# **Residence for**

## Garman Homes Lot 0257 Serenity Fuquay Varina, North Carolina

#### INDEX TO DRAWINGS

CC	VER SHEET
1	FRONT & LEFT SIDE ELEVATIONS

- 2 REAR & RIGHT SIDE ELEVATIONS
- 3 FIRST & SECOND FLOOR PLANS F FIRST & SECOND FLOOR FLECTRICAL PLANS
- E FIRST & SECOND FLOOR ELECTRICAL PLANS M FIRST & SECOND FLOOR MECHANICAL PLANS
- P FIRST & SECOND FLOOR MECHANICAL PLAN
- D 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 Image: Search/Compact Fill Image: Search/Compact Fill Finish wood Image: Search/Compact Fill Image: Search/Compact Fill Rough wood Image: Search/Compact Fill Rough wood Image: Search/Compact Fill Ima

#### 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

- 1 FOUNDATION PLAN & FIRST FLOOR FRAMING PLAN
- S2 SECOND FLOOR FRAMING PLAN & ROOF FRAMING PLAN
- S3 GARAGE FOUNDATION PLAN, FIRST FLOOR & ROOF FRAMING PLANS SD1 STRUCTURAL DETAILS
- 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: 29'-7"
- 5. COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS:

MEAN ROOF HGT:	UP TO 30'	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-49 / WALLS: R-15 / FLOOR: R-19 SLABS: R-10. CODE REFERENCE: TABLE N1102.1

#### AREA CALCULATIONS

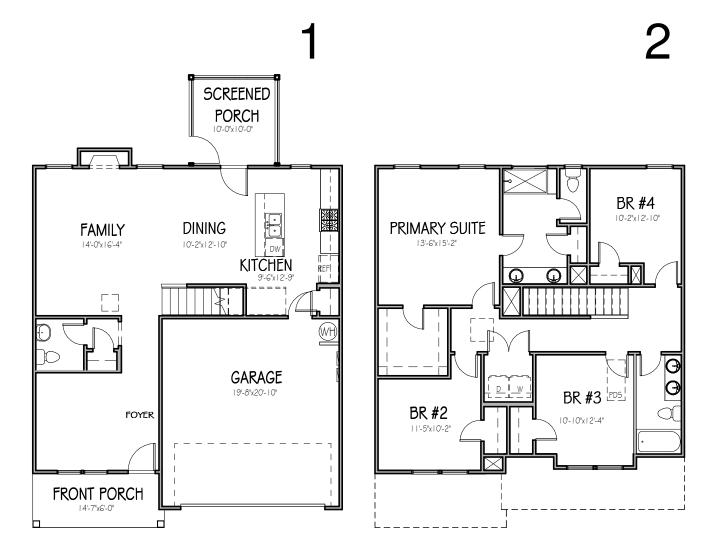
HEATED (SQ	<u>. FT.)</u>	UNHEATED (SC	<u> 2. FT.)</u>	UNFINISHED	<u>(SQ. FT.)</u>
1ST FLOOR: 2ND FLOOR:	830 1112	FRONT PORCH: GARAGE: SCREEN PORCH:	85 425 100	BASEMENT: 1ST FLOOR: 2ND FLOOR: ATTIC:	N/A N/A N/A N/A
TOTAL:	1942	TOTAL:	525	TOTAL:	N/A
					ISIONS
				WIDTH: DEPTH:	34'-4" 50'-2"

#### 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

HONEYSUCKLE SER ELEVATION A LOT 0257 SERENITY

Drawn By	
MMH	
Checked By	
JM	
Date Drawn	
3/15/20	
Revision Date	
7/2/20	
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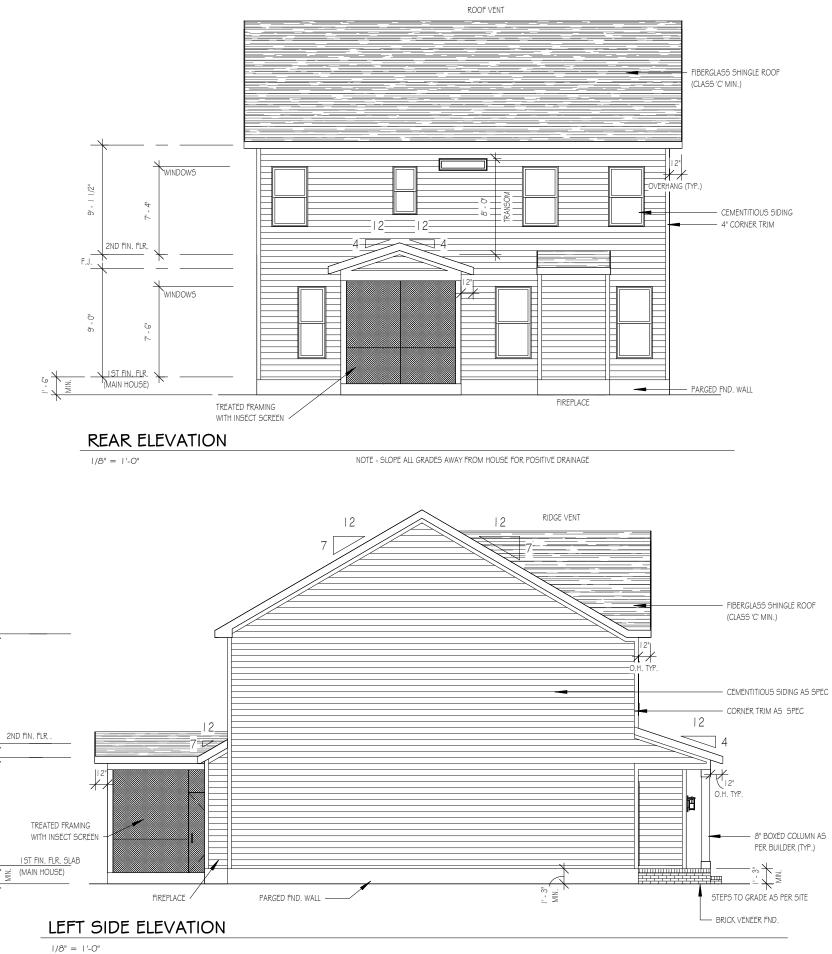


