## **Residence for**

## Garman Homes Lot 0045 Serenity Fuquay Varina, North Carolina

#### **INDEX TO DRAWINGS**

CO	VER SHEET
1	FRONT & LEFT SIDE

- ELEVATIONS **REAR & RIGHT SIDE ELEVATIONS** 2
- FIRST & SECOND FLOOR PLANS FIRST & SECOND FLOOR FLECTRICAL PLANS F
- FIRST & SECOND FLOOR MECHANICAL PLANS Μ
- FIRST FLOOR PLUMBING PLAN
- CONSTRUCTION DETAILS

## **GENERAL NOTES**

- 1. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE, 2018 EDITION (HEREWITH SHOWN AS N.C.S.R.B.C.).
- 2. DIMENSIONS SHOWN ON DRAWINGS GOVERN OVER SCALE.
- 3. STUD WALL DESIGN SHALL CONFORM TO ALL N.C.S.R.B.C. REQUIREMENTS
- 4. CONTRACTOR SHALL USE TEMPERED SAFETY GLASS IN ALL LOCATIONS AS REQUIRED BY N.C.S.R.B.C., 2018 EDITION, SECTION R308.4
- 5. ANY HABITABLE ROOM SHALL MEET ALL LIGHT/VENTILATION AND EGRESS AS REQUIRED BY N.C.S.R.B.C. 2018 EDITION, SECTIONS R-303.1 AND R-310.1.
- 6. ALL EXTERIOR WALLS SHOWN ON FLOOR PLANS ARE 2X6 FRAME UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS SHOWN ON FLOOR PLANS ARE 2X4 FRAME UNLESS NOTED OTHERWISE.
- 7. ALL ANGLED WALLS SHOWN ON FLOOR PLANS ARE 45 UNLESS NOTED OTHERWISE.
- 8. ALL WINDOWS SHALL HAVE A MINIMUM DPI RATING OF 25. BUILDER SHALL VERIFY WITH WINDOW MANUFACTURER THAT UNITS INSTALLED MEET THESE REQUIREMENTS AS PER N.C.S.R.B.C., 2018 EDITION, TABLE 301.2(4).
- 9. ENERGY EFFICIENCY REQUIREMENTS FOR THE SPECIFIC CLIMATE ZONE WHERE STRUCTURE IS BEING BUILT SHALL BE IN ACCORDANCE WITH CHAPTER 11 OF THE N.C.S.R.B.C., 2018 EDITION, AS SHOWN IN SECTION N1101.2.

### MATERIALS LEGEND

	EARTH/COMPACT FILL	<u>E</u>	FINISH WOOD
à - 4 	CONCRETE		ROUGH WOOD
	BRICK		BLOCKING
	CONCRETE BLOCK/STONE		PLYWOOD
	STEEL	2000000	BATT INSULATION
	ALUMINUM		RIGID INSULATION

#### ATTIC VENTILATION REQUIREMENTS

NATURAL ROOF VENTILATION MECHANICAL ROOF CALCULATIONS VENTILATION CALCULATIONS <u>1340 SQ. FT.</u> = 8.93 SQ. FT. <u>1340 SQ. FT.</u> = 4.47 SQ. FT. VENT REQ'D 150 300 VENT REQ'D BUILDER TO PROVIDE BUILDER TO PROVIDE APPROPRIATE VENTILATING AS APPROPRIATE VENTILATING AS **REQUIRED PER CODE** REQUIRED PER CODE

- FOUNDATION PLAN & FIRST FLOOR FRAMING PLAN
- SECOND FLOOR FRAMING PLAN & ROOF FRAMING PLAN S2
- GARAGE FOUNDATION PLAN, FIRST FLOOR & ROOF FRAMING PLANS S3
- SD1 STRUCTURAL DETAILS SPEC STRUCTURAL NOTES

#### **RESIDENTIAL BUILDING CODE SUMMARY**

1. PLANS ARE DESIGNED TO THE 2018 N.C.S.R.B.C.

2. HOUSE IS DESIGNED FOR 115 MPH ULTIMATE DESIGN WIND SPEED (89 MPH NOMINAL DESIGN WIND SPEED), EXPOSURE B.

3. ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER AND SHALL EXTEND 7" MIN. INTO MASONRY OR CONCRETE. BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12" FROM THE CORNER.

4. MEAN ROOF HEIGHT: 28'-5"

5. COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS:

MEAN ROOF HGT:	<u>UP TO 30'</u>	30'-1" TO 35'	<u>35'-1" TO 40'</u>	40'-1" TO 45'
ZONE 1	16.5,-18.0	17.3,-18.9	17.3,-18.9	17.3,-18.9
ZONE 2	16.5,-21.0	17.3,-22.1	17.3,-22.1	17.3,-22.1
ZONE 3	16.5,-21.0	17.3,-22.1	17.3,-22.1	17.3,-22.1
ZONE 4	18.0,-19.5	18.9,-20.5	18.9,-20.5	18.9,-20.5
ZONE 5	18.0,-24.1	18.9,-25.3	18.9,-25.3	18.9,-25.3

- 6. MINIMUM VALUES FOR ENERGY COMPLIANCE: Zone 4
- 7. MAXIMUM GLAZING U-FACTOR: .35

8. INSULATING VALUES: CEILING: R-38 / WALLS: R-15 / FLOOR: R-19 SLABS: R-10. CODE REFERENCE: TABLE N1102.1

#### AREA CALCULATIONS

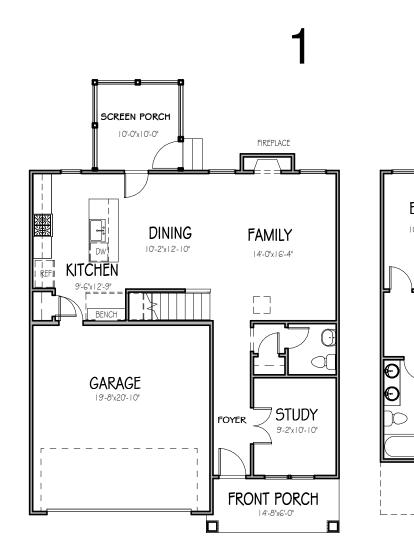
<u>HEATED (SQ. FT.</u>	)	<u>UNHEATED (SQ</u>	<u>. FT.)</u>	UNFINISHED (S	<u> Q. FT.)</u>
BASEMENT: 1ST FLOOR: 2ND FLOOR: ATTIC: GARAGE:(OPTIONAL) TOTAL:	N/A 830 1112 N/A N/A 1942	FRONT PORCH: GARAGE: PATIO: SCREEN PORCH: (OPTIONAL)	85 425 N/A 100	BASEMENT: 1ST FLOOR: 2ND FLOOR: ATTIC: TOTAL:	N/A N/A N/A N/A
		TOTAL:	610	<u>overall dimens</u> Width: Depth:	<u>IONS</u> 34'-4" 50'-2"

#### FOUNDATION VENTILATION CALCULATIONS

(REFERENCE: N.C.S.R.B.C. 2018 EDITION SECTION R408.)

