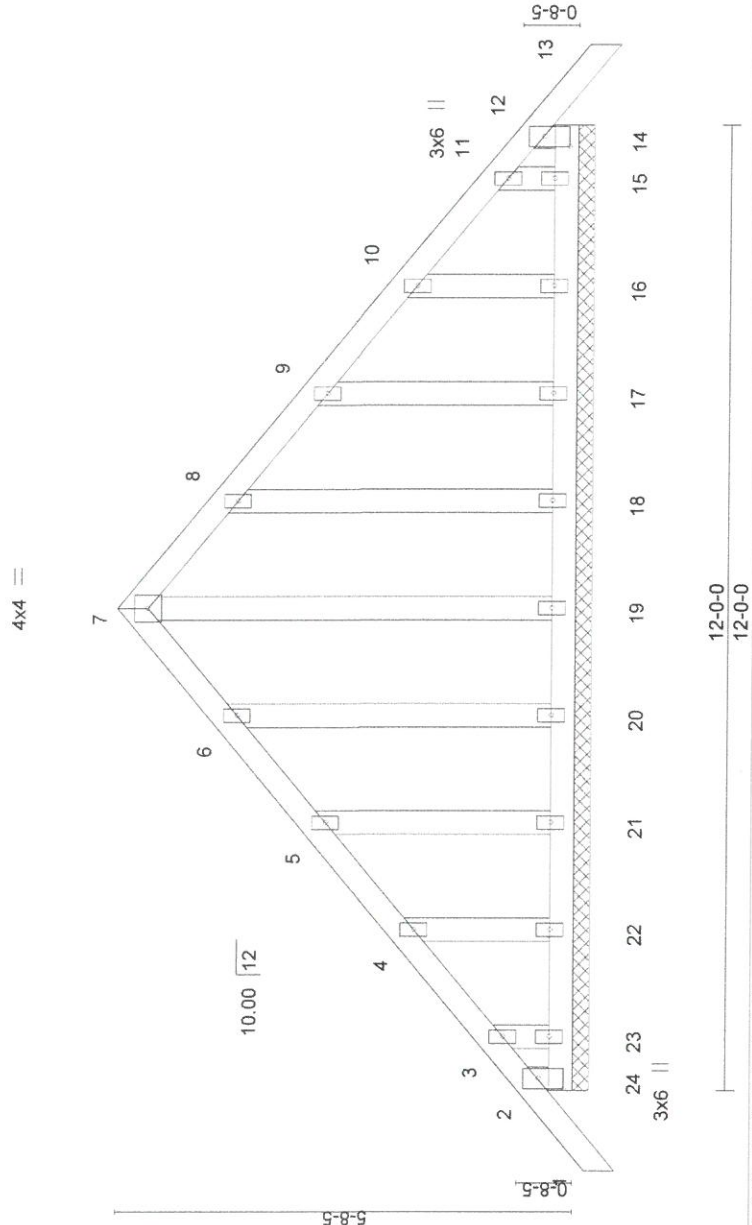


Plate Offsets (X, Y) -- [12:0-3-12,0-1-8], [24:0-3-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00	13	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL) -0.01	13	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(TL) 0.00	14	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-R						

Weight: 82 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 6-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

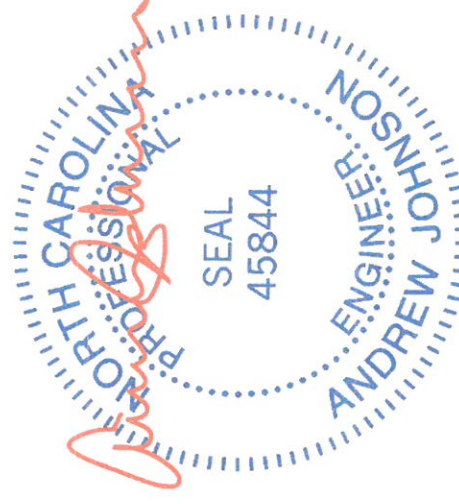
REACTIONS.

- (lb) - All bearings 12-0-0.
- (lb) - Max Horz 24=118(LC 9)
- Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15
- Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15.



February 4, 2019

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-09 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	19020247	Truss	DGR	Gastonia, NC 28052	Truss Type	Common Girder	Qty	1	Ply	2	Lot-60-CLK/2016-Hudson-01/RF	I36038754
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The Building Center Inc., Gastonia, NC 28052
 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:43 2019 Page 1
 ID:P8HCMU73SEDR6eVBE6m2ePzmjO-wvL00DMR4g7zCXRpk6DixPhp3tUPtILGg8B6PozoYCU
 Job Reference (optional)

Scale = 1:36.3

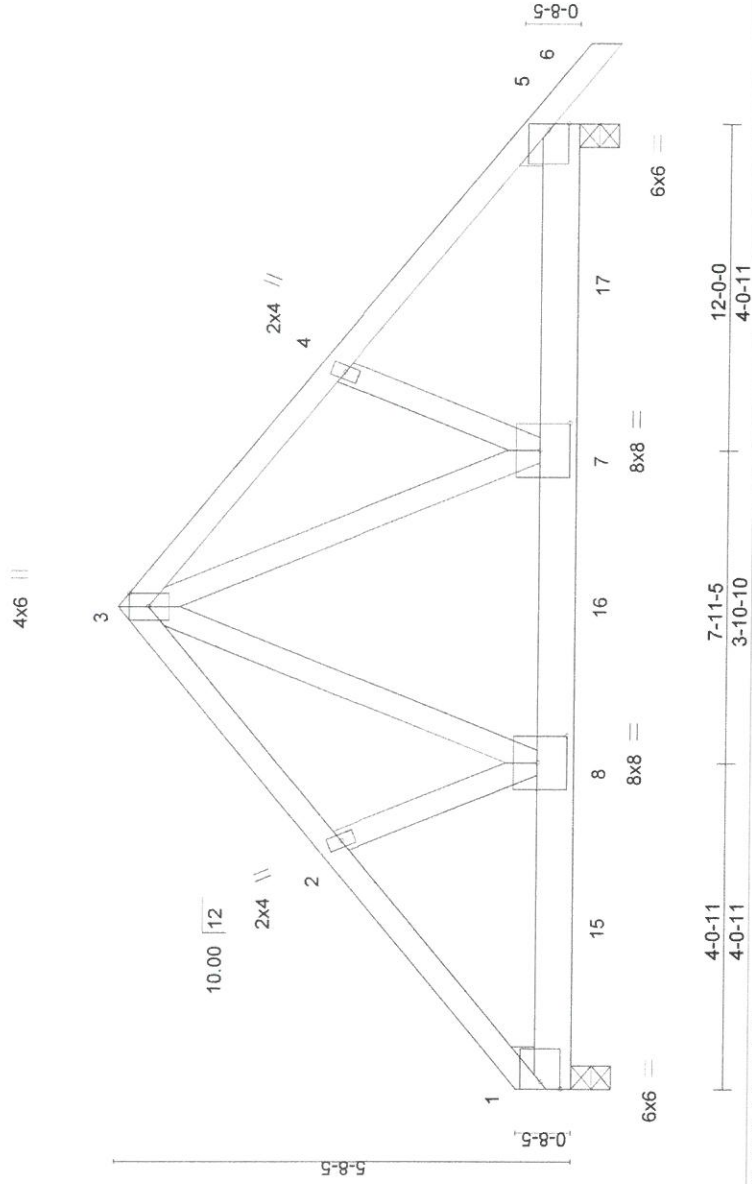


Plate Offsets (X,Y) - [7-0-4-0,0-4-8], [8-0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.23	Vert(LL) -0.05	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(TL) -0.11	7-8	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.64	Horz(TL) 0.02	5	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
 WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS.