THE PURPOSE OF THESE DRAWINGS IS TO SHOW THE INTENT OF THE DESIGN AND CONSTRUCTION OF THIS HOME. CONTRACTOR SHOULD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ONCE A PERMIT HAS BEEN ISSUED, CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY TO THE ACCURACY OF THE PLANS AND ANY CHANGES MADE DURING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

P FRESH : PAINT by Garm

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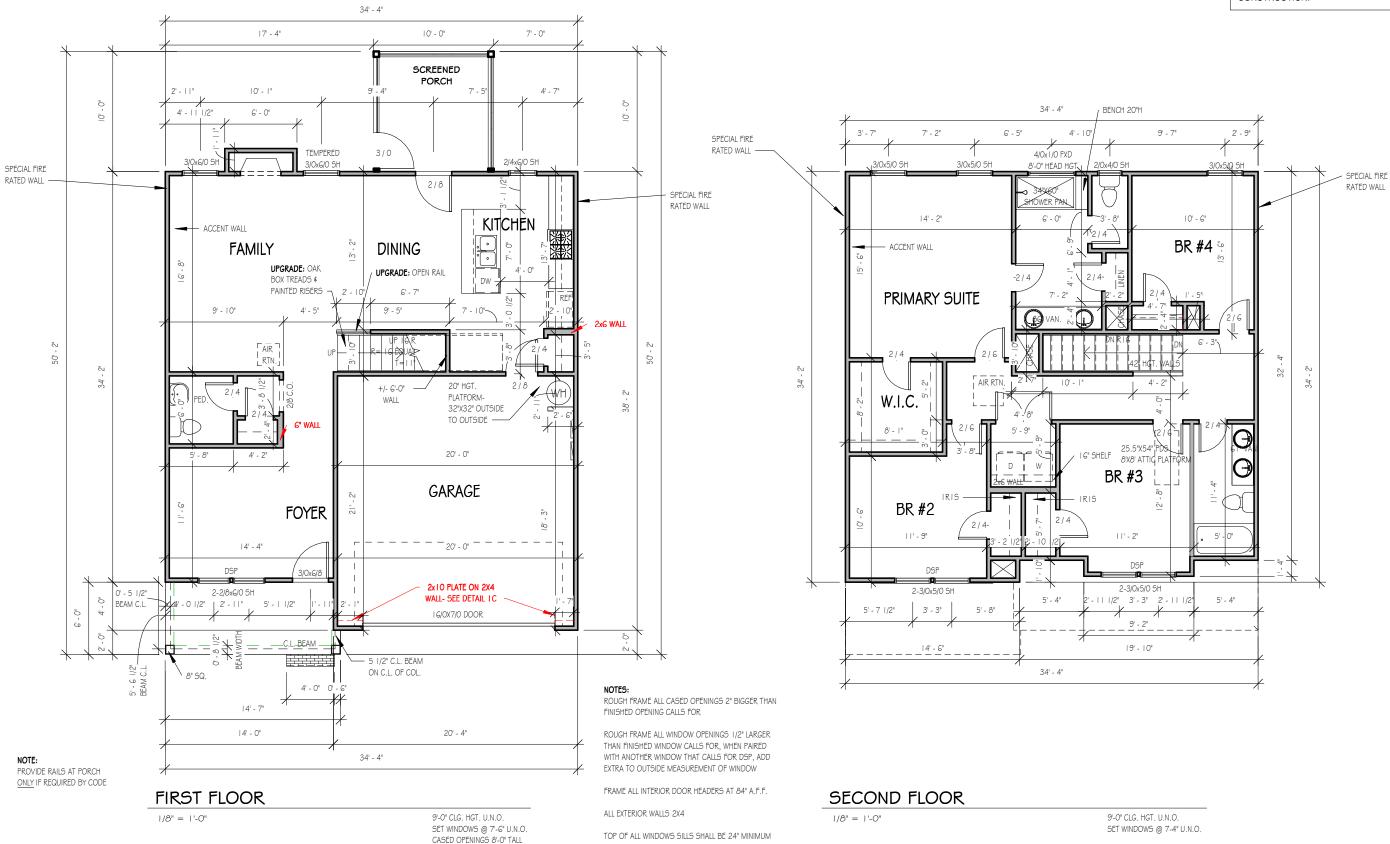


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HONEYSUCKLE SER ELEVATION A LOT 0257 SERENITY

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CM
Date Drawn
4/8/20
Revision Date
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4/5/22
10/26/22
2/21/23



GBG (GRILL BETWEEN GLASS) TO BE ADDED TO CORNER LOT WINDOWS

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

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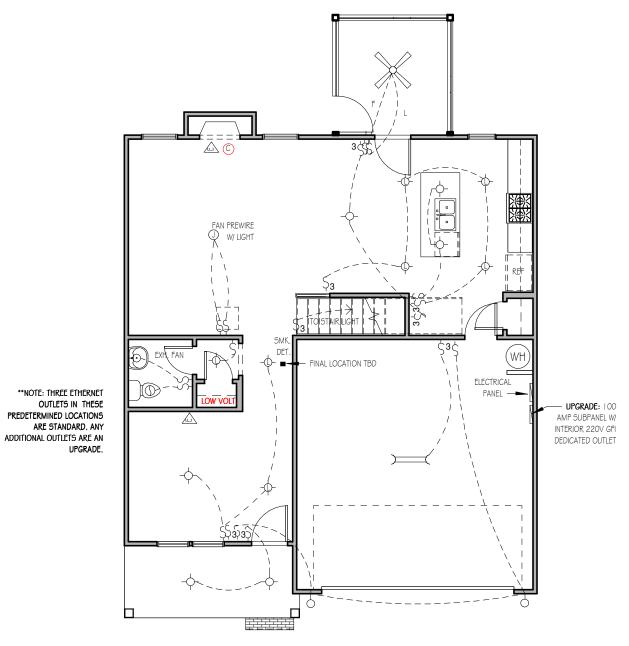
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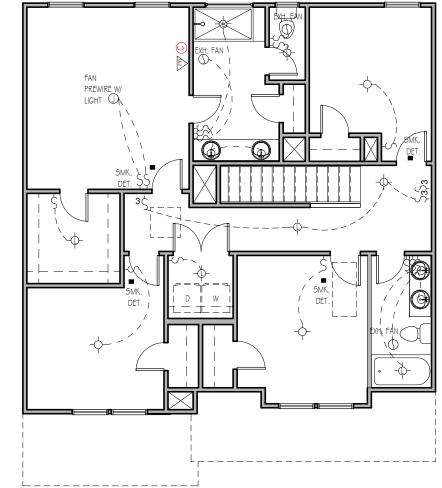