NOT APPLICABLE WITH SLAB FOUNDATIONS







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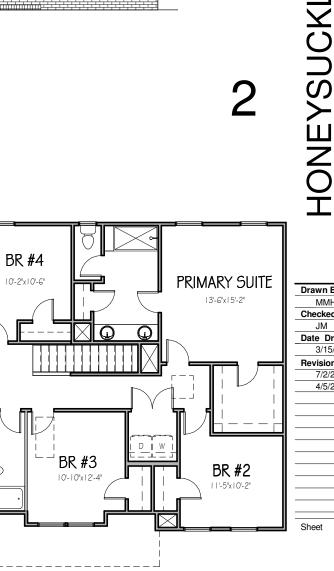
Project Number
Project Number
Plan Number
FP-1942

LOT 0045 SERENITY

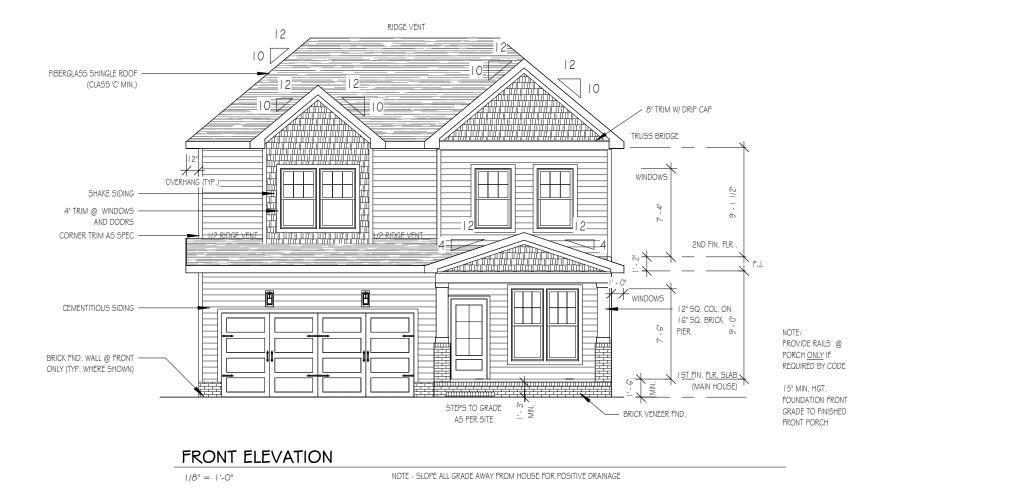
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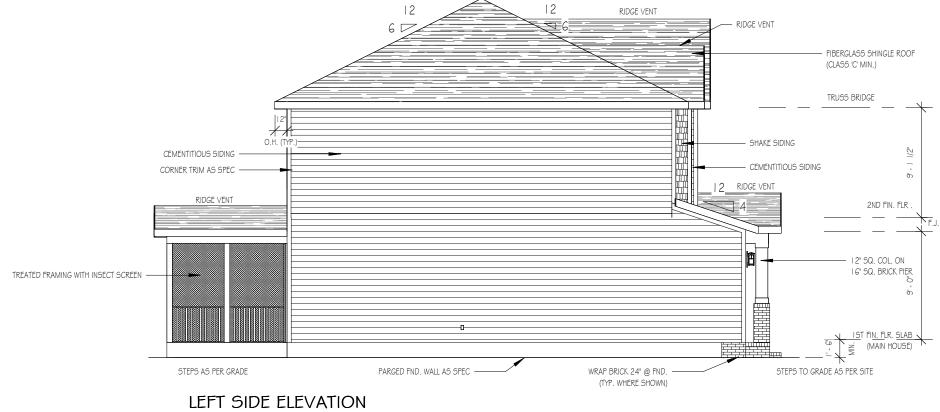
ELEVATION

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4/5/22
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THE PURPOSE OF THESE DRAWINGS IS TO SHOW THE INTENT OF THE DESIGN AND CONSTRUCTION OF THIS HOME. CONTRACTOR SHOULD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ONCE A PERMIT HAS BEEN ISSUED, CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY TO THE ACCURACY OF THE PLANS AND ANY CHANGES MADE DURING CONSTRUCTION.