(lb/size) 1=4005/0-3-8, 5=4115/0-3-8
 Max Horz 1=-112(LC 4)
 Max Uplift 1=-389(LC 8), 5=-412(LC 9)

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

TOP CHORD 1-2=-4819/486, 2-3=-4717/535, 3-4=-4710/531, 4-5=-4814/487
 BOT CHORD 1-8=-377/3629, 7-8=-216/2550, 5-7=-329/3624
 WEBS 3-7=-361/3062, 3-8=-365/3074

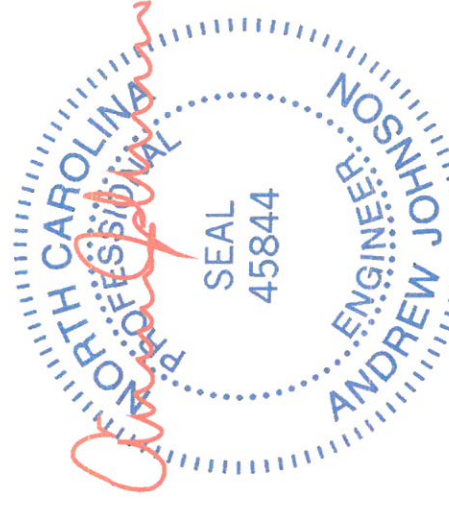
NOTES-

- 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 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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; 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
- 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) except (if=lb) 1=-389, 5=412.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1420 lb down and 153 lb up at 2-0-12, 1420 lb down and 153 lb up at 4-0-12, 1420 lb down and 153 lb up at 6-0-12, and 1420 lb down and 153 lb up at 8-0-12, and 1420 lb down and 153 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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, 9-12=-20

Continued on page 2



February 4, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 19020247	Truss DGR	Truss Type Common Girder	Qty 1	Ply 2	Lot-60-CLK/2016-Hudson-01/RF	I36038754
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-wVL00DMR4g7zCXRPk6DixPfp3IUPiLG8BbPOzoYCU
8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:43 2019 Page 2

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 7=-1420(F) 8=-1420(F) 15=-1420(F) 16=-1420(F) 17=-1420(F)



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ENGINEERING BY
TRENCO
A MiTek Alliance
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	136038755
19020247	F	Roof Special	5	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8,240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:44 2019 Page 1

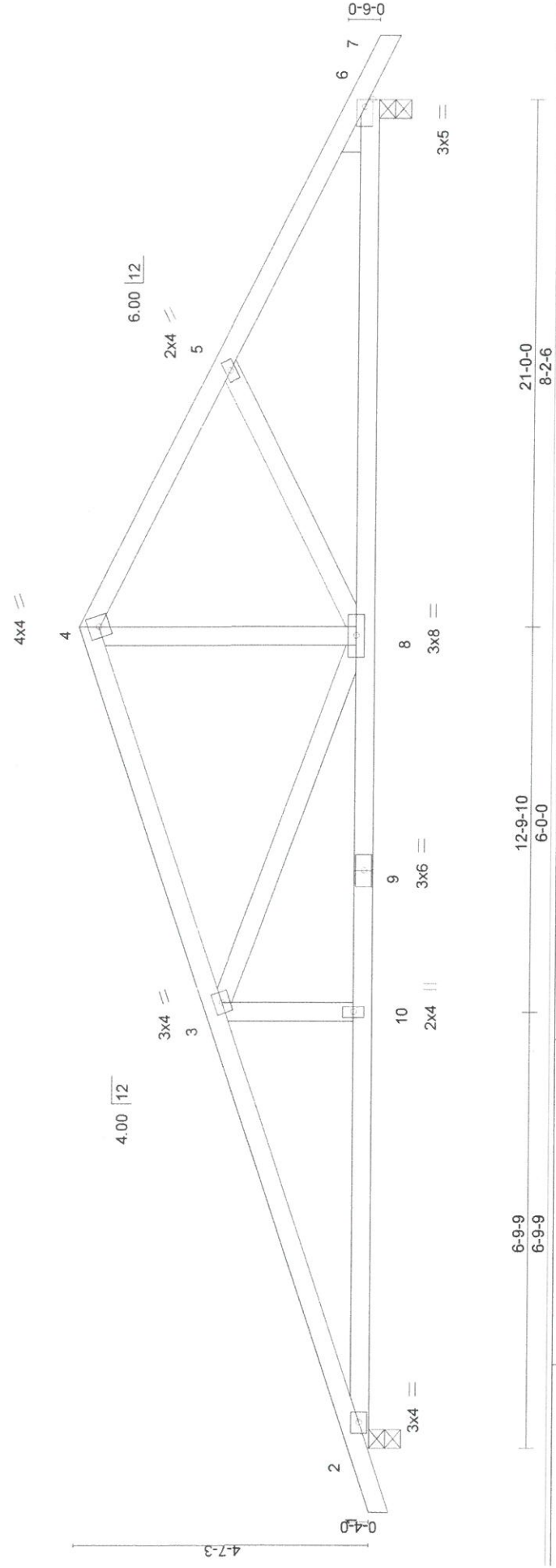
ID: P8HCHMU73SEDR6eVBE6m2ePzZmjO-PivPDZN3rzFpqh0?lqkxUcDyGpDcmsQuow8xrzoYCT

16-9-6
3-11-13
4-2-10
21-0-0
22-0-0
1-0-0

6-9-9
6-9-9

1-0-0
1-0-0

Scale = 1:36.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.35	Vert(LL)	-0.10	8-16	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(TL)	-0.27	8-16		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(TL)	0.06	6		
BCDL 10.0	Code IRC2012/TP12007	Matrix-AS			n/a		FT = 20%