#### FIRST FLOOR ELECTRICAL PLANS

1/8" = 1'-0"

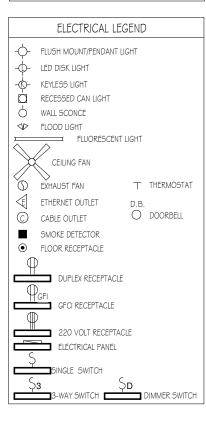
NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.



#### SECOND FLOOR ELECTRICAL PLAN

|/8" = |'-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. 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.



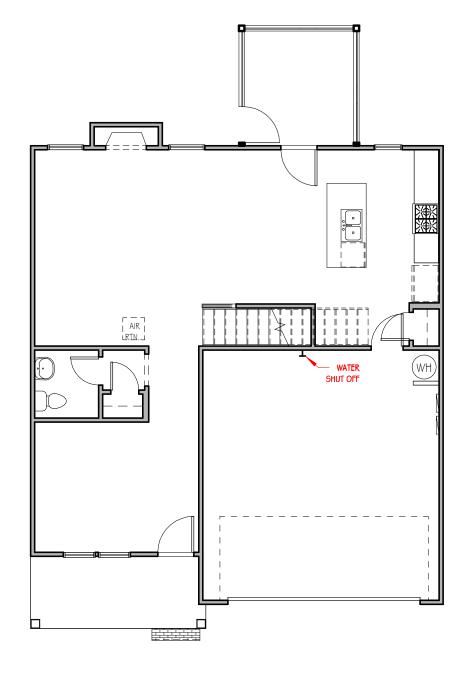


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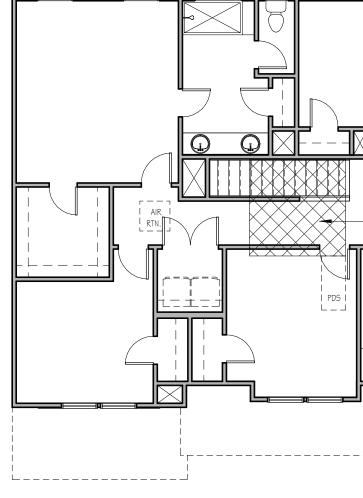
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1/8" = 1'-0"



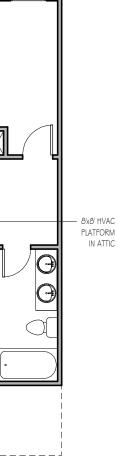


|/8" = |'-0"

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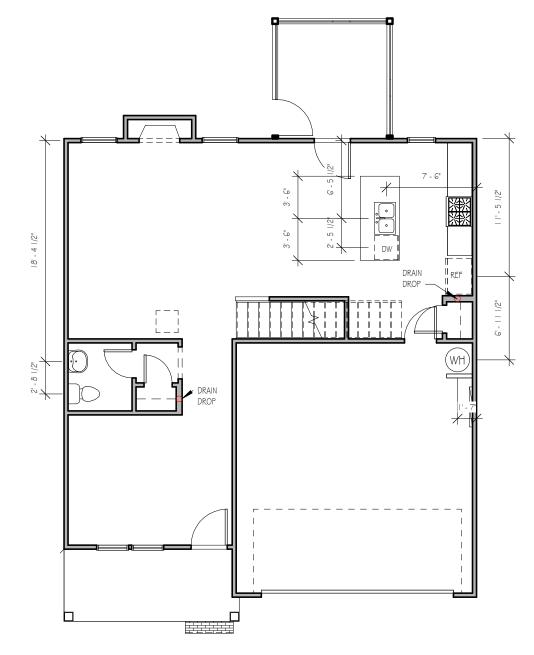


HONEYSUCKLE SER ELEVATION A LOT 0257 SERENITY

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# M



FIRST FLOOR PLUMBING

1/8" = 1'-0"

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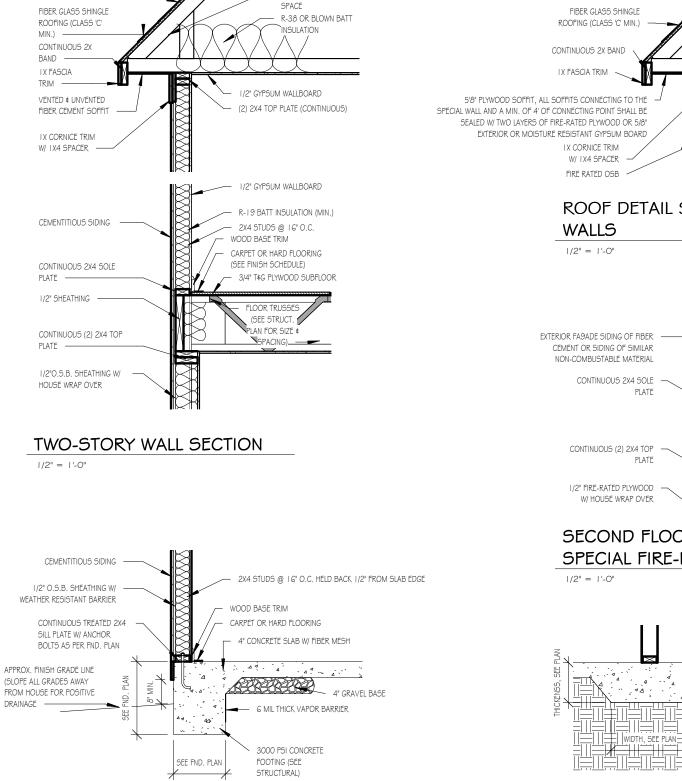