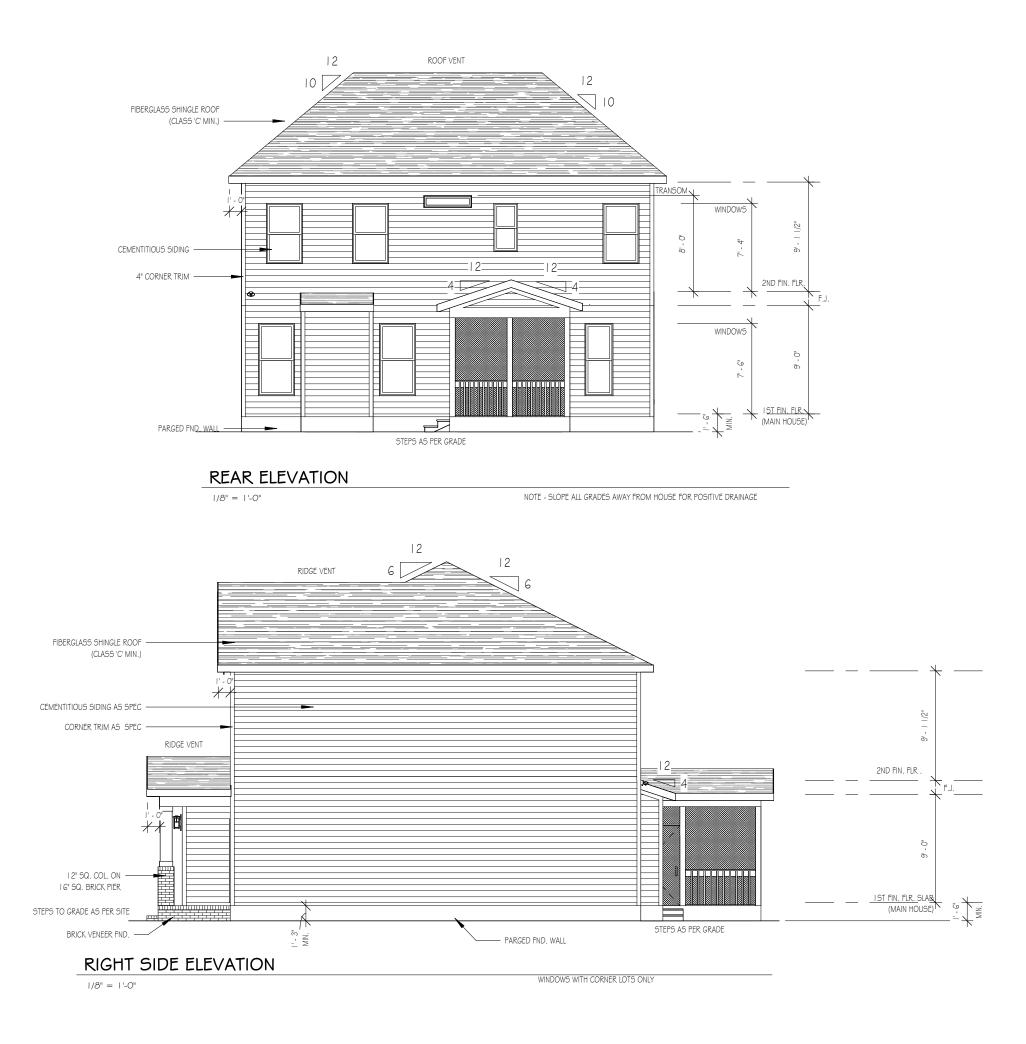


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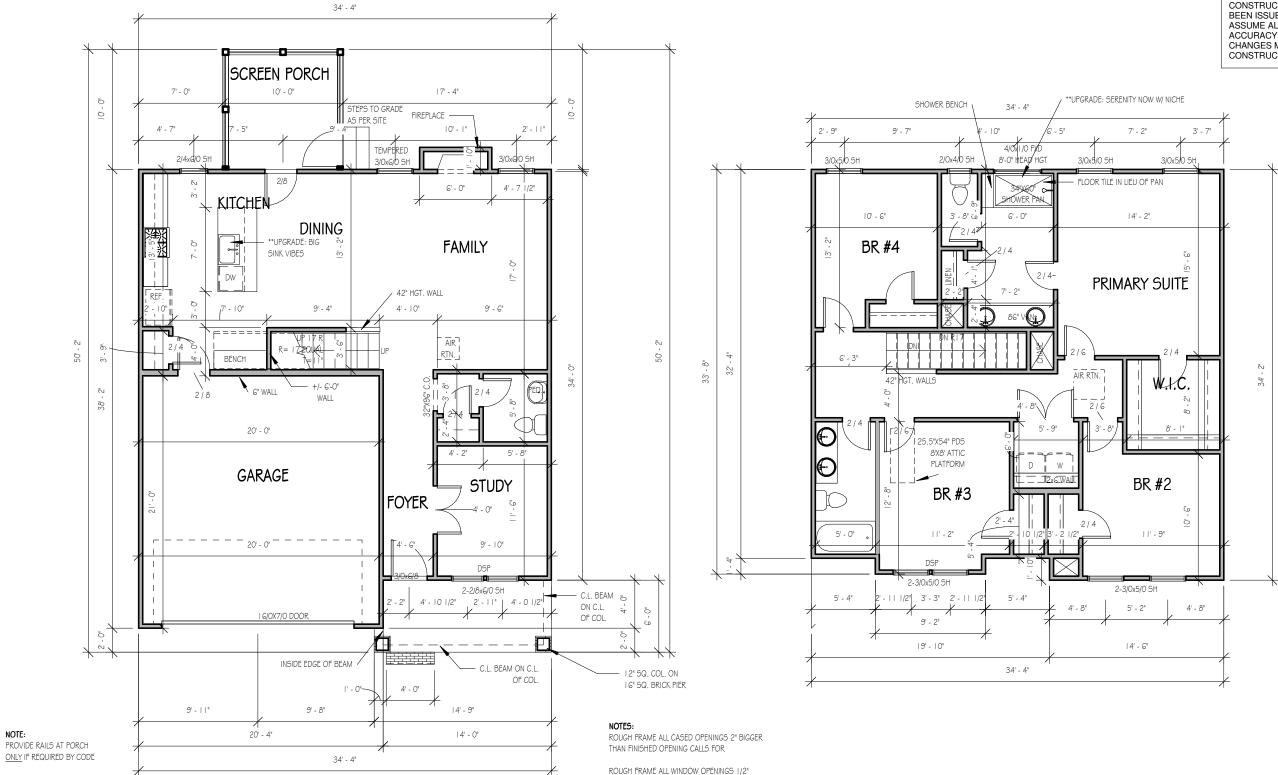
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HONEYSUCKLE SER ELEVATION B LOT 0045 SERENITY

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2



#### FIRST FLOOR

1/8" = 1'-0"

NOTE:

9'-0" CLG. HGT. U.N.O. SET WINDOWS @ 7'-6" U.N.O. CASED OPENINGS 8'-0" TALL

ROUGH FRAME ALL WINDOW OPENINGS 1/2" LARGER THAN FINISHED WINDOW CALLS FOR, WHEN PAIRED WITH ANOTHER WINDOW THAT CALLS FOR DSP. ADD EXTRA TO OUTSIDE MEASUREMENT OF WINDOW

ALL EXTERIOR WALLS 2X4

TOP OF ALL WINDOWS SILLS SHALL BE 24" MINIMUM ABOVE THE FINISHED FLOOR OR A FALL PREVENTION DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R312.2 OF N.C.S.R.B.C., 2018 EDITION

SECOND FLOOR

1/8" = 1'-0"

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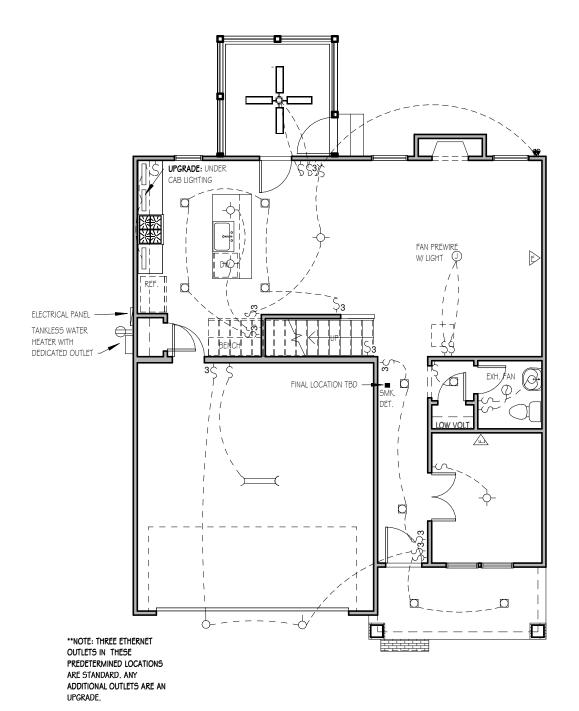


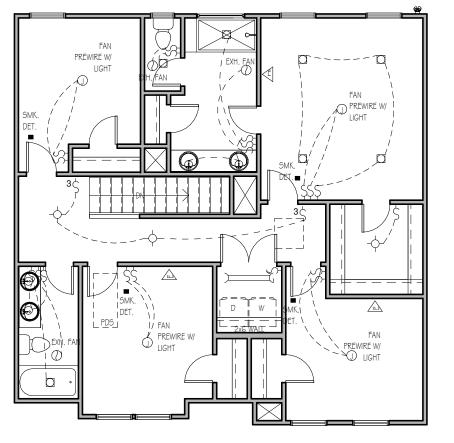
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9'-0" CLG. HGT. U.N.O.