LUMBER-

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

Right: 2x4 SP No.3

BRACING-

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

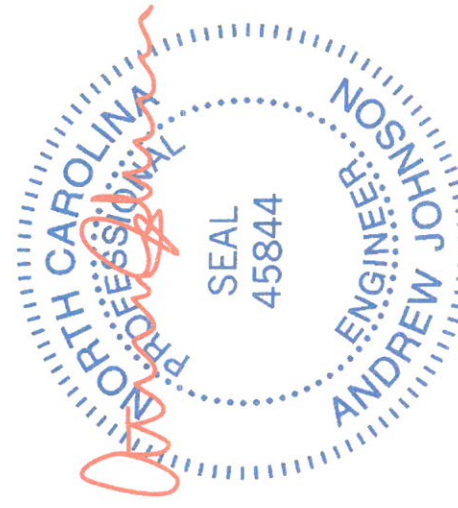
REACTIONS. (lb/size) 2=915/0-3-8, 6=885/0-3-8
Max Horz 2=-64(LC 15)
Max Uplift 2=-131(LC 6), 6=-80(LC 11)

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

TOP CHORD 2-3=-181/346, 3-4=-111/237, 4-5=-1145/241, 5-6=-1388/293
BOT CHORD 2-10=-254/1666, 8-10=-254/1666, 6-8=-182/1191
WEBS 3-8=-732/190, 4-8=-49/535, 5-8=-276/123

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vu||=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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=131.
- 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.



February 4, 2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	I36038756
19020247	FGE	Roof Special Supported Gable	1	1		

The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:46 2019 Page 1

ID: P8HCMU73SEDR6eVBE6m2ePzZmjO-L419eEPKNbVX3?AOQFnPZ1JME4p4oUjM6PF0jzoYCR

12-9-10
12-9-10

21-0-0
8-2-6
1-0-0
1-0-0

Scale = 1:37.0

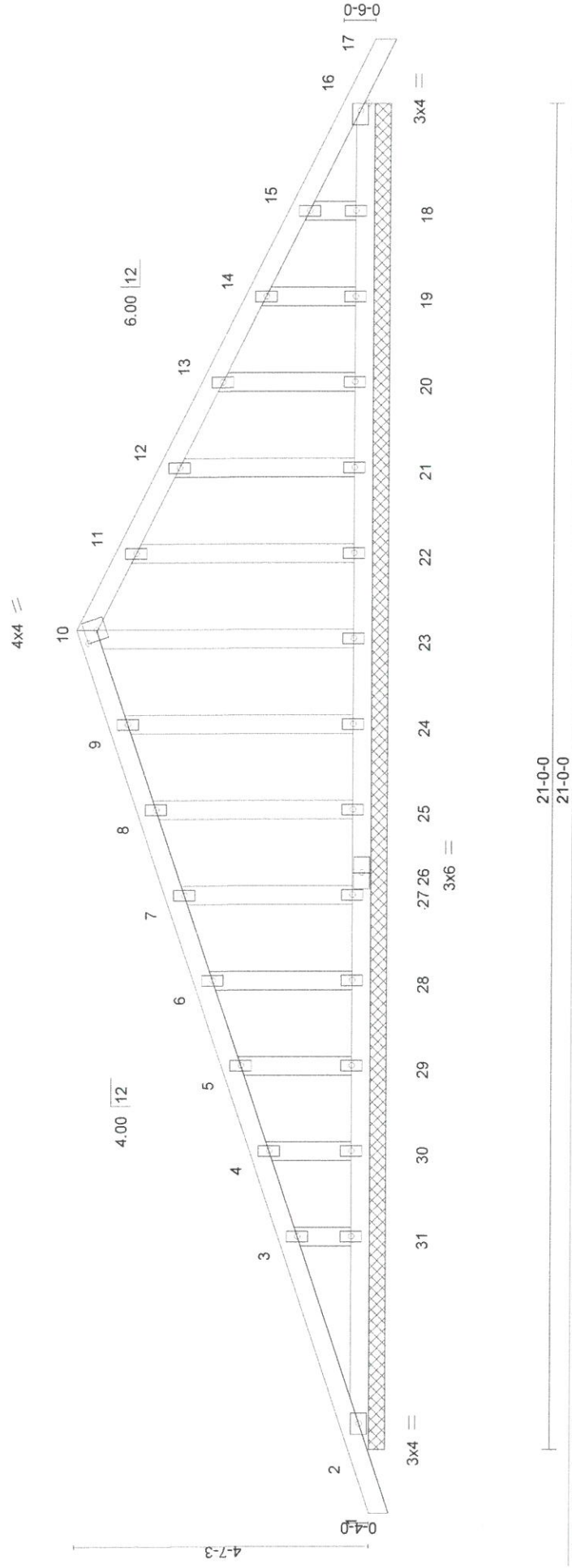


Plate Offsets (X, Y) - [10:0-1-15,0-2-4]

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) -0.00	17	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(TL) -0.00	17	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00	16	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

Weight: 113 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.

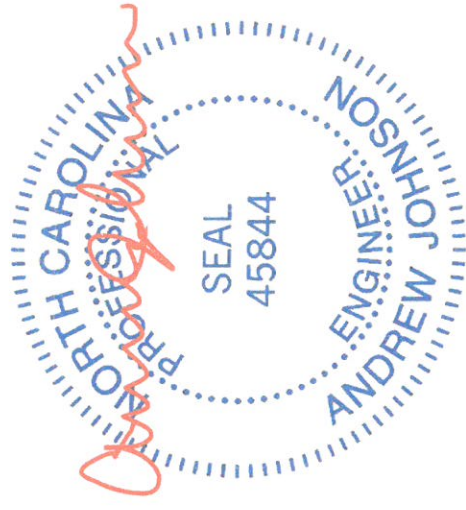
REACTIONS.

All bearings 21-0-0.
(lb) - Max Horz 2=63(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 25, 27, 28, 29, 30, 31, 22, 21, 20, 19, 18, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 23, 24, 25, 27, 28, 29, 30, 22, 21, 20, 19, 18, 16
except 31=255(LC 21)

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, 24, 25, 27, 28, 29, 30, 31, 22, 21, 20, 19, 18, 16.



