Retreat at North Main Lot 47

Ash ELEVATION 'B'



PURCHASE ORDER SIZE 3/0 x 8/0

INCLUDED OPTIONS:

1st FLOOR
COVERED PORCH (in footprint)
GOURMET KITCHEN
BOX OAK STAIRS
TRAY CEILING @ DINING
TRAY CEILING @ OWNERS
OWNERS SPA SHOWER
BENCH @ MUD ROOM
GARAGE SERVICE DOOR

2nd FLOOR 2ND SINK @ BATH 2

SQUARE	AGE			
ELEVATION 'B'				
	UNHEATED	HEATED		
FIRST FLOOR	0	1496		
SECOND FLOOR	0	891		
MECHANICAL	102	0		
REAR COVERED PORCH	89	0		
FRONT PORCH	125	0		
2-CAR GARAGE	449	0		
SUBTOTALS	765	2387		
TOTAL UNDER ROOF	31	52		





2387 - ASH - LH ---

Cover Sheet 'B'

DRAWN BY:
South Designs
ISSUE DATE:
09/29/2018

CURRENT REVISION DATE:
10/13/2020

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

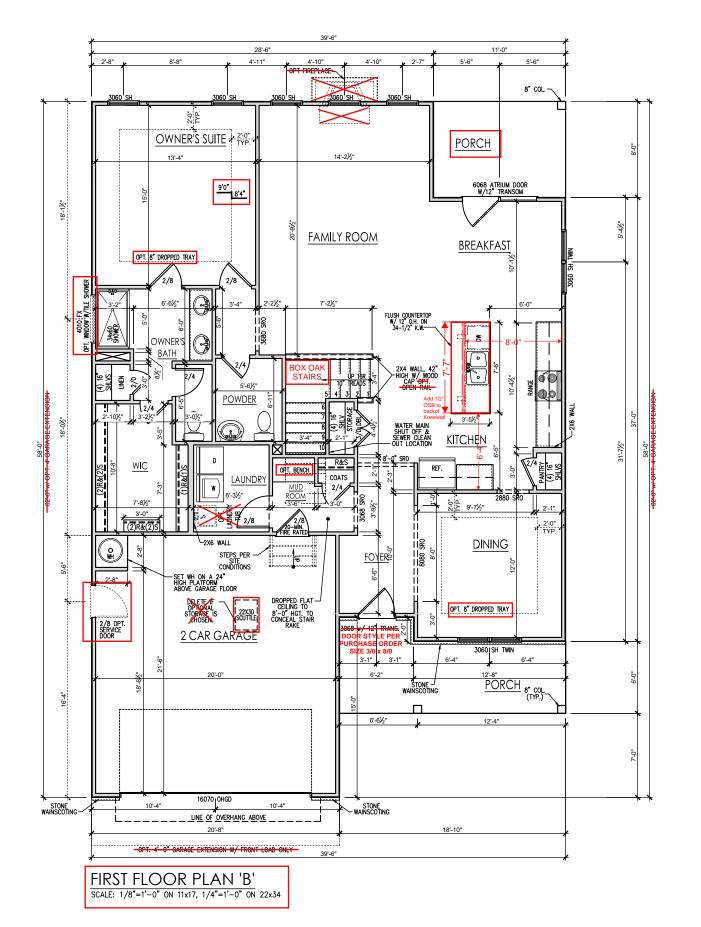
SHEET

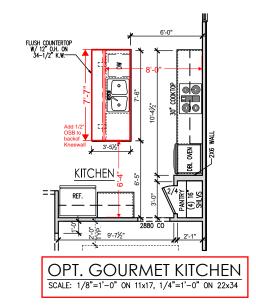
0.06

General Floor Plan Notes

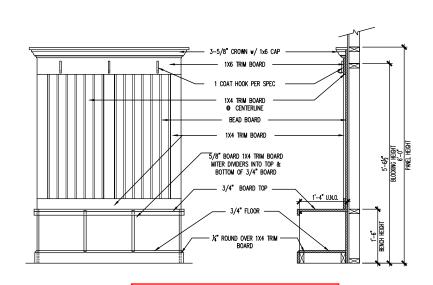
General Floor Plan Notes shall apply unless noted otherwise on plan.

- Wall Heights: Typically 9-1 1/2" at first floor and second floor, and 8-1 1/2" at at flies 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.
- Wall Thickness is typically 4" at exterior walls, 3 1/2" at interior. 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.
- Typical header height shall be 8'-0" AFF at First Floor, and 7'-0" AFF at Second Floor U.N.O.
- 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
 elde.
- Sofflits, 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 do not include sofflits over wall cabinetry.
- 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.
- 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 election.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf (unless otherwise noted). Closets for linen shall have 5 open equal shelves. Closets for pantries shall have 5 equal wood shelves painted.
- 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 ballisters) 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 acceatable.
- 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. BENCH DETAIL
SCALE: 3/8"=1'-0" ON 11x17, 3/4"=1'-0" ON 22x34



DAVIDSON HOMES

REV.#	DESCRIPTION	DATE
1		
2		
3		
4	ł	
2	ł	
9	ł	
7	-	
8	-	ı

----First Floor Plan 'B'

ASH

2387

DRAWN BY: South Designs ISSUE DATE:

CURRENT REVISION DATE 10/13/2020

1/8" = 1'-0"
SHEET

2 1h

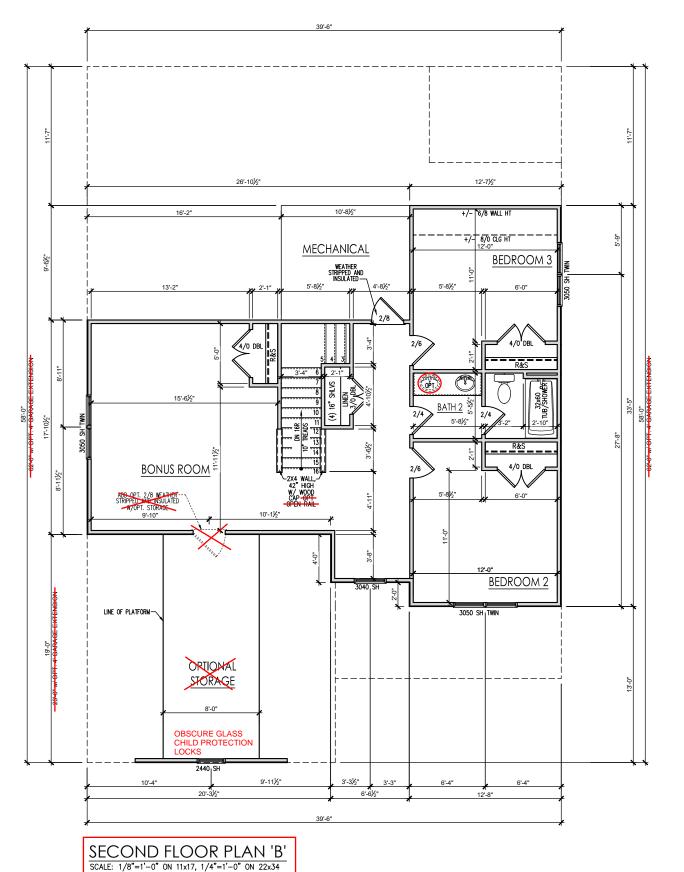
Retreat at North Main Lot 47

General Floor Plan Notes

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

- Wall Heights: Typically 9"-1 1/2" at first floor and second floor, and 8"-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.
- Wall Thickness is typically 4" at exterior walls, 3 1/2" at interior. 2x6 frome 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.
- Typical header height shall be 8'-0" AFF at First Floor, and 7'-0" AFF at Second Floor U.N.O.
- 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.
- 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 do not include soffits over wall cabinetry.
- 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.
- 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.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf (unless otherwise noted). Closets for linen shall have 5 open equal shelves. Closets for partries shall have 5 equal wood shelves painted.
- 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 ballsters) 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.

