REVISION LOG

REVISION: 001 DATE: 12/15/2020

1. REVISE THE OVERALL BUILDING HT TO SHOW GRADE TO RIDGE

McKee Homes, Inc.

LOT 86 - OAKMONT
03.31.2021

Tucker 2020

ELEVATION - CLASSIC

ARCHITECTURAL DRAWINGS			
Sheet No.	Sheet Description	Sheet No.	Sheet Description
0.0	Cover Sheet		
2.1	First Floor Plan		
2.1.1	First Floor Side Load Garage Plan		
2.2	Second Floor Plan		
2.4	Covered Patio Plan & Elevations (Slab)		
2.4.1	Covered Deck Plan & Elevations (Crawl)		
2.5	Screened Patio Plan & Elevations (Slab)		
2.5.1	Screened Deck Plan & Elevations (Crawl)		
3.1	Front & Rear Elevations (Slab)		
3.1.1	Front & Rear Elevations (Crawl)		
3.1.2	Side Load Garage Elevations (Slab)		
3.2	Side Elevations (Slab)		
3.2.1	Side Elevations (Crawl)		
3.2.2	Side Load Garage Elevations (Crawl)		
3.3	Roof Plan		
4.0	Building Sections (Slab)		
4.0.1	Building Sections (Crawl)		
5.1	First Floor Electrical		
5.1.1	First Floor Side Load Electrical		
5.2	Second Floor Electrical		
6.1	First And Second Floor HVAC		
8.1	First Floor Flooring Plan		
8.2	Second Floor Flooring Plan		

DESIGN CRITERIA:

THIS PLAN IS TO BE BUILT IN CONFORMANCE WITH THE
2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE

DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.

SQUARE FOOTAGE		
	ELEVATION CLASSIC	
	UNHEATED	HEATED
FIRST FLOOR	0	1492
FRONT PORCH	25	0
2-CAR GARAGE	416	0
SUBTOTALS	441	1492
TOTAL UNDER ROOF	1933	

OPTIONS		
	UNHEATED S.F.	HEATED S.F.
COV/SCR PATIO / DECK	120	-

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P.O. Box 688
Wake Forest, NC 27588
(O) 919-556-2226
(F) 919-556-2228
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CLIENT:

McKee Homes, Inc.
5112 Pine Birch Dr.
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(919) 733-5207

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REV #	DATE / DESCRIPTION
1	
2	
3	

Tucker 2020

Cover Sheet Classic

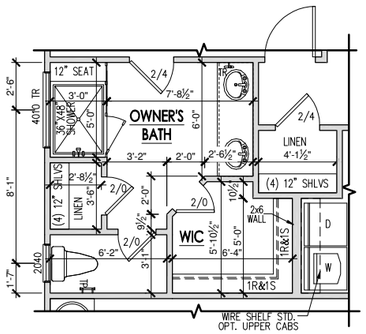
SHEET
0.0b

NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

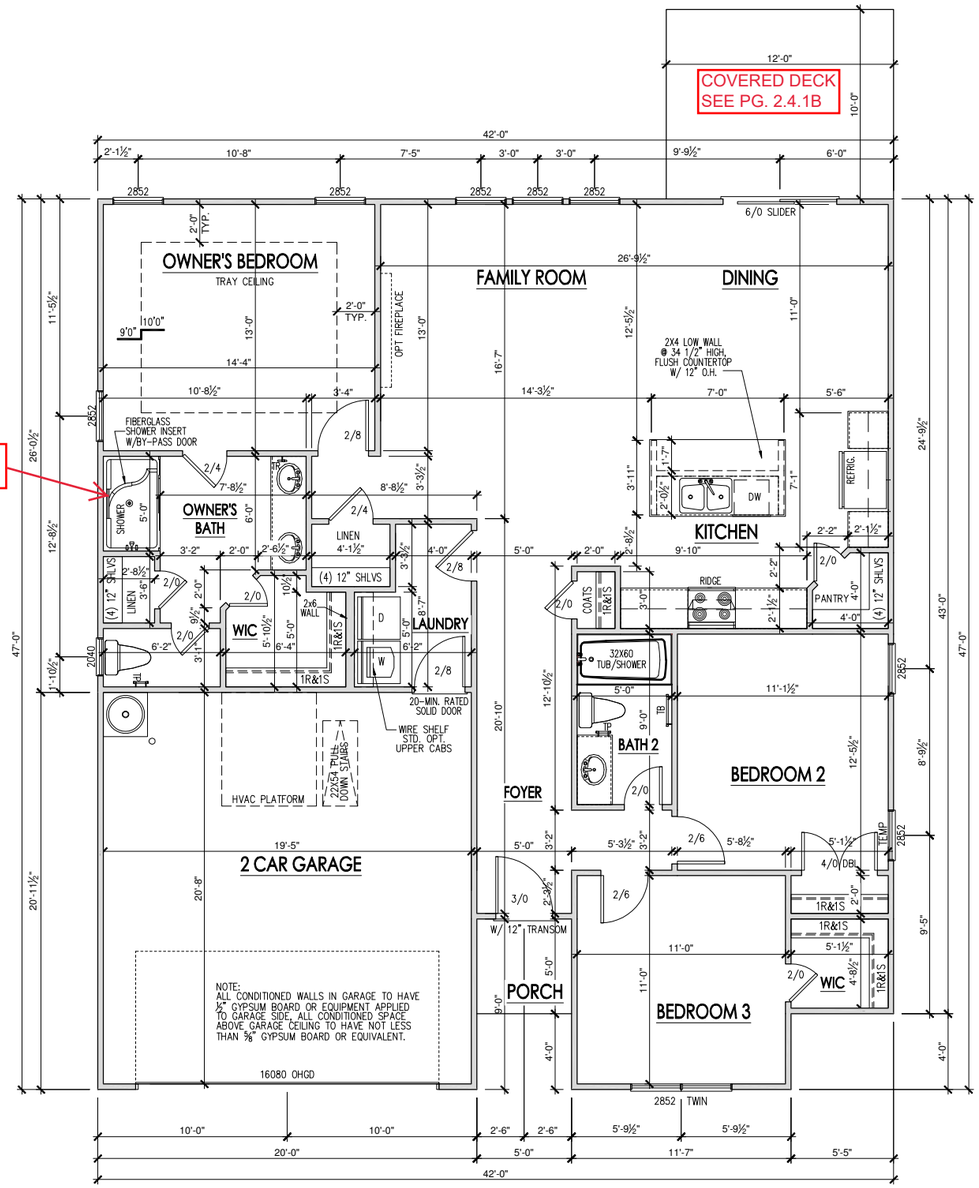
1. **Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 9'-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.**
2. **Wall Thickness is typically 3 1/2" at walls. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.**
3. **Typical header height shall be 7'-8" AFF at First Floor, and 7'-4" AFF at Second Floor U.N.O.**
4. **Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.**
5. **Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens <u>do not</u> include soffits over wall cabinetry.**
6. **Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.**
7. **Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.**
8. **Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 4 open equal shelves. Closets for pantries shall have 4 equal wood shelves, painted.**
9. **Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code**
10. **Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balisters) shall be spaced with no more than 4" between guards.**
11. **Attic Access shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.**
12. **Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.**
13. **Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.**



OPT. SHOWER @ OWNER'S BATH

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

OWNER'S TILE SHOWER SEE DETAIL TO LEFT



FIRST FLOOR PLAN - CLASSIC

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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(O) 919-556-2226
(F) 919-556-2228
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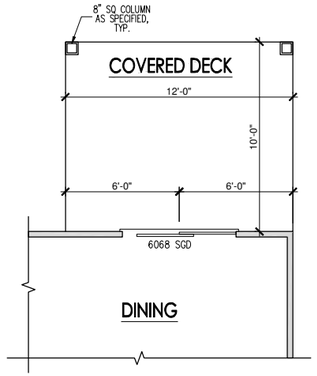
First Floor Plan Classic

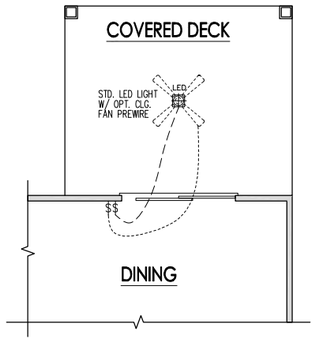
SHEET 2.1b

NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS – 11x17 SHEETS ARE 1/2 SCALE PLOTS



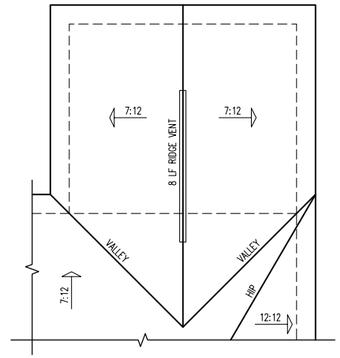
COVERED DECK FLOOR PLAN

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



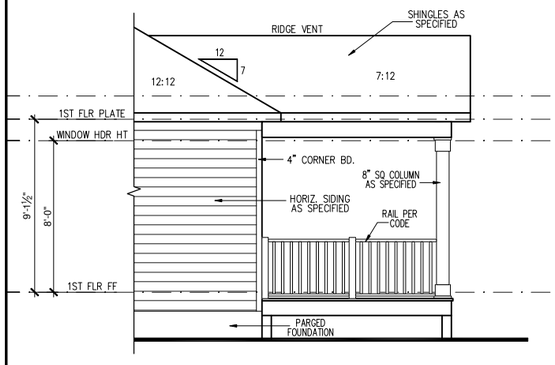
COVERED DECK ELECTRICAL

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



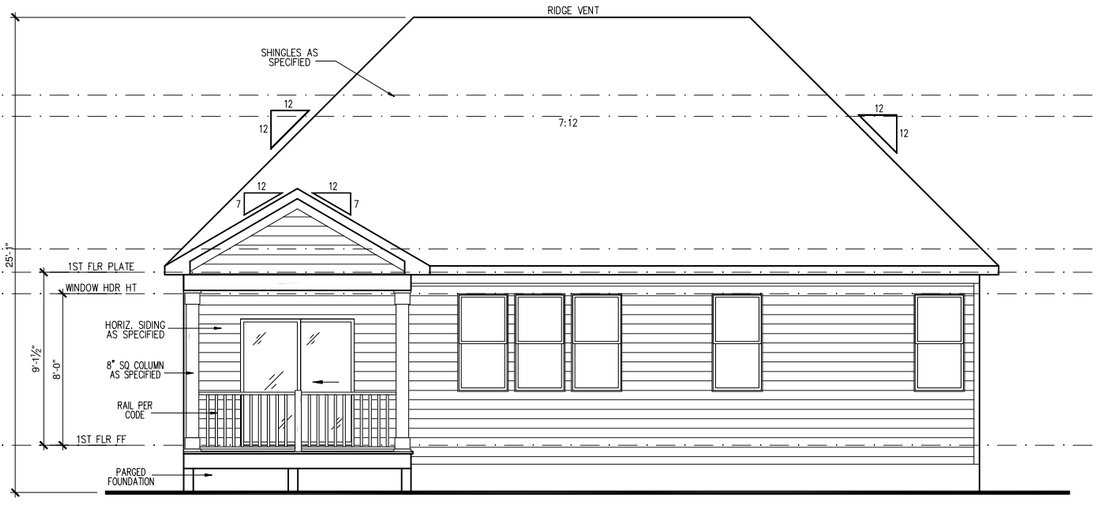
COVERED PATIO ROOF PLAN

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



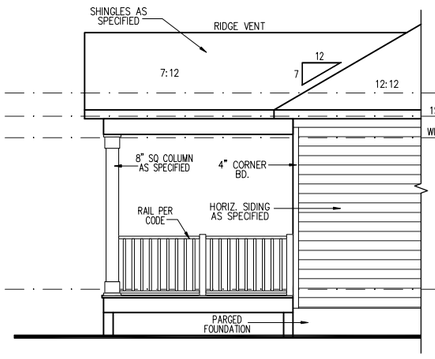
PARTIAL RIGHT SIDE ELEVATION (CRAWL)

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



COVERED PATIO REAR ELEVATION (CRAWL)

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



PARTIAL LEFT SIDE ELEVATION (CRAWL)

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

Tucker 2020

Covered Deck Plans & Elevations_Crawl

SHEET

2.4.1b

General Elevation Notes

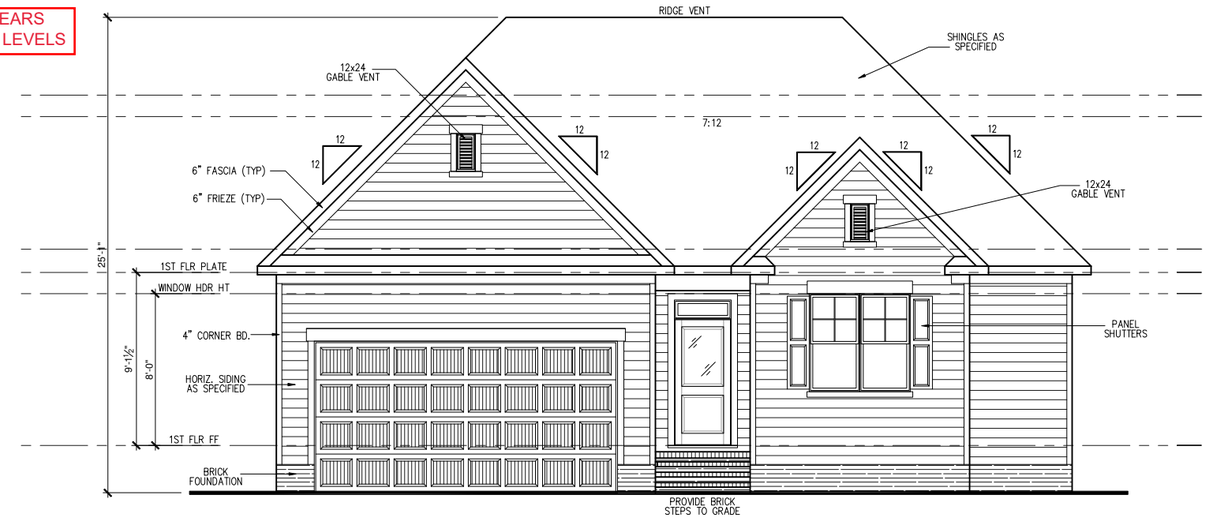
General Elevation Notes shall apply unless noted otherwise on plan.

1. Roof shall be finished with architectural composition shingles with slopes as noted on plan.
2. Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
3. Soffit Vent shall be continuous soffit vent
4. House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
5. Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
6. Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
7. Finish Wall Material shall be as noted on elevation drawings.
8. Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
9. Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6". Masonry Lintels shall be provided so that deflection is limited to L/600.

Masonry Opening Lintel Schedule

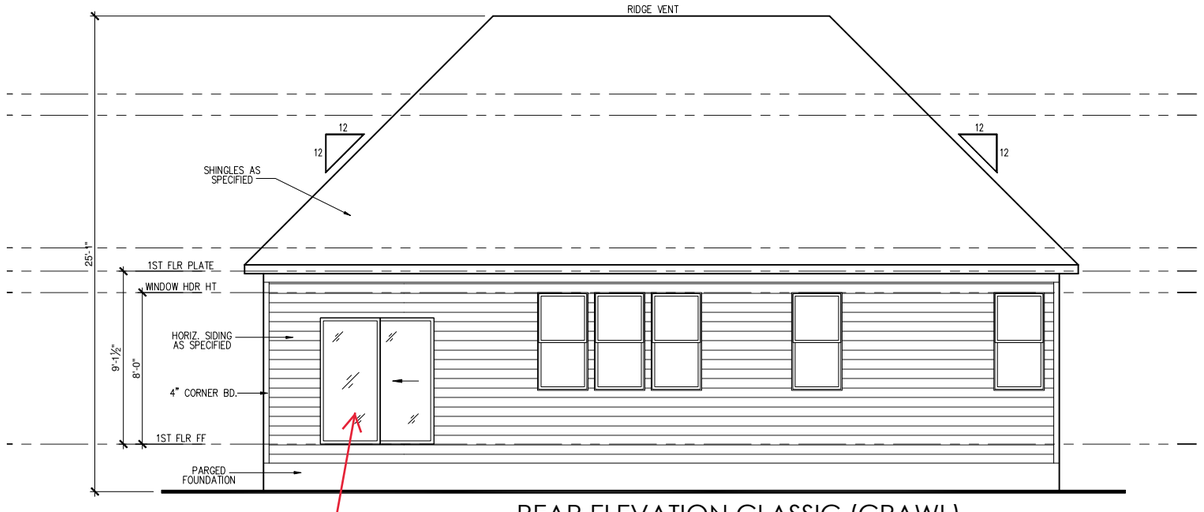
Opening Size	Angle
up to 4'-0"	3-1/2" x 3-1/2" x 5/16"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to 6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to 8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to 16'-4"	7" x 4" x 3/8" LLV

FRIEZE ON SIDES & REARS ARE BASED ON SPEC LEVELS



FRONT ELEVATION CLASSIC (CRAWL)

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



REAR ELEVATION CLASSIC (CRAWL)

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NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

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Front & Rear Elevations Classic_Crawl

