Residence for

Garman Homes Lot 0209 Serenity Fuquay Varina, North Carolina

INDEX TO DRAWINGS

COVER SHEET 1 FRONT & LEFT SIDE ELEVATIONS 2 REAR & RIGHT SIDE ELEVATIONS 3 FIRST & SECOND FLOOR PLANS E FIRST & SECOND FLOOR ELECTRICAL PLANS M FIRST & SECOND FLOOR MECHANICAL PLANS P FIRST FLOOR PLUMBING PLAN D CONSTRUCTION DETAILS	S1 S2 S3 S4 S5 SD1 SD2 SD3 SPEC	FOUNDATION PLAN - CRAWLSPACE STANDARD FIRST FLOOR FRAMING PLAN SECOND FLOOR FRAMING ROOF FRAMING PLAN OPTIONAL IN-LAW SUITE DETAILS STRUCTURAL DETAILS STRUCTURAL DETAILS STRUCTURAL DETAILS CONSTRUCTION SPECIFICATIONS
GENERAL NOTES		RESIDENTIAL BUILDING CODE SUM
1. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE, 2018 EDITION	1. F	PLANS ARE DESIGNED TO THE 2018 N.C.S.R.B.C.
(HEREWITH SHOWN AS N.C.S.R.B.C.).		HOUSE IS DESIGNED FOR 115 MPH ULTIMATE DESIGN WIND SPEED IGN WIND SPEED), EXPOSURE B.
2. DIMENSIONS SHOWN ON DRAWINGS GOVERN OVER SCALE.	3 /	ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER AND SHALL EXTEND
3. STUD WALL DESIGN SHALL CONFORM TO ALL N.C.S.R.B.C.		SONRY OR CONCRETE. BOLTS TO BE NO MORE THAN 6' O.C. AND V

SIGN 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



MEDICINE CABINET

MAGAZINE RACK

MC

MR

JMMARY

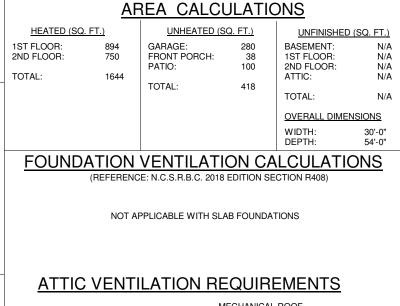
ED (89 MPH NOMINAL

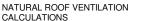
D 7" MIN. INTO WITHIN 12" FROM BOLTS TO BE NO MORE THAN 6' O.C. THE CORNER.

- 4. MEAN ROOF HEIGHT: 29'-3"
- 5. COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS:

MEAN ROOF HGT:	UP TO 30'	<u>30'-1" TO 35'</u>	<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





150

<u>1212 SQ. FT.</u> = 8.08 SQ. FT. VENT REQ'D

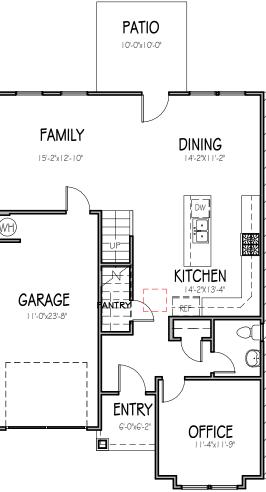
BUILDER TO PROVIDE APPROPRIATE

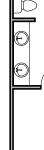
VENTILATING AS REQUIRED PER CODE

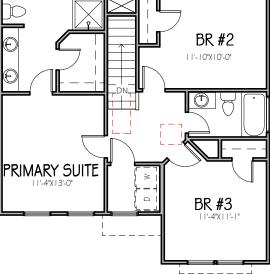
MECHANICAL ROOF VENTILATION CALCULATIONS

> <u>1212 SQ. FT.</u> = 4.04 SQ. FT. VENT REQ'D 300 BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED PER CODE