Retreat at North Main Lot 47







DATE			-	-	-	-			
DESCRIPTION			I	1	1	1	I		
REV. #	1	2	3	4	2	9	7	8	

2387 - ASH - LF
--Second Floor Plan

DRAWN BY: South Designs

ISSUE DATE:

CURRENT REVISION DATE 10/13/2020 SCALE: 1/8" = 1'-0"

2.2b

General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- 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
- House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations
- 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.
- Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 34" high with guards spaced no more than 4" apart. Consult community specifications for material.
- 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.
- 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

pening Size An

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" LL\
5'-7"	to	6'-6"	5" x 3-1/2" x 5/16" LL\
6'-7"	to	8'-4"	6" x 3-1/2" x 5/16" LL\
8'-5"	to	16'-4"	7" x 4" x 3/8" LLV

Retreat at North Main Lot 47











2387 - ASH - LH
--& Rear Elevations 'B' (Slab)

DRAWN BY: South Designs ISSUE DATE:

09/29/2018

CURRENT REVISION DATE
10/13/2020

SCALE:

3 1h

General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

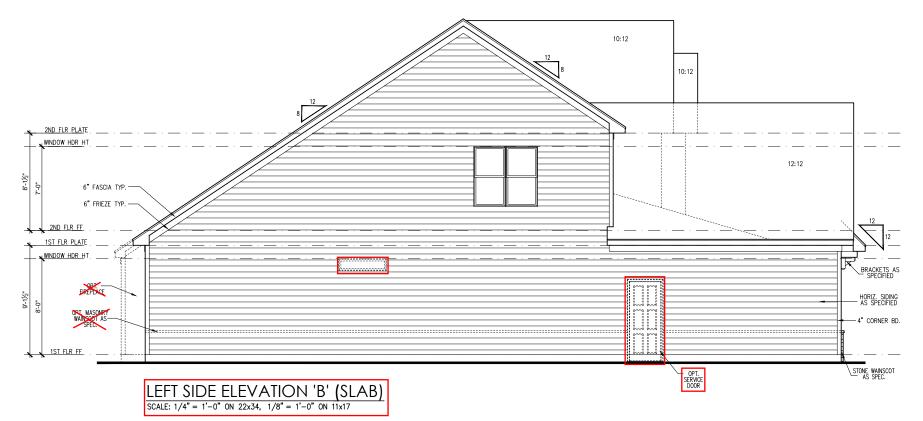
- Roof shall be finished with architectural composition shinales with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- 3. Soffit Vent shall be continuous soffit vent
- House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- 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.
- Porch Raillings 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.
- Finish Wall Material shall be as noted on elevation drawings
- 8. Brick Veneer, if included on elevation shall be fied to wall surface with galvanized corrugated metal fies at at at 624" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) file. 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 31/8" in diameter and shall be located immediately above flashing.
- 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 1/600.

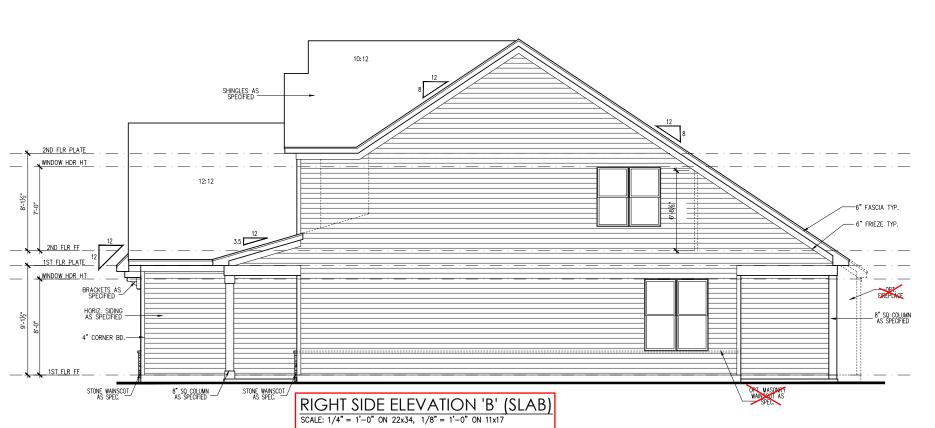
Masonry Opening Lintel Schedul

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

-1" to 5'-6" 4"X 3-1/2" X 5/16" LLV
-7" to 6'-6" 5" X 3-1/2" X 5/16" LLV
-7" to 8'-4" 6" X 3-1/2" X 5/16" LLV
-5" to 16'-4" 7" X 4" X 3/8" LLV

Retreat at North Main Lot 47











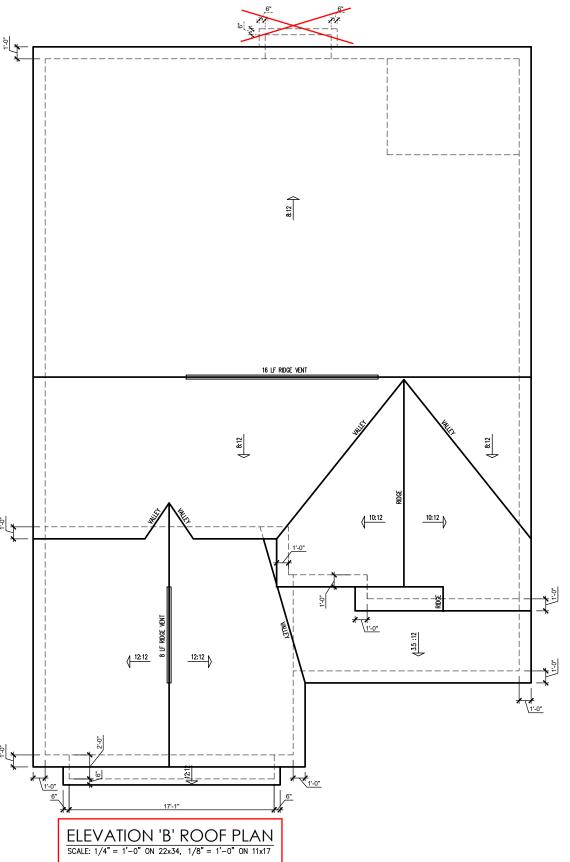
---Side Elevations 'B' (Slab)

ASH

2387

DRAWN BY:
South Designs
ISSUE DATE:
09/29/2018
CURRENT REVISION DATE:
10/13/2020

3.2h



ATTIC VENT SCHEDULE										
ELEVATION 'B'										
MAIN HOUSE SQ FTG 2034 AT / NEAR RIDGE AT / NEAR EAVE										
		SQ. FT.	PERCENT OF TOTAL	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VEN		
VENT TYPE REQUIRED SUPP		SUPPLIED SUPPLIED		0.4236	0.4236 0.2778 0.125		0.1944	0.0625		
2 71	3.39	3.00	45.28	0	0	24.00				
4.07	3.39	3.63	54./2	0 58.00						
6.78	6.78	6.63	100.00	POT VENTS MAY BE	OT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					
	SQ. REQU RAN 2.71 4.07	\$Q. FT. REQUIRED RANGE 2.71 3.39 4.07 3.39	HOUSE SQ FTG SQ. FT. REQUIRED SUPPLIED 2.71 3.39 3.00 4.07 3.39 3.63	HOUSE SQ FTG 2034 SQ. FT. REQUIRED SUPPLIED OF TOTAL SUPPLIED 2.71 3.39 3.00 45.28 4.07 3.39 3.63 54.72	ELEVATION	Columbia	Columbia Columbia	ELEVATION 'B'		