SHEET
3.1.1b

General Elevation Notes

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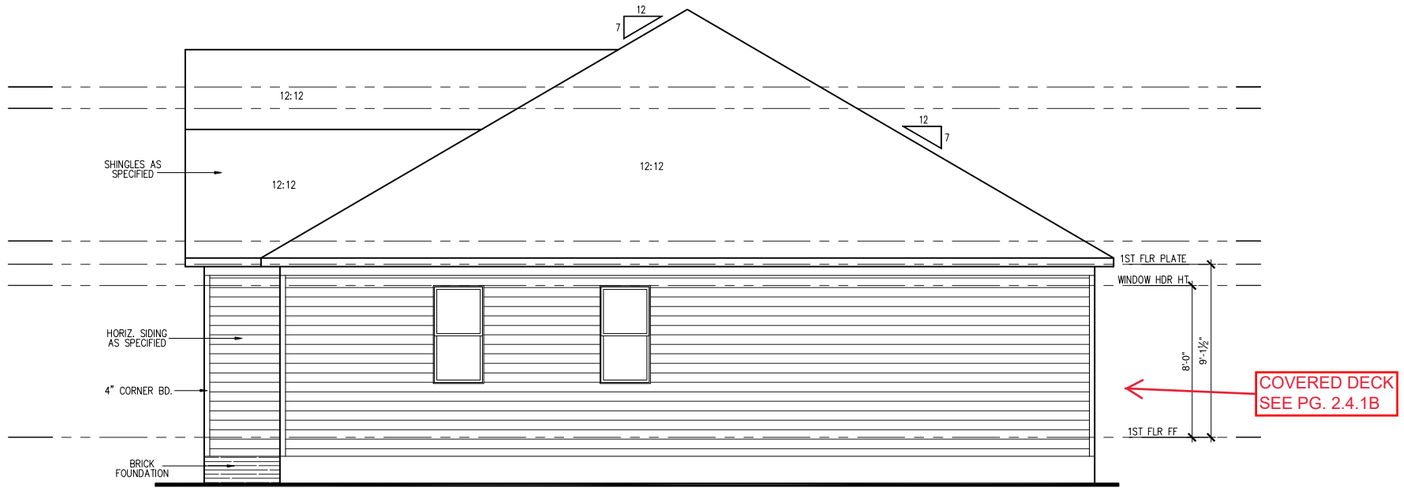
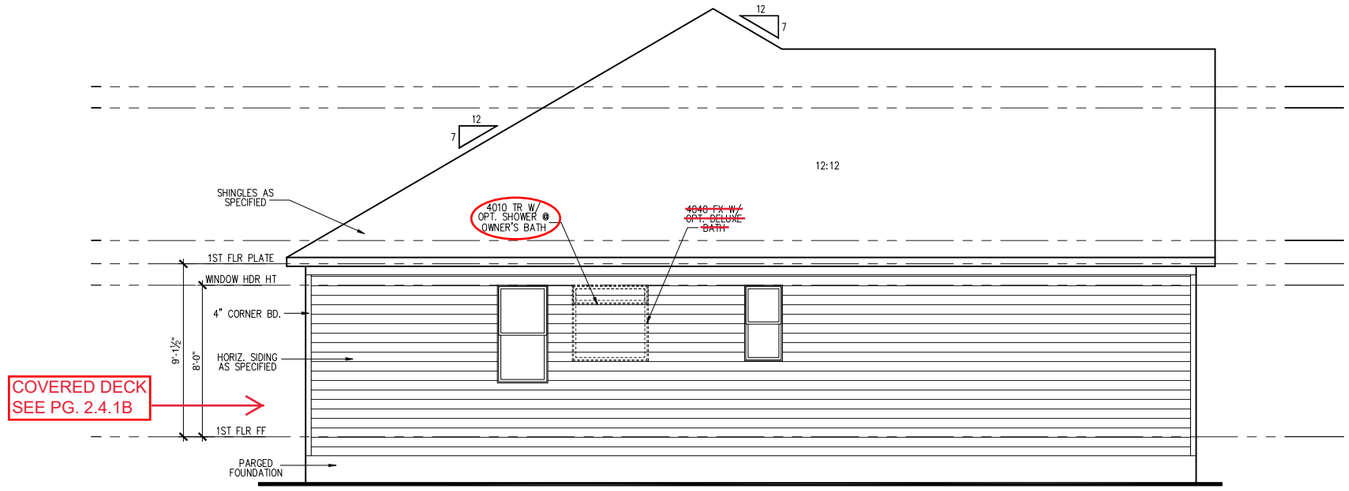


RIGHT SIDE ELEVATION CLASSIC (CRAWL)

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



LEFT SIDE ELEVATION CLASSIC (CRAWL)

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

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(O) 919-556-2226
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5112 Pine Birch Dr.
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Side Elevations Classic_Crawl

SHEET

3.2.1b

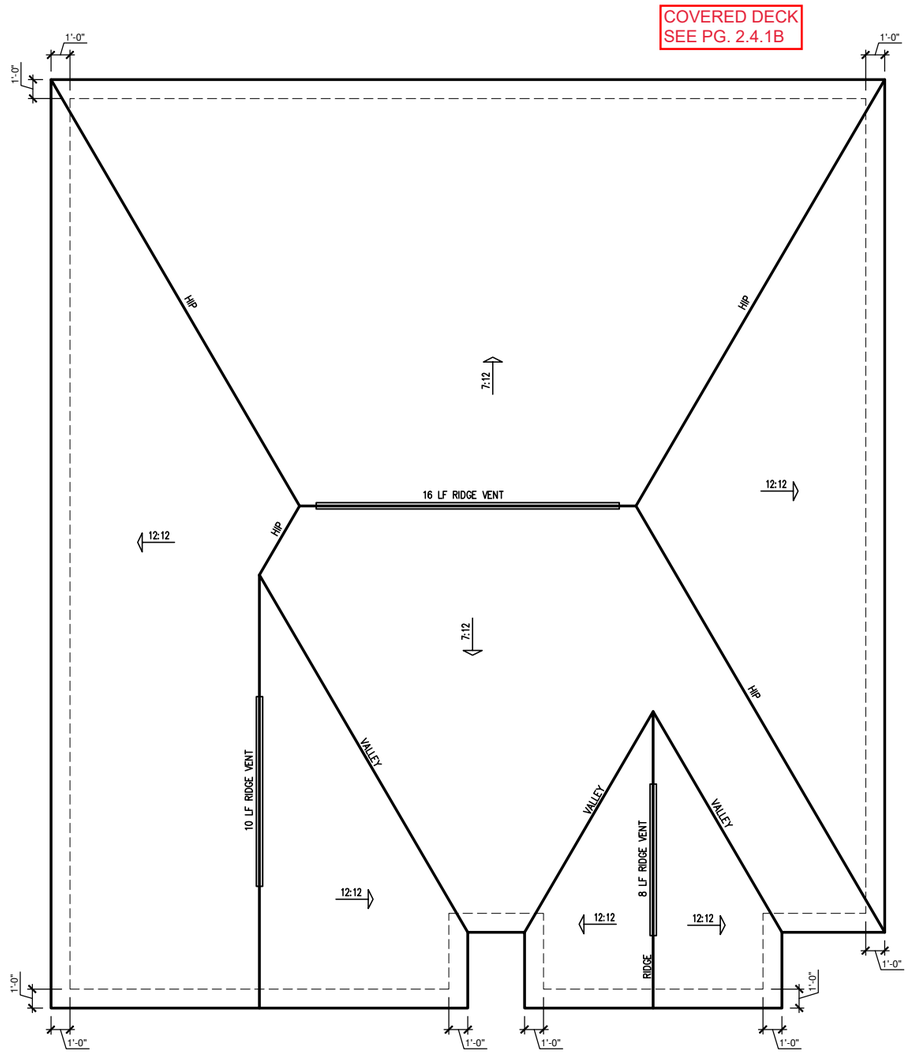
NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

ATTIC VENT SCHEDULE

ELEVATION CLASSIC

MAIN HOUSE			SQ FTG	1932	AT / NEAR RIDGE			AT / NEAR EAVE	
VENT TYPE	SQ. FT. REQUIRED RANGE		SQ. FT. SUPPLIED	PERCENT OF TOTAL SUPPLIED	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)
					0.4236	0.2778	0.125	0.1944	0.0625
RIDGE VENT	2.58	3.22	3.13	45.45	0	0	25.00		
SOFFIT VENTS	3.86	3.22	3.75	54.55				0	60.00
TOTAL (MIN)	6.44	6.44	6.88	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE				

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION



ELEVATION CLASSIC ROOF PLAN

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

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Roof Plan Classic

SHEET
3.3b

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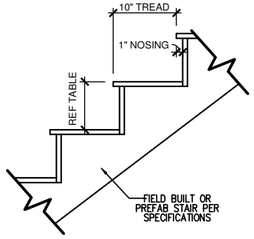
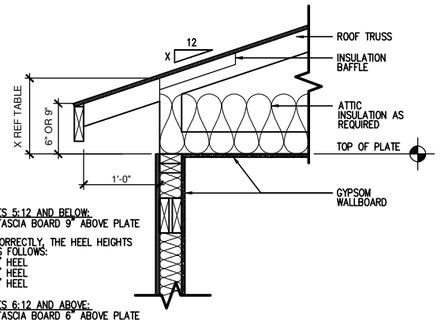


RISER HEIGHTS PER STAIR CONFIGURATION			
PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"

TYPICAL STAIR DETAIL

SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



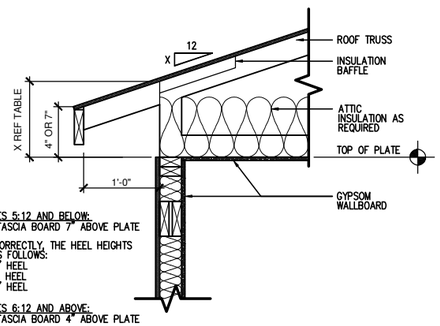
FOR ROOF PITCHES 5:12 AND BELOW:
-SHOW TOP OF FASCIA BOARD 9" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
3:12 = 12" HEEL
4:12 = 13" HEEL
5:12 = 14" HEEL

FOR ROOF PITCHES 6:12 AND ABOVE:
-SHOW TOP OF FASCIA BOARD 6" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
6:12 = 12" HEEL
7:12 = 13" HEEL
8:12 = 14" HEEL
9:12 = 15" HEEL
10:12 = 16" HEEL

IMPORTANT REMINDER: THE LOWEST PITCH ROOF ALWAYS MANDATES THE CONDITION. FOR EXAMPLE , A ROOF WITH A 4:12 PITCH AND A 6:12 PITCH, WOULD FOLLOW THE 9" ABOVE PLATE HEIGHT RULE. THE HEEL FOR THE 6:12 ROOF IN THIS CONDITION WILL DIFFER FROM WHAT IS LISTED HERE.

ENERGY HEEL DETAIL: CZ 4 & 5

SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



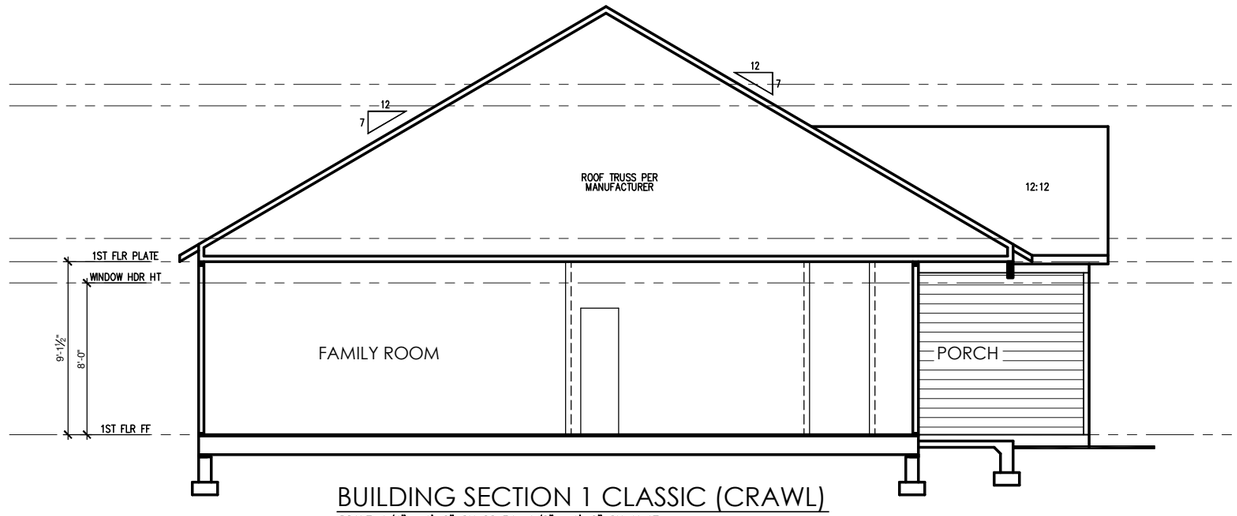
FOR ROOF PITCHES 5:12 AND BELOW:
-SHOW TOP OF FASCIA BOARD 7" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
3:12 = 10" HEEL
4:12 = 11" HEEL
5:12 = 12" HEEL

FOR ROOF PITCHES 6:12 AND ABOVE:
-SHOW TOP OF FASCIA BOARD 4" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
6:12 = 10" HEEL
7:12 = 11" HEEL
8:12 = 12" HEEL
9:12 = 13" HEEL
10:12 = 14" HEEL

IMPORTANT REMINDER: THE LOWEST PITCH ROOF ALWAYS MANDATES THE CONDITION. FOR EXAMPLE , A ROOF WITH A 4:12 PITCH AND A 6:12 PITCH, WOULD FOLLOW THE 7" ABOVE PLATE HEIGHT RULE. THE HEEL FOR THE 6:12 ROOF IN THIS CONDITION WILL DIFFER FROM WHAT IS LISTED HERE.

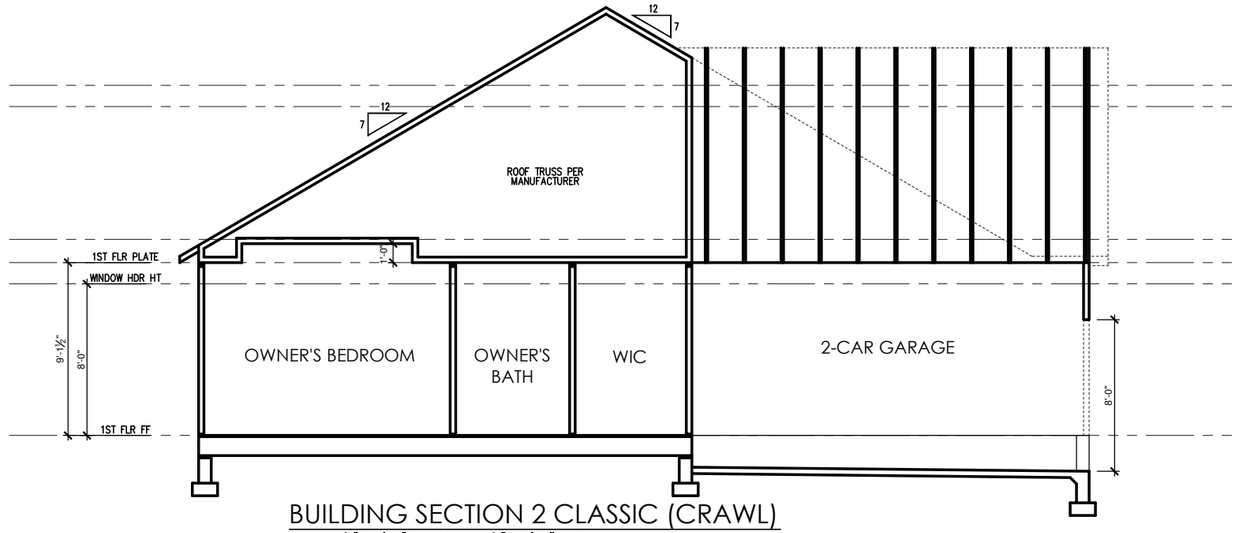
ENERGY HEEL DETAIL: CZ 2 & 3

SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



BUILDING SECTION 1 CLASSIC (CRAWL)

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



BUILDING SECTION 2 CLASSIC (CRAWL)

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

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(919) 733-5237

DRAWN BY:
ORIGINAL RELEASE DATE:
CURRENT RELEASE DATE:

REV #	DATE / DESCRIPTION
1	
2	
3	

Tucker 2020

Building Sections Classic_Crawl

SHEET
4.0.1b

NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

ELECTRICAL SYMBOL KEY

LIGHT FIXTURES	
	CEILING SURFACE MOUNT LIGHT
	RECESSED CAN LIGHT
LED	LED PUCK LIGHT
WP	RECESSED CAN LIGHT WATERPROOF
	RECESSED CAN - EYEBALL
	PENDANT LIGHTING
	WALL SCONCE
	WALL MOUNT LIGHT
	FLOOD LIGHT
OUTLETS	
	DUPLEX OUTLET
GFI	GFI OUTLET
GFI-WP	WATERPROOF GFI OUTLET
	SWITCHED 1/2 HOT DUPLEX OUTLET
220V	220V OUTLET
	TELEPHONE OUTLET
	CATV (TELEVISION) OUTLET
	UNDER-COUNTER OR CONCEALED OUTLETS
	CEILING MOUNTED DUP. OUTLET
FLOOR	FLOOR MOUNTED DUP. OUTLET
SWITCHES	
$	SINGLE POLE SWITCH
$3	THREE-WAY SWITCH
$4	FOUR-WAY SWITCH
DISC	ELECTRICAL DISCONNECT
MISC FIXTURES	
	EXHAUST FAN
	JUNCTION BOX
220V	JUNCTION BOX 220V
CM SD	CARBON MONOXIDE DETECTOR OR SMOKE DETECTOR
CO.SD	CARBON MONOXIDE DETECTOR AND SMOKE DETECTOR
	ELECTRIC METER
Elec Panel	ELECTRICAL PANEL
	DOOR BELL CHIME
	DOOR BELL PUSH BUTTON
FROM BRACING	CEILING FAN PREWIRE
	FLUORESCENT LIGHT

General Power and Lighting:

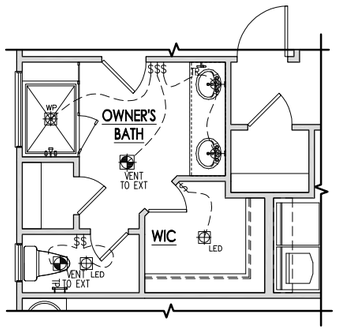
General Power and Lighting Notes shall apply unless noted otherwise on plans.

All work shall be installed per the current NC Residential Building Code, and the National Electric Code. Alarm devices shall meet NFPA 72.