February 4, 2019

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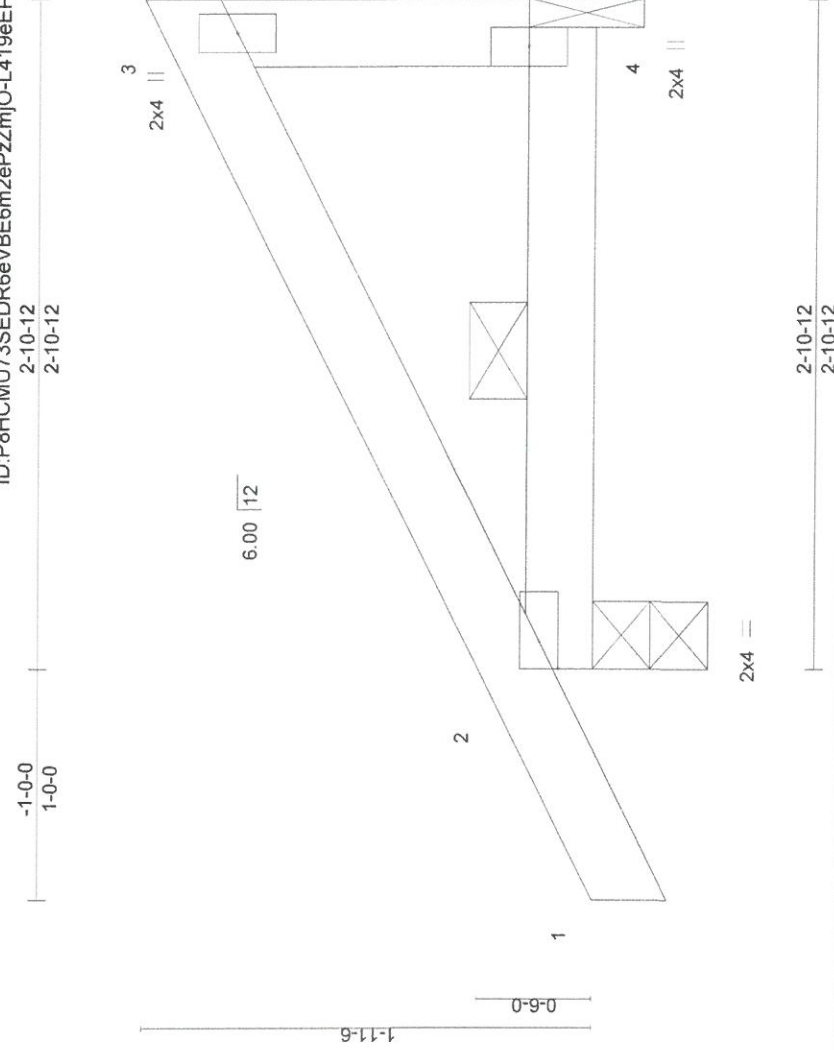
818 Soundside Road
Edenton, NC 27932

Job 19020247	Truss H	Truss Type MONOPITCH	Qty 3	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038757
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:46 2019 Page 1
 ID:P8HCMU73SEDR6eVBE6m2ePzmjO-L419eEPKNbYX3?AOQFnPZ1JMQ4d4o1jM6PF0joYCR



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.09	Vert(LL) -0.00	4-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(TL) -0.01	4-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	2	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MP					Weight: 13 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 or 2-10-12 oc purlins, except end verticals.
 BOT CHORD 2-0-0 oc bracing.

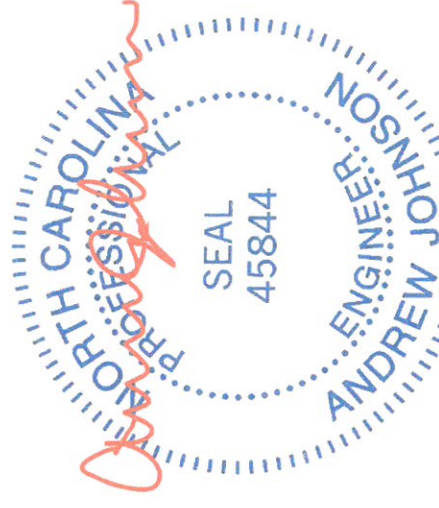
REACTIONS.

(lb/size) 2=181/0-3-8, 4=99/0-1-8
 Max Horz 2=57(LC 10)
 Max Uplift 2=-23(LC 10), 4=-26(LC 10)

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; 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 ANSI/TPI 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.



February 4, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 19020247	Truss HGE	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038758
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The Building Center Inc., Gastonia, NC 28052

8,240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:47 2019 Page 1
 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-pGbXsaQy8udOh8lazyle6FrXyU_xpFusam9oYAz0YCCQ

Job Reference (optional)



Scale = 1/12.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.07	Vert(LL) 0.00	1	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(TL) -0.00	1	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(TL) 0.00	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-P					

Weight: 14 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 2-10-12 oc purlins, except end verticals.
- BOT CHORD 2-0-0 oc bracing.

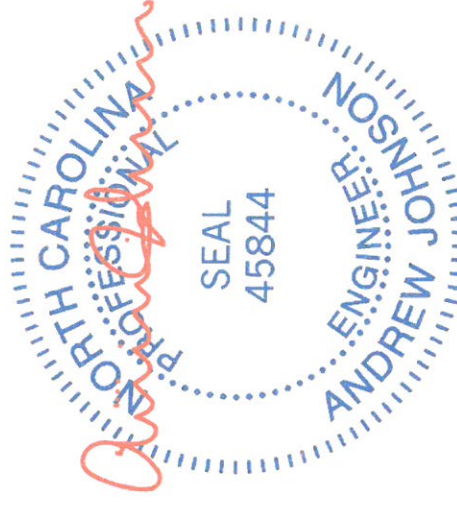
REACTIONS. (lb/size) 5=38/2-10-12, 2=135/2-10-12, 6=107/2-10-12
 Max Horz 2=58(LC 10)
 Max Uplift 5=-10(LC 10), 2=-10(LC 10), 6=-30(LC 10)

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; 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) 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 14-0 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) 5, 2, 6.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



February 4, 2019

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818 Soundside Road
 Edenonton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	136038759
19020247	V1	Valley Truss	1	1		

The Building Center Inc., Gastonia, NC 28052

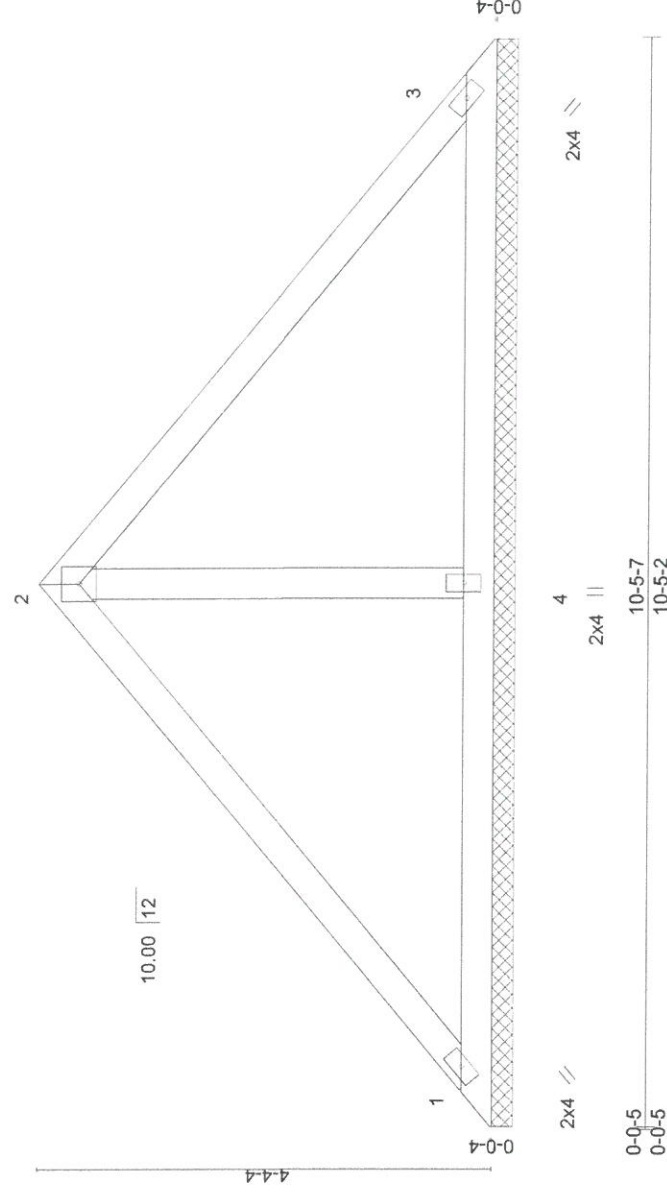
Job Reference (optional)