SET WINDOWS @ 7'-4" U.N.O.





#### FIRST FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.

#### SECOND FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.

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ELECTRICAL LECEND
-         LIGHT # ИКТИРИЕ           ©         - РАИЛЬНИТ           ØИР- ИАТЕЯРЯВОСЕ СЛЕЕТ           ©         - РАИЛЬНИТ           Ø         - ВИНКЕ РАЛЬ ФИТСН           §         - ВИНКЕ РАЛЬ ФИТСН           §         - АНИАТ ЗИПТСН           §         - СПИНЖЯ ЗИПТСН           §         - СПИНЖЯ ЗИПТСН           ©         - СИНКЕ РЕПЕСТОЯ           РА         НОСКО ДІАНТЬ           V         - КУБАЛЦ ЗГОТЬ           ф         - СИРАLEX RECEPTACLE (ЦКУ)
<ul> <li>- 220 VOLT RECEPTACLE</li> <li>- BATCHED RECEPTACLE (TOP WRSE ONLY)</li> </ul>
GROUND FAILT CIRCUIT NTERRIPTOR
O - CABLE OUTLET À - TELEPHONE OUTLET À - COMPUTER DATA OUTLET B - DURBLAR ALARM □ - INTERCOM
Note: All Electrical to be Verfed by owner/sulder Before Roush-In.



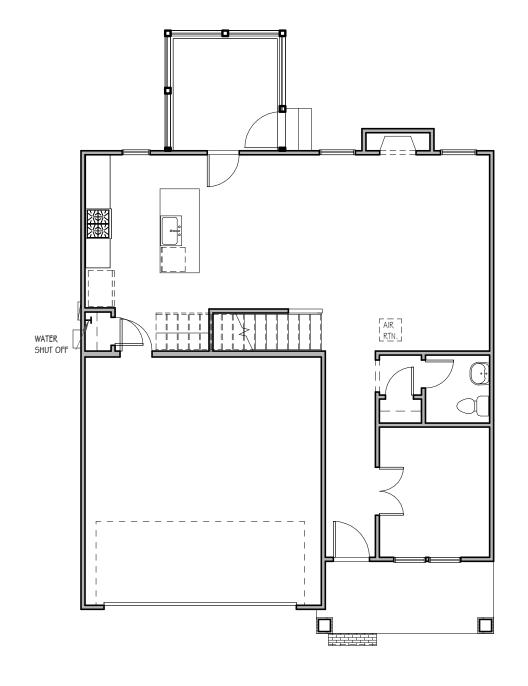
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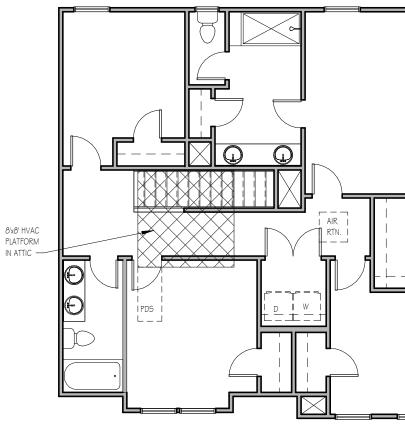
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1/8" = 1'-0"



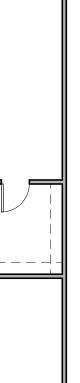
#### SECOND FLOOR MECHANICAL PLAN

1/8" = 1'-0"

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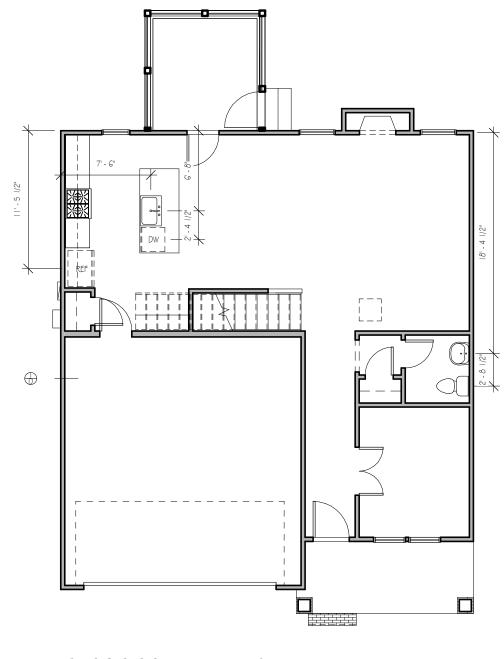




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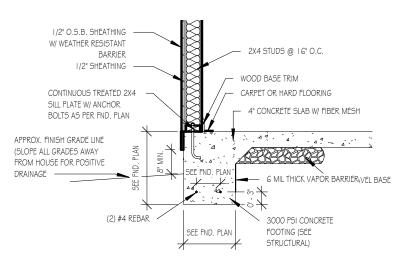


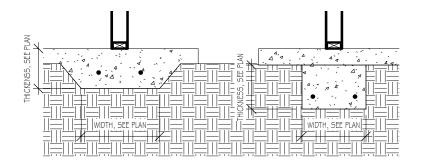
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HONEYSUCKLE	SER ELEVATION B LOT 0045 SERENITY
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#### FOUNDATION DETAIL - SLAB

1/2" = 1'-0"

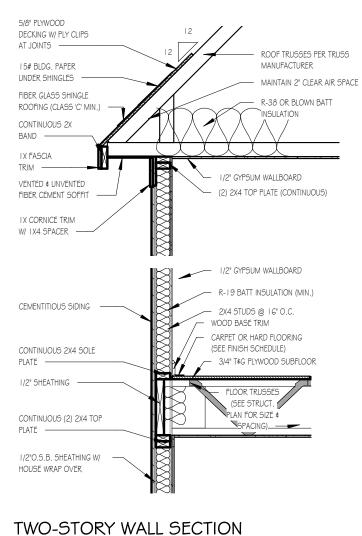




LUG FOOTING

1/2" = 1'-0"

1/2" = 1'-0"