1. **Smoke Alarms - Shall be provided as a minimum of (1) per floor, including basements (if applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Smoke alarms shall be hard wired to permanent power and shall have batter back-ups.**

2. **Switches - For lighting, fans, etc. shall be installed at heights illustrated on this page and shall be located a minimum of 4 1/2" from door openings to allow for the proper installation of door casings. Switches, thermostats, security pads, and other similar devices shall be grouped together and installed thoughtfully for convenience of use and to avoid placement within centers of wall areas.**

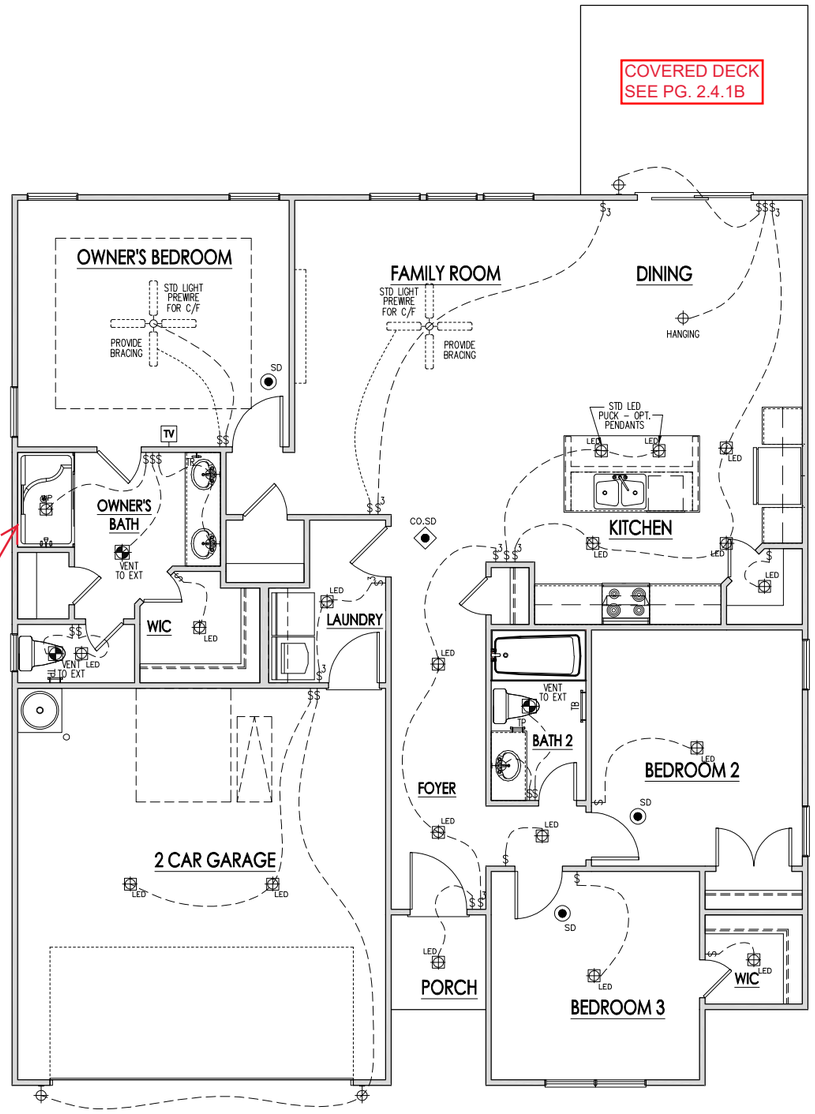
Note:
This plan is a diagram showing approximate locations of convenience outlets based on requirements found in the NC Residential Code and N.E.C. Actual positions may vary from what is shown on plan.



OPT. SHOWER @ OWNER'S BATH

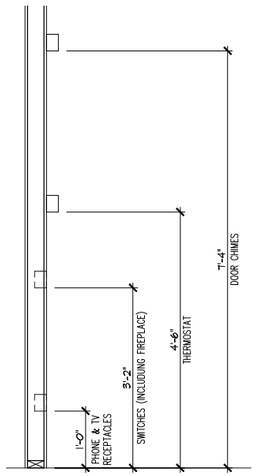
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

OWNER'S TILE SHOWER SEE DETAIL TO LEFT



FIRST FLOOR ELECTRICAL PLAN - CLASSIC

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



ELECTRICAL BOX HEIGHTS

SOUTH DESIGNS
P.O. Box 688
Wake Forest, NC 27588
(O) 919-556-2226
(F) 919-556-2228
www.southdesigns.com

CLIENT:

McKee Homes, Inc.
5112 Pine Birch Dr.
Raleigh, NC 27606
(919) 733-5207

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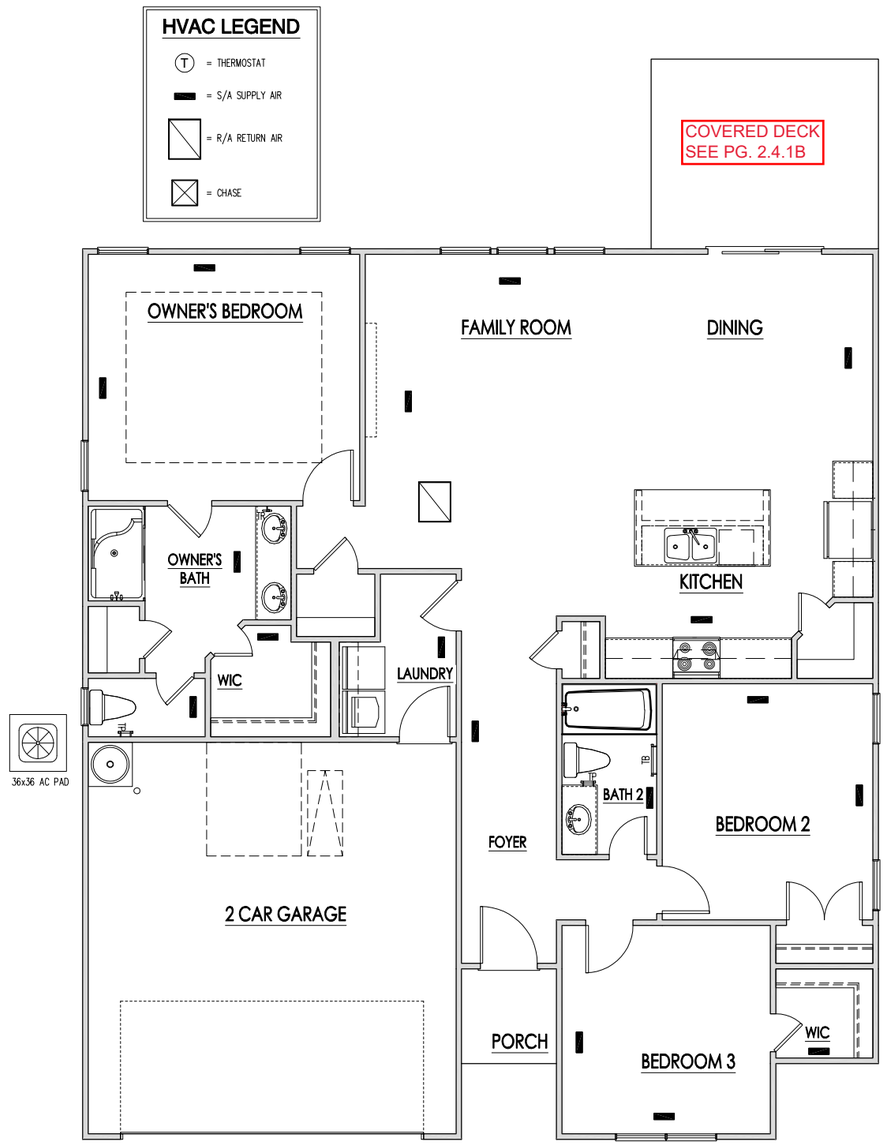
Tucker 2020

First Floor Electrical Classic

NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

SHEET
5.1b



FIRST FLOOR HVAC PLAN - CLASSIC

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

SOUTH DESIGNS
P.O. Box 688
Wake Forest, NC 27588
(O) 919-556-2226
(F) 919-556-2228
www.southdesigns.com

CLIENT:

McKee Homes, Inc.
5112 Pine Birch Dr.
Raleigh, NC 27606
(919) 733-5207

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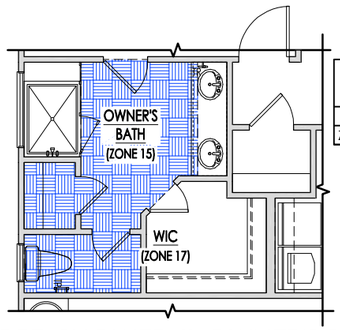
Tucker 2020

First and Second Floor HVAC Classic

SHEET 6.1

NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

FOYER	ZONE 00
KITCHEN / BUTLER PANTRY	ZONE 01
POWDER ROOM	ZONE 02
FAMILY ROOM	ZONE 03
DINING	ZONE 04
CAFE / BREAKFAST	ZONE 05
MORNING ROOM	ZONE 06
INFORMAL DINING	ZONE 07
LIVING ROOM	ZONE 08
FLEX	ZONE 09
OFFICE	ZONE 10
LAUNDRY	ZONE 11
ENTRY	ZONE 12
SUNROOM	ZONE 13
MASTER BEDROOM	ZONE 14
MASTER BATH	ZONE 15
SITTING ROOM	ZONE 16
MASTER BR WIC	ZONE 17
LOFT	ZONE 18
HALL	ZONE 19
STAIRS	ZONE 20
STORAGE	ZONE 21
BONUS ROOM	ZONE 22
GAME ROOM	ZONE 23
MEDIA ROOM	ZONE 24
BEDROOM 2	ZONE 25
BEDROOM 3	ZONE 26
BEDROOM 4	ZONE 27
BEDROOM 5	ZONE 28
BEDROOM 6	ZONE 29
GUEST SUITE	ZONE 30
GUEST BATH	ZONE 31
BATHROOM 2	ZONE 32
BATHROOM 3	ZONE 33
BATHROOM 4	ZONE 34
BATHROOM 5	ZONE 35
JACK & JILL BATH	ZONE 36
FINISHED BASEMENT	ZONE 37
BASEMENT EXT @ SUNROOM	ZONE 38
EXERCISE ROOM	ZONE 39



FLOORING AREAS	
ZONE	AREA
ZONE 15	78.13 SF

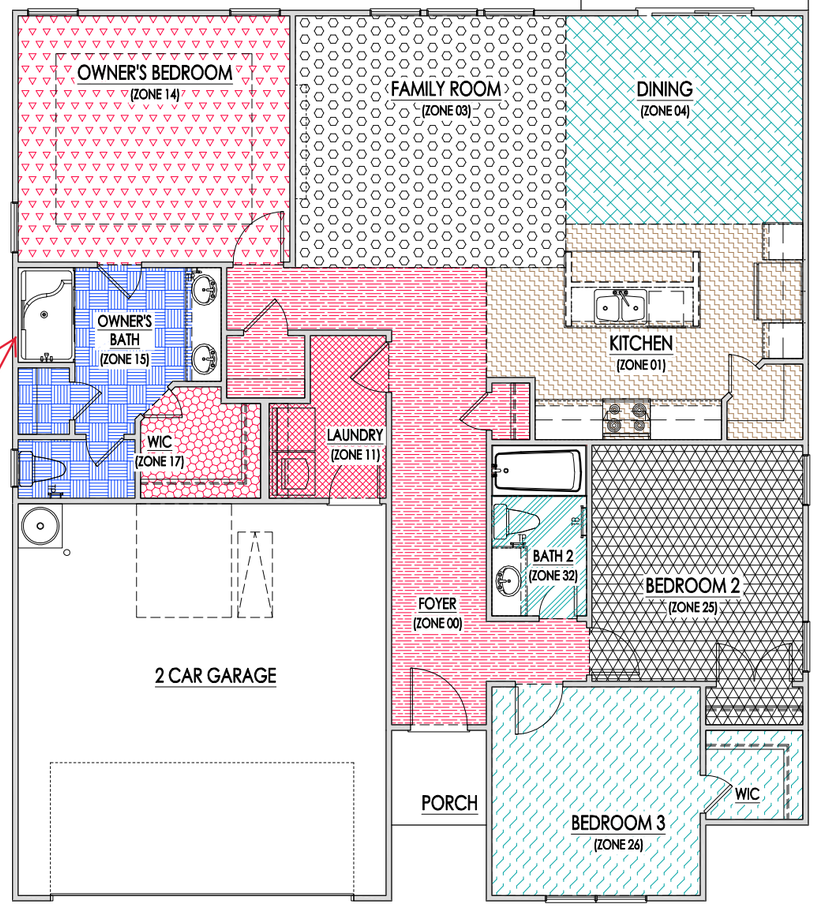
OPT. SHOWER @ OWNER'S BATH

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

OWNER'S TILE SHOWER
SEE DETAIL TO LEFT

FLOORING AREAS	
ZONE	AREA
ZONE 00	188.69 SF
ZONE 01	134.92 SF
ZONE 03	189.96 SF
ZONE 04	137.50 SF
ZONE 11	45.56 SF
ZONE 14	187.06 SF
ZONE 15	78.13 SF
ZONE 17	34.00 SF
ZONE 25	150.38 SF
ZONE 26	146.08 SF
ZONE 32	26.43 SF

COVERED DECK
SEE PG. 2.4.1B



FIRST FLOOR FLOORING PLAN - CLASSIC

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

SOUTH DESIGNS
P.O. Box 688
Wake Forest, NC 27588
(O) 919-556-2226
(F) 919-556-2228
www.southdesigns.com

CLIENT:

McKee Homes, Inc.
5112 Pine Birch Dr.
Raleigh, NC 27606
(919) 733-5207

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△	

NOTE: SCALES NOTED ON DRAWINGS RELATE TO FULL SIZE 34x22 SHEETS - 11x17 SHEETS ARE 1/2 SCALE PLOTS

Tucker 2020

First Floor Flooring Plan Classic

SHEET
8.1b

STRUCTURAL PLANS FOR:

TUCKER 2020 - LEFT HAND

INDEX OF SHEETS

SHEET	TITLE
T	TITLE SHEET: PROJECT INFORMATION AND NOTES
GN1.0	GENERAL NOTES
GN1.1	GENERAL NOTES
S0.1	SLAB FOUNDATION PLAN
S0.9	CRAWLSPACE FOUNDATION PLAN
S1.0	FIRST FLOOR CEILING FRAMING PLAN
S2.0	SECOND FLOOR CEILING FRAMING PLAN
S3.0	FIRST FLOOR WALL BRACING PLAN
S4.0	SECOND FLOOR WALL BRACING PLAN
S5.0	ROOF FRAMING PLAN
D1.0 - D13.0	DETAILS

REVISION LOG

DATE	REVISED BY	REVISION

NOTES

1. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS Consulting, PLLC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
2. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
3. PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
   A. IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
   B. IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.

CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

2018
NORTH CAROLINA
STATE BUILDING CODE:
RESIDENTIAL CODE

ENGINEER OF RECORD

JDS Consulting, PLLC
ENGINEERING, BUILDING DESIGN, & CONSTRUCTION
CONSULTING SERVICES
8600 'D' JERSEY COURT
RALEIGH, NC 27617
FIRM LIC. NO: P-0961
PROJECT REFERENCE: 21900409

NORTH CAROLINA PROFESSIONAL SEAL 045403 ENGINEER CHARLES E. TEAL
3/23/21

P-0961

JDS Consulting
DESIGN • ENGINEERING • SURVEYING • ENERGY
JDS Consulting PLLC; 8600 'D' JERSEY CT. RALEIGH, NC 27617 919.480.1075
INFO@JDSCONSULTING.NET; WWW.JDSCONSULTING.NET

CLIENT: MCKEE HOMES
PROJECT: TUCKER 2020 - LEFT HAND
LOCATION: NORTH CAROLINA
SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO.: 20900409
DATE: 03/23/2021
DRAWN BY: AWC

TITLE SHEET

T

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE RESIDENTIAL CODE (SEE TITLE SHEET).

GENERAL

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS Consulting, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.

2. BRACED-WALL DESIGN IS BASED ON SECTION R602.10 - WALL BRACING. PRIMARY PRESCRIPTIVE METHOD TO BE CS-WSP. SEE WALL BRACING PLANS AND DETAILS FOR ADDITIONAL INFORMATION.

   ALL NON-PRESCRIPTIVE SOLUTIONS ARE BASED ON GUIDELINES ESTABLISHED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION *ASCE 7* AND THE *NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC*.

3. SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC PROVISIONS, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY.

DESIGN LOADS

ASSUMED SOIL BEARING-CAPACITY	2,000 PSF
	LIVE LOAD
ULTIMATE DESIGN WIND SPEED	115 MPH, EXPOSURE B
GROUND SNOW	15 PSF
ROOF	20 PSF
RESIDENTIAL CODE TABLE R301.5	LIVE LOAD (PSF)
DWELLING UNITS	40
SLEEPING ROOMS	30
ATTICS WITH STORAGE	20
ATTICS WITHOUT STORAGE	10
STAIRS	40
DECKS	40
EXTERIOR BALCONIES	60
PASSENGER VEHICLE GARAGES	50
FIRE ESCAPES	40
GUARDS AND HANDRAILS	200 (pounds, concentrated)

COMPONENT AND CLADDING LOADS, INCLUDING THOSE FOR DOORS AND WINDOWS, SHALL BE DERIVED FROM TABLES R301.2(2) AND R301.2(3) FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 35 FEET, LOCATED IN EXPOSURE B.

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BRG	BEARING
BSMT	BASEMENT
CANT	CANTILEVER
CJ	CEILING JOIST
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
D	CLOTHES DRYER
DBL	DOUBLE
DIAM	DIAMETER
DJ	DOUBLE JOIST
DN	DOWN
DP	DEEP
DR	DOUBLE RAFTER
DSP	DOUBLE STUD POCKET
EA	EACH
EE	EACH END
EQ	EQUAL
EX	EXTERIOR
FAU	FORCED-AIR UNIT
FDN	FOUNDATION
FF	FINISHED FLOOR
FLR	FLOOR(ING)
FP	FIREPLACE
FTG	FOOTING
HB	HOSE BIBB
HDR	HEADER
HGR	HANGER
JS	JACK STUD COLUMN
KS	KING STUD COLUMN
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH	MECHANICAL
MFTR	MANUFACTURER
MIN	MINIMUM
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
PT	PRESSURE TREATED
R	RISER
REF	REFRIGERATOR
RFG	ROOFING
RO	ROUGH OPENING
RS	ROOF SUPPORT
SC	STUD COLUMN
SF	SQUARE FOOT (FEET)
SH	SHELF / SHELVES
SHTG	SHEATHING
SHW	SHOWER
SIM	SIMILAR
SJ	SINGLE JOIST
SP	STUD POCKET
SPEC'D	SPECIFIED
SQ	SQUARE
T	TREAD
TEMP	TEMPERED GLASS
THK	THICK(NESS)
TJ	TRIPLE JOIST
TOC	TOP OF CURB / CONCRETE
TR	TRIPLE RAFTER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W	CLOTHES WASHER
WH	WATER HEATER
WWF	WELDED WIRE FABRIC
XJ	EXTRA JOIST

MATERIALS

1. INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

   Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

   Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI

3. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

   Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

4. PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

   Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI

5. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

   Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI

6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI

7. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.

8. POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.

9. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2.