8,240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:48 2019 Page 1
 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-HT8v3wQavCFJUnXgpteSOe5uGqYhL0pQuL4czoYCP

5-2-11
5-2-11

4x4

Scale = 1:27.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.33	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(TL)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2012/ITPI2007	Matrix-S						Weight: 40 lb FT = 20%

LUMBER-

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

BRACING-

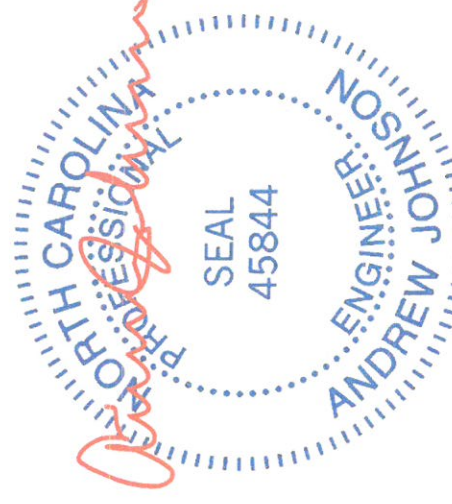
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=204/10-4-13, 3=204/10-4-13, 4=363/10-4-13
 Max Horz 1=-81(LC 6)
 Max Uplift 1=-26(LC 11), 3=-36(LC 11), 4=-4(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) 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, 4.



February 4, 2019

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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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 19020247	Truss V2	Truss Type Valley Truss	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038760
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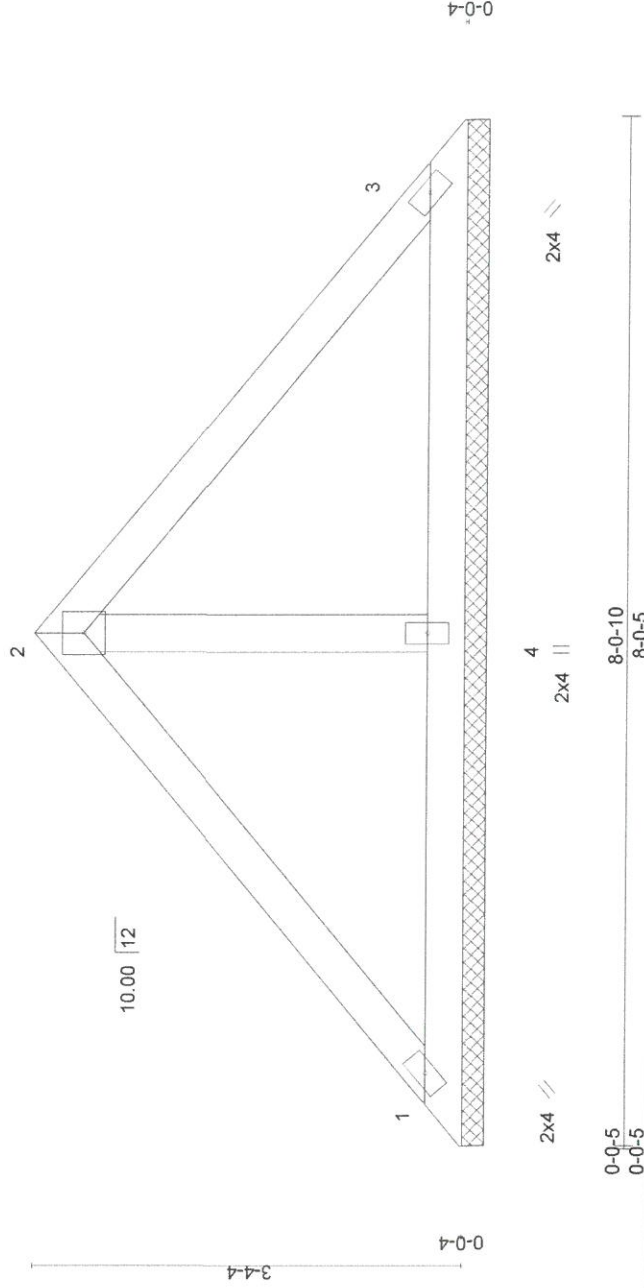
The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-IfIHGRcGW6wSuz5NK6Bgr7HdeH99924evc2zoYCO
8,240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:49 2019 Page 1



Scale = 1:22.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.25	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-P						

Weight: 30 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=166/8-0-0, 3=166/8-0-0, 4=247/8-0-0
Max Horz 1=61(LC 6)
Max Uplift 1=28(LC 11), 3=-35(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; 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.



February 4, 2019

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

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	I36038761
19020247	V3	GABLE	1	1		