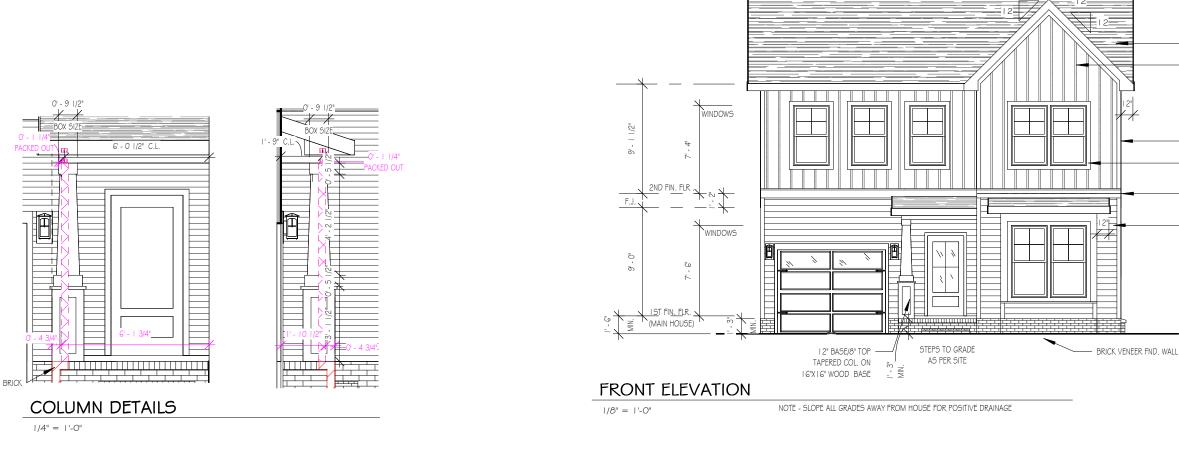


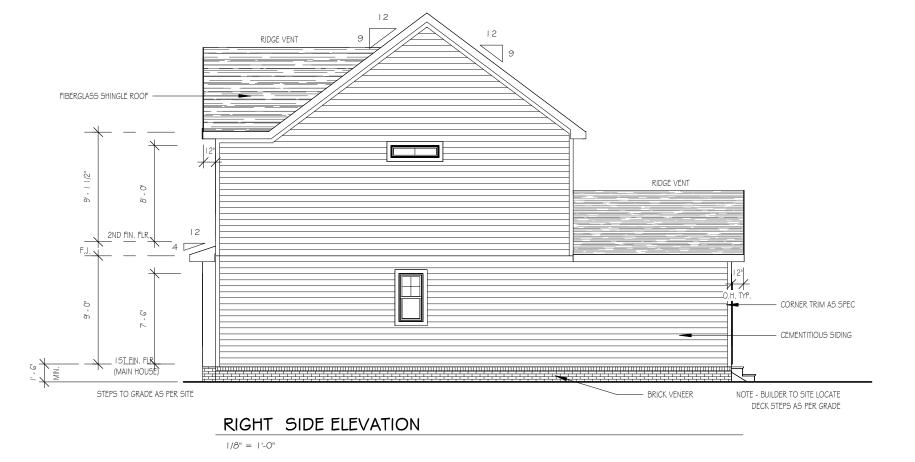


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11/22/22
2/21/23





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.

- FIBERGLASS SHINGLE ROOF

RIDGE VENT

- BOARD ¢ BATTEN SIDING
- CORNER TRIM AS SPEC
- 4" TRIM @ WINDOWS AND DOORS
- 8" TRIM BOARD W/ DRIP CAP
- CEMENTITIOUS SIDING

NOTE: PROVIDE RAILS @ PORCH <u>ONLY</u> IF REQUIRED BY CODE

I 5" MIN. HGT. FOUNDATION FRONT GRADE TO FINISHED FRONT PORCH



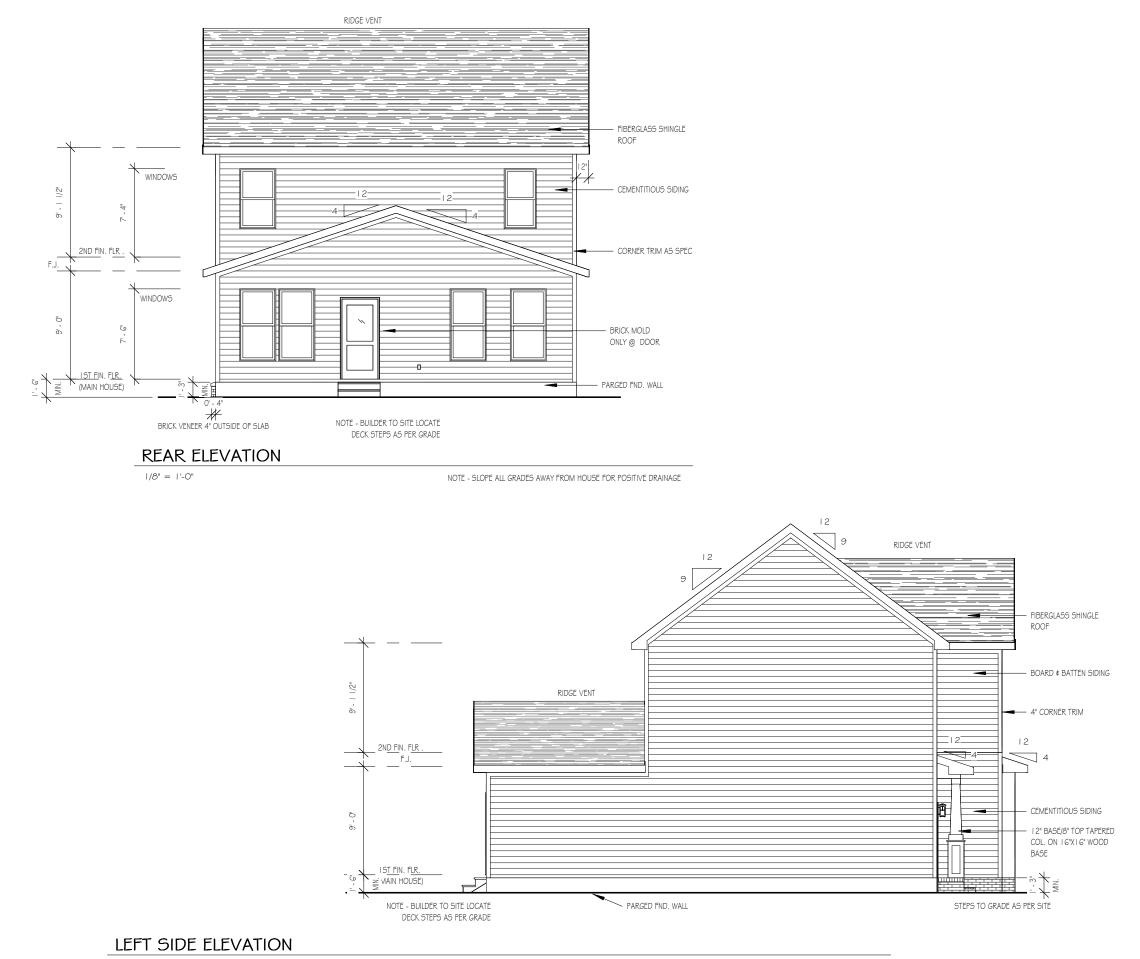
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Project Number Project Number Plan Number