10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES* AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES*.

11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD C270.

12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.

13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

FOUNDATION

1. MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.

2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.

3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES* AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/602: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES*.

4. CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3 AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.

   A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
   B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.

5. PLAIN-MASONRY WALL DESIGN TO BE PER TABLE R404.1.1(1) OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.

   A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
   B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
   C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.

6. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE SECTION R403.1.6 FOR SPECIFIC CONDITIONS.

7. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.

8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS.

9. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).

10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.

11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.

12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

FRAMING

1. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.

2. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.

3. NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.

4. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.

5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.

6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

7. PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED LUMBER.
   A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA, ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
   B. ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
   C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND DETAILS.

8. ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.

9. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
   A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
   B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
   C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
   D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.

10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.

11. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.

12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.

13. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).

14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.

16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.

NORTH CAROLINA PROFESSIONAL SEAL 045403 ENGINEER CHARLES E. TEAL 3/23/21

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CLIENT: MCKEE HOMES

PROJECT: TUCKER 2020 - LEFT HAND

LOCATION: NORTH CAROLINA

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO.: 20900409

DATE: 03/23/2021

DRAWN BY: AWC

GENERAL NOTES

GN1.0

FASTENER SCHEDULE

CONNECTION	3" x 0.131" NAIL	3" x 0.120" NAIL
JOIST TO SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
SOLE PLATE TO JOIST / BLOCKING	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)
STUD TO SOLE PLATE	(4) TOE NAILS	(4) TOE NAILS
TOP OR SOLE PLATE TO STUD	(3) FACE NAILS	(4) FACE NAILS
RIM JOIST OR BAND JOIST TO TOP PLATE OR SILL PLATE	TOE NAILS @ 6" OC	TOE NAILS @ 4" OC
BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
DOUBLE STUD	NAILS @ 8" OC	NAILS @ 8" OC
DOUBLE TOP PLATES	NAILS @ 12" OC	NAILS @ 12" OC
DOUBLE TOP PLATES LAP (24" MIN LAP LENGTH)	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT
TOP PLATE LAP AT CORNERS AND INTERSECTING WALLS	(3) FACE NAILS	(3) FACE NAILS
OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE (PARALLEL TO WALL)	NAILS @ 6" OC	NAILS @ 4" OC
BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE (PERPENDICULAR TO WALL)	(3) TOE NAILS	(3) TOE NAILS

SEE TABLE R602.3(1) FOR ADDITIONAL STRUCTURAL-MEMBER FASTENING REQUIREMENTS.

DETAILS AND NOTES ON DRAWINGS GOVERN.

BALLOON WALL FRAMING SCHEDULE
(USE THESE STANDARDS UNLESS NOTED OTHERWISE ON THE FRAMING PLAN SHEETS)

FRAMING MEMBER SIZE	MAX HEIGHT (PLATE TO PLATE) 115 MPH ULTIMATE DESIGN WIND SPEED
2x4 @ 16" OC	10'-0"
2x4 @ 12" OC	12'-0"
2x6 @ 16" OC	15'-0"
2x6 @ 12" OC	17'-9"
2x8 @ 16" OC	19'-0"
2x8 @ 12" OC	22'-0"
(2) 2x4 @ 16" OC	14'-6"
(2) 2x4 @ 12" OC	17'-0"
(2) 2x6 @ 16" OC	21'-6"
(2) 2x6 @ 12" OC	25'-0"
(2) 2x8 @ 16" OC	27'-0"
(2) 2x8 @ 12" OC	31'-0"

a. ALL HEIGHTS ARE MEASURED SUBFLOOR TO TOP OF WALL PLATE.

b. WHEN SPLIT-FRAMED WALLS ARE USED FOR HEIGHTS OVER 12', THE CONTRACTOR SHALL ADD 6' MINIMUM OF CS16 COIL STRAPPING (FULLY NAILED), CENTERED OVER THE WALL BREAK.

c. FINGER-JOINTED MEMBERS MAY BE USED FOR CONTINUOUS HEIGHTS WHERE TRADITIONALLY MILLED LUMBER LENGTHS ARE LIMITED.

d. FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR CONDITION IN DRAWINGS.

ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

1. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
2. DENOTES OVER-FRAMED AREA
3. MINIMUM 7/16" OSB ROOF SHEATHING
4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
7. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

STICK-FRAMED ROOF - STRUCTURAL NOTES

1. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
2. FUR RIDGES FOR FULL RAFTER CONTACT.
3. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
4. DENOTES OVER-FRAMED AREA
5. MINIMUM 7/16" OSB ROOF SHEATHING
6. PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
7. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
8. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

BRICK VENEER LINTEL SCHEDULE

SPAN	STEEL ANGLE SIZE	END BEARING LENGTH
UP TO 42"	L3-1/2"x3-1/2"x1/4"	8" (MIN. @ EACH END)
UP TO 72"	L6"x4"x5/16"* (LLV)	8" (MIN. @ EACH END)
OVER 72"	L6"x4"x5/16"* (LLV) ATTACH LINTEL w/ 1/2" THRU BOLT @ 12" OC, 3" FROM EACH END	

* FOR QUEEN BRICK: LINTELS AT THIS CONDITION MAY BE 5"x3-1/2"x5/16"

NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4" STEEL ANGLE WITH 16D NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" OC TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3"x3"x1/4" PLATES SHALL BE WELDED AT 24" OC ALONG THE STEEL ANGLE.

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3/23/21

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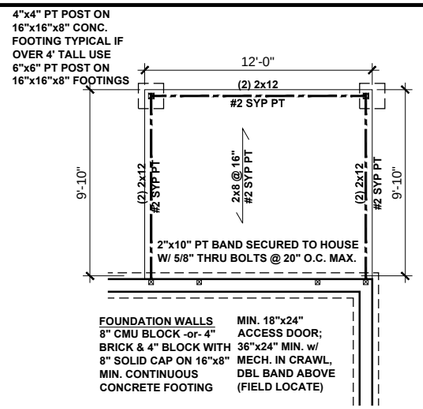
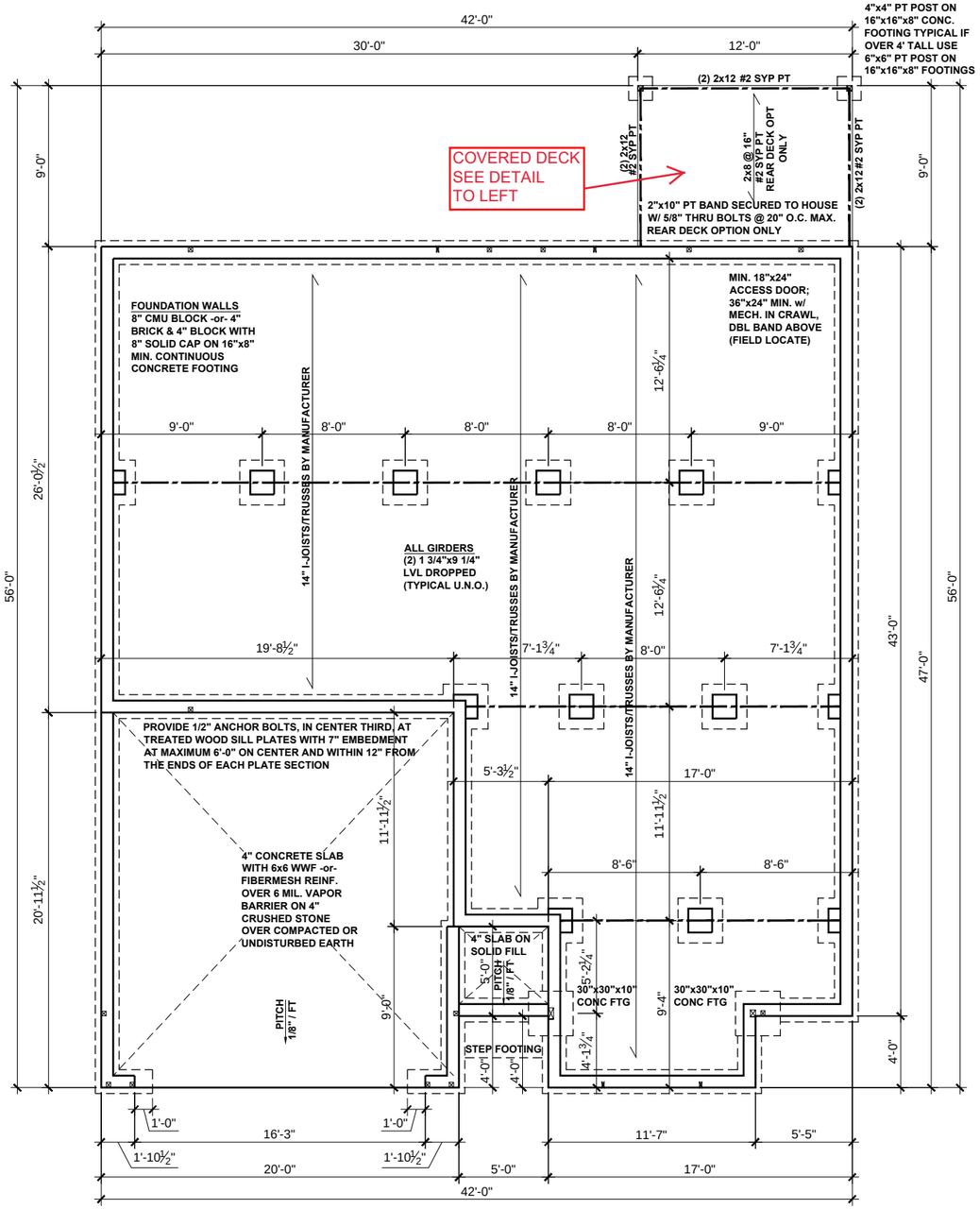
GENERAL NOTES

GN1.1



OPTIONAL COVERED/SCREENED REAR PATIO/DECK



CRAWLSPACE FOUNDATION PLAN - CLASSIC

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

BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- ROOF RAFTER / TRUSS SUPPORT
- DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- ⊠ POINT LOAD TRANSFER
- ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

CRAWL SPACE VENTILATION

THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDERFLOOR SPACE AREA, AND ONE SUCH OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.

EXCEPTION: THE TOTAL AREA OF VENTILATION MAY BE REDUCED TO 1/1500 OF THE UNDERFLOOR AREA WHERE THE GROUND SURFACE IS TREATED WITH AN APPROVED VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION.

703 SQUARE FEET OF TOTAL CRAWL SPACE / 150 =

4.7 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

****REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES**

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING -OR- FLOOR FRAMING TO BE 14" DEEP FLOOR TRUSSES, 24" OC MAXIMUM SPACING

FOUNDATION STRUCTURAL NOTES:

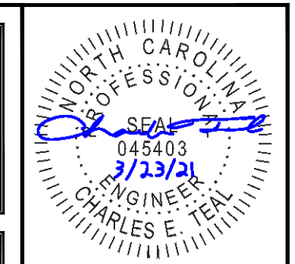
1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE	HOLLOW MASONRY	SOLID MASONRY
8 X16	UP TO 32" HIGH	UP TO 5'-0" HIGH
12X16	UP TO 48" HIGH	UP TO 9'-0" HIGH
16X16	UP TO 64" HIGH	UP TO 12'-0" HIGH
24X24	UP TO 96" HIGH	

WITH 30" X 30" X 10 CONCRETE FOOTING, UNO.

CONCRETE SLAB REINFORCING SUBSTITUTION OF SYNTHETIC FIBER MIX IN LIEU OF WWF IN NON STRUCTURAL SLABS:

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING
- NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE BEAMS UNLESS A REBAR MAT IS INSTALLED
- NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN FOUND TO BE EXPANSIVE SOILS ON SITE
- NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A 4" BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION
- NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS



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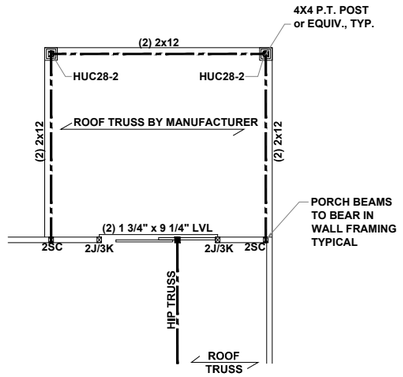
CRAWL SPACE FOUNDATION PLAN

S0.9B



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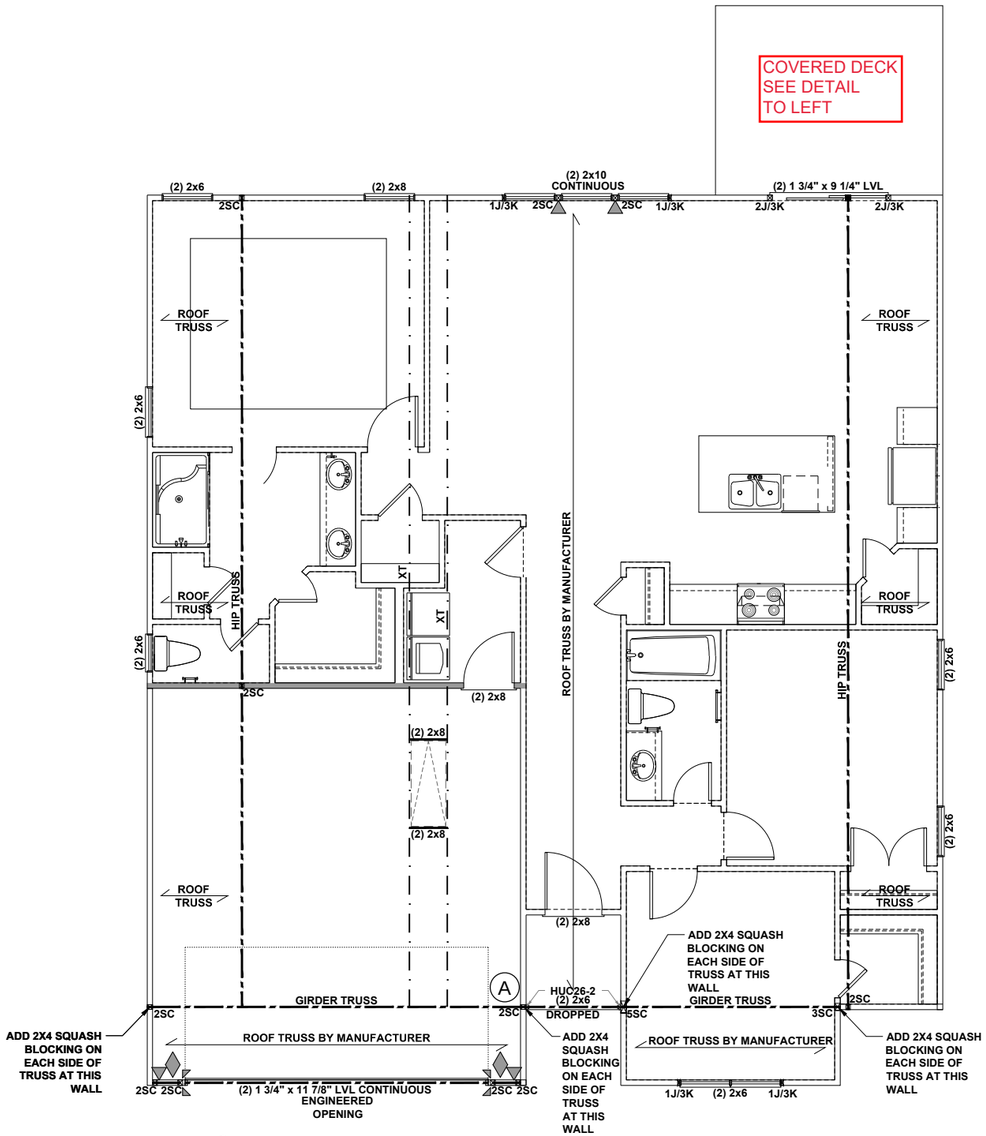
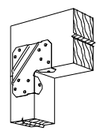
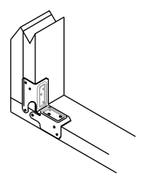




LCE4 BRACING CON.
NTS

- LCE4 CLIP TO HEADER JACK CONNECTION AND KBS1Z CLIP AT THE JACK BOTTOM PLATE CONNECTION
- CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MIN.
- SIMPSON HTT4 HOLD DOWN FOR ATTACHMENT TO CONCRETE OR MSTA18 STRAP FOR WOOD CONNECTIONS.



KBS1Z BRACING CON.
NTS

FIRST FLOOR CEILING FRAMING PLAN - CLASSIC

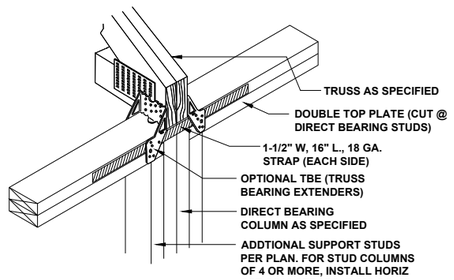
SCALE: 1/8" = 1'-0"

BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- ROOF RAFTER / TRUSS SUPPORT
- DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- ⊠ POINT LOAD TRANSFER
- ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

1. ALL FRAMING TO BE #2 SPF MINIMUM.
2. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
4. ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
5. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
6. ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
8. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
10. PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
11. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
12. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).



A DIRECT BEARING
TRUSS NTS

NORTH CAROLINA PROFESSIONAL SEAL 045403 ENGINEER CHARLES E. TEAL 3/23/21

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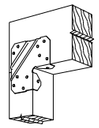
FIRST FLOOR CEILING FRAMING PLAN

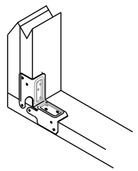
S1.0B



LCE4 BRACING CON.