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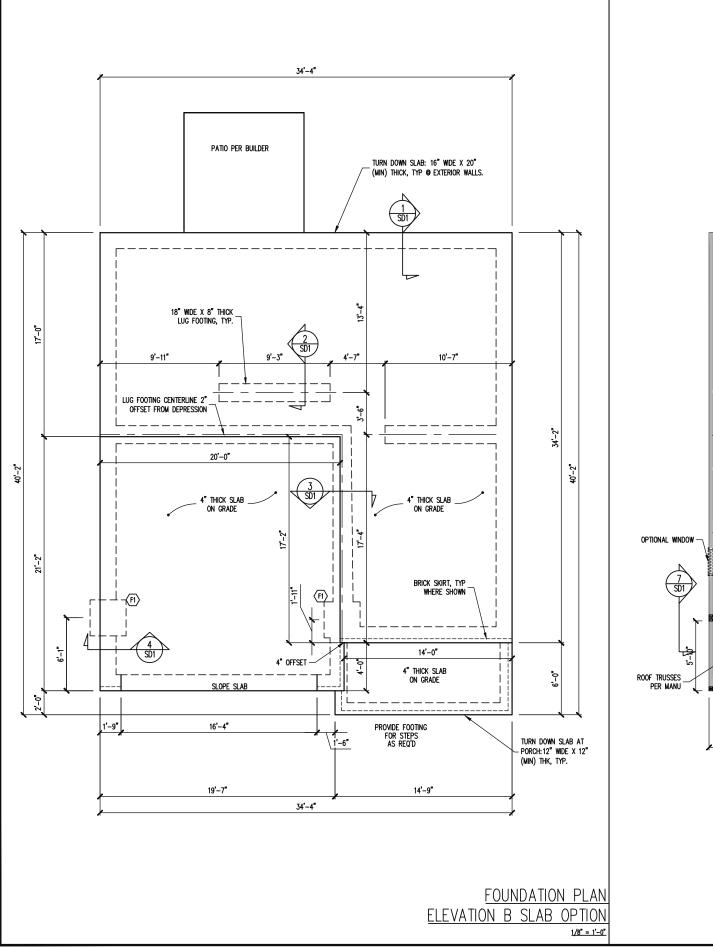


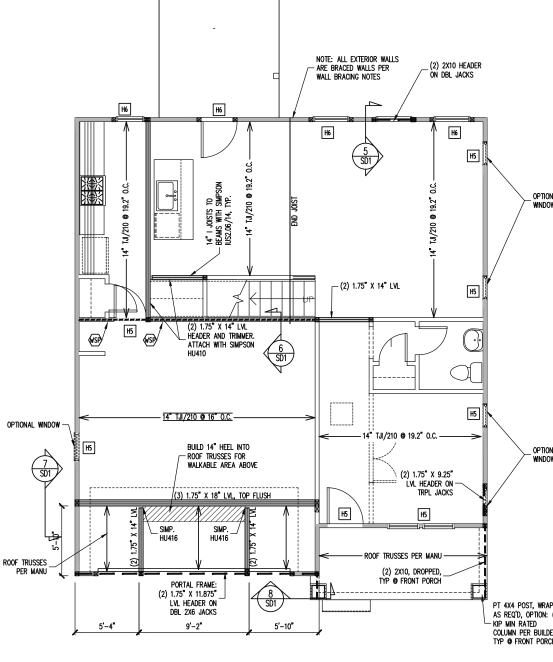
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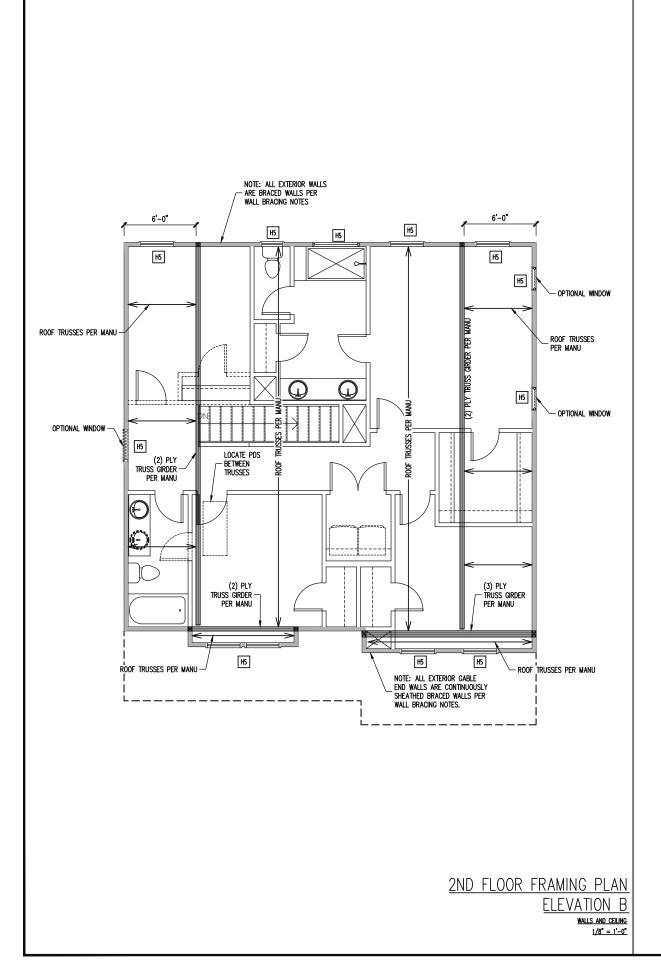
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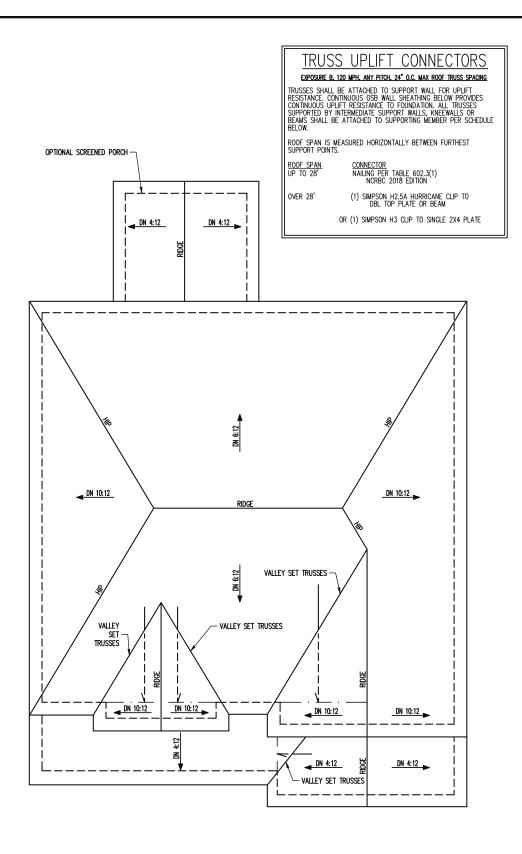