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2/21/23



ROOF TRUSSES PER TRUSS

MAINTAIN 2" CLEAR AIR

MANUFACTURER

#### FOUNDATION DETAIL - SLAB

1/2" = 1'-0"

5/8" PLYWOOD

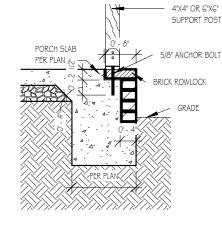
AT JOINTS

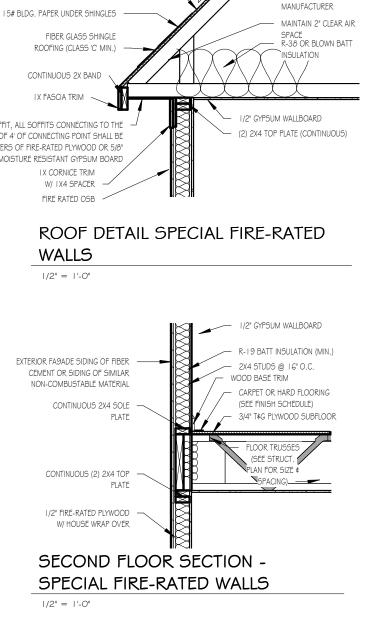
DECKING W/ PLY CLIPS

15# BLDG. PAPER

UNDER SHINGLES

1/2" = 1'-0"





ROOF TRUSSES PER TRUSS

1/2" FIRE-RATED PLYWOOD -

FROM WALL ASSEMBLY

DECKING W/ PLY CLIPS AT JOINTS

EXTENDING AMIN. OF 4' AWAY

1/2" = 1'-0"

#### FRONT PORCH COLUMNS SUPPORT ATTACHMENT

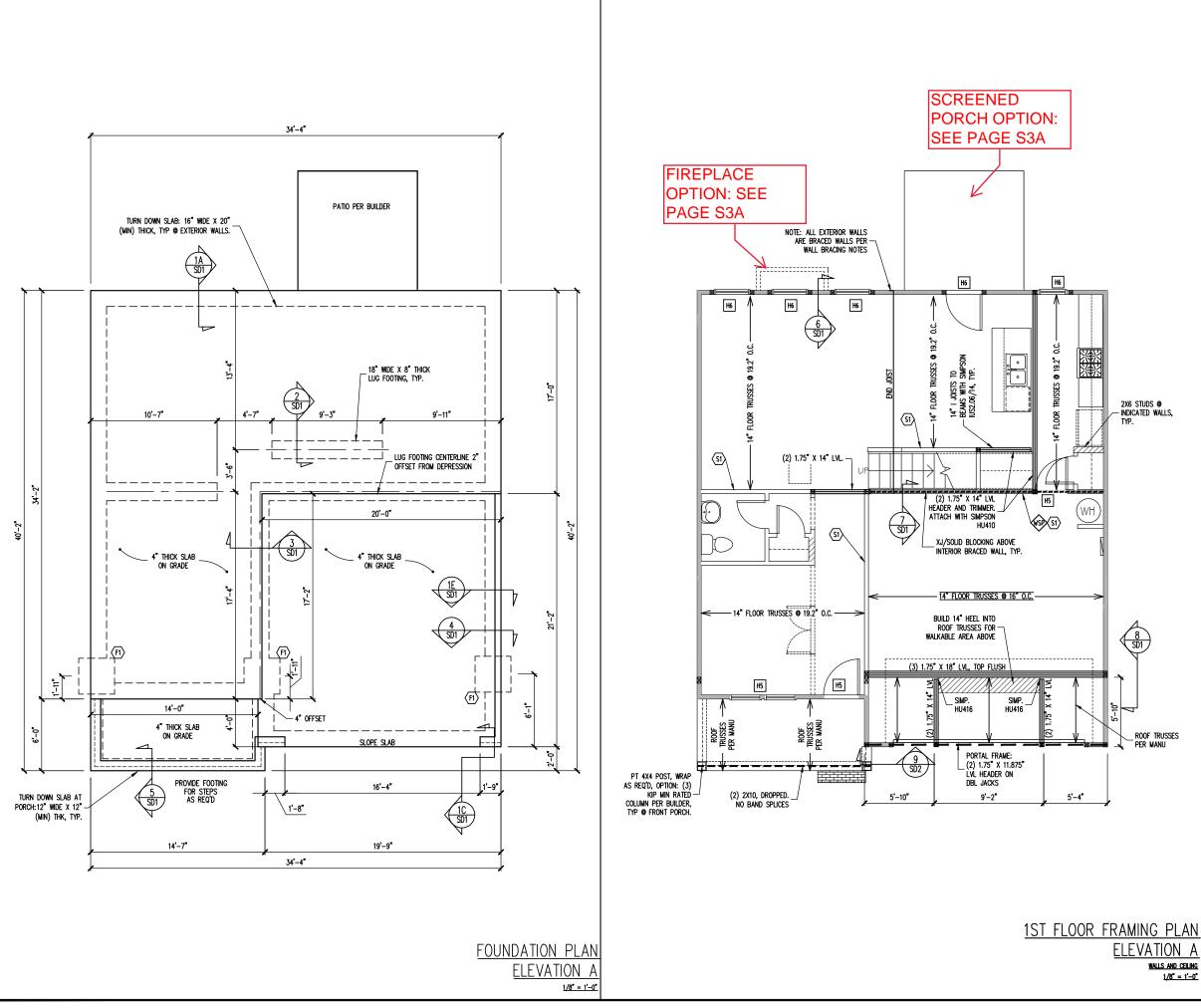
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JM
Date Drawn
10/28/20
Revision Date
9/14/22
9/20/22