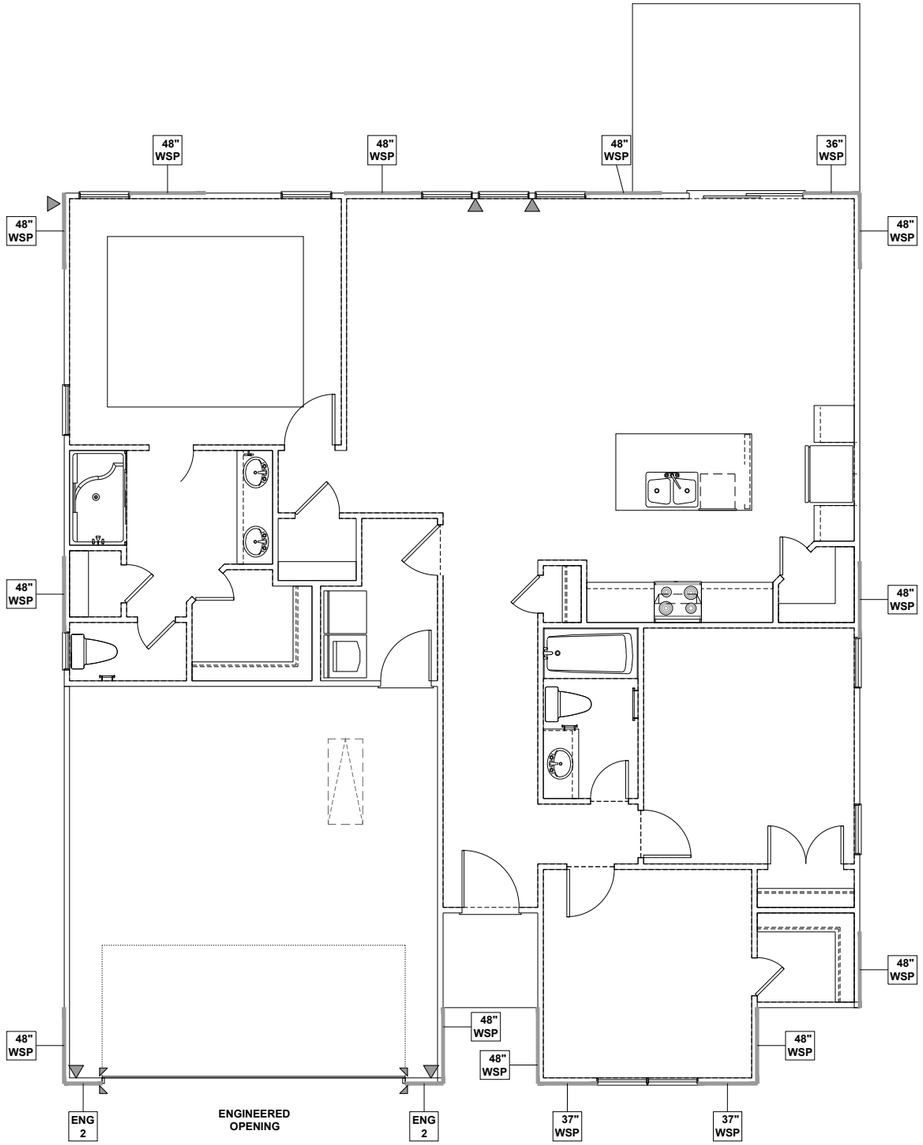
NTS

- LCE4 CLIP TO HEADER JACK CONNECTION AND KBS1Z CLIP AT THE JACK BOTTOM PLATE CONNECTION
- CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MIN.
- SIMPSON HTT4 HOLD DOWN FOR ATTACHMENT TO CONCRETE OR MSTA18 STRAP FOR WOOD CONNECTIONS.



KBS1Z BRACING CON.

NTS



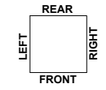
FIRST FLOOR WALL BRACING PLAN - CLASSIC

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

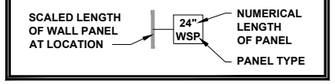
LAYOUTS AND SPECIFICATIONS FOR ULTIMATE WIND SPEEDS LESS THAN 130 MPH ONLY

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



- CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM
- SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED w/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.



ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

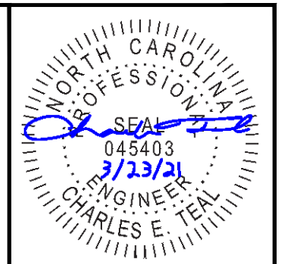
ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	7.2 FT.	N/A
RIGHT	6.4 FT.	16.0 FT.
REAR	7.2 FT.	11.0 FT.
LEFT	6.4 FT.	12.0 FT.



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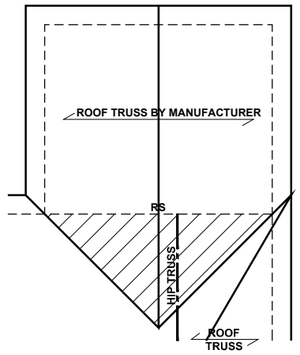
FIRST FLOOR WALL BRACING PLAN

S3.0B



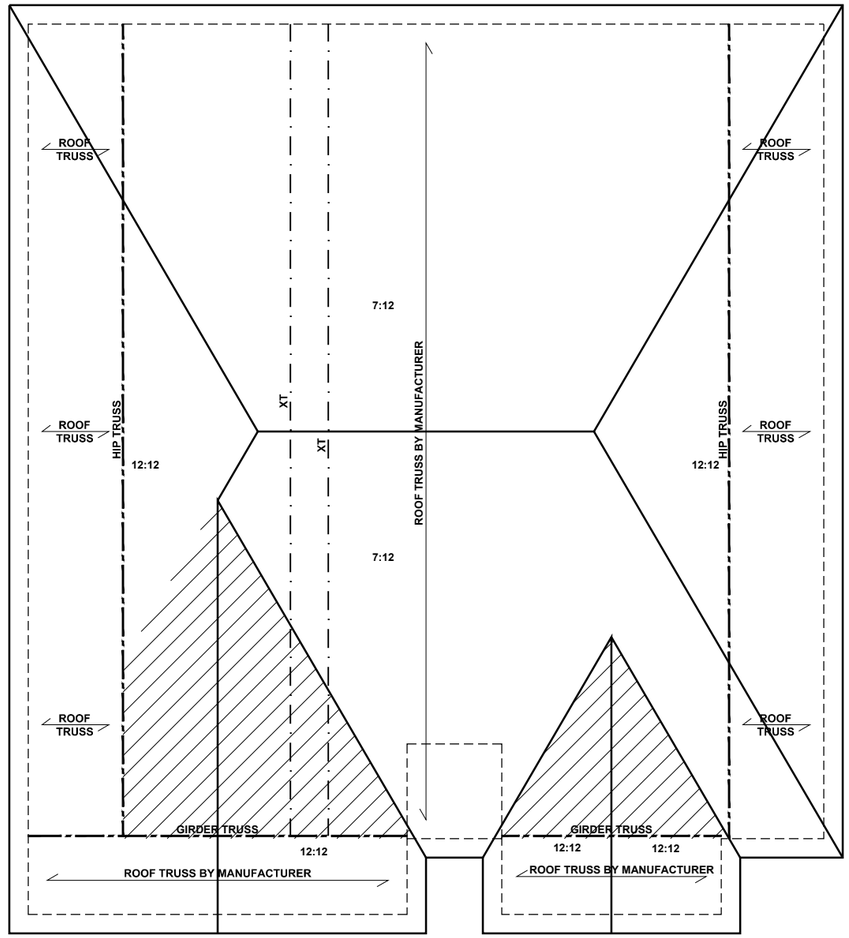
OPTIONAL COVERED/SCREENED REAR PATIO/DECK

ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

+120	SQUARE FEET OF TOTAL ATTIC / 150 =
+.8	SQUARE FEET OF NET-FREE VENTILATION REQUIRED

COVERED DECK SEE DETAIL TO LEFT



ROOF FRAMING PLAN - CLASSIC

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

BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- ROOF RAFTER / TRUSS SUPPORT
- DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- ⊠ POINT LOAD TRANSFER
- ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

1. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
2. DENOTES OVER-FRAMED AREA
3. MINIMUM 7/16" OSB ROOF SHEATHING
4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
7. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

1,932	SQUARE FEET OF TOTAL ATTIC / 150 =
12.9	SQUARE FEET OF NET-FREE VENTILATION REQUIRED

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN	CONNECTOR
UP TO 28'	NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION
OVER 28'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM
	OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE

NORTH CAROLINA PROFESSIONAL SEAL 045403 ENGINEER CHARLES E. TEAL 3/23/21

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CLIENT: MCKEE HOMES

PROJECT: TUCKER 2020 - LEFT HAND

LOCATION: NORTH CAROLINA

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

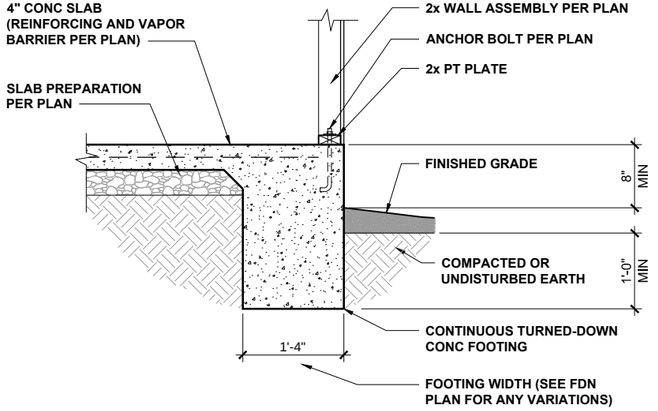
PROJECT NO.: 20900409

DATE: 03/23/2021

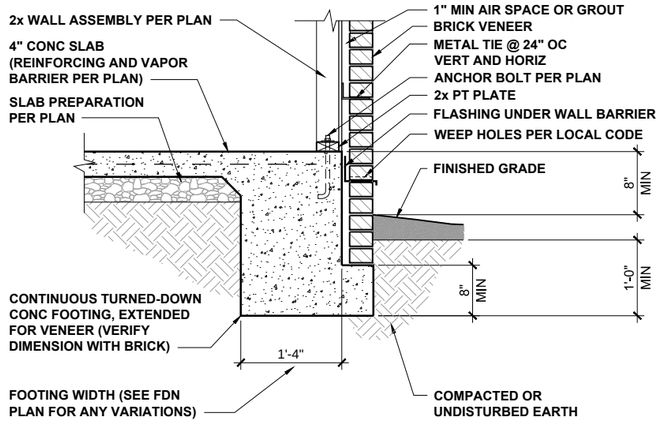
DRAWN BY: AWC

ROOF FRAMING PLAN

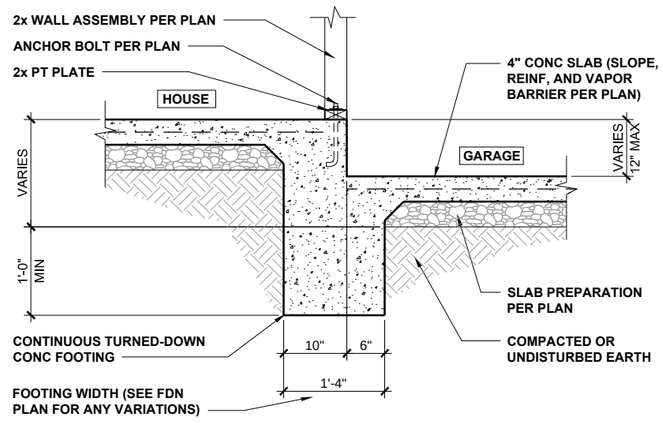
S5.0B



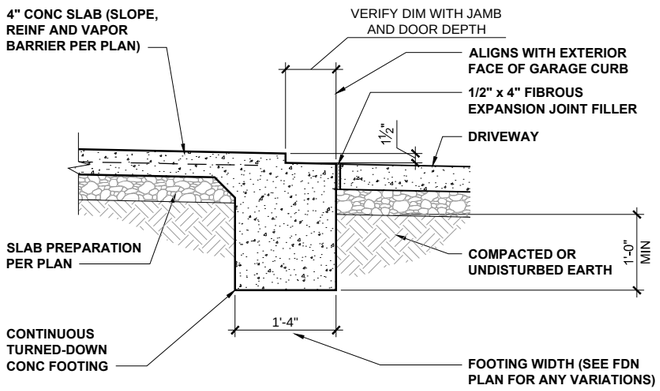
TURNED-DOWN CONC SLAB FOOTING | 1/2" = 1'-0" | 1



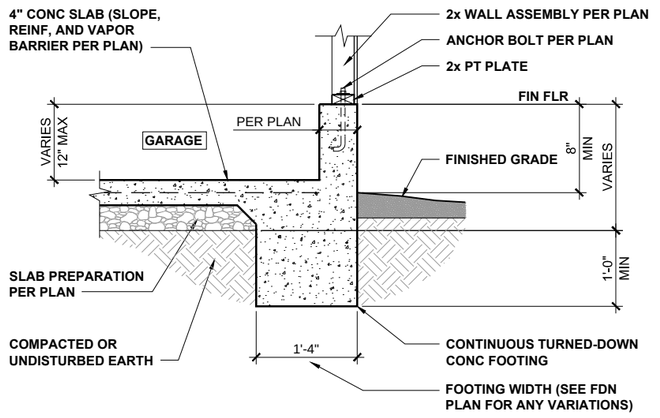
TURNED-DOWN FOOTING w/ BRICK | 1/2" = 1'-0" | 2



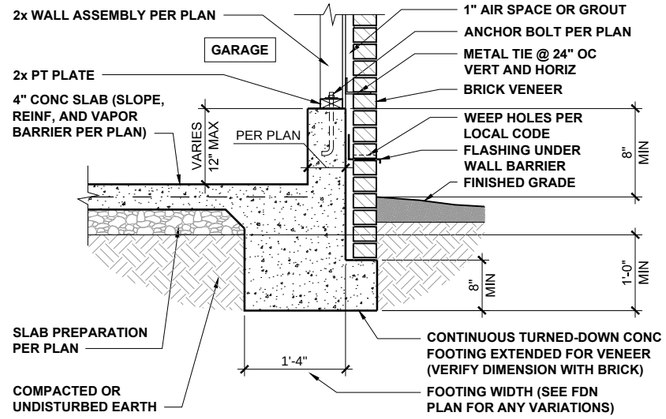
HOUSE / GARAGE FOOTING | 1/2" = 1'-0" | 3



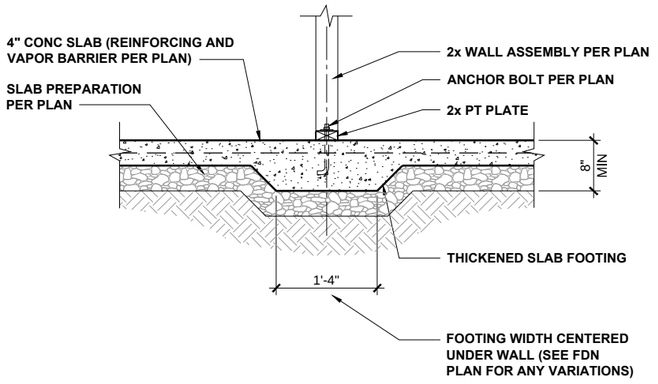
GARAGE DOORWAY FOOTING | 1/2" = 1'-0" | 4



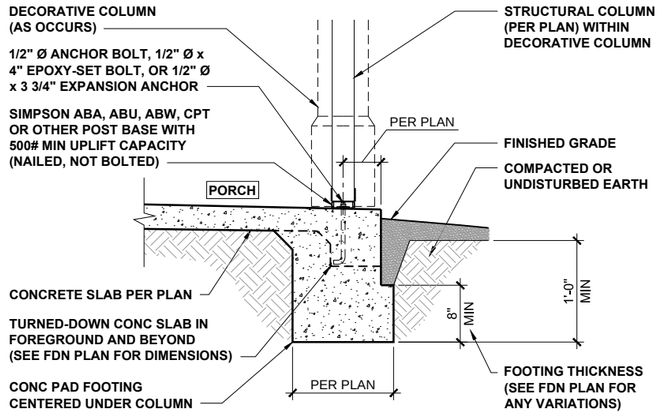
GARAGE FOUNDATION | 1/2" = 1'-0" | 5



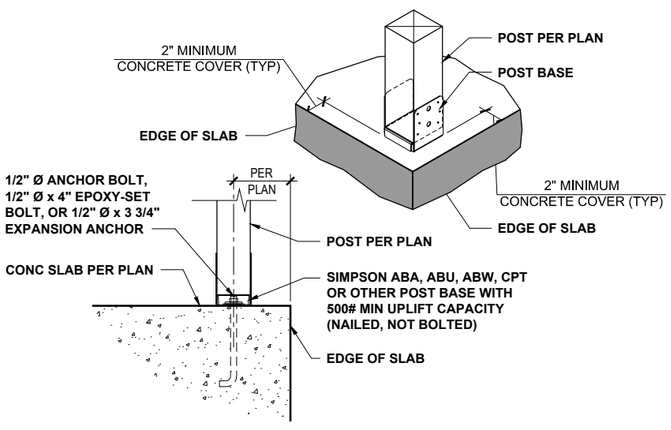
GARAGE FOUNDATION WITH BRICK | 1/2" = 1'-0" | 6



INTERIOR FOOTING | 1/2" = 1'-0" | 7



PORCH COLUMN FOUNDATION | 1/2" = 1'-0" | 8



PORCH COLUMN | 3/4" = 1'-0" | 9

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PROJECT NO.: 20900409

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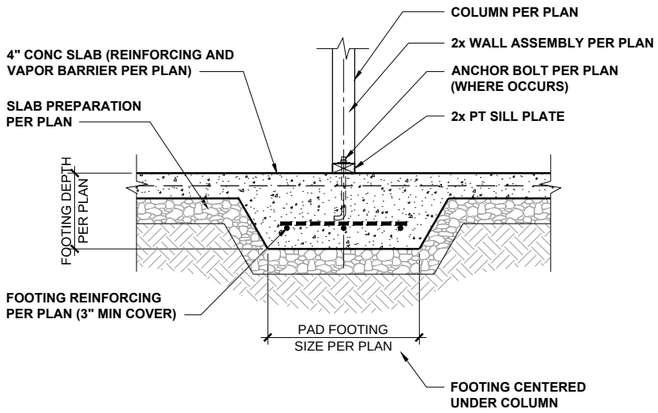
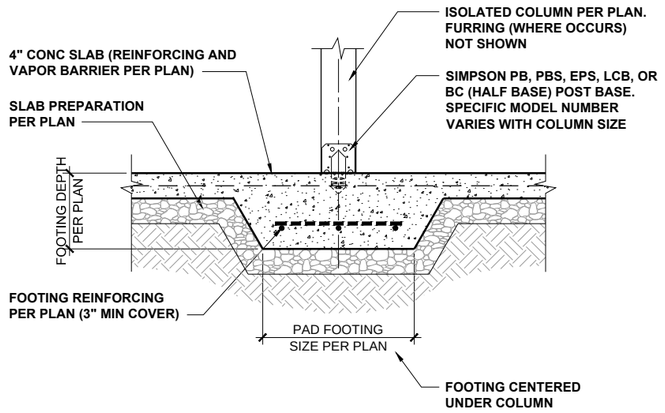
DRAWN BY: AWC