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Plan Number
FP-1644



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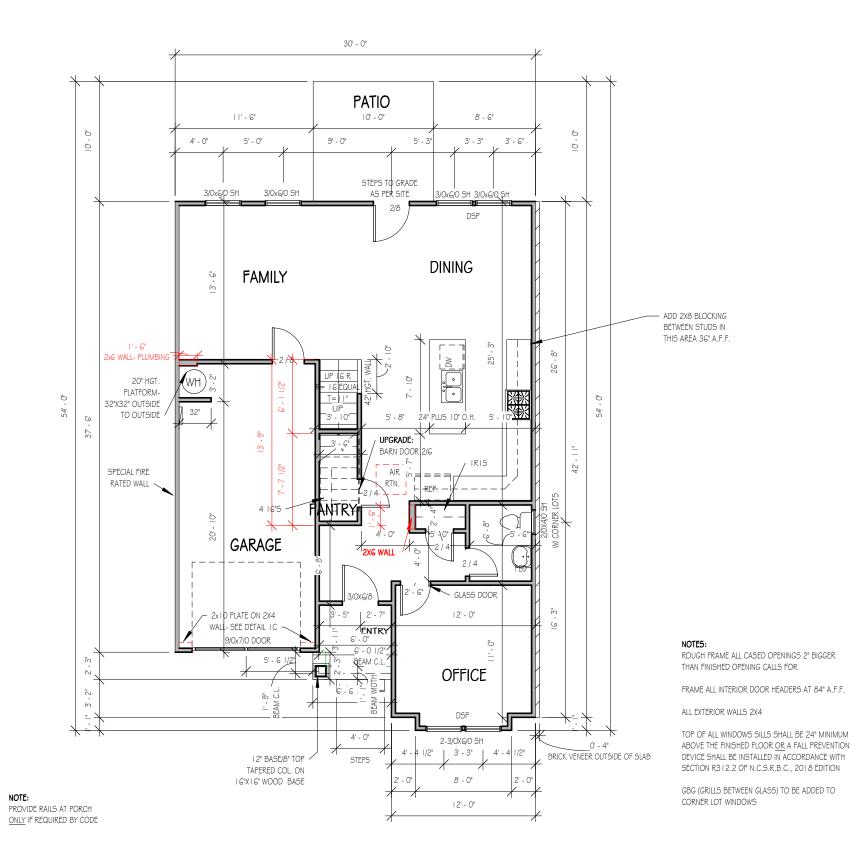


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NOTE: PROVIDE RAILS @ PORCH ONLY IF REQUIRED BY CODE

15" MIN. HGT. FOUNDATION FRONT GRADE TO FINISHED FRONT PORCH



FIRST FLOOR

1/8" = 1'-0"

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

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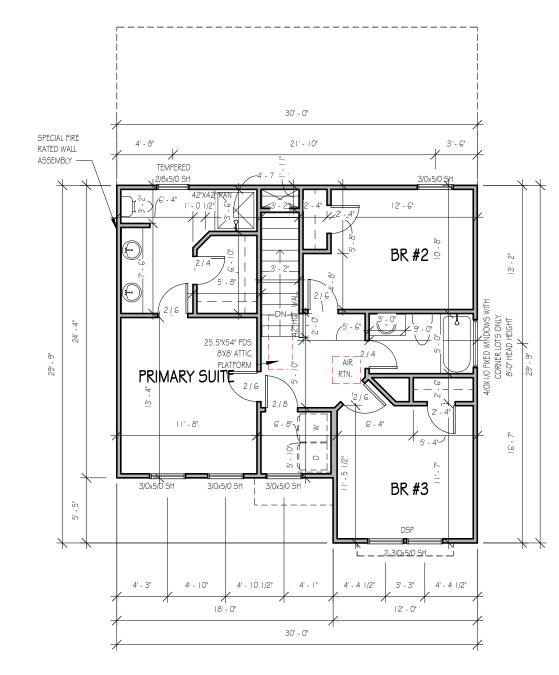
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SECOND FLOOR

1/8" = 1'-0"

9'-0" CLG. HGT. U.N.O. SET WINDOWS @ 7'-4" U.N.O.