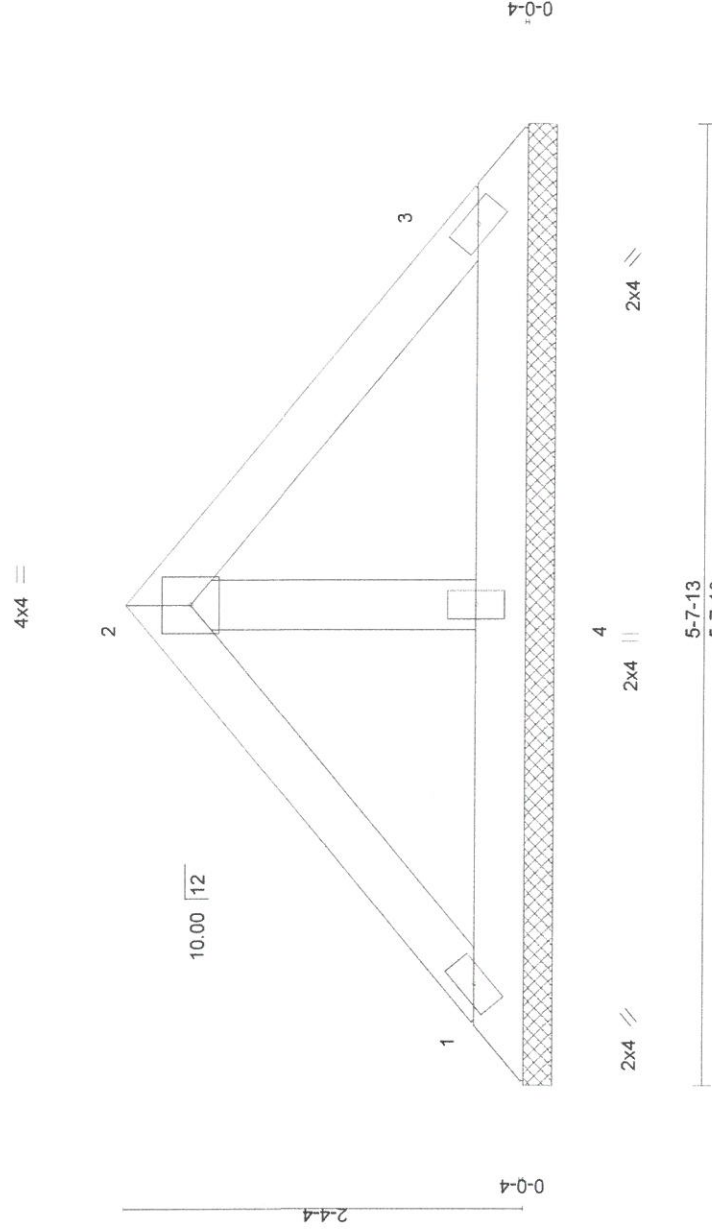
The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:49 2019 Page 1
 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-fIHGRcGw6wSuz5NK6BgtQHfH9R924evc2zoYCO

2-9-15 2-9-15 2-9-15 2-9-15

Scale = 1:17.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(TL)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TP12007	Matrix-P						Weight: 20 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

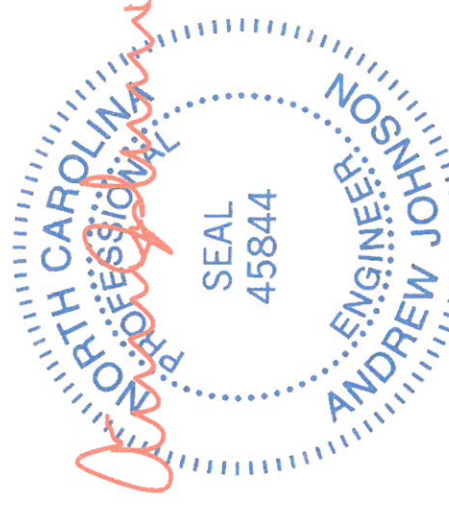
Structural wood sheathing directly applied or 5-7-13 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=111/5-7-13, 3=111/5-7-13, 4=165/5-7-13
 Max Horz 1=41(LC 6)
 Max Uplift 1=-19(LC 11), 3=-24(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) VIRC2012=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.



February 4, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 19020247	Truss V/4	Truss Type Valley Truss	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038762
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-DrGgUcSqRp7YcT9f5rLjt3Rh_t0c0lHKNS9UzoYCN
8,240 s Dec 6 2018 MITek Industries, Inc. Mon Feb 4 10:35:50 2019 Page 1



Scale = 1:9.5

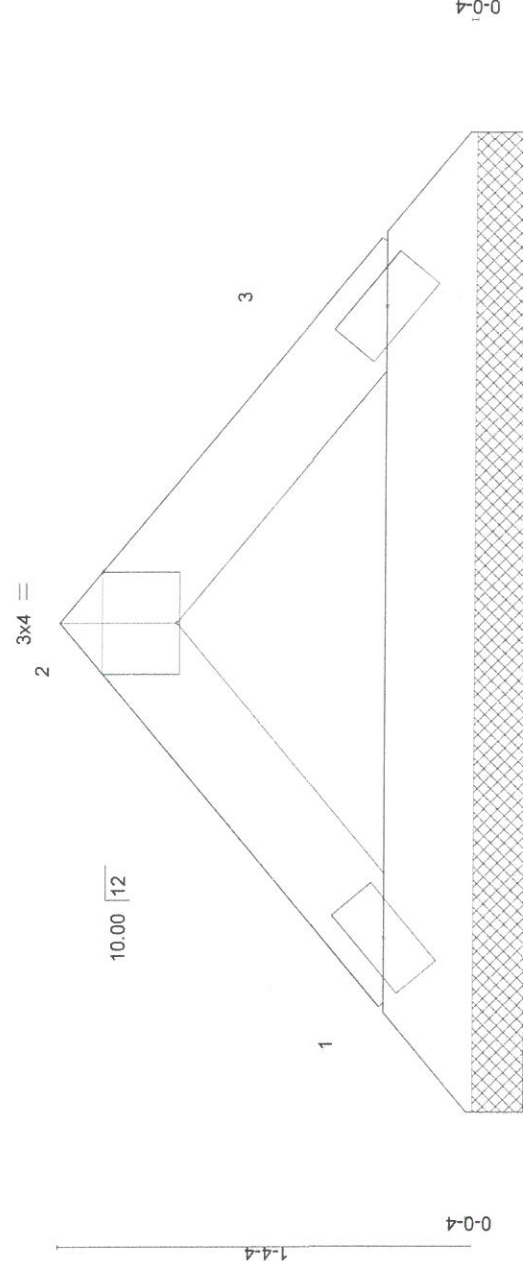


Plate Offsets (X,Y) - [2:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.02	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	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

Weight: 10 lb FT = 20%

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=98/3-2-7, 3=98/3-2-7
Max Horz 1=21(LC 9)
Max Uplift 1=-7(LC 10), 3=-7(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(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.