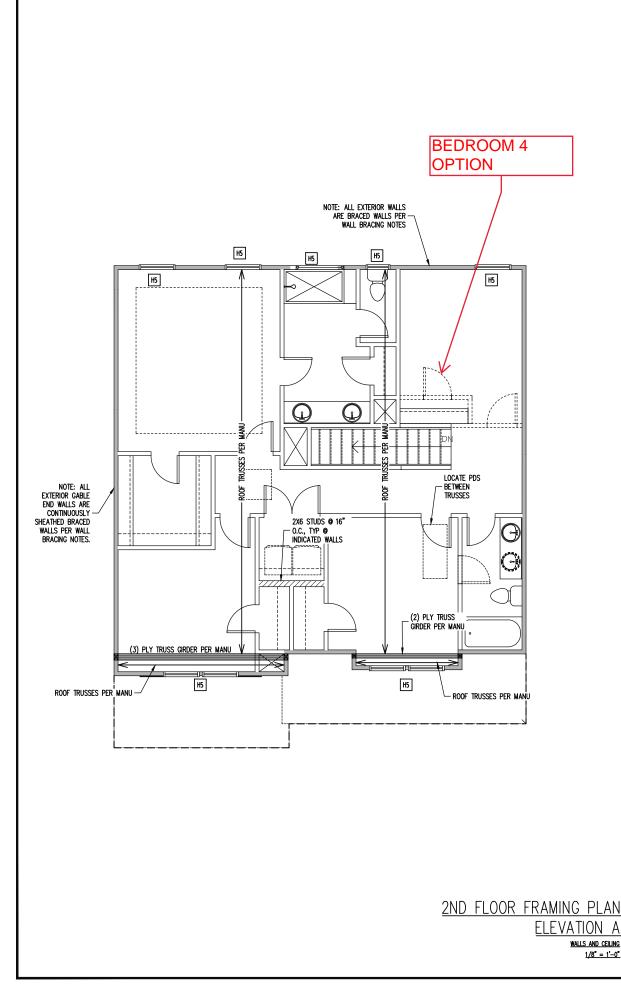


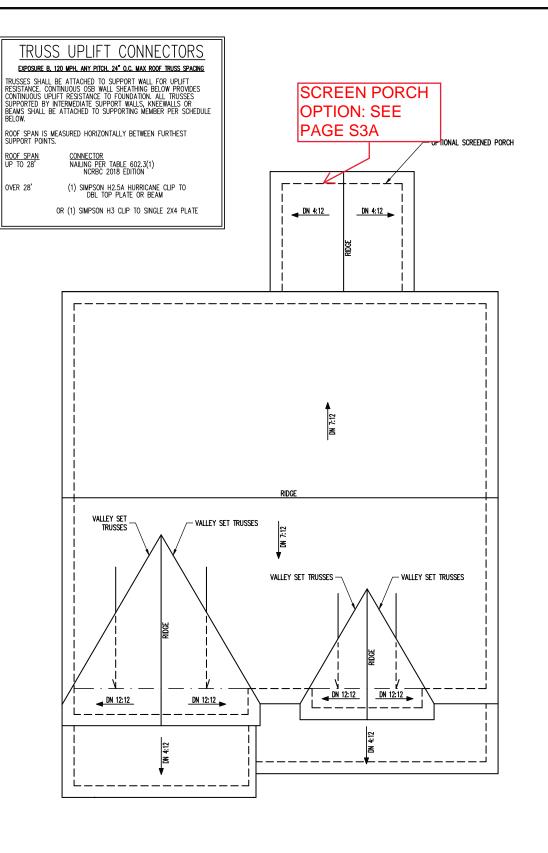
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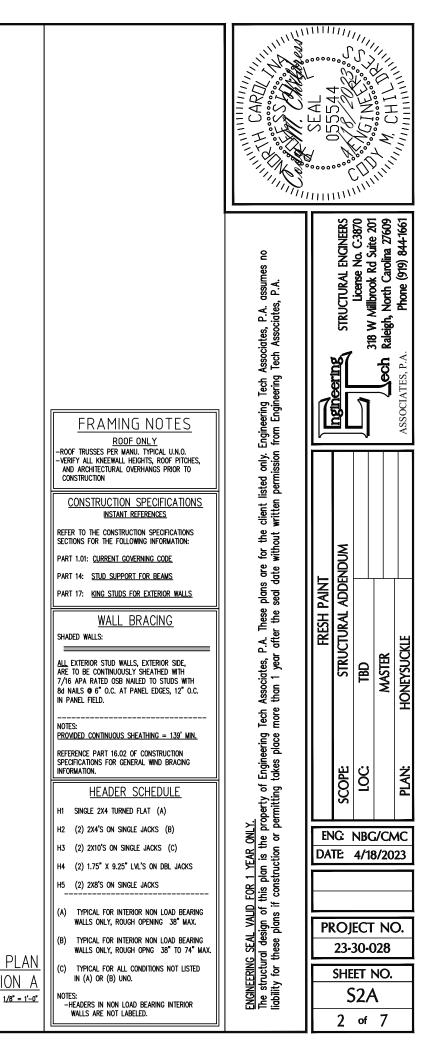