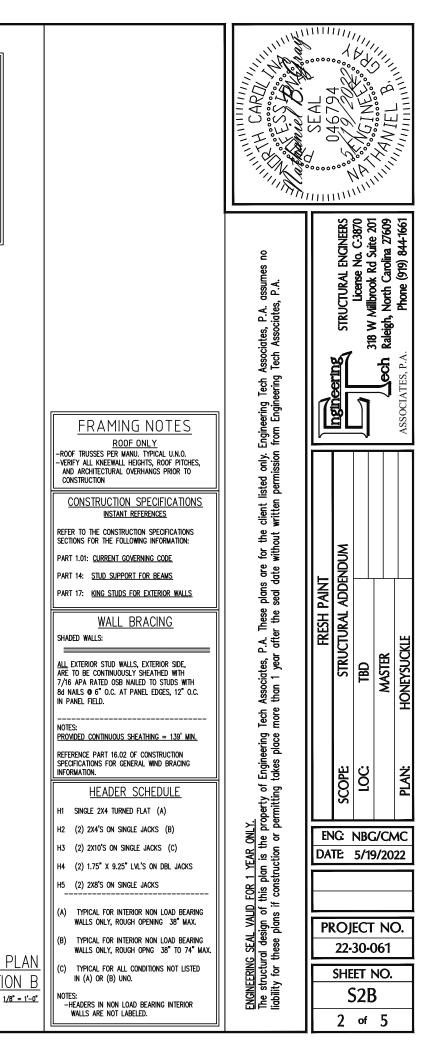
<u>1ST FLOOR FRAMING P</u> <u>ELEVATIO</u> walls and 1/8<sup>-1</sup>

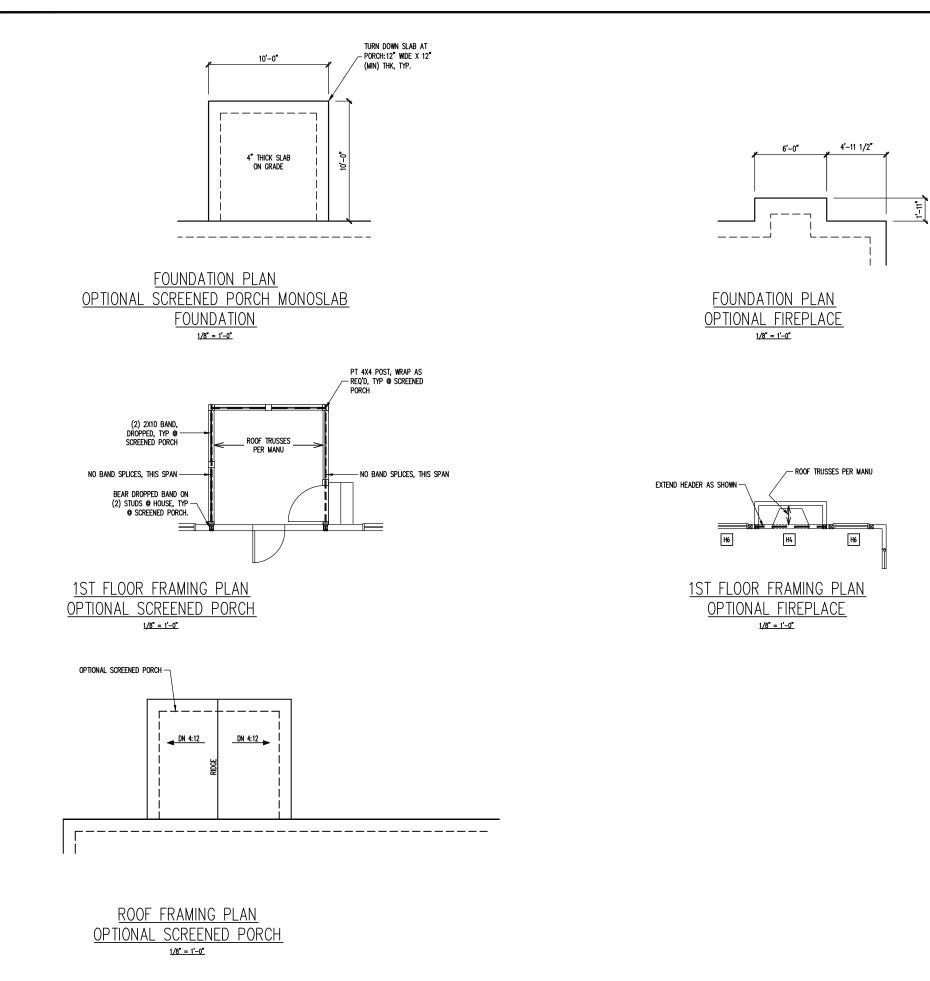
		TH CARD	SEAL SEAL SEAL	040/24 5/19/2022: ~	TANGINE AN	IN NEL B.	
WAL W	TRUSS_SUBSTITUTION         14" I-JOISTS PERMITTED TO BE SUBSTITUTED WITH         14" FLOOR TRUSSES.         MAINTAIN MINIMUM SPACING AS CALLED OUT ON         PLANS.         SIMP. IUS/ITS2.06/XX HANGERS TO BE SUBSTITUTED         WITH SIMP. IUS/ITS3.56/XX HANGER WHEN FLOOR         TRUSSES HAVE BEEN INSTALLED.         CONSTRUCTION SPECIFICATIONS         INSTANT REFERENCES         REFER TO THE CONSTRUCTION SPECIFICATIONS         SECTIONS FOR THE FOLLOWING INFORMATION:         PART 1.01: CURRENT GOVERNING CODE         PART 1.4: STUD SUPPORT FOR BEAMS         PART 17: KING STUDS FOR EXTERIOR WALLS         SEE DETAIL / CONSTRUCTION SPECIFICATIONS         SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS	plans are for the client listed only. Engineering Tech Associates, P.A. assumes no seal date without written permission from Engineering Tech Associates, P.A.	Ingineering     STRUCTURAL ENCINERS       318 W Millbrook Rd Suite 201       ech     Raleigh, North Carolina 27609       ASSOCIATES, P.A.     Phone (919) 844-1661				
INAL W (3)	WALL BRACING           SHADED WALLS:           ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS © 6° O.C. AT PANEL EDGES, 12° O.C. IN PANEL FIELD.           WSP - ONE SIDE OF INTERIOR WALL OR INSIDE OF EXTERIOR WALL WITH 3/8° MIN. THICKNESS WOOD STRUCTURAL PANELING. ATTACH WSP TO STUD WALL WITH 8d NAILS © 4° O.C. AT PANEL EDGES, 8° O.C. IN PANEL FIELD.           NOTES: PROVIDED CONTINUOUS SHEATHING = 155' MIN.           REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.           HEADER SCHEDULE H1 SINGLE 2X4 TURNED FLAT (A) H2 (2) 2X4'S ON SINGLE JACKS (B) H3 (2) 2X10'S ON SINGLE JACKS (C) H4 (2) 1.75° X 9.25° LVL'S ON DBL JACKS H5 (2) 2X8'S ON SINGLE JACKS           (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUCH OPENING 38° MAX.	ENGINEERING SEAL VALID FOR 1 YEAR ONLY. The structural design of this plan is the property of Engineering Tech Associates, P.A. These plans are for the client listed only. E liability for these plans if construction or permitting takes place more than 1 year after the seal date without written permission t	FRESH PAINT	SCOPE: STRUCTURAL ADDENDUM	LOC: TBD	MASTER	PLAN: HONEYSUCKLE
ин. Сн. Р <u>LAN</u>	(B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX. (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO. NOTES: -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED. FOUNDATION SCHEDULE F1 ENLARGE FOOTING TO 36" SQ. X 12" THK 	ENGINEERING SEAL VALID FOR 1 YEAR ONLY The structural design of this plan is the pr iability for these plans if construction or p		TE ROJ 22-	NBC 5/19 ECT 30-0	)/20 N( )61	22
<u>ND CEILING</u> 3" = 1'-0"	-HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION.	ENGIN The s liabilit		2 1	51B of	5	