NOTES:

FINISHED OPENING CALLS FOR

ALL EXTERIOR WALLS 2X4

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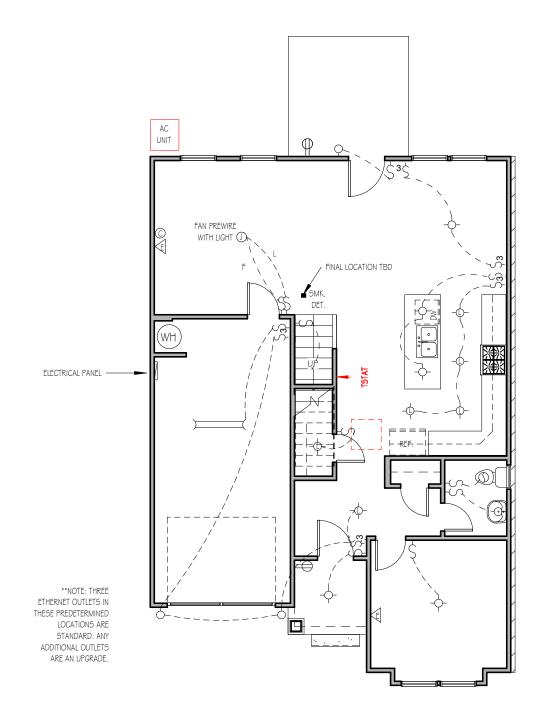
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ROUGH FRAME ALL CASED OPENINGS 2" BIGGER THAN

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

FRAME ALL INTERIOR DOOR HEADERS AT 84" A.F.F.

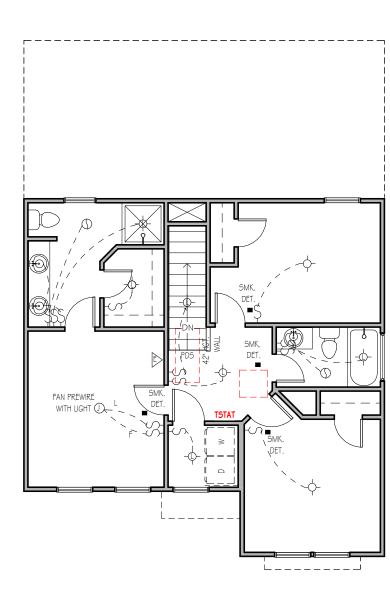
TOP OF ALL WINDOWS SILLS SHALL BE 24" MINIMUM ABOVE THE FINISHED FLOOR OR A FALL PREVENTION DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R312.2 OF N.C.S.R.B.C., 2018 EDITION



FIRST FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

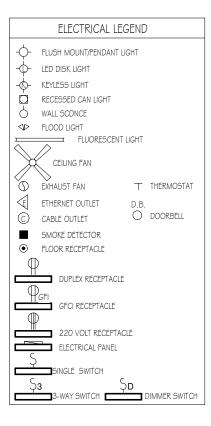
NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.



SECOND FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

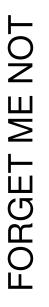
NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY. THE PURPOSE OF THESE DRAWINGS IS TO SHOW THE INTENT OF THE DESIGN AND 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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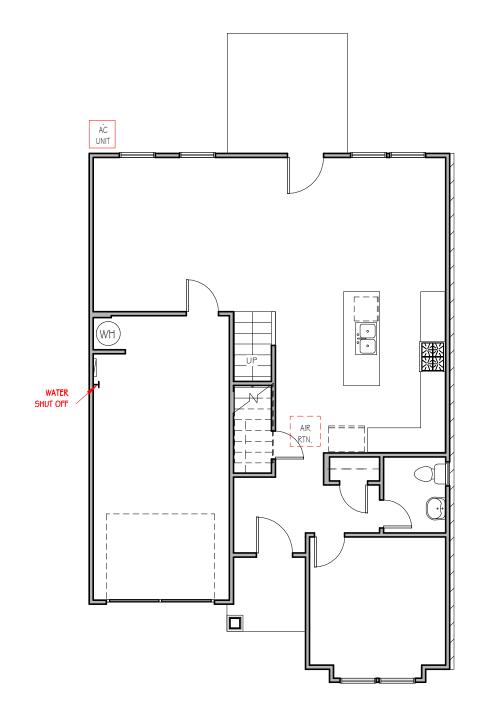
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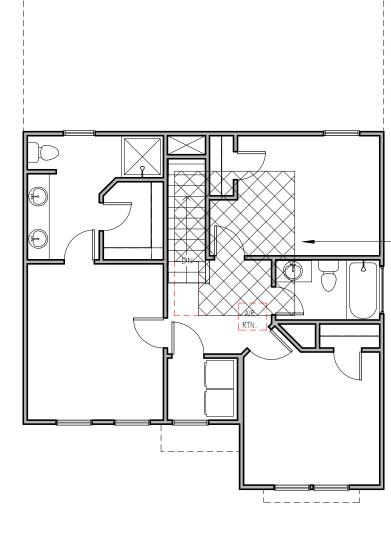


SER ELEVATION A LOT 0209 SERENITY

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|/8" = |'-0"

1/8" = 1'-0"

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FORGET ME NOT SER ELEVATION A LOT 0209 SERENITY