February 4, 2019

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

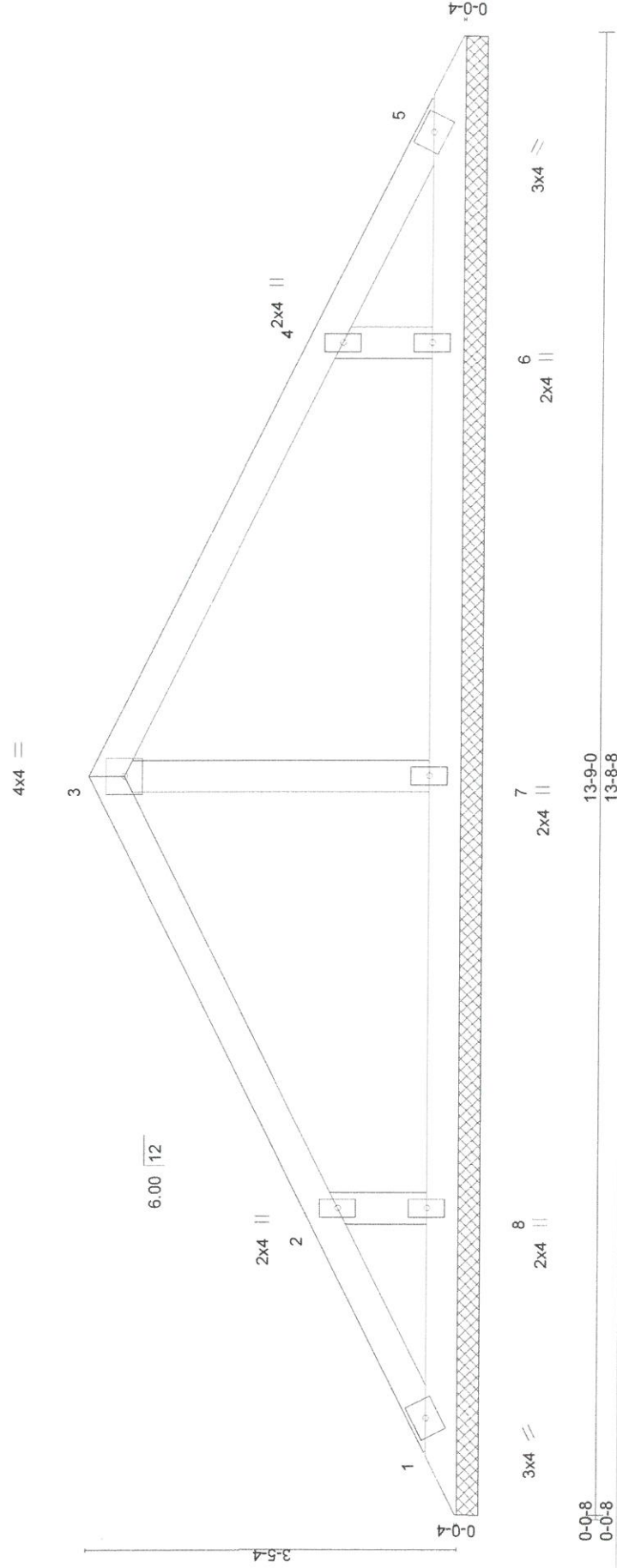
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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.



818 Soundside Road
Edenton, NC 27932

Job 19020247	Truss V5	Truss Type Valley	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038763
The Building Center Inc., Gastonia, NC 28052		8,240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:51 2019 Page 1		Job Reference (optional)		
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-h2q2hyTSC78qAm2MCoMaG50Cu5KJ3SSVO70hxzoYCM		13-9-0		6-10-8		
6-10-8		6-10-8		6-10-8		

Scale = 1/23.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.17	Vert(LL) n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(TL) n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00	5	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 Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 48 lb FT = 20%

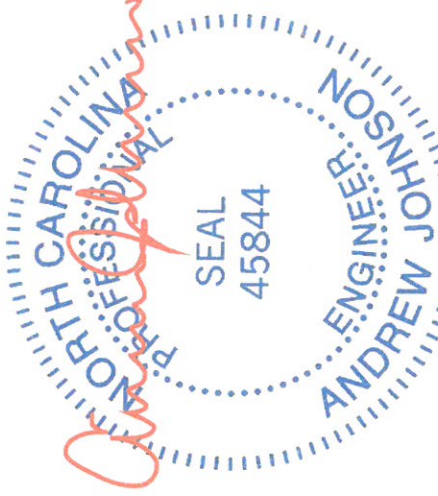
REACTIONS.

All bearings 13-8-0.
 (lb) - Max Horz 1=43(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=286(LC 1), 8=305(LC 21), 6=305(LC 22)

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; 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
- 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, 8, 6.



February 4, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 19020247	Truss V6	Truss Type Valley	Qty 1	Ply 1	Lot-60-CLK/2016-Hudson-01/RF	I36038764
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The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

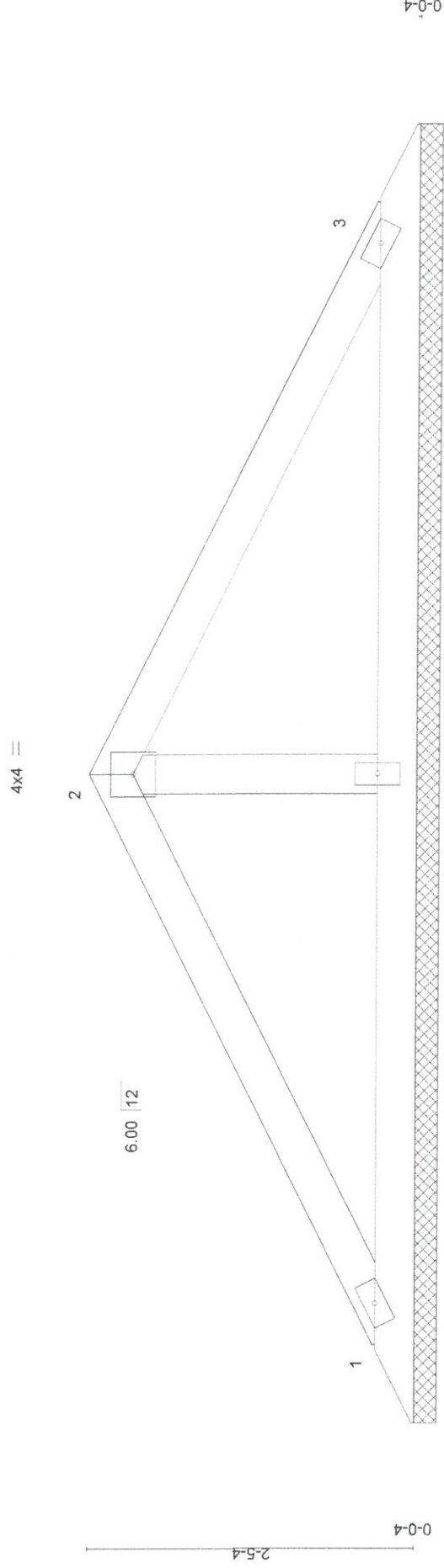
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8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Feb 4 10:35:52 2019 Page 1

4-10-8
4-10-8

9-9-0
4-10-8

Scale = 1:18.3



2x4

4
2x4

2x4

0-0-8
0-0-8

9-9-0
9-8-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.25	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 0.05	Horz(TL)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S						

Weight: 31 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.