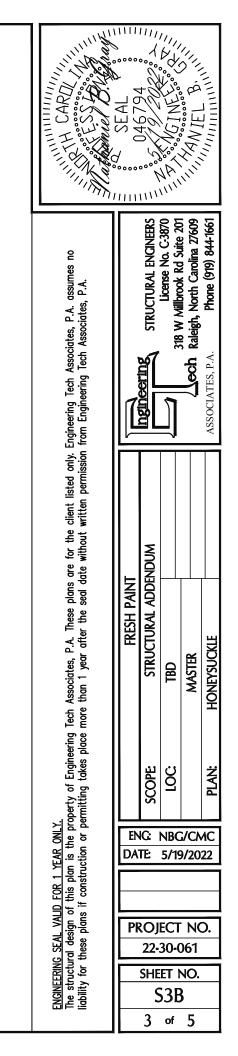


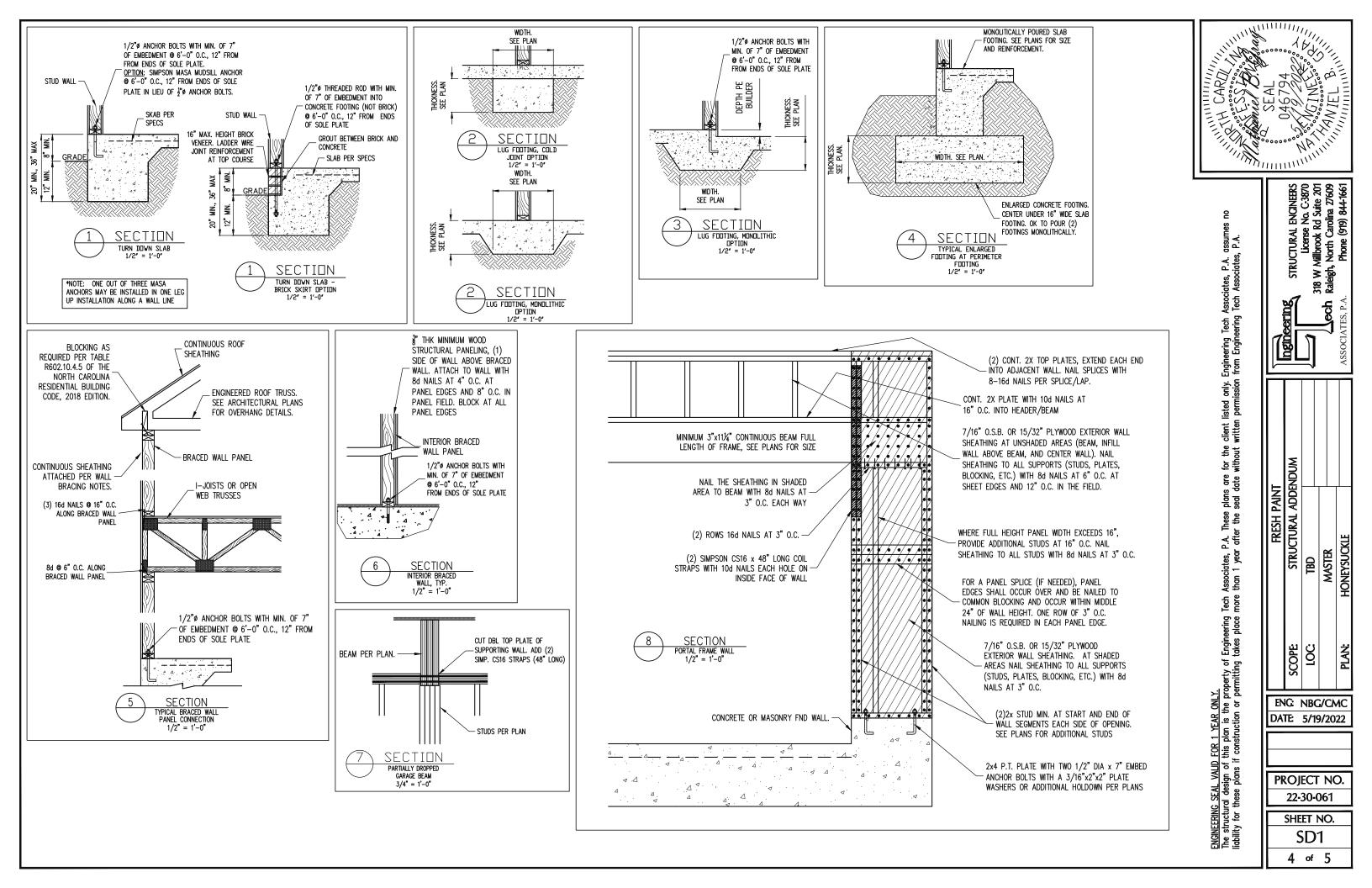
ROOF FRAMING PLAN ELEVATION B





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	<u>CONSTRUCTION</u>	SPECIFICATION	<u>S</u>					
E	ART 1: GENERAL	7.04 MASONRY CONSTRUCTION	SHALL CONFORM TO THE SPECIF	ications of ACI 530		WITHIN THE CAVITY FORMED BY THE		
	ONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL ODE, 2018 EDITION.	7.05 LADDER WIRE REINFORCE	MENT SHALL CONFORM TO ASTM	A951. 6" MIN LAPS		FLOOR JOISTS. PART 15: NAILING OF MULTI PLY WOOD BEAMS		
	IMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.	FOR CONTINUOUS WALL APPLICATIONS PART 8: BOLTS AND LAG SCREWS		15.01	SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE			
1.05	IETHOUS SHOWN SHALL COLLEGE OF AN ALL OF MILESE DRAWINGS. IETHOUS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF HE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND SURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.			10.01	ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 100 NAIL © 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 100 NAILS © 16" O.C. FOR 2X8, O ROW OF 100 NAILS © 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN.			
E	ART 2: DESIGN LOADS	PART 9: DRIVEN FASTENE 9.01 NAILS, SPIKES AND STAP	<u>rs</u> Les shall conform to astm f	1667– 05. NAILS ARE TO BE	15.02	LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBEI IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP UNO		
2.01	ESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:	COMMON WIRE OR BOX				PART 16: WALL FRAMING AND BRACING		
	USE LIVE LOAD (PSF) DEAD LOAD (PSF) BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH	PART 10: DIMENSIONAL LUMBER 10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR <u>OR</u> SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC.		16.01	STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHAL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CELIN OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A			
	TIXED STAIR ACCESS, STAIRS, FIRE ESCAPES 40 10	PART 11: ENGINEERED LUMBER				STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS TYP LINO		
	GARAGES (PASSENGER CARS ONLY)       50        11.01       LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:         ATTICS (NO STORAGE, LESS THAN 5' HEADROOM)       10       10       10       E= 1.9 X 10E6 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI         ATTICS (WTH STORAGE)       20       10       10       LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:         ROOF       20       10 (15 FOR VAULTS)       E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI		c = 750 PSI OWS:		MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, WITH SOLE PLATE AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2X4 / 2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO: 2X4 @ 16" 0.C.: 11'-0" 2X6 @ 16" 0.C.: 17'-0" 2X4 @ 12" 0.C.: 12'-0" 2X6 @ 12" 0.C.: 18'-8"			
NOTES:	- Individual stair treads are to be designed for the uniformily distributed Live Load of 40 PSF or a 300 LB. Concentrated Load Acting over an Area				16.02	DBL 2X4 @ 16" 0.C.: 13"-4" DBL 2X6 @ 16" 0.C.: 21"-0" FOR WALL BRACING THE FOLLOWING SHALL APPLY: -BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO. -WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10		
	OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS. – BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS	PART 12: PRESSURE TREATED LUMBER 12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER						
2.02	ITESE CONDITIONS NTERIOR WALLS: 5 PSF LATERAL	SHALL BE TREATED IN A GIVING EQUAL PROTECTIO	CCORDANCE WITH AWPA STANDAI IN. THE BUILDING CODE OFFICE M	RD C-2 OR BY ANY METHOD		OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED. -BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC		
	BASIC WIND DESIGN VELOCITY OF 120 MPH.	DECAY RESISTANT WOOD	()			PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCREC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS. -MAY SUBSTITUTE WSP FOR GB		
2.04	SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).	PART 14: STUD SUPPOR 14.01 STEEL. ENGINEERED LUM	<u>is for beams</u> Ber, and flitch plate beams i	BEARING ON A STUD WALL		-SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED		
E	ART 5: CONCRETE AND SLABS ON GRADE	SHALL BEAR AS FOLLOW	S:			WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACE		
5.01	AST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND HALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO.	1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WOTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN IS A NUMBER OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WIDTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO. FOR THE SKEWED			17.01	WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.		