TURNED-DOWN SLAB FOUNDATION DETAILS

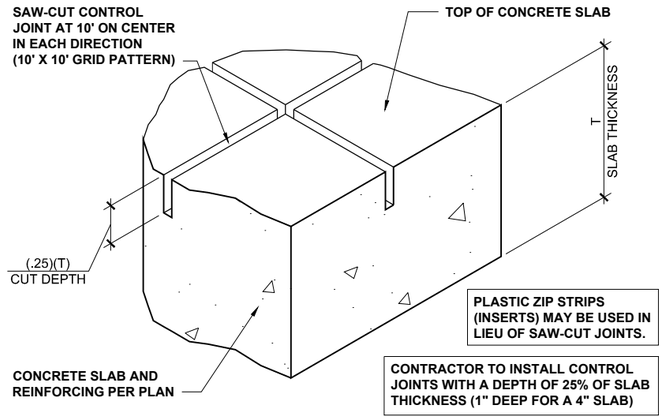
D1.0



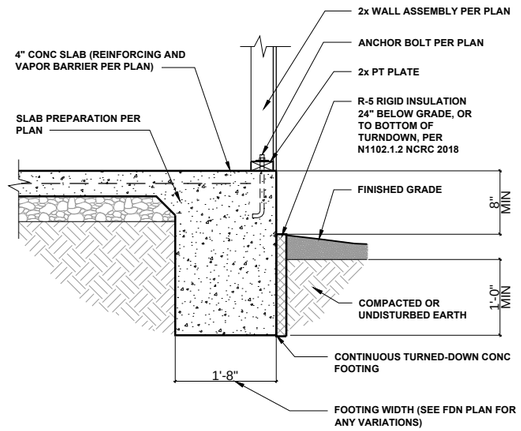
INT POINT-LOAD FOOTING SECTION | 1/2" = 1'-0" | 1



ISOLATED COLUMN FOOTING | 1/2" = 1'-0" | 2



CONCRETE SLAB CONTROL JOINTS | 3" = 1'-0" | 3



TURNDOWN SLAB DEATIL W/ INSULATION | 1/4" = 1'-0" | 4

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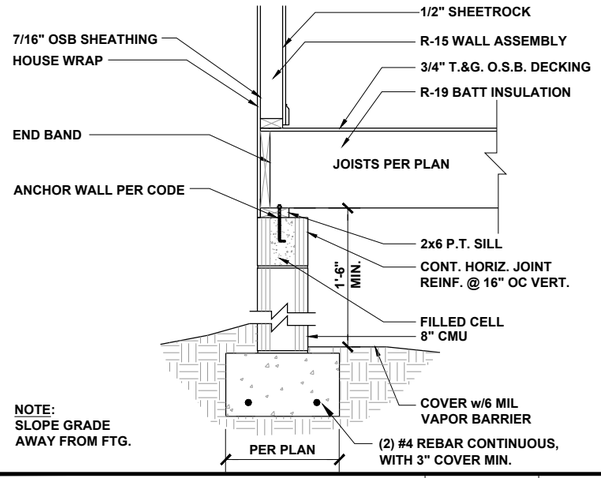
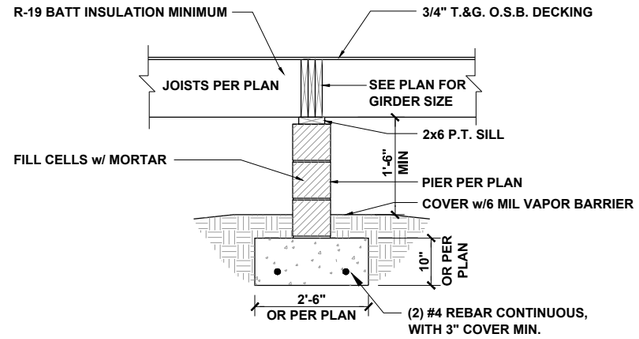
TURNED-DOWN SLAB FOUNDATION DETAILS

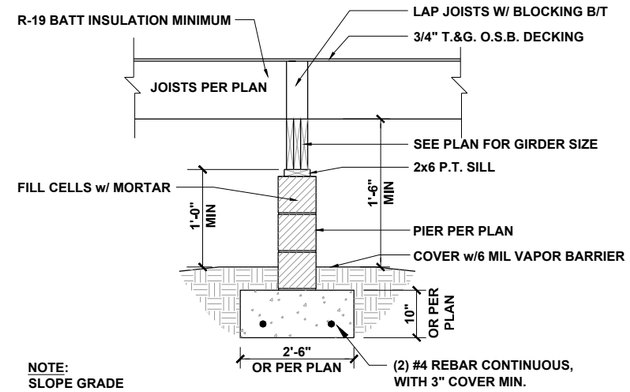
D2.0



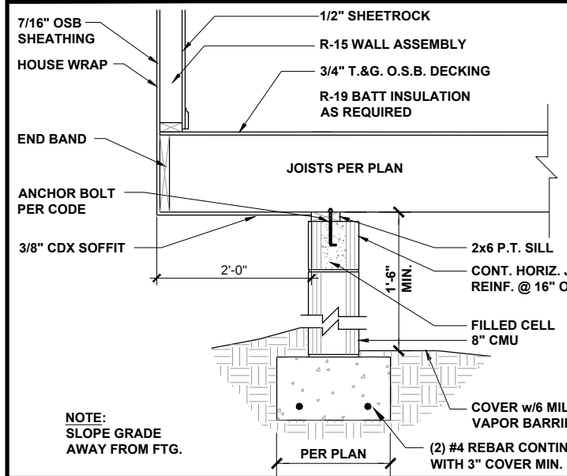
CRAWL AT EXTERIOR WALL | 1/2" = 1'-0" | 1 or 2



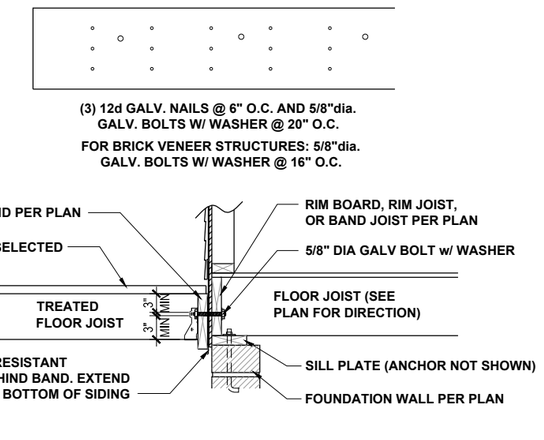
FLUSH PIER AND GIRDER | 3/8" = 1'-0" | 3.1



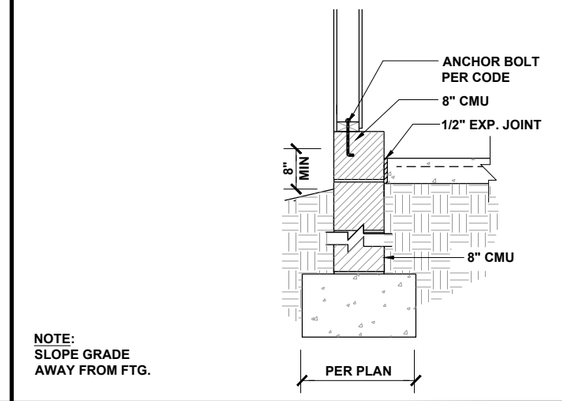
DROPPED PIER AND GIRDER | 3/8" = 1'-0" | 3



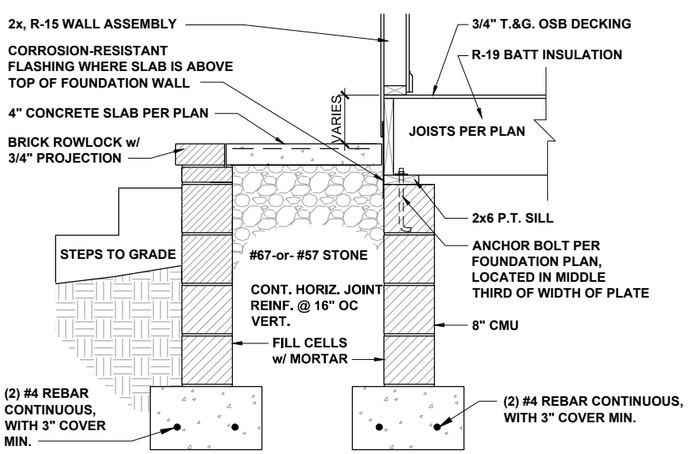
CANTILEVER SECTION AT CRAWL | 1/2" = 1'-0" | 4



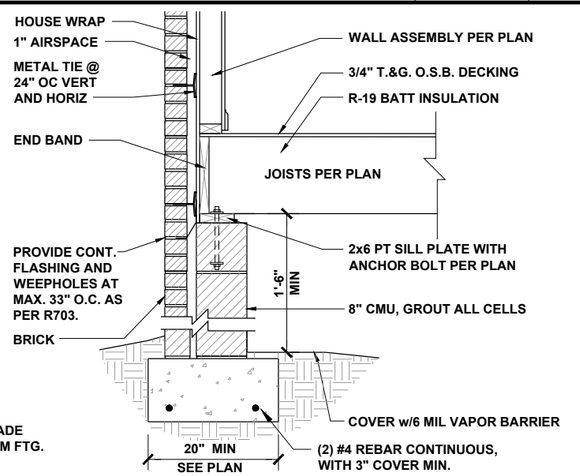
DECK ATTACHMENT | 1/2" = 1'-0" | 5



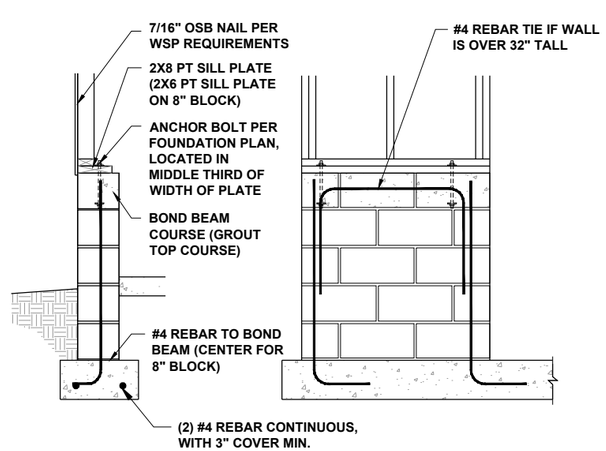
GARAGE FOUNDATION | 1/2" = 1'-0" | 6



FRONT PORCH SECTION | 1/2" = 1'-0" | 7



CRAWL AT EXT WALL W/ BRICK | 1/2" = 1'-0" | 8



GARAGE WING WALL | 3/8" = 1'-0" | 9

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3/23/21

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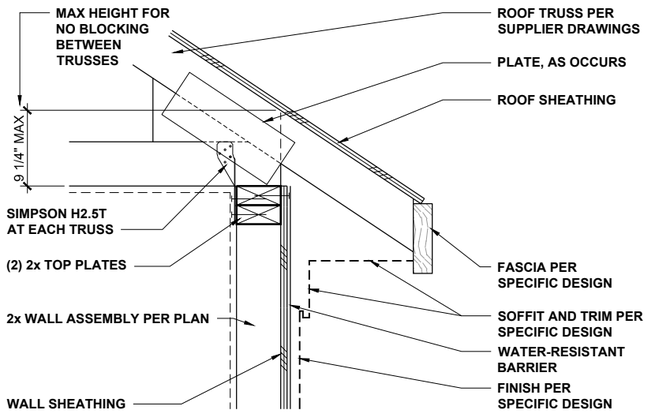
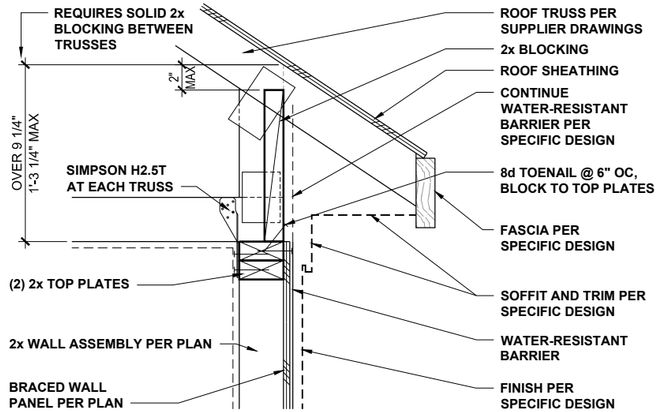
DRAWN BY: AWC

CRAWL SPACE FOUNDATION DETAILS

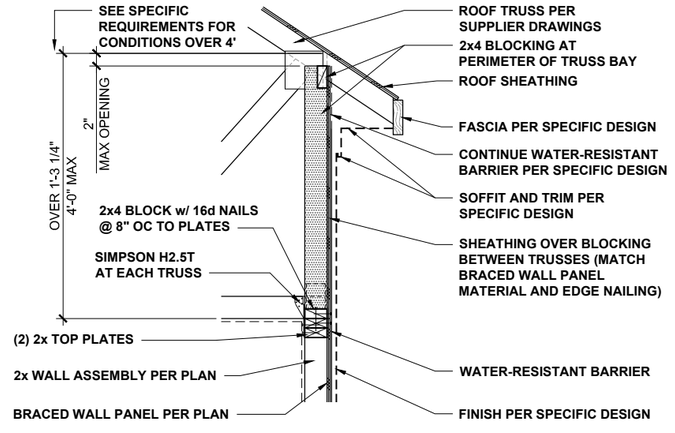
D3.0



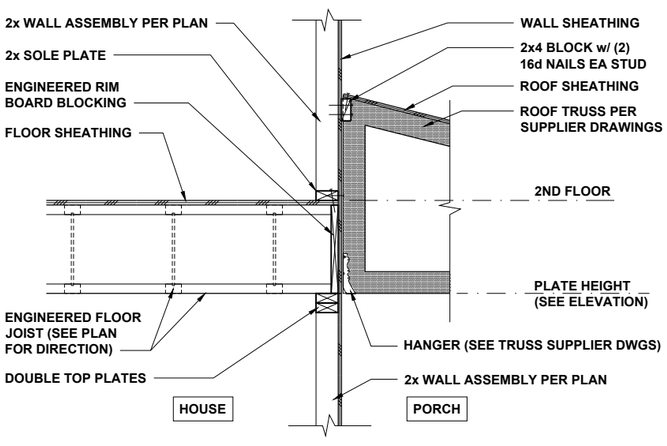
LOW-HEEL TRUSS AT WALL | 1" = 1'-0" | 1



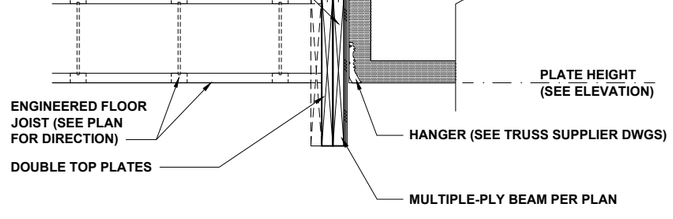
TYPICAL TRUSS AT BRACED WALL | 1" = 1'-0" | 2



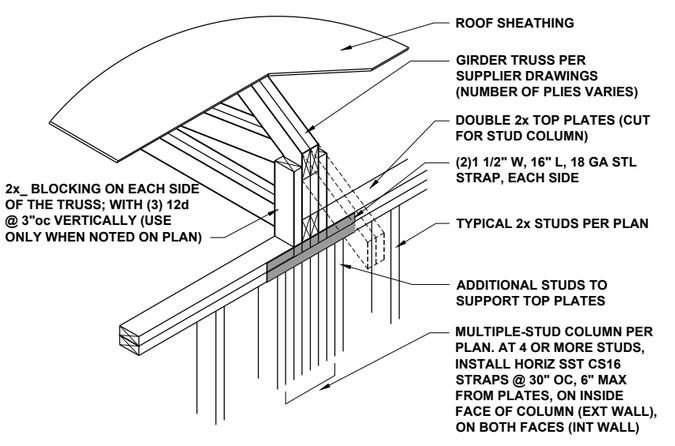
HIGH-HEEL TRUSS AT BRACED WALL | 1/2" = 1'-0" | 3



END TRUSS AT WALL | 1" = 1'-0" | 4



TRUSS AT BEAM AND WALL | 1/2" = 1'-0" | 5



TRUSS AT FLOOR AND WALL | 1/2" = 1'-0" | 6

TRUSS AT FLOOR AND WALL | 1/2" = 1'-0" | 7

TRUSS AT BEAM AND WALL | 1/2" = 1'-0" | 8

GIRDER TRUSS AT WALL | 1/2" = 1'-0" | 9

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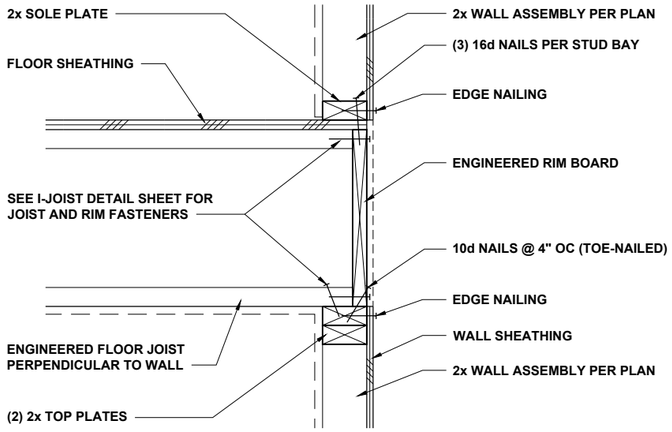
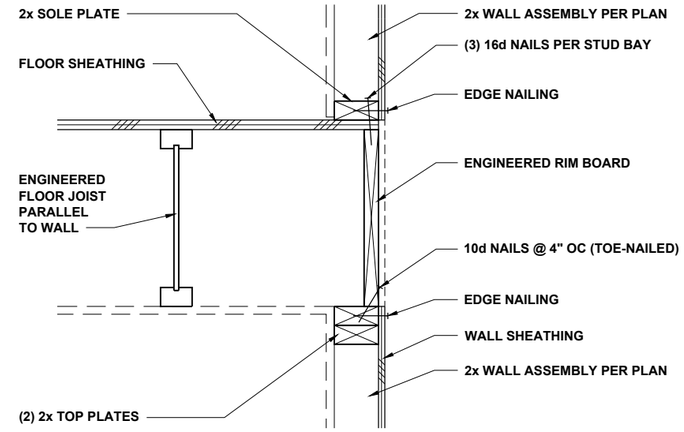
ROOF TRUSS FRAMING DETAILS