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



DAVIDSON HOMES

		ı
REV.#	DESCRIPTION	DAT
1		1
2		
3		
4		1
2		1
9		
7		
8		1
		I

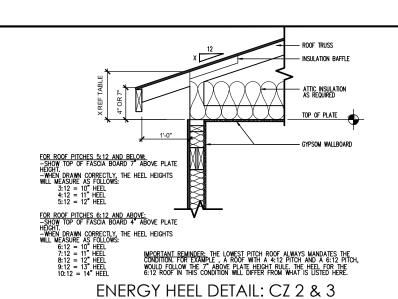
2387 - ASH - LH

DRAWN BY: South Designs ISSUE DATE:

09/29/2018 CURRENT REVISION DATI 10/13/2020

SCALE: 1/8" = 1'-0" 3.5b

Retreat at North Main Lot 47



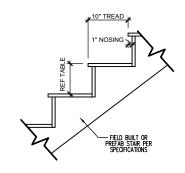
SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17

ATTIC INSULATION AS REQUIRED GYPSOM WALLBOARD 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:

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:

ENERGY HEEL DETAIL: CZ 4 & 5 SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17

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.



	RISER HEIGHTS PER	STAIR CONFIGUR	ATION
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

Retreat at North Main Lot 47

DESIGNS (F) 919-556-2228 www.southdesigns.com

Z

AVIDSON HOMES

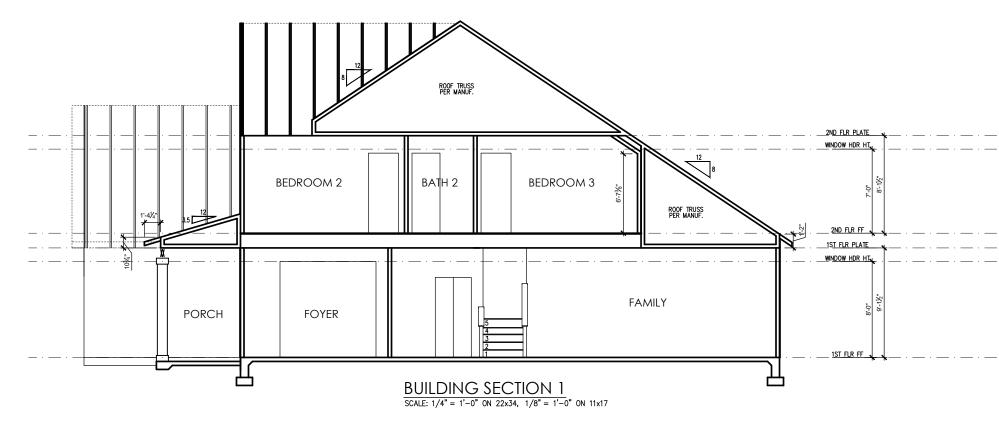
Os

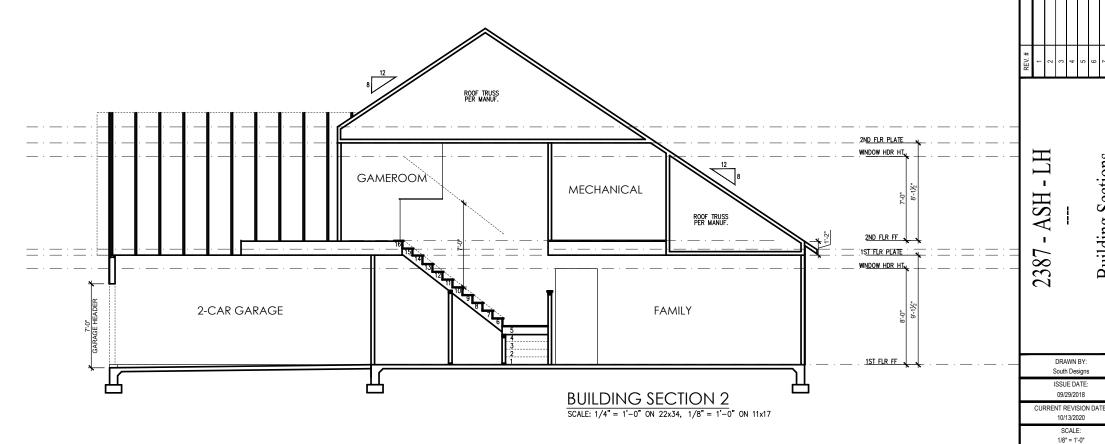
Building Sections

DRAWN BY: South Designs ISSUE DATE:

09/29/2018

10/13/2020 1/8" = 1'-0"





ELECTRICAL SYMBOL KEY LIGHT FIXTURES CEILING SURFACE MOUNT LIGHT RECESSED CAN LIGHT RECESSED CAN LIGHT WATERPROOF RECESSED CAN - EYEBALL ◆ PENDANT LIGHTING ₩ALL SCONCE ₩ALL MOUNT LIGHT FLOOD LIGHT DUPLEX OUTLET GFI OUTLET GFI-WP WATERPROOF GFI OUTLET SWITCHED 1/2 HOT DUPLEX OUTLET 220V OUTLET 220V OUTLET TELEPHONE OUTLET CATV (TELEVISION) OUTLET UNDER-COUNTER OR CONCEALED OUTLETS Ø CEILING MOUNTED DUP. OUTLET \$\mathcal{Q}_{\textstyle{LOOR}} \text{ FLOOR MOUNTED DUP. OUTLET **SWITCHES** \$ SINGLE POLE SWITCH \$3 THREE-WAY SWITCH THREE-WAY SWITCH \$4 FOUR-WAY SWITCH ELECTRICAL DISCONNECT MISC FIXTURES EXHAUST FAN UNCTION BOX ⊕_{220V} JUNCTION BOX 220V CARBON MONOXIDE DETECTOR OR SMOKE CO.SD CARBON MONOXIDE DETECTOR AND SMOKE DETECTOR ELECTRIC METER ELECTRICAL PANEL DOOR BELL CHIME DOOR BELL PUSH BUTTON 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.

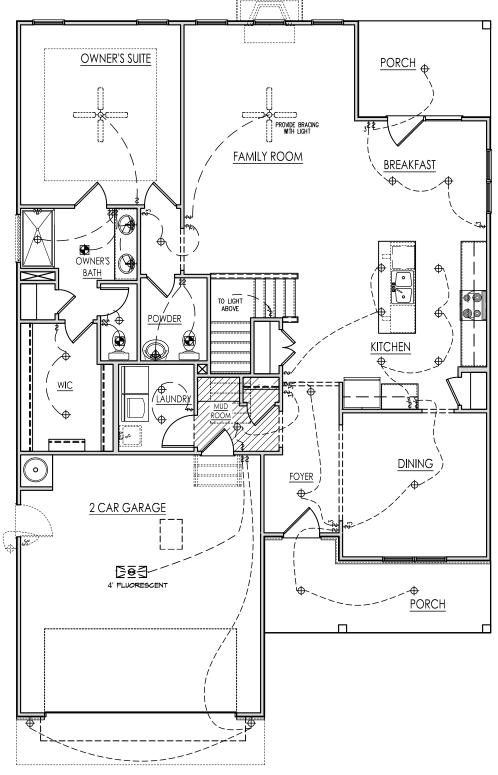
- Smoke Alarms Shall be provided as a minimum of (1) per floor, including basements (if applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner 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.
- 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.