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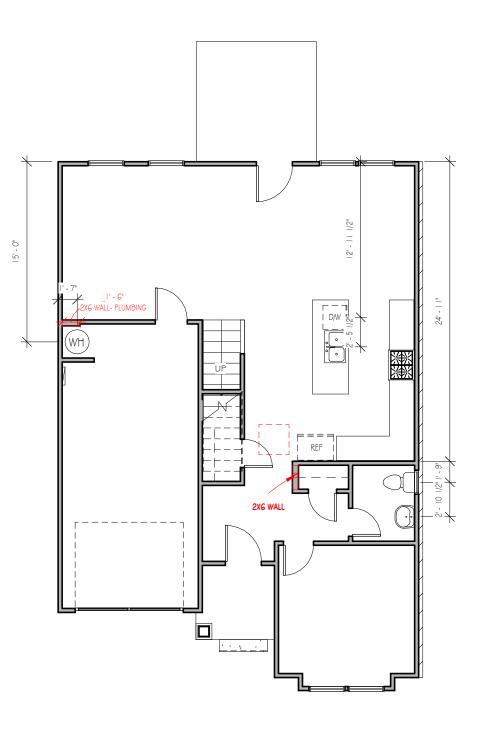
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I 2'-0"x8'-0" HVAC ATTIC PLATFORM

M

FIRST FLOOR PLUMBING

1/8" = 1'-0"



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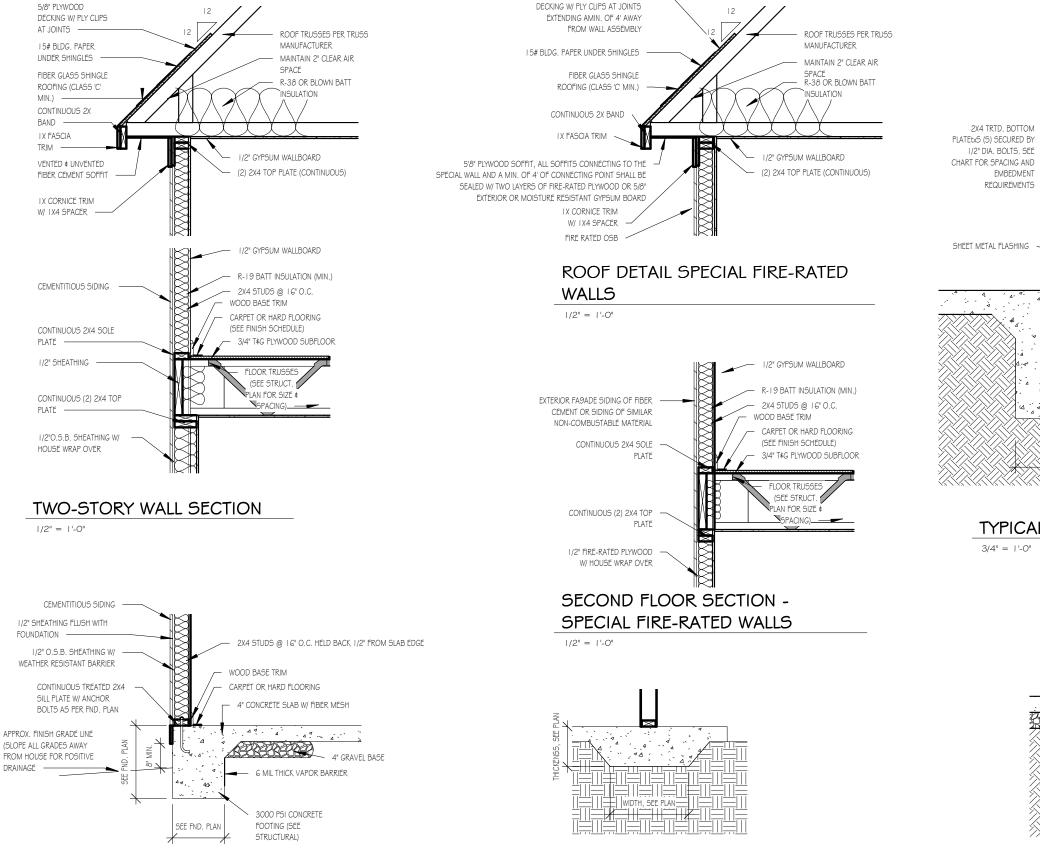
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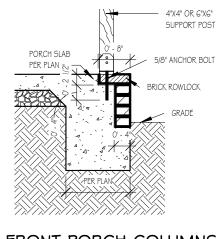
1/2" FIRE-RATED PLYWOOD -

FOUNDATION DETAIL - SLAB

1/2" = 1'-0"

DRAINAGE

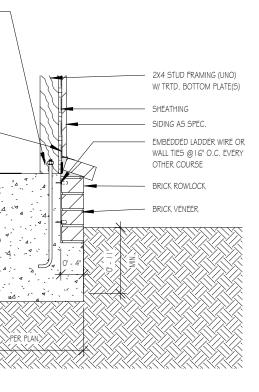
LUG FOOTING 1/2" = 1'-0"



1/2" = 1'-0"

FRONT PORCH COLUMNS SUPPORT ATTACHMENT

TYPICAL SLAB W/ BRICK VENEER



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BEEN ISSUED, CONTRACTOR SHALL

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CONSTRUCTION.