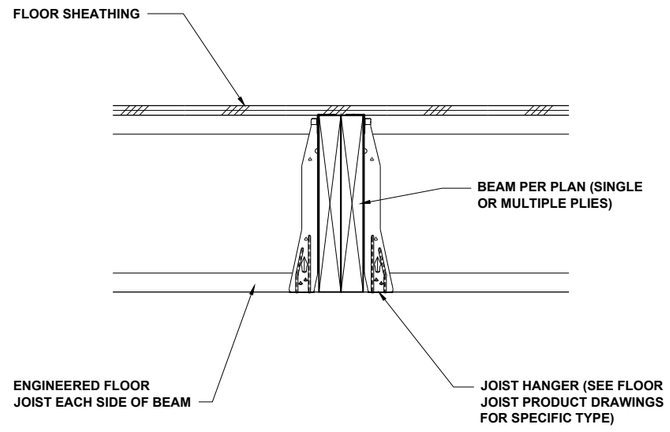
D4.0



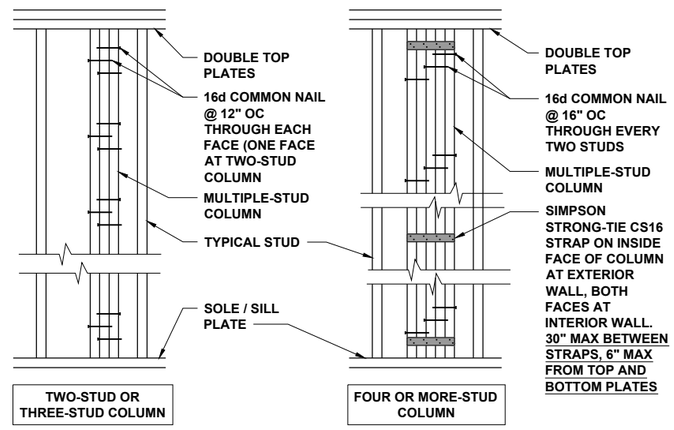
FLOOR JOISTS PERP TO WALL | 1" = 1'-0" | 1



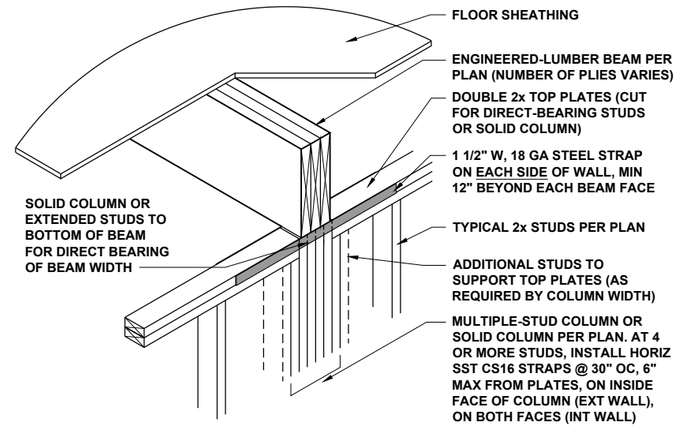
FLOOR JOISTS PARALLEL TO WALL | 1" = 1'-0" | 2



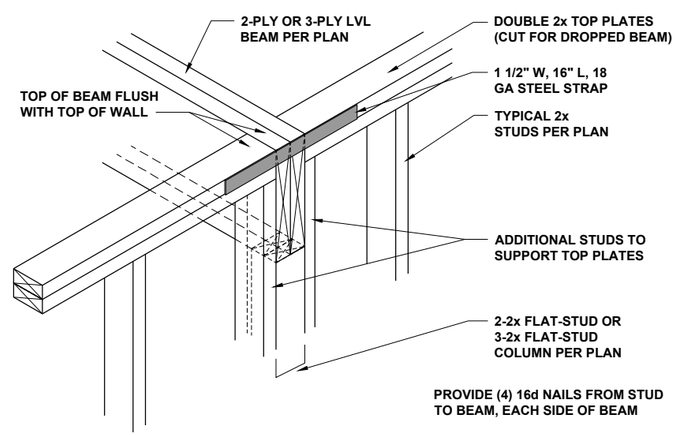
FLOOR JOISTS AT FLUSH BEAM | 3/4" = 1'-0" | 3



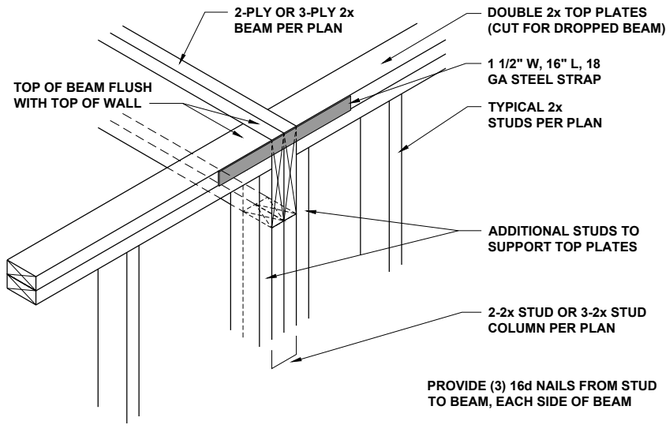
MULTIPLE-STUD COLUMN FASTENING | 1/2" = 1'-0" | 4



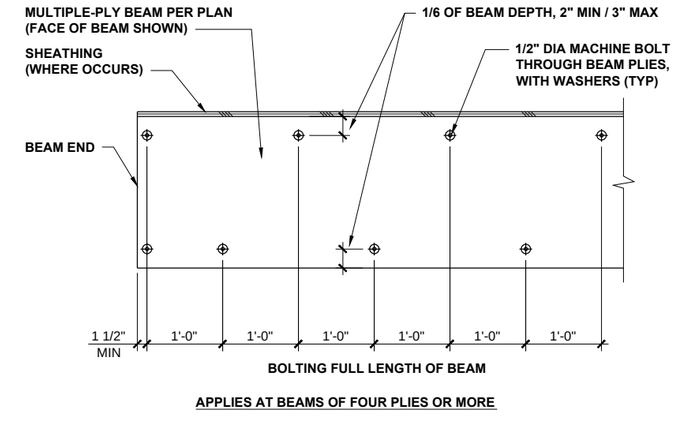
FLUSH BEAM AT WALL | 1/2" = 1'-0" | 5



DROPPED LVL BEAM AT WALL | 3/4" = 1'-0" | 6



DROPPED 2x BEAM AT WALL | 3/4" = 1'-0" | 7



MULTIPLE-PLY BEAM BOLTING | 1/2" = 1'-0" | 8

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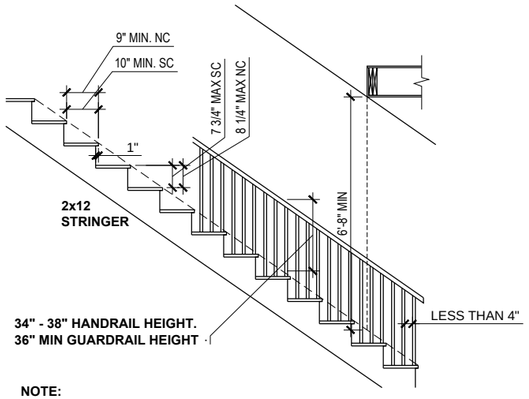
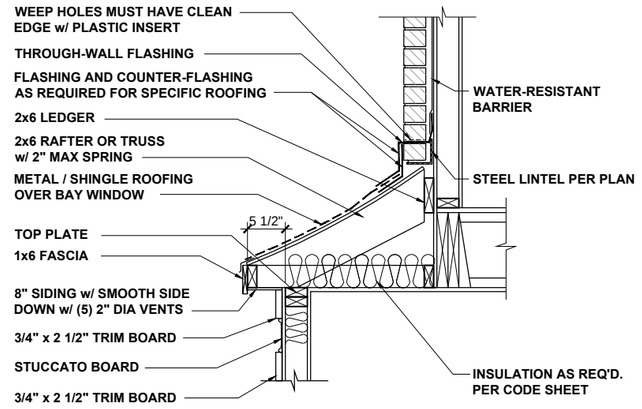
MISCELLANEOUS FRAMING DETAILS

D5.0

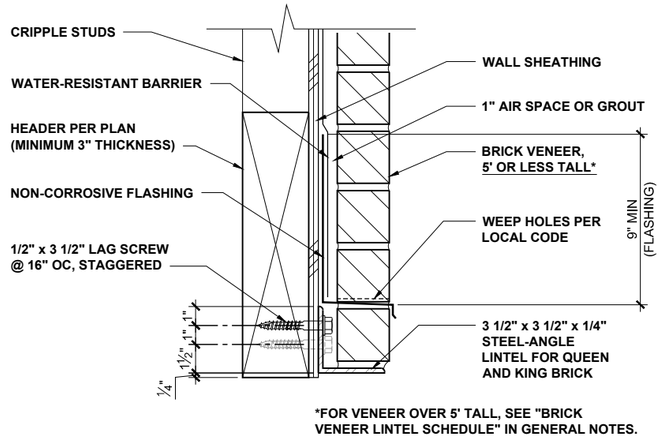


NOTE:
EACH TREAD AND RISER MUST BE UNIFORM,
WITH NO MORE THAN 3/8" MAXIMUM VARIATION.

TYPICAL STAIR REQUIREMENTS | 1/4" = 1'-0" | 1

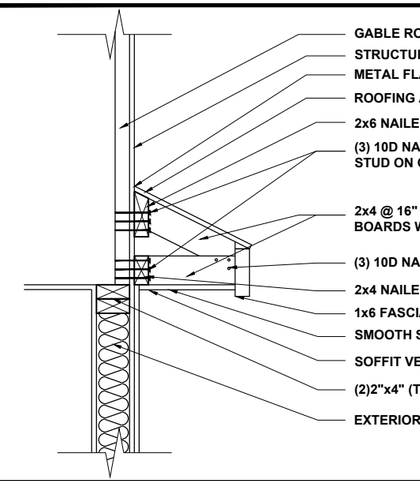


BAY ROOF | 1/2" = 1'-0" | 2

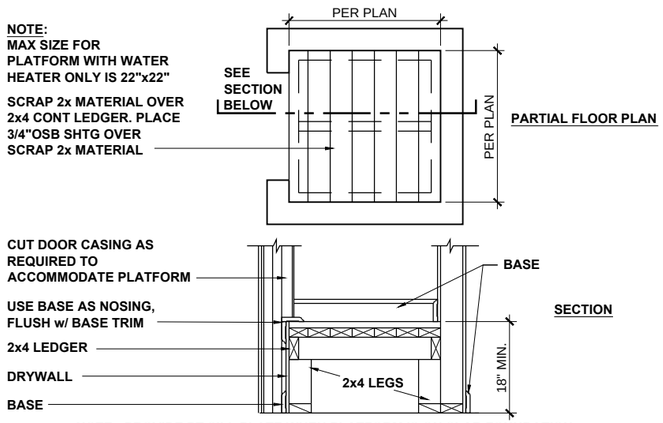


*FOR VENEER OVER 5' TALL, SEE "BRICK VENEER LINTEL SCHEDULE" IN GENERAL NOTES.

ALTERNATE LINTEL AT WIDE OPENING | 1 1/2" = 1'-0" | 3

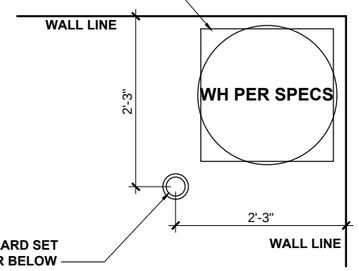


GABLE ROOF RETURN | 3/4" = 1'-0" | 4

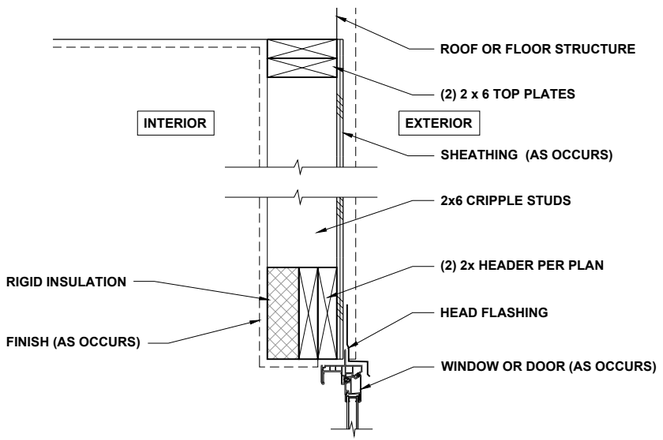


NOTE: PROVIDE PT SILL PLATE WHEN PLATFORM IS ON SLAB FOUNDATION.

HVAC / WATER HEATER CLOSET | 1/2" = 1'-0" | 5



WATER HTR PLATFORM IN GARAGE | 1/2" = 1'-0" | 6



HEADER WITH INSULATION | 1" = 1'-0" | 7

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CLIENT: MCKEE HOMES

PROJECT: TUCKER 2020 - LEFT HAND

LOCATION: NORTH CAROLINA

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

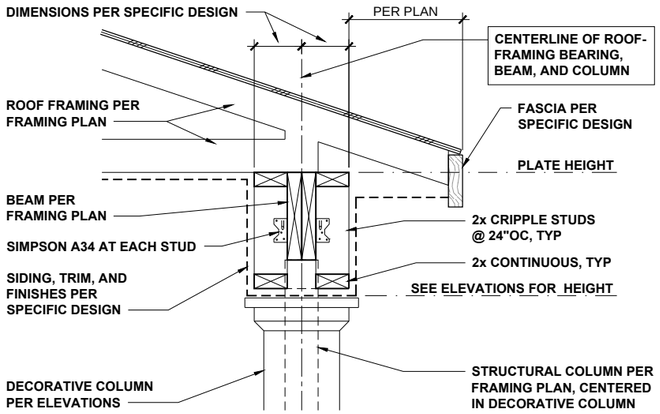
PROJECT NO.: 20900409

DATE: 03/23/2021

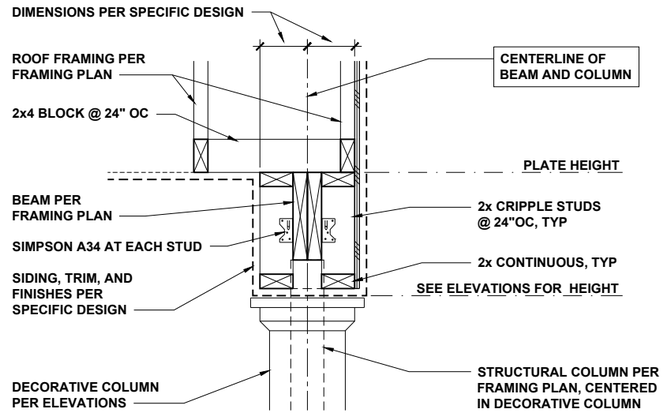
DRAWN BY: AWC

MISCELLANEOUS FRAMING DETAILS

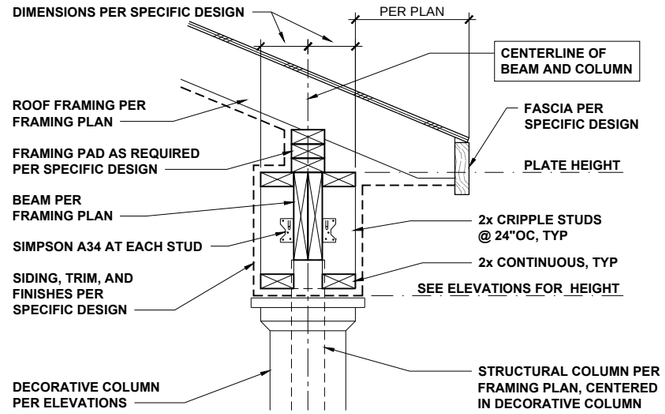
D6.0



COVERED PORCH EAVES 3/4" = 1'-0" 1



COVERED PORCH RAKE 3/4" = 1'-0" 2



COVERED PORCH WITH SLOPING CLG 3/4" = 1'-0" 3

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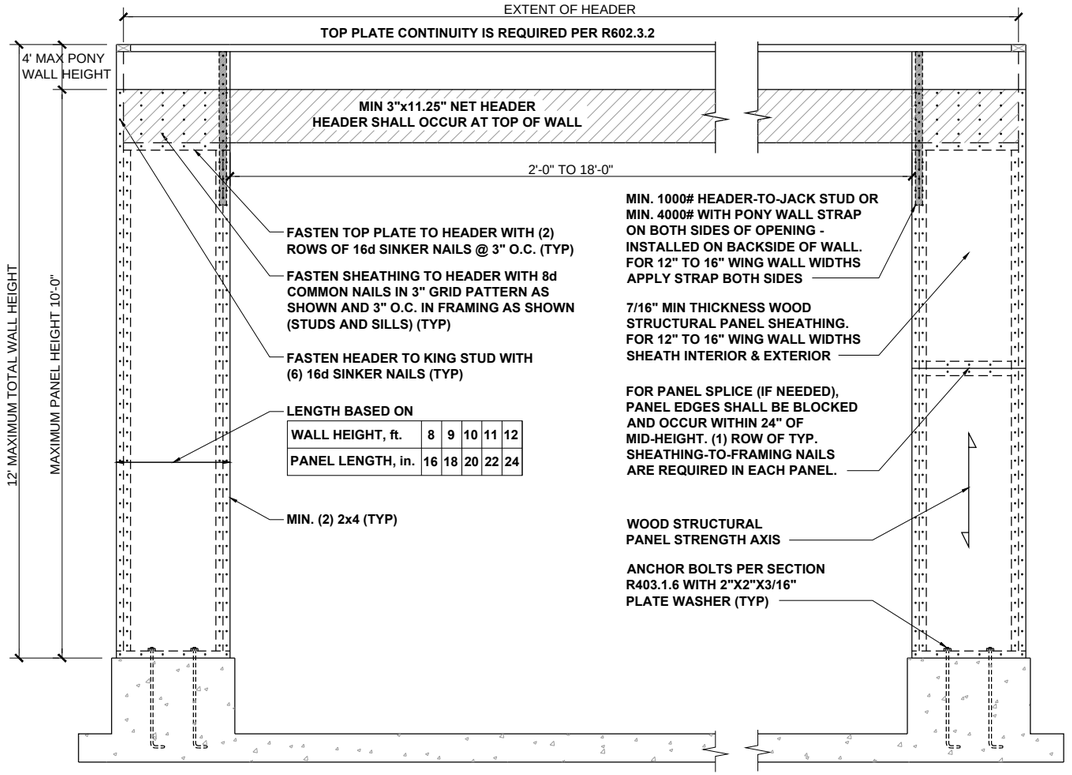
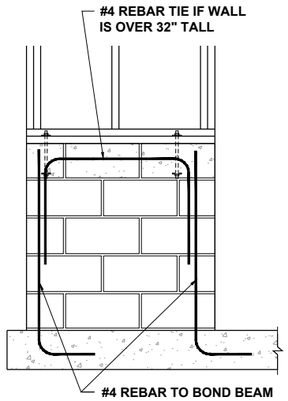
MISCELLANEOUS FRAMING DETAILS