	IL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP					PART 17: KING STUDS KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:		
	REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.	CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM 2-BEAM BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR		17.01	NUMBER OF KING STUDS MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"			
	SLABS ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE MICRO FI DA 6 MII VAPOR PARPIER ON 2" MIN GRANIILAR FILL ON SON WITH 90%	A MINUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO. 14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:			XXX         VEX.NIX         WIX         VEX.NIX         VEX.NI			
	PLACED ON Á 6 MIL VAPOR BARRIER ON 2" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT N ENCLOSED AREAS		LAMS BEARING ON A STUD WALL DICULAR TO, OR SKEWED RELATIV			PART 18: SUBSTITUTIONS		
PART 6: REBAR AND WIRE REINFORCEMENT 6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO 6.02 LAP SPLICES SHALL RE CLASS R AS DEFINED BY ACL 318 TYP UNO		Shall bear <u>full width</u> on	I THE SUPPORTING WALL INDICAT	ED (LESS 1 1/2" TO ALLOW	18.01	MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE		
		GANGED STUD COLUMN THE	FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2010 IS TO BE GUIDODOTED BY (2) COUNCIL AD CARE CONTINUE AD CARE OF A LIABLE AND CARE OF A LIAB			DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PART 19: OWNERSHIP OF STRUCTURAL DESIGN		
		TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A						
6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.		MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN			19.01	THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY		
PART 7: MASONRY		14.03 EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO				OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED		
7.01	CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, I'M = 1,500 PSI MIN	THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.				AND FOR THE CULENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION		
7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW		14.04 STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILED TOGETHER WITH ONE ROW OF 100 NAILS AT 8" O.C. (TWO ROWS OF 100 NAILS 8" OC 3" ADADT FOR DYR DR 2YIC STUDS) AND COLUMNS SHALL				WITHOUT WRITTEN PERMISSION FROM ETA		
	AORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.	OF 104 NAILS @ 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMINS SHALL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED <u>FOR THE FULL WIDTH</u> OF THE STUD COLUMN						
NOTES		ABBREVIATIONS						
THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERWORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENJURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE		ABV ABOVE FND FOUNDATION TJ TRIPLE JOIST			ALLOWABLE I-JOIST SUBSTITUTION			
		B. Both B.E. Both Ends BTWN Between CIP Cast in place	FTG FOOTING HDG HOT DIPPED GALVANIZED HGR HANGER LVL LAMINATED VENEER NTS NOT TO SCALE O.C. ON CENTER PSL PARALLEL STRAND	TYP TYPICAL TRPL TRIPLE TSP TRIPLE STUD POCKET UNO UNLESS NOTED OTHERWISE XJ EXTRA JOIST		NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS.		
		CONC CONCRETE CS CONTINUOUS SHEATHING DIA DIAMETER DBL DOUBLE DJ DOUBLE JOIST				SIMPSON FACE         SIMPSON TOP           MANUFACTURER         DEPTH         SERIES         MOUNT HGR         FLANGE HGR           BLUELINX         14"         BLI 40         IUS2.56/14         ITS2.56/14           BOISE         CASCADE         14"         BCI 5000s         IUS2.06/14         ITS2.06/14		
	iractors does not perform fenestration or venting calculations or any other	DSP DBL STUD POCKET EQ EQUAL	LUMBER PT PRESSURE TREATED			BOISE CASCADE         14"         BCI 6000S         IUS2.37/14         ITS2.37/14           LP CORP         14"         LPI 20+         IUS2.56/14         ITS2.56/14		
CALCUL	TIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.	EA EACH FLG FLANGE FL PL FLITCH PLATE	QJ QUAD JOIST SP STUD POCKET SQ SQUARE			NORDIC         14"         NI 40X         IUS2.56/14         ITS2.56/14           ROSEBURG         14"         RFPI 40s         IUS2.56/14         ITS2.56/14           WEYERHAEUSER         14"         TJI 210         IUS2.06/14         ITS2.06/14		
	id floor trusses to be designed by an engineer registered by the state. Final Rawing should be submitted to the eor for review	FLR FLOOR	ou outrine			WEYERHAEUSER 14" TOTI 210 1032.00/14 1132.00/14 WEYERHAEUSER 14" EEI-20 IUS2.37/14 ITS2.73/14		

MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH EQUIVALENT VALUES AS DESIRED.