SMITCHES (INCLIDUNG FREPLACE) 4'-6" HERMOSIAT 7'-4" DOOR CHIMES

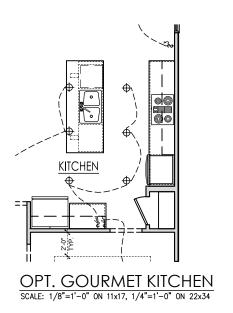
ELECTRICAL BOX HEIGHTS

Retreat at North Main Lot 47



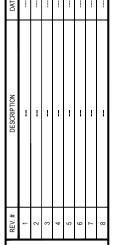
FIRST FLOOR ELECTRICAL PLAN 'B' SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34







DAVIDSON HOMES



----First Floor Electrical 'B'

-LH

-ASH

2387

DRAWN BY: South Designs

ISSUE DATE: 09/29/2018

CURRENT REVISION DATE 10/13/2020 SCALE: 1/8" = 1'-0"

5.1b

ELECTRICAL SYMBOL KEY CEILING SURFACE MOUNT LIGHT RECESSED CAN LIGHT RECESSED CAN LIGHT WATERPROOF RECESSED CAN - EYEBALL ● PENDANT LIGHTING ₩ WALL SCONCE ₩ALL MOUNT LIGHT FLOOD LIGHT OUTLETS DUPLEX OUTLET **€**GFI OUTLET GEI-WP WATERPROOF GFI OUTLET SWITCHED 1/2 HOT DUPLEX OUTLET 220V OUTLET TELEPHONE OUTLET Ø CEILING MOUNTED DUP. OUTLET \$\mathcal{Q}_{\textstyle \textstyle \textsty **SWITCHES** \$ SINGLE POLE SWITCH \$3 THREE-WAY SWITCH \$4 FOUR-WAY SWITCH ELECTRICAL DISCONNECT MISC FIXTURES EXHAUST FAN UNCTION BOX ⊕_{220V} JUNCTION BOX 220V CARBON MONOXIDE DETECTOR OR SMOKE DETECTOR CARBON MONOXIDE DETECTOR AND SMOKE DETECTOR ELECTRIC METER ELECTRICAL PANEL DOOR BELL CHIME DOOR BELL PUSH BUTTON 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.

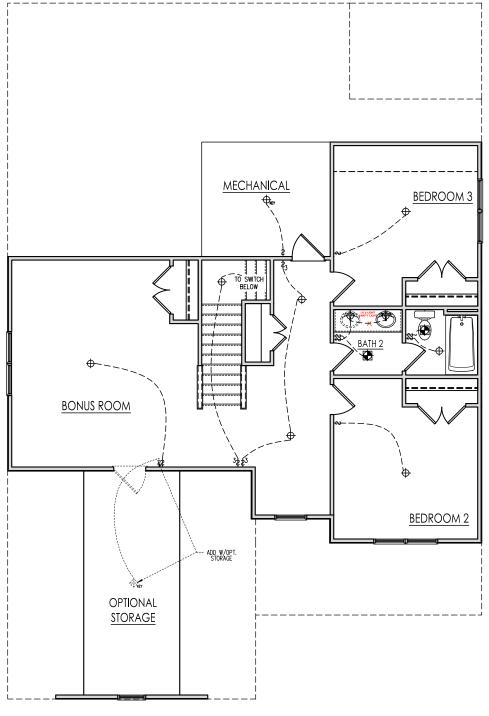
- Smoke Alarms Shall be provided as a minimum of (1) per floor, including basements (if applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner 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.

SWICHES (NACLUDING PREPLACE) SWICHES (NACLUDING PREPLACE) SWICHES (NACLUDING PREPLACE) T-4" PERMOSTAT T-4" PERMOSTAT T-4"

ELECTRICAL BOX HEIGHTS

Retreat at North Main Lot 47



SECOND FLOOR ELECTRICAL PLAN 'B'
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



DAVIDSON HOMES

DATE			-					-
DESCRIPTION			ł	1	1	1	-	
REV. #	1	2	3	4	2	9	7	8

2387 - ASH - LH
--Second Floor Electrical 'B'

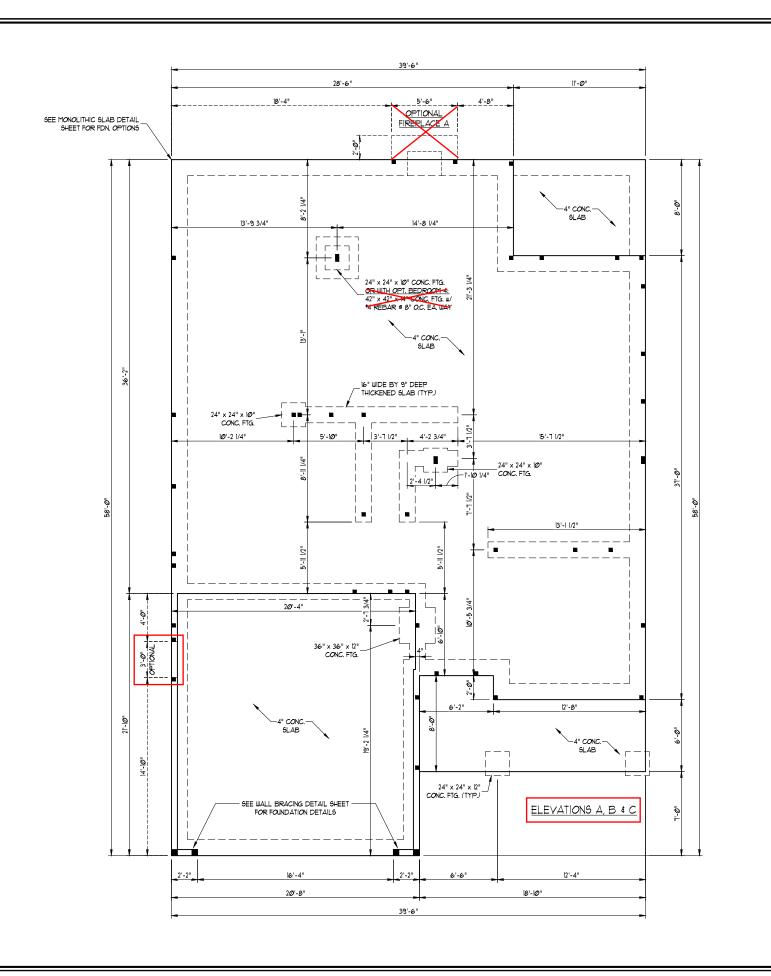
DRAWN BY: South Designs

ISSUE DATE: 09/29/2018

CURRENT REVISION DATE: 10/13/2020

5.2b

1/8" = 1'-0"



SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE THOMPSON
SINEERING, INC 1/4/2023

120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- ENGINEER'S SEAL APPLIES ONLY TO
 STRUCTURAL COMPONENTS, ENGINEER'S SEAL
 DOES NOT CERTIFY DIMENSIONAL
 ACCURACY OR ARCHITECTURAL LAYOUT
 NCLIDING ROOF SYSTEM
 2. STRUCTURAL DESIGN FER NORTH CAROL INA
 RESIDENTIAL CODE, 20% EDITION.
 NSTALL 12" ANCHOR BOLTS 6-0" OC. AND
 WITHIN 1-0" FROM END OF EACH CORNER
 ANCHOR BOLTS HIST SYSTEM A MINIMUM OF
 T" NITO MASCARY, OR CONCRETE LOCATE
 BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
 4. YEAR ROOF HEIGHT IS LESS THAN 30" FEET.
 5. EXTERIOR WALLS DESIGNED FOR 120 11"HH
 WINDS.