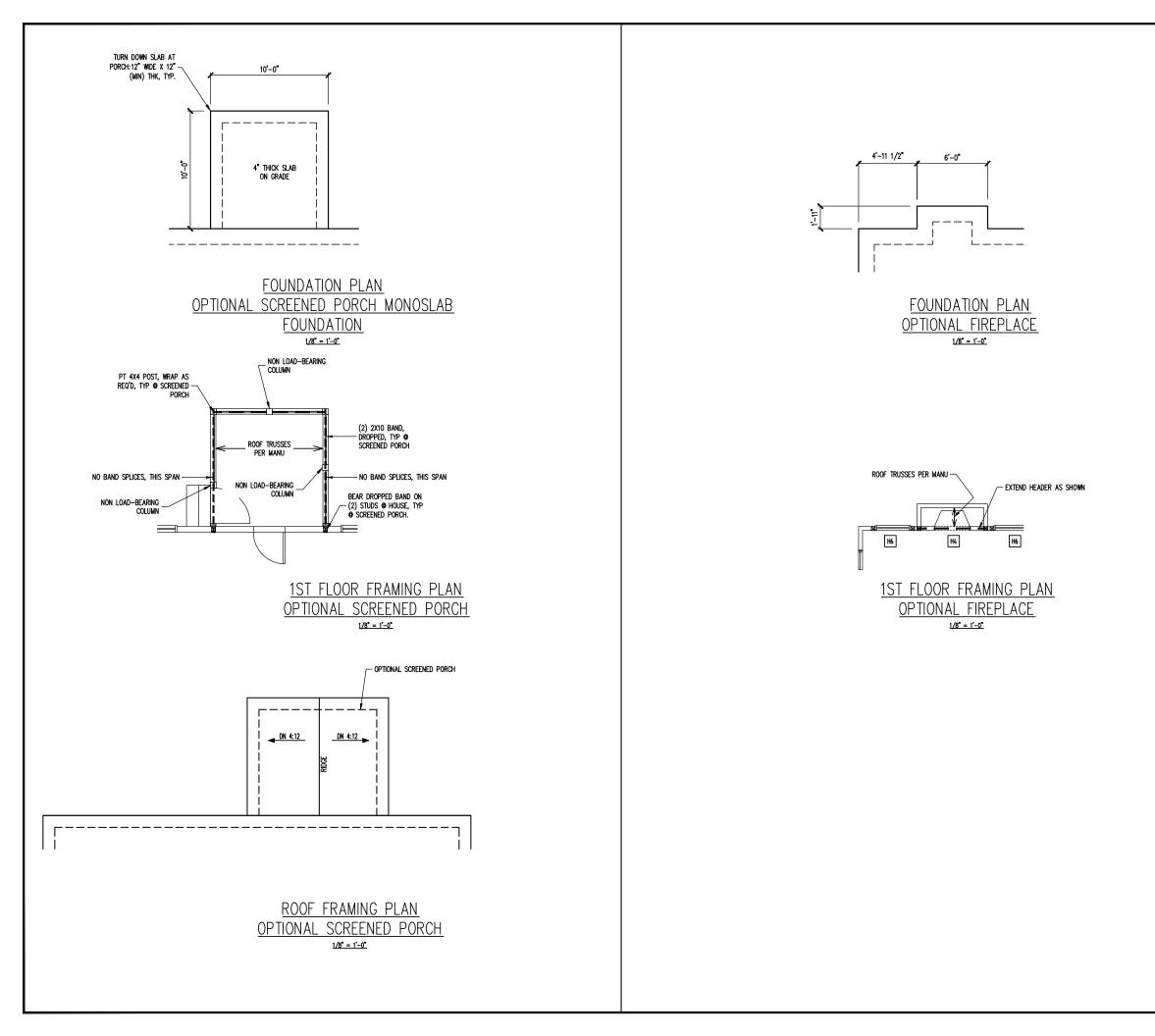
 $\forall$ SEAL 05554 05554 H FRAMING SCEDULE ပ INTERIOR LOAD BEARING WALL: SECURE TO THICKENED SLAB BELOW WITH 1/2" RED HEADER ANCHOR (OR EQUAL) @ 6'-0" O.C., 12" MAX FROM ENDS / CORNERS OF WALL, 7" MIN EMBEDMENT INTO SLAB BELOW. JOIST SUBSTITUTION 14" FLOOR TRUSSES PERMITTED TO BE SUBSTITUTED WITH 14" I-JOISTS. STRUCTURAL ENGINEERS License No. C-3870 B W Millbrook Rd Suite 201 leigh, North Carolina 27609 Phone (919) 844-1661 MAINTAIN MINIMUM SPACING AS CALLED OUT ON PLANS. 2 SIMP. IUS/ITS3.56/14 HANGERS TO BE SUBSTITUTED WITH SIMP. IUS/ITS2.06/14 HANGER WHEN I-JOISTS HAVE BEEN INSTALLED. 8 <u>-</u> CONSTRUCTION SPECIFICATIONS P.A. o INSTANT REFERENCES 318 W A Raleigh, REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION: ates, Assoc Assoc Tech PART 1.01: CURRENT GOVERNING CODE S PART 14: STUD SUPPORT FOR BEAMS Tech PART 17: KING STUDS FOR EXTERIOR WALLS Engineering <sup>-</sup> from Engine ngin SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS WALL BRACING only. ission SHADED WALLS: listed ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH client li written 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD. for the without Fresh Paint Structural addendum WSP - ONE SIDE OF INTERIOR WALL OR INSIDE OF EXTERIOR WALL WITH 3/8" MIN. THICKNESS WOOD STRUCTURAL PANELING. ATTACH WSP e plans are seal date v TO STUD WALL WITH 8d NAILS @ 4" O.C. AT PANEL EDGES, 8" O.C. IN PANEL FIELD. NOTES PROVIDED CONTINUOUS SHEATHING = 145' MIN. ciates, P.A. These | 1 year after the s REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION. MASTER TBD HEADER SCHEDULE Assoc than SINGLE 2X4 TURNED FLAT (A) H1 H2 (2) 2X4'S ON SINGLE JACKS (B) Tech more H3 (2) 2X10'S ON SINGLE JACKS (C) eering place (2) 1.75" X 9.25" LVL'S ON DBL JACKS II H4 (2) 2X8'S ON SINGLE JACKS Engin. takes H5 OPE Ö (2) 2X8'S ON DOUBLE JACKS H6 property of permitting t a TYPICAL FOR INTERIOR NON LOAD BEARING (A) WALLS ONLY, ROUGH OPENING 38" MAX. G SEAL VALID FOR 1 YEAR ONLY. real design of this plan is the pro-these plans if construction or pe TYPICAL FOR INTERIOR NON LOAD BEARING ENG: NBG/CMC (B) WALLS ONLY, ROUGH OPNG 38" TO 74" MAX. DATE: 4/18/2023 TYPICAL FOR ALL CONDITIONS NOT LISTED (C) IN (A) OR (B) UNO. NOTES -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED. PROJECT NO. FOUNDATION SCHEDULE 23-30-028 ENLARGE FOOTING TO 36" SQ. X 12" THK ENGINEERING The structural liability for th SHEET NO. OTES -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION. S1A <u>1/8" = 1'-0"</u> 1 of 7