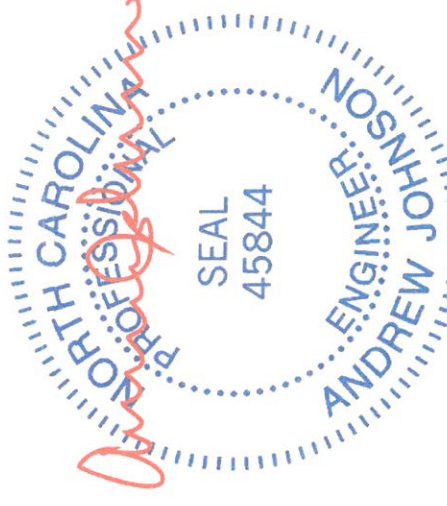
REACTIONS.

(lb/size) 1=155/9-8-0, 3=155/9-8-0, 4=370/9-8-0
Max Horz 1=29(LC 10)
Max Uplift 1=-25(LC 10), 3=-30(LC 11), 4=-12(LC 10)
Max Grav 1=157(LC 21), 3=157(LC 22), 4=370(LC 1)

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; 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
- 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, 3, 4.



February 4, 2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot-60-CLK/2016-Hudson-01/RF	136038765
19020247	V7	Valley	1	1		

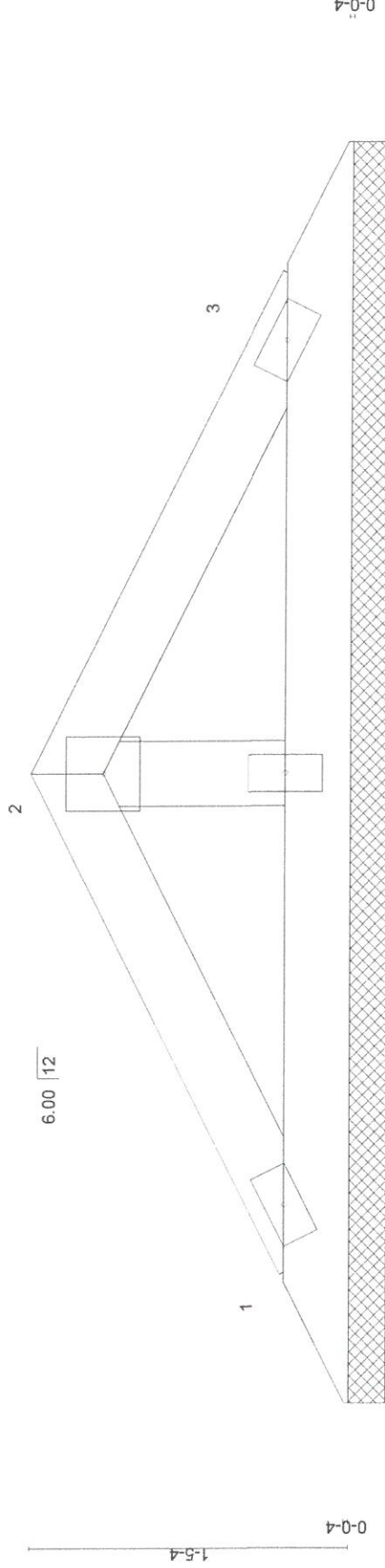
The Building Center Inc., Gastonia, NC 28052

Job Reference (optional)

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 8,240 s Dec 6 2018 MITek Industries, Inc. Mon Feb 4 10:35:52 2019 Page 1



Scale: 1"=1'



2x4	2x4	2x4	2x4	5-9-0	0-0-8
2x4	2x4	2x4	2x4	5-8-8	5-8-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.09	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(TL) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-P						Weight: 17 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 5-9-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

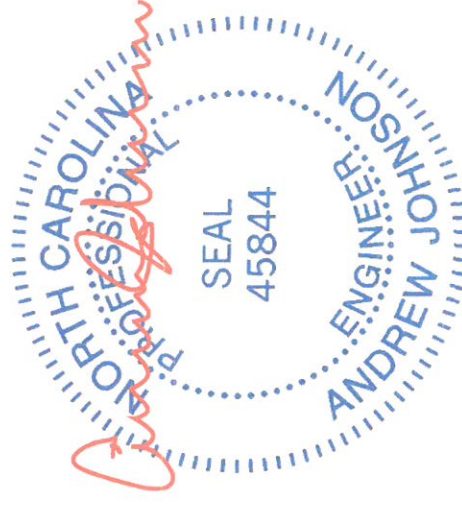
REACTIONS. (lb/size) 1=91/5-8-0, 3=91/5-8-0, 4=177/5-8-0

Max Horz 1=-15(LC 15)
 Max Uplift 1=-17(LC 10), 3=-20(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; 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) 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.



February 4, 2019

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

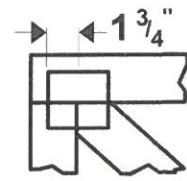
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-99 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



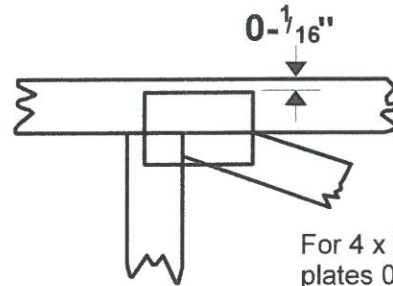
818 Soundside Road
 Edenton, NC 27932

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- $\frac{1}{16}$ " from outside edge of truss.



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

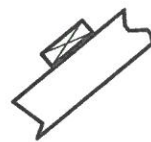
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

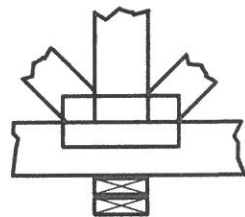
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

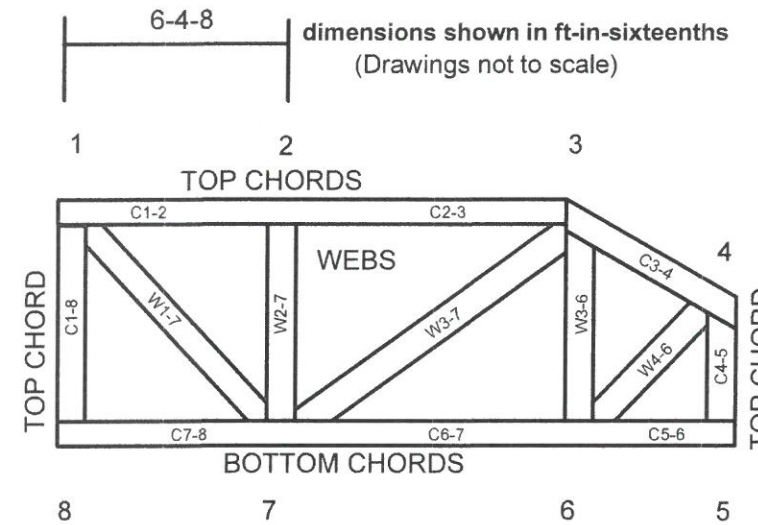


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.