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9/20/22

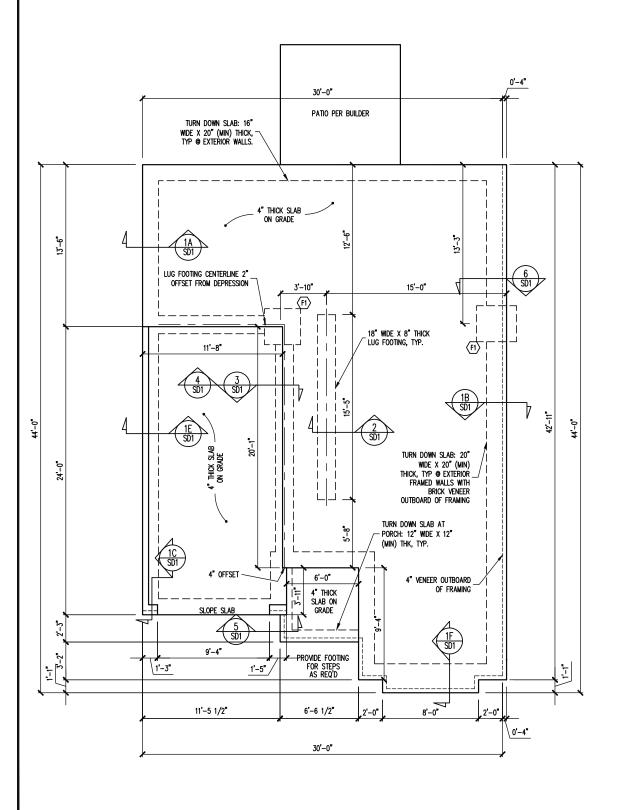
SERENITY COLLECTION \frown Ш SHEI 4 PIC

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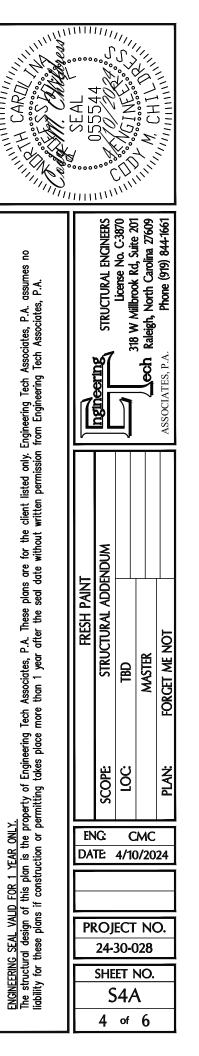
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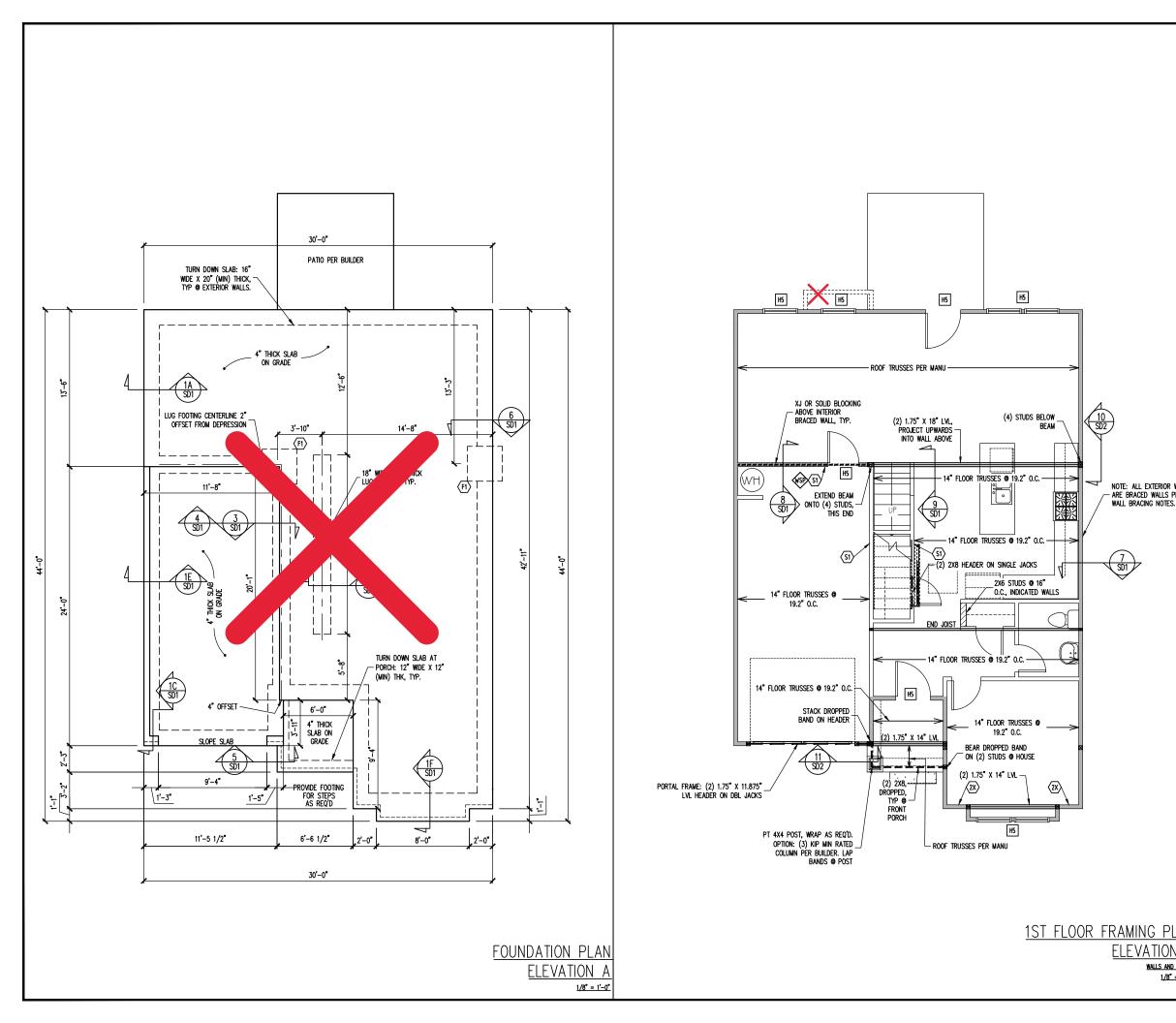
FOUNDATION PLAN ELEVATION A-BRICK RIGHT 1/8" = 1'=0"