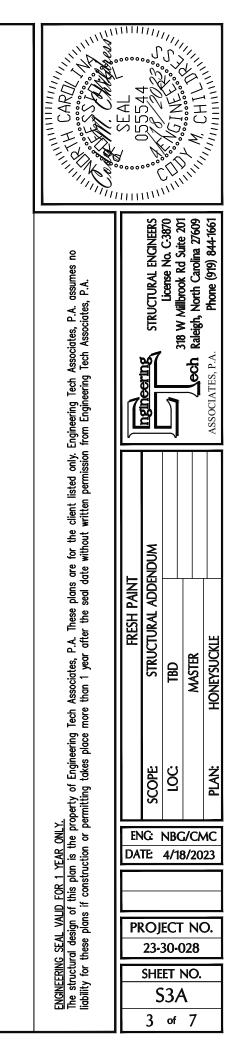


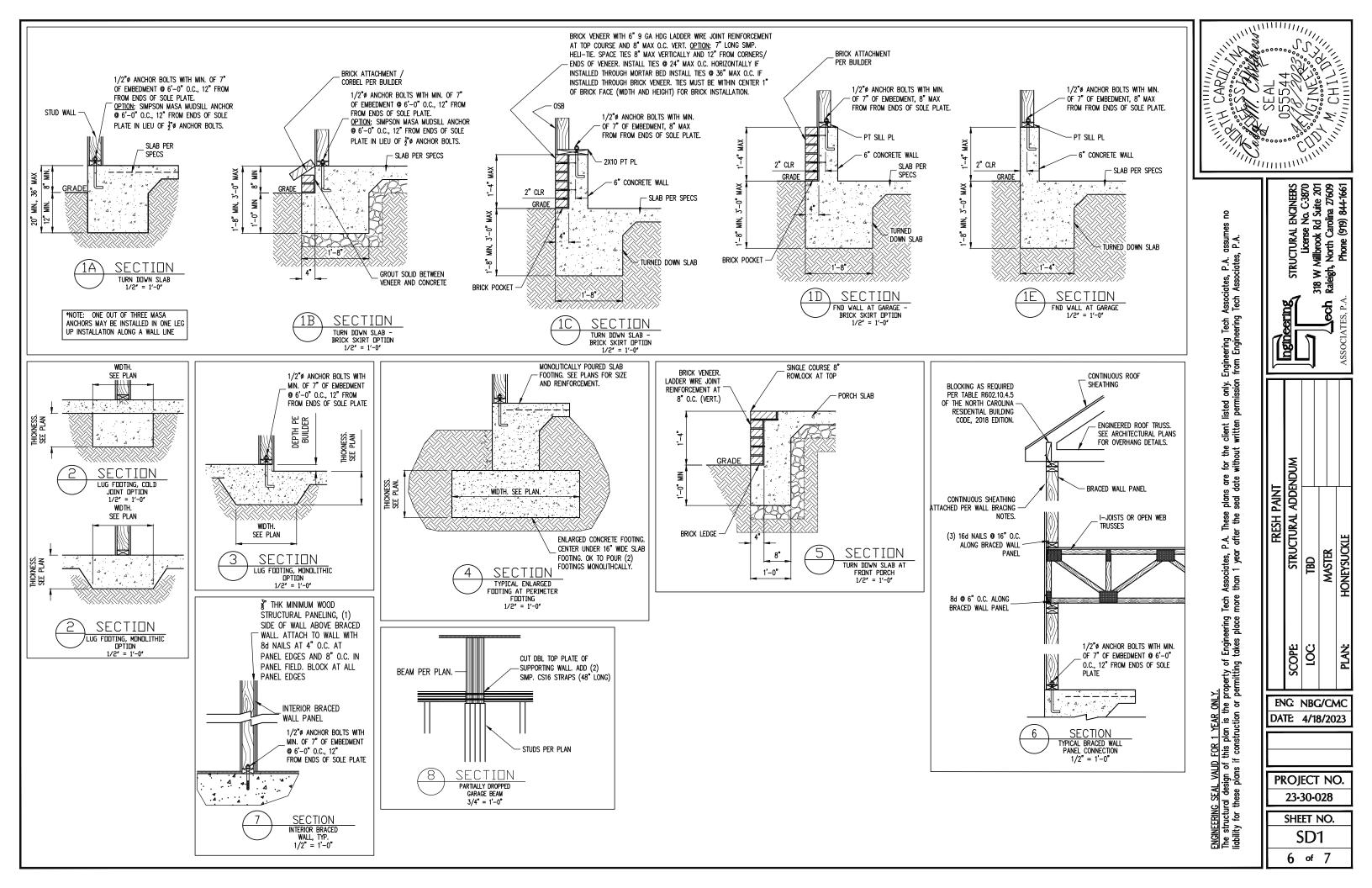


ROOF FRAMING PLAN ELEVATION A









CONSTRUCTION	SPECIFICATIONS			
PART 1: GENERAL 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION. 1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS. 1.05 NETWORE DEOCEMENTS AND SECURINGES OF CONSTRUCTION ARE THE RESERVICEMENTS OF	1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH 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 CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CHERED ON THE BEAM. BEADING ONTO THE END OF A STID WALL BADAULE TO THE BEAM.	INTO ADJACENT WALL. NAIL SPLICES WITH		
1.05 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. PART 2: DESIGN LOADS	2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.	16" O.C. INTO HEADER/BEAM		
2.01       DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:         USE         LIVE LOAD (PSF)       DEAD LOAD (PSF)         BALCONIES, DECKS, ATTICS WITH FIXED STAIR       ACCESS, DWELLING UNITS INCLUDING ATTICS WITH         FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES       40       10         GARAGES (PASSENGER CARS ONLY)       50          ATTICS (NO STORAGE, LESS THAN 5' HEADROOM)       10       10         ATTICS (NOT STORAGE, LESS THAN 5' HEADROOM)       10       10         ROOF       20       10 (15 FOR VAULTS)	<ul> <li>14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:</li> <li>1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2' TO ALLOW FOR A CONTINUOUS BIM JOIST HIFER APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TARKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM</li> <li>2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO.</li> <li>14.03 EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.</li> <li>14.04 STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NALED TOGETHER WITH ONE ROW OF 101 MAILS AT 8" O.C. (TWO ROWS OF 101 MAILS DI W.C. THE FOUNDATION OR OTHER PROPERLY DESIGNED.</li> </ul>	SHEATHING AT UNSHADED AREAS (BEAM, INFILL WALL ABOVE BEAM, AND CENTER WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD. WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO		(2)
<ul> <li>NOTES: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 5.0. WHICHEVER PRODUCES THE GREATER STRESS.</li> <li>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</li> <li>2.02 INTERIOR WALLS: 5 PSF LATERAL.</li> <li>2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.</li> <li>2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).</li> </ul>	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 FOR THE FULL WIDTH WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS. PART 15: NAILING OF MULTI PLY WOOD BEAMS 15.01 SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10D ANLLS © 16° O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10D ANLLS © 16° O.C. FOR 2X8 ONE ROW OF 10D ANLE O 16° O.C. FOR 2X6 OR SMALLER. STAGER ROWS 5° MIN.	FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING AND OCCUR WITHIN MIDDLE 24" OF WALL HEIGHT. ONE ROW OF 3" O.C. NAILING IS REQUIRED IN EACH PANEL EDGE.		(2) S Strai Inside
<ul> <li>PART 5: CONCRETE AND SLABS ON GRADE</li> <li>5.01 CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP UNO.</li> <li>5.03 SLABS ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU JD. SLAB TO BE PLACED ON A 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 IN ENCLOSED AREAS</li> </ul>	<ul> <li>15.02 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP UNO</li> <li>PART 16: WALL FRAMING AND BRACING</li> <li>16.01 STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CELING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS. SHALL BE CONTINUOUS, TYP UNO.</li> </ul>			CONCI MASO SHALL OF TH
PART 7: MASONRY 7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI. 7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS	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: 16.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY: -BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO.	WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS 2x4 P.T. PLATE WITH TWO 1/2" DIA x 7" EMBED ANCHOR BOLTS WITH A 3/16"x2"x2" PLATE		