D7.0

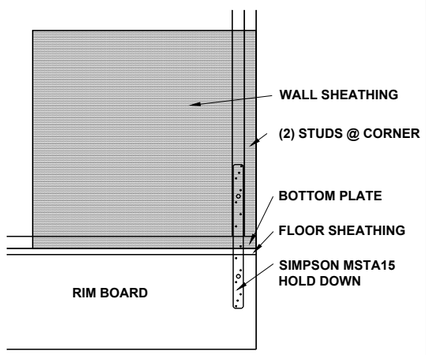


METHOD PF: PORTAL FRAME PANEL CONSTRUCTION | 3/8" = 1'-0" | 1



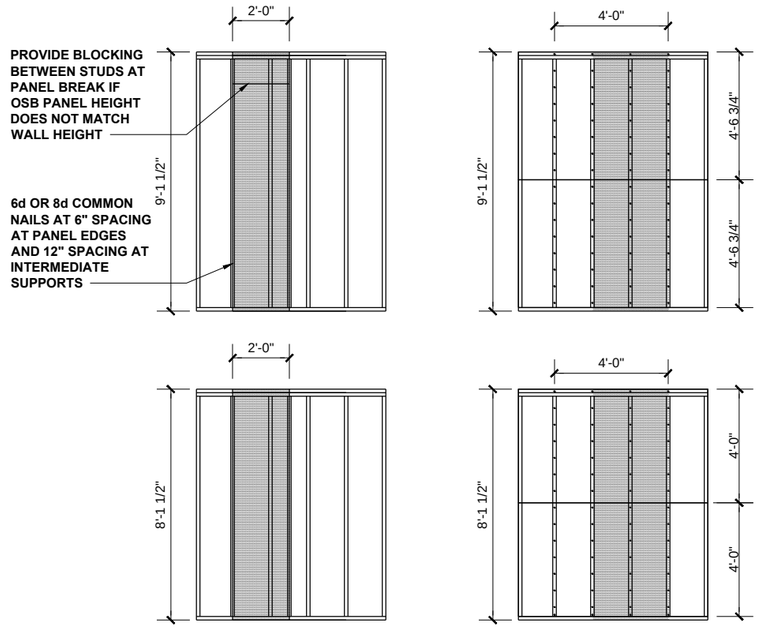
GARAGE WING WALL AT CRAWL

SEE R602.10 - MASONRY STEM WALL SUPPORTING BRACED WALL PANELS FIGURES



BRACED WALL HOLD-DOWN | NTS | 3

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL.



CS-WSP - WOOD STRUCTURAL PANEL (CONTINUOUSLY SHEATHED)

BRACED WALL PANEL 7/16" MIN. OSB SHEATHING ON ONE SIDE OF WALL. MINIMUM PANEL LENGTH 24".

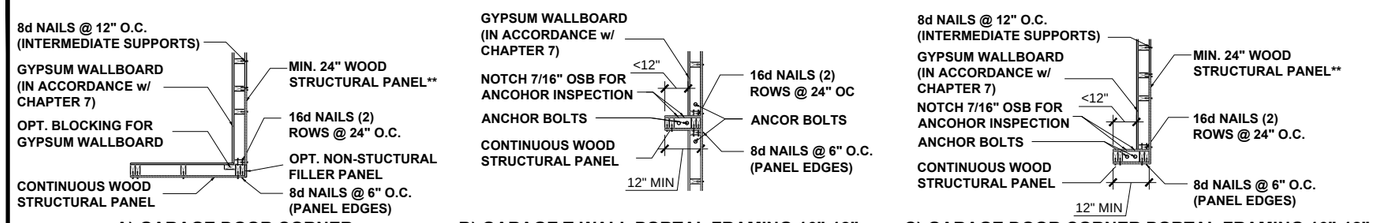
GB - GYPSUM BOARD

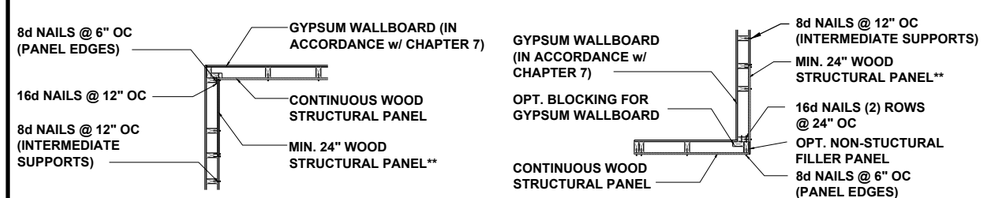
BRACED WALL PANEL 1/2" GYPSUM BOARD NAILED TO STUDS AT 7" O.C. USING 5d COOLER NAILS OR #6 SCREWS. MINIMUM PANEL LENGTH 48" WHEN APPLIED TO BOTH SIDES OF WALL AND 96" WHEN APPLIED TO ONE SIDE OF WALL.

HIGH-SPEED WIND ZONES

FOR LOCATIONS OF 130 MPH OR MORE ULTIMATE DESIGN WIND SPEED (110 MPH OR MORE BASIC WIND SPEED IN VIRGINIA AND GEORGIA), WALLS SHALL BE BRACED PER THE LATEST ADOPTED EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION *ASCE 7* OR *STANDARD FOR RESIDENTIAL CONSTRUCTION IN HIGH-WIND REGIONS* (ICC 600).

BRACING METHODS | 3/16" = 1'-0" | 2





** IN LIEU OF THE CORNER RETURN, A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.

CORNER FRAMING FOR CONTINUOUS SHEATHING | 1/4" = 1'-0" | 4

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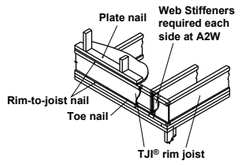
DATE: 03/23/2021

DRAWN BY: AWC

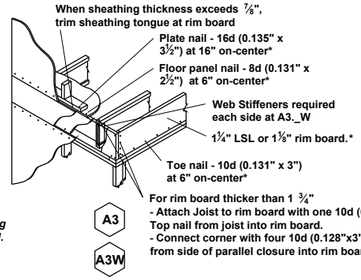
WALL BRACING DETAILS

D8.0

JOIST DETAILS



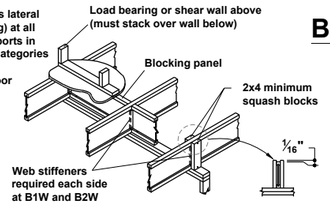
A2 A2W *Must have 1¾" minimum joist bearing at ends. Attach rim joist per A3 detail.*



A3 A3W For rim board thicker than 1 ¾"
- Attach Joist to rim board with one 10d (0.128"x3") nail. Top nail from joist into rim board.
- Connect corner with four 10d (0.128"x3") nails. Toe nail from side of parallel closure into rim board

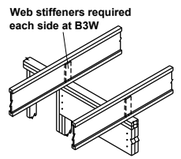
IRC 502-7 requires lateral restraint (blocking) at all intermediate supports in Seismic Design Categories D0, D1, and D2 to strengthen the floor diaphragm.

B1 B1W

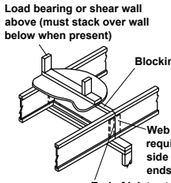


B2 B2W Blocking panels may be required with shear walls above or below - see detail B1

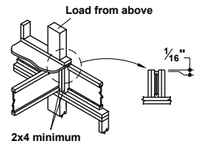
INTERMEDIATE BEARING
NO LOAD BEARING WALL ABOVE



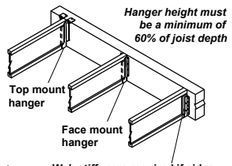
B3 B3W Blocking panels may be required with shear walls above or below (See detail B1)



B4 B4W

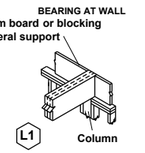


CS *Use 2x4 minimum squash blocks to transfer load around joist*

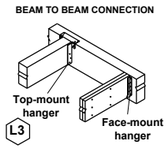


H1 Web stiffeners required if sides of hanger do not laterally support at least ⅝" of joist top flange

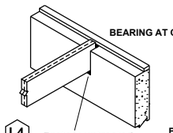
BEAM and COLUMN DETAILS



L1



L3



L4

L5 Verify column capacity and beam bearing length.

FASTENING of FLOOR PANELS

Guidelines for Closest On-Center Spacing per Row

*** SEE I-JOIST EQUIVALENCE CHART**

Nail Size	I-JOIST *		Rim Board	1½" LSL or wider	LVL	PSL
	110, 210, and 230 EQ.	360 and 560 EQ.	1¼" LSL			
8d (0.131" x 2½")	4"	3"	4"	3"	3"	3"
10d (0.148"x 3"), 12d (0.148"x 3¼")	4"	4"	4"	4"	4"	4"
16d (0.162"x 3½")	6"	6"	6"(2)	6"(2)	8"	6"

(1) One row of fasteners permitted (two at abutting panel edges) for diaphragms. Stagger nails when using 4" on-center spacing and maintain ⅜" joist and panel edge distance. For other applications, multiple rows of fasteners are permitted if the rows are offset at least ½" and staggered.

(2) Can be reduced to 4" on-center if nail penetration into the narrow edge is no more than 1 ⅜" (to avoid splitting).

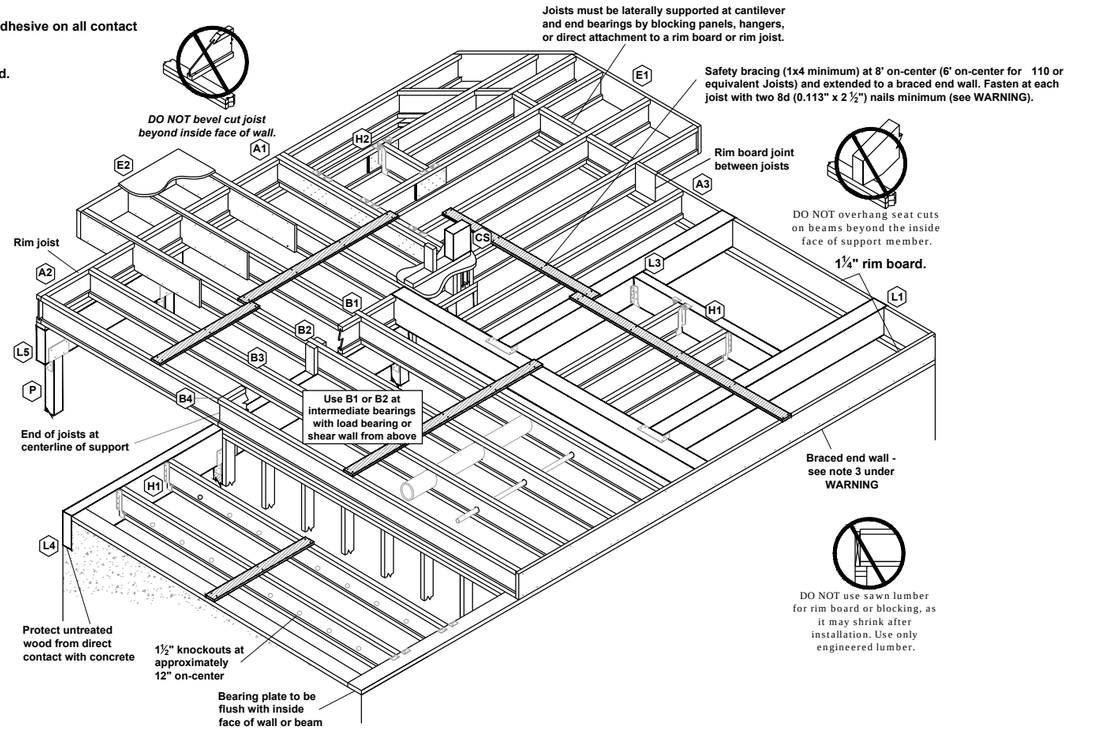
- Recommended nailing is 12" on-center in field and 6" on-center along panel edge. Fastening requirements on engineered drawings supersede recommendations listed above.
- Recommended use of a non-polyurethane subfloor adhesive on all contact points between panels and floor framing.
- Nailing rows must be offset at least ½" and staggered.
- 14 ga. staples may be substituted for 8d (0.113" x 2½") nails if minimum penetration of 1" into the joist or rim board is achieved.
- Maximum spacing of nails is 18" on-center for joists.

FILLER and BACKER BLOCK SIZES

*** SEE I-JOIST EQUIVALENCE CHART**

I-Joists	110 EQ. *		210 EQ. *		230 or 360 EQ. *			560 EQ. *		
Depth	9½" or 11⅞"	14"	9½" or 11⅞"	14" or 16"	9½" or 11⅞"	14" or 16"	18" or 20"	11⅞"	14" or 16"	18" or 20"
Filler Block (1) (Detail H2)	2x6	2x8	2x6 + ⅜" sheathing	2x8 + ⅜" sheathing	2x6 + ½" sheathing	2x8 + ½" sheathing	2x12 + ½" sheathing	Two 2x6	Two 2x8	Two 2x12
Cantilever Filler (Detail E4)	2x6 4'-0" long	2x10 6'-0" long	2x6 + ⅜" sheathing 4'-0" long	2x10 + ⅜" sheathing 6'-0" long	2x6 + ½" sheathing 4'-0" long	2x10 + ½" sheathing 6'-0" long	Not applicable	Not applicable		
Backer Block (1) (Detail F1 or H2)	⅝" or ¾"		¾" or ⅞"		1" Net			2x6	2x8	2x12

(1) If necessary, increase filler and backer block height for face mount hangers and maintain ⅛" gap at top of joist; see detail W. Filler and backer block lengths should accomodate required nailing without splitting (12" minimum for backer blocks and 24" minimum for filler blocks).



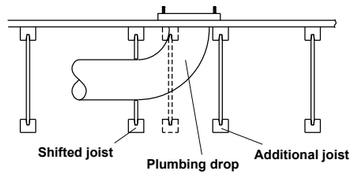
INSTALLATION TIPS

Subfloor adhesive will improve floor performance, but may not be required.

Squash blocks and blocking panels carry stacked vertical loads (details B1 and B2). Packing out the web of a joist (with web stiffeners) is not a substitute for squash blocks or blocking panels.

When joists are doubled at non-load bearing parallel partitions, space joists apart the width of the wall for plumbing or HVAC.

Additional joist at plumbing drop (see detail).



* I-JOIST EQUIVALENCY CHART

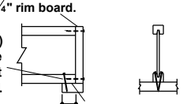
EQUIVALENT IN SPAN AND SPACING			
Depth	Mftr & Series	Mftr & Series	Mftr & Series
9 1/4"	TJI - 110	BCI 4500	
	TJI - 210	BCI 5000	
	TJI - 230	BCI 6000	EverEdge 20
		BCI 6500	
11 7/8"	TJI - 110	BCI 4500	
	TJI - 210	BCI 5000	
	TJI - 230	BCI 6000	EverEdge 20
		BCI 6500	
	TJI - 360	BCI 60'S	EverEdge 30
	TJI - 560	BCI 90'S	EverEdge 50/60
14"	TJI - 110	BCI 4500	
	TJI - 210	BCI 5000	
	TJI - 230	BCI 6000	EverEdge 20
		BCI 6500	
	TJI - 360	BCI 60'S	EverEdge 30
	TJI - 560	BCI 90'S	EverEdge 50/60
16"	TJI - 110	BCI 4500	
	TJI - 210	BCI 5000	
	TJI - 230	BCI 6000	EverEdge 20
		BCI 6500	
	TJI - 360	BCI 60'S	EverEdge 30
	TJI - 560	BCI 90'S	EverEdge 50/60

JOIST NAILING REQUIREMENTS at BEARING

Joist to Bearing Plate

1¼" rim board.

One 8d (0.113" x 2½") nail each side. Drive nails at an angle at least 1½" from end.

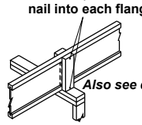


1¾" minimum bearing at end support; 3½" minimum at intermediate support

Shear transfer: Connections equivalent to floor panel nailing schedule

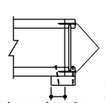
Squash Blocks to Joist
(Load bearing wall above)

One 10d (0.128" x 3") nail into each flange



Also see detail B2

Rim to Joist

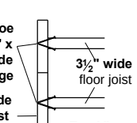


1¾" minimum bearing

1¼" rim board or 1¾" wide rim joist: One 10d (0.128" x 3") nail into each flange

2 1/16" - 2 5/16" wide rim joist: One 16d (0.135" x 3½") nail into each flange

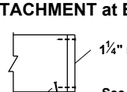
3½" wide rim joist: Toe nail with 10d (0.128" x 3") nails, one each side of TJI® joist flange



Locate rim board joint between joists.

BEAM ATTACHMENT at BEARING

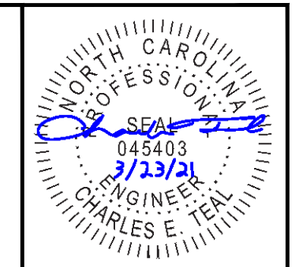
One 10d (0.128" x 3") nail each side of member at bearing, 1½" minimum from end



Drive nails at an angle to minimize splitting of plate

1¼" rim board.

See framing plan (if applicable) or iLevel® Framer's Pocket Guide for minimum end and intermediate bearing lengths.



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ENGINEERED JOIST DETAILS

D9.0