- 19. EXTERIOR WALLS DESIGNED FOR 1/20 PM-1
 UNDS.

 10. WALL CLADDING DESIGNED FOR 1/20 PM-1
 UNDS.

 10. WALL CLADDING DESIGNED FOR 1/55 PSF
 AND 1/20 PSF (1/4 ND)CATE POSITIVE /
 NEGATIVE PRESSURE (TIVE /
 NEGATIVE PRESSURE (TIVE /
 AND 1/20 PSF OR ROOF PITCHES 1/12 TO 1/12
 AND 1/20 PSF OR ROOF PITCHES 1/12 TO 1/12
 AND 1/20 PSF OR ROOF PITCHES 1/12 TO 1/12
 AND 1/20 PSF OR ROOF PITCHES 1/20 TO 1/12
 AND 1/20 PSF OR ROOF PITCHES 1/20 IN 1/20
 AND 1/20 PSF OR ROOF PITCHES 1/20 IN 1/20
 AND 1/20 PSF OR ROOF PITCHES 1/20 IN 1/20
 AND 1/20 PSF OR ROOF PITCHES 1/20
 AND 1/20 PSF OR ROOF PITCHES

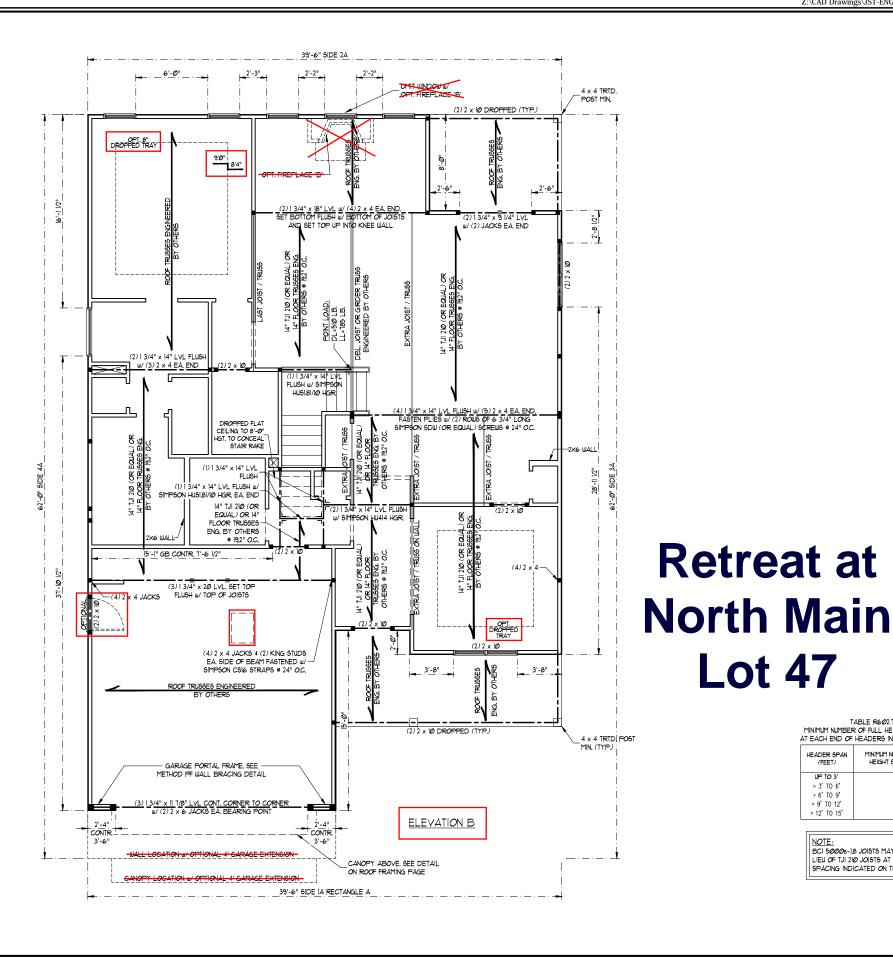
Retreat at **North Main Lot 47**

DATE: JANUARY 4, 2023 DRAWN BY: SOUTH DESIG

S-1.2a MONO SLAB FOUNDATION PLAN

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

SCALE NOTE:



Thin Think 1/4/2023

BRACED WALL DESIGN PER SECTION R602:10 OF THE NORC

BRACED WALL DESIGN NOTES:

WALL INFORMATION.

- 2018 EDITION.
- CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR 19 TO INSTALL 1/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

 *GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL
- 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I 1/4" SCREWS OR I 5/8" NAILS SPACED T" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND
- ALONG PAICE LODGES AND IN THE FIELD INCLUDING TOF AND BOTTOM PLATES.

 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2016 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

BRACED WALL DESIGN

RECTANGLE A SIDE 1A (FRONT LOAD) RECTANGLE B METHOD: C9-WSP/GB/PF
TOTAL REQUIRED LENGTH: 15.58'
TOTAL PROVIDED LENGTH: 21.88' SIDE 2A METHOD: C5-WSP METHOD: CS-WSP

TOTAL REQUIRED LENGTH: 15.58'
TOTAL PROVIDED LENGTH: 11.58' SIDE 3A METHOD: C5-WSP

SIDE 4A (SIDE LOAD)
METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 10.31'

TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT KING \$TUD\$ AT EACH END OF HEADERS IN EXTERIOR WALLS

BCI 50003-18 JOISTS MAY BE USED IN LIEU OF TJI 210 JOISTS AT THE DEPTH AND

SPACING INDICATED ON THE PLANS

UP TO 31

> 6' TO 9'

> 9' TO 12'

> 12' TO 15'

MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)

Lot 47

METHOD: PF/C5-WSP TOTAL REQUIRED LENGTH: 2.4T' TOTAL PROVIDED LENGTH: 9'

TOTAL REQUIRED LENGTH: 2.41'
TOTAL PROVIDED LENGTH: 14.0' SIDE 3B/4A COMBINED METHOD: CS-WSF TOTAL REQUIRED LENGTH: 10/31' TOTAL REQUIRED LENGTH: 12/31' TOTAL PROVIDED LENGTH: 56/61' TOTAL PROVIDED LENGTH: 29/0'

SIDE 4B METHOD: CS-WSF TOTAL REQUIRED LENGTH: 20'

STRUCTURAL NOTES:

- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL
- REQUIREMENTS.
 SQUARES DENOTE POINT LOADS WHICH REQUIRE
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS W/SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT
- OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

ALL FRAMING LUMBER TO BE SPE #2 OR #2 SYP (UNO). ALL TREATED LUMBER TO BE SYP 2 (UNO).

TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.) SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD

SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)

CONNECTORS AT TOP (UNO.)
FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY

ATE: JANUARY 4, 2023

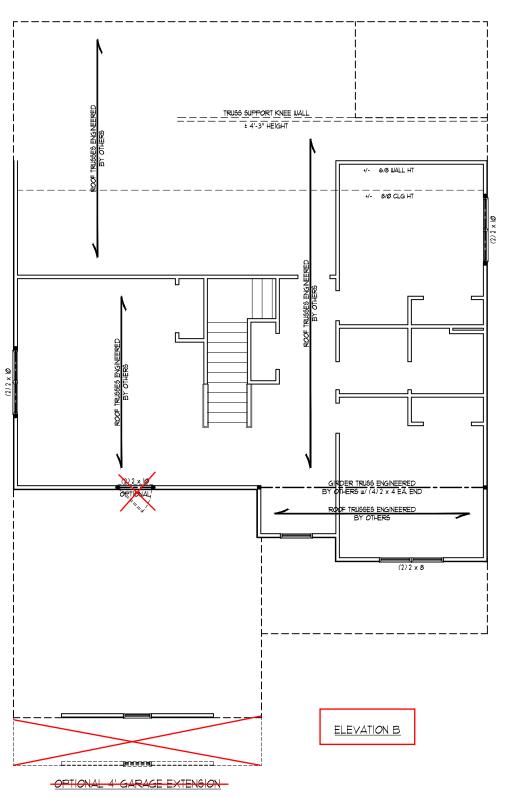
HOMPS NEERING

ഗ

S

RAWN BY: SOUTH DESIG INEERED BY: JAG

S-2b SECOND FLOOR FRAMING PLAN



SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



1/4/2023

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC 2018 EDITION. CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR 15 TO INSTALL T/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6"
- ON ALL EXTERIOR WALLS AT TACHED W SO NAILS SPACED O OC. ALONG PANEL EDGES AND 12" OC. IN THE FIELD. 'GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I 1/4" SCREWS OR IS 75" NAILS SPACED T" OC. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND
- BOTTOM PLATES.

 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.

 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED

 IN ACCORDANCE WITH CHAPTER 45 OF THE NGRC 2018 EDITION.

 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
- WALL INFORMATION

- PER SECTION R602.10.3.2 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL
- ANALYSIS IS REQUIRED.
 SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING
 ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE *2 SPF OR *2 SYP (UNO).

 ALL LOAD BEARING HEADERS TO BE
- (2) 2 x 6 (UNO).

 3. WINDOW AND DOOR HEADERS TO BE
- SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA, END (UNO.), SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
- . SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO.)

 REFER TO NOTES AND DETAIL SHEETS
- FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE R602.15 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

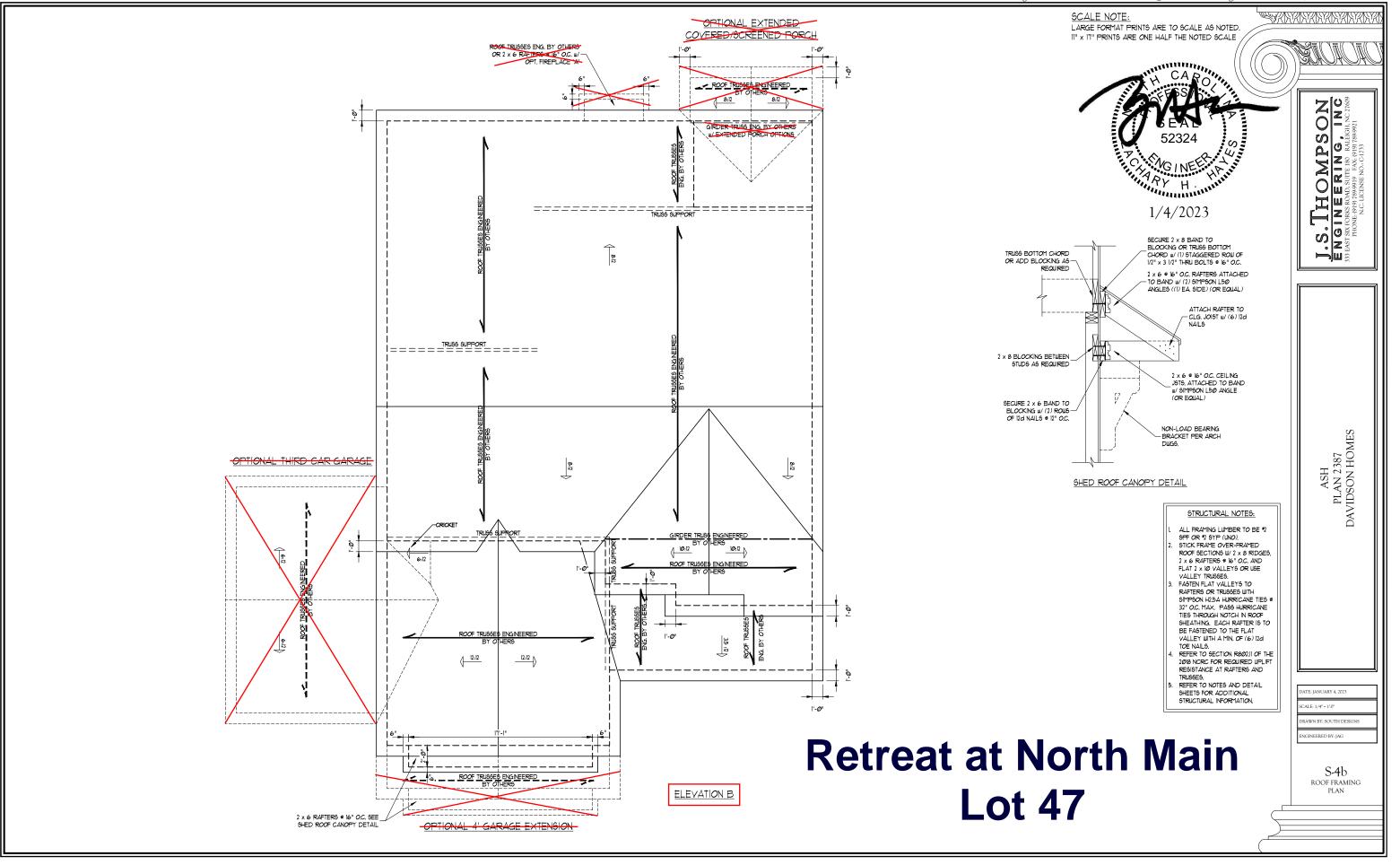
HEADER SPAN (FEET)	MINIMUM NUMBER OF FUL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