FOR CONTINUOUS WALL APPLICATIONS PART 8: BOLTS AND LAG SCREWS 8.03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO PART 9: DRIVEN FASTENERS	-WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NORC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED. -BRACED WALL PANELS SHALL BE FASTBHED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.35 AND R002.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS. -MAY SUBSTITUTE WSP FOR GB -SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NALL BLOCKING ABOVE WALL TO TOP PLATE	WASHERS OR ADDITIONAL HOLDOWN PER PLANS. OPTION: (2) 5/8" DIA. THREADED RODS INSTALLED PER SECTION R602.10.4.3 OF THE NCRBC, LATEST EDITION.		
9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667- 05. NAILS ARE TO BE COMMON WIRE OR BOX PART 10: DIMENSIONAL LUMBER	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 BRACED WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.	NOTES		
<ul> <li>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.</li> <li><u>PART 11: ENGINEERED LUMBER</u></li> <li>11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E = 1.9 X 10E6 PSL, Fb = 2600 PSL, Fv = 285 PSL, Fc = 750 PSL LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E = 1.3 X 10E6 PSL, Fb = 1700 PSL, Fv = 400 PSL, Fc = 680 PSL</li> </ul>	PART 17: KING STUDS         17.01       KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:         NUMBER OF KING STUDS         MAX OPENING WDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"         2X4       1       2       4       5         STUD SIZE       2X6       1       2       2       2         XX8       1       1       1       2       2	THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTR SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE 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 RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY	PROCEEDING IF THE SHALL NOT BE THE	ABV ABOVE B. BOTH B.E. BOTH ENDS BTWN BETWEEN CIP CAST IN PLACE CONC CONCRETE CS CONTINUOUS SI DIA DIAMETER
<ul> <li>11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS</li> <li><u>PART 12: PRESSURE TREATED LUMBER</u></li> <li>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 SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-20 R BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFTEC MAY ALSO APPROVE A NATURAL</li> </ul>	PART 18: SUBSTITUTIONS 18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVAITONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PART 19: OWNERSHIP OF STRUCTURAL DESIGN	ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTI SUBCONTRACTORS THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATION CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENG ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTEI TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW	RIBUTED TO THE IS OR ANY OTHER INEERING.	DBL DOUBLE DJ DOUBLE JOIST DSP DBL STUD POC EQ EQUAL EA EACH FLG FLANGE FL PL FLITCH PLATE FLR FLOOR
DECAY RESISTANT WOOD PER SECTION 19-6(A) PART 14: STUD SUPPORTS FOR BEAMS 14.01 STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:	19.01 THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA	ALLOWABLE I-JOIST SUBSTITUTION NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS. MANUFACTURER DEPTH SERIES SIMPSON FACE SIMPSON MOUNT HGR FLANGE F	TOP IGR	
		BLUELINX         14"         BLI 40         IUS2.56/14         ITS2.56/           BOISE CASCADE         14"         BCI 5000s         IUS2.06/14         ITS2.37/           BOISE CASCADE         14"         BCI 6000S         IUS2.06/14         ITS2.37/           LP CORP         14"         LPI 20+         IUS2.56/14         ITS2.37/           LP CORP         14"         LPI 20+         IUS2.56/14         ITS2.56/           NORDIC         14"         NFPI 40s         IUS2.56/14         ITS2.56/           WEYERHAEUSER         14"         TJI 210         IUS2.06/14         ITS2.73/           WEYERHAEUSER         14"         EEI-20         IUS2.37/14         ITS2.73/	/14 /14 /14 /14 /14 /14 /14	

JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH EQUIVALENT VALUES AS DESIRED.