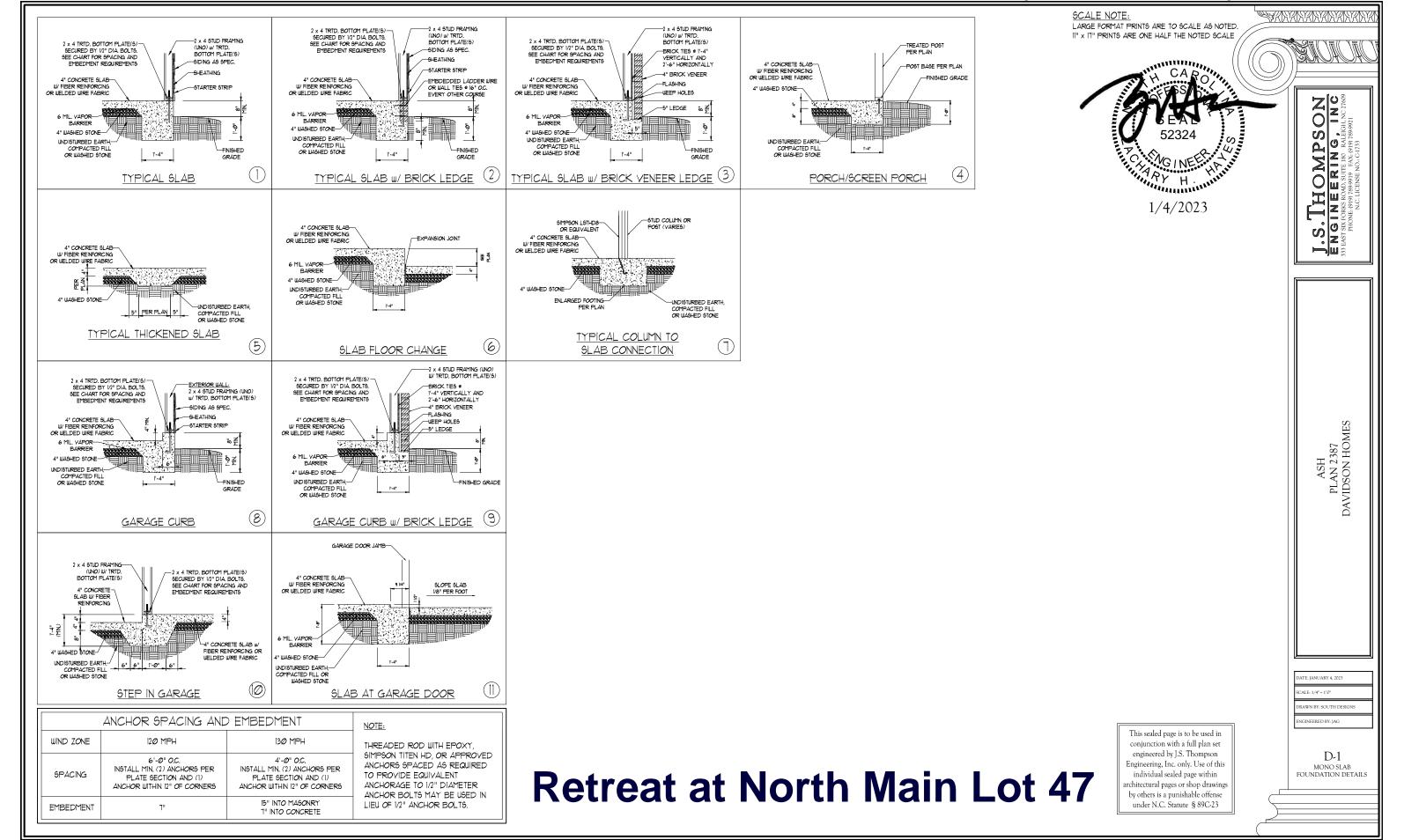
ATE: JANUARY 4, 2023 DRAWN BY: SOUTH DESIGN GINEERED BY: JAG

THOMPSON
SINEERING, INC

S-3b ATTIC FLOOR FRAMING PLAN

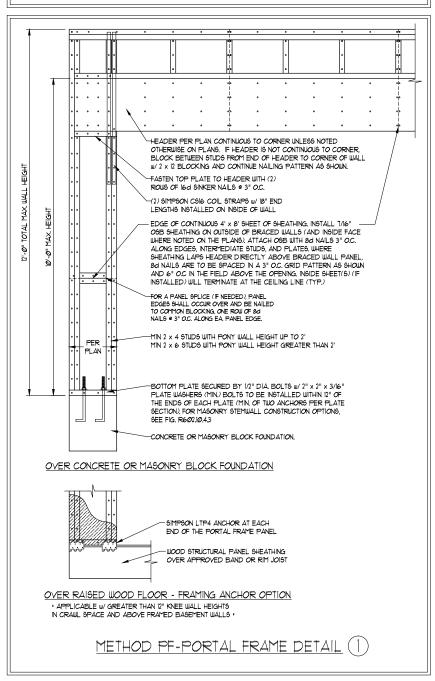
Retreat at North Main Lot 47

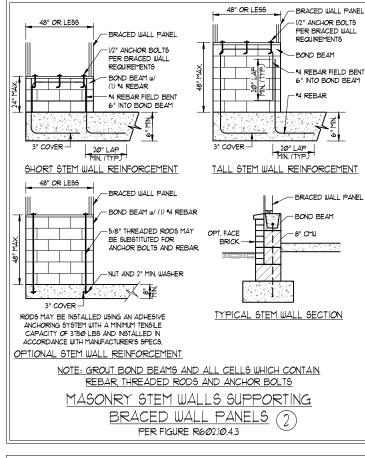


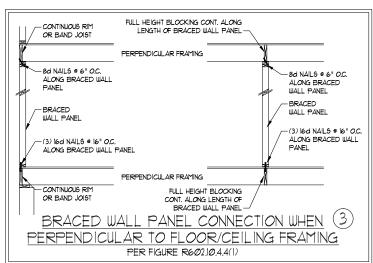


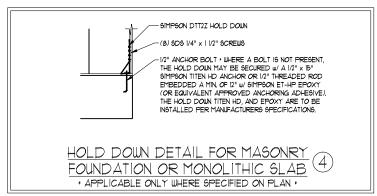
GENERAL WALL BRACING NOTES:

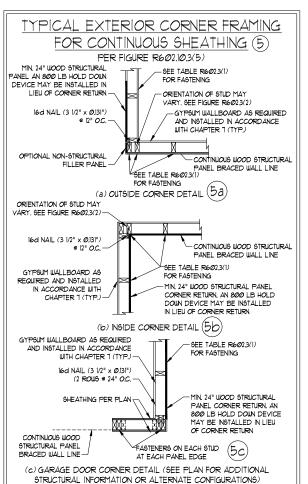
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER & OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC).
 TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- BEACED EXTERIOR WALLS SUPPORTING ROOF TRUESES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R60/3.35 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERS PRACTICE.
- 4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- 5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.103 UNLESS NOTED OTHERWISE.
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R102.35. METHOD GB TO BE FASTENED PER TABLE R602.10.1
- I. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W 6d COMMON NAILS OR 8d (2 1/2" LONG X Ø.113" DIAMTETER NAILS SPACED 6" OC. AUCK PANEL EDGES AND W.O. IN THE FIELD (UN.O.).
- 8. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH I 1/4" SCREWS OR I 5/8" NAILS SPACED "" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNIO.). VERITY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R102.35. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R102.35. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE REQUIRED BY CONTRIBUTES IN ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD PET CONTRIBUTES 15 TIMES 115 ACTUAL LENGTH.

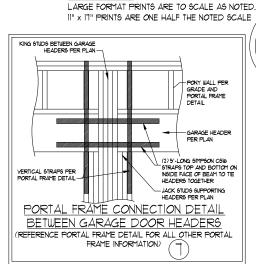




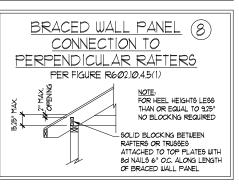


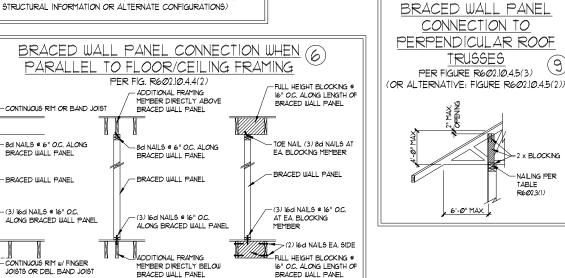






SCALE NOTE:





Retreat at North Main Lot 47

This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within architectural pages or shop drawings by others is a punishable offense under N.C. Statute § 89C-23



SCALE: 1/4" - 1'0"

DRAWN BY: SOUTH DESIGNS

ENGINEERED BY: JAG

D-3

WALL BRACING
NOTES AND DETAILS

ICINEERING, INC FISHORS ROAD SUITE 180 RALEGH, NC 27609 PHONE, (919) 789-9919 FAX, (919) 789-9921 N.C. LICENSE NO.: C.1733

 \rightarrow

ASH PLAN 2387 DAVIDSON HOMES

DATE: JANUARY 4, 2023 SCALE: 1/4" = 1":0"

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.1)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	2Ø	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/36Ø
EXTERIOR BALCONIES	40	10	L/36Ø
FIRE ESCAPES	40	10	L/36Ø
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	50	10	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	3Ø	10	L/36Ø
STAIRS	40	10	L/36Ø
WIND LOAD	(BASED ON TABLE R3012)	4) WIND ZONE AND EXPOSURE)	
GROUND SNOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFICD AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE 6LAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR 55 BARS OR SMALLER, AND NOT LESS THAN 2" FOR 65 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.I.I(1), R404.I.I(2), R404.I.I(3), OR R404.I.I(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.I.I(15) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS AT 16" OC WHERE GRADE PERMITS (UNO)

Retreat at North Main Lot 47

FRAMING NOTES

- I. ALL FRAMING LUMBER SHALL BE 12 SPF (Fb = 875 PS), Fv = 375 PS), E = 16000000 PS)) OR 12 SYP (Fb = 975 PS), Fv = 175 PS), E = 16000000 PS)) MINIMUM UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A. W AND WT 9HAPES: ASTM A992
B. CHANNELS AND ANGLES: ASTM A36
C. PLATES AND BARS: ASTM A36

. HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B

E. STEEL PIPE: ASTM A53, GRADE B, TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

A. WOOD FRAMING

(2) 1/2" DIA. x 4" LONG LAG SCREWS

B. CONCRETE

(2) 1/2" DIA. x 4" WEDGE ANCHORS

C. MASONRY (FULLY GROUTED)

(2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ I6" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ I6" O.C. IF I/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ I6" O.C.

- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS
 FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I 1/2" MINIMUM BEARING (NO.). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3Ø1) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL 1-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- IØ. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RE02.10.
- II. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UN.O.). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03.82.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROUS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOULD (UND).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 × 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 × 8 RIDGES, 2 × 6 RAFTERS AT 16" O.C. AND FLAT 2 × 10 VALLEYS (UNO).
- IB. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

SCALE NOTE:
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

CARO

EAL

52324

ONE

CHOCK OF THE NOTED SCALE

CARO

NOTED S

1/4/2023

ENGINEERING, INC
333 EAST SIX FORES ROAD, SUTE 180 FAX. (919) 785-9921
NC. LICENSE NO. C. (713)

ASH PLAN 2387 DAVIDSON HOME

DATE: JANUARY 4, 2023

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

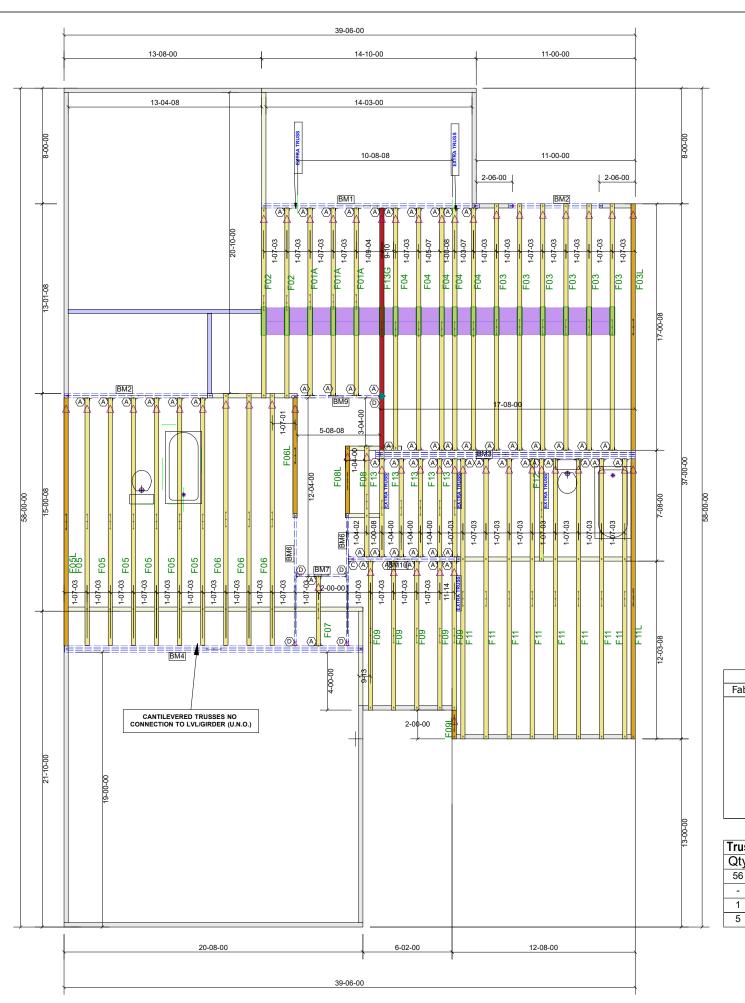
DRAWN BY: SOUTH DESIGN

INEERED BY: IAG

conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within irchitectural pages or shop drawings by others is a punishable offense under N.C. Stature § 89C-23

This sealed page is to be used in

D-4 STANDARD STRUCTURAL NOTES



Retreat at North Main Lot 47

			Products		
Fab Type	Net Qty	Plies	Product	Length	PlotID
MFD	2	2	1-3/4" x 9-1/4" VERSA-LAM® LVL 2.1E 3100 SP	8-00-00	BM2
MFD	4	4	1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP	18-00-00	BM3
MFD	2	2	1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP	12-00-00	BM2
MFD	2	1	1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP	10-00-00	BM6
MFD	1	1	1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP	8-00-00	BM9
MFD	2	2	1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP	8-00-00	BM10
MFD	1	1	1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP	4-00-00	BM7
MFD	2	2	1-3/4" x 18" VERSA-LAM® LVL 2.1E 3100 SP	16-00-00	BM1
MFD	3	3	1-3/4" x 20" VERSA-LAM® LVL 2.1E 3100 SP	24-00-00	BM4

Truss	russ Connector Total List	
Qty	Product	
56	LUS410	Α
-	-	В
1	HGUS410	С
5	HUS1.81/10	D

LUMBER

84 Components 200 Emmett Rd Dunn NC 28334 United States Office: (910) 892-8400

Davidson Homes

Designer

47 Retreat at North Main

GTG

- FLOOR

P05350-30291

Location 2383-Dunn

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS ROVIDED BY AN AUTHORIZED REPRESENTATIVE OF

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING, GENERAL, GUIDANCE IS PROVIDED IN SBCA DOC'S B-1 and B-3. THESE ARE INCLUDED WITH EACH JOE IN YOUR TRUSS PACKET.

Sheet # 1 of 1

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

10/9/2025