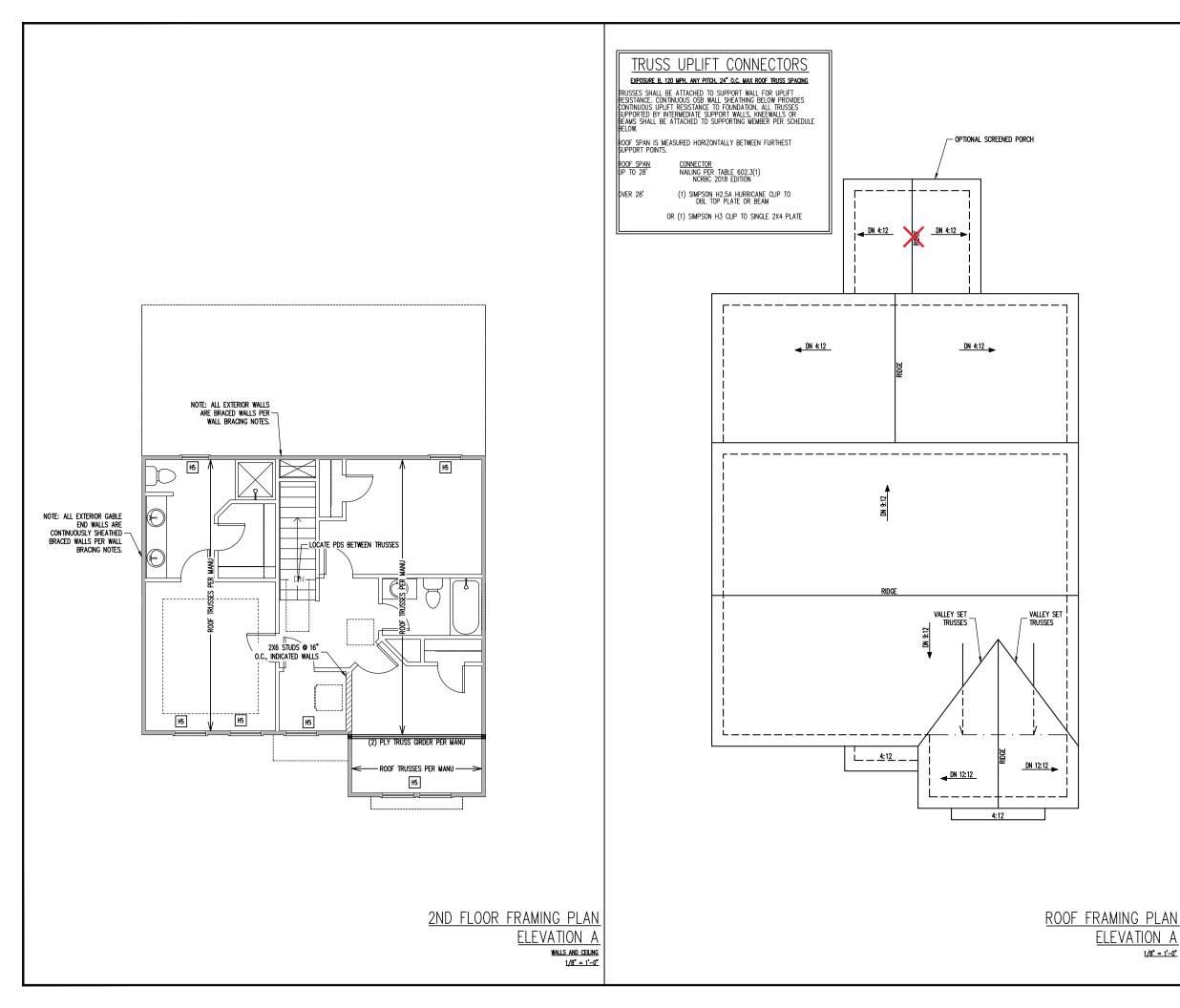
FOUNDATION SCHEDULE

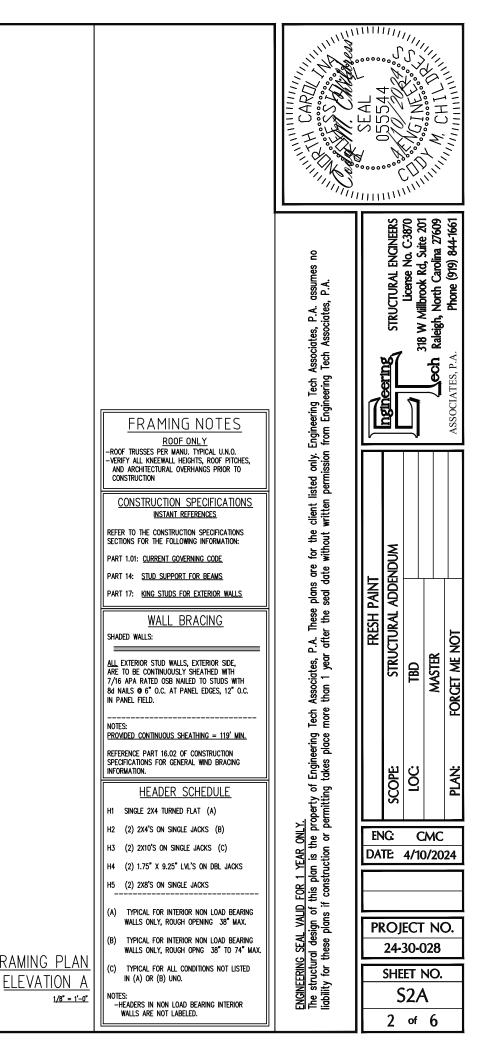
F1 ENLARGE FOOTING TO 36" SQ. X 12" THK

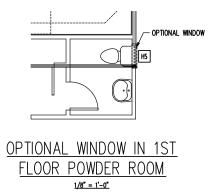
NOTES: -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION.

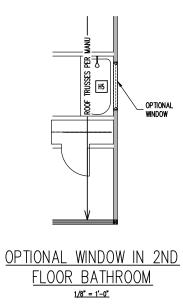


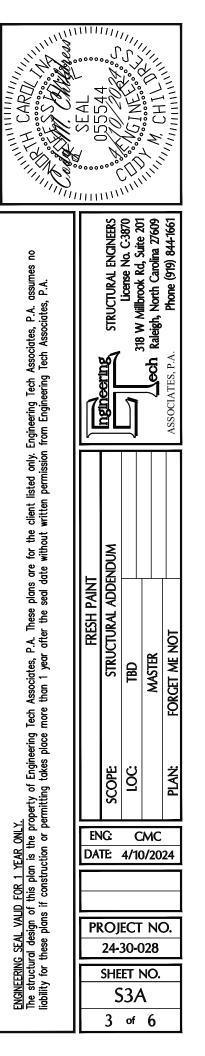
		1				_	_
	FRAMING SCEDULE S1 INTERIOR LOAD BEARING WALL: SECURE TO THICKENED SLAB BELOW WITH 1/2*% RED HEADER ANCHOR (OR EQUAL) @ 6*-0* O.C., 12* MAX FROM ENDS / CORNERS OF WALL, 7* MIN EMBEDMENT INTO SLAB BELOW. JOIST SUBSTITUTION 14* FLOOR TRUSSES PERMITTED TO BE SUBSTITUTED WITH 14* I-JOISTS. MAINTAIN MINIMUM SPACING AS CALLED OUT ON	PTH CARDI 1111	I SEAL SEAL	4/10/2024:50	I CONTREPOSE	LING THUNK	
	INSTANT MINIMUM OF TOTAL OF STREED COT OF SIMP. IUS/ITS3.56/14 HANGERS TO BE SUBSTITUTED WITH SIMP. IUS/ITS2.06/14 HANGER WHEN I-JOISTS HAVE BEEN INSTALLED.	client listed only. Engineering Tech Associates, P.A. assumes no written permission from Engineering Tech Associates, P.A.			218 W Millhook Bd Suite 201		
WALLS PER	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. 2X – SHEATH BOTH SIDES OF STUD WALL WITH 7f APA RATED OSB, NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" 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) 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 	<u>ENGNEERING SEAL VALID FOR 1 YEAR ONLY.</u> 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	FRESH PAINT	SCOPE STRUCTURAL ADDENDUM	LOC: TBD	MASTER	PLAN: FORGET ME NOT
LAN	WALLS ONLY, ROUGH OPENING 38" MAX. (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	<u>ENGINEERING SEAL VALID FOR 1 YEAR ONLY.</u> The structural design of this plan is the prop liability for these plans if construction or perr	ENG: CMC DATE: 4/10/2024 PROJECT NO. 24-30-028 SHEET NO.				
<u>A</u> <u>ceiling</u> = 1'-0"	NOTES: -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION.	ENGINEE The stru liability 1			51A of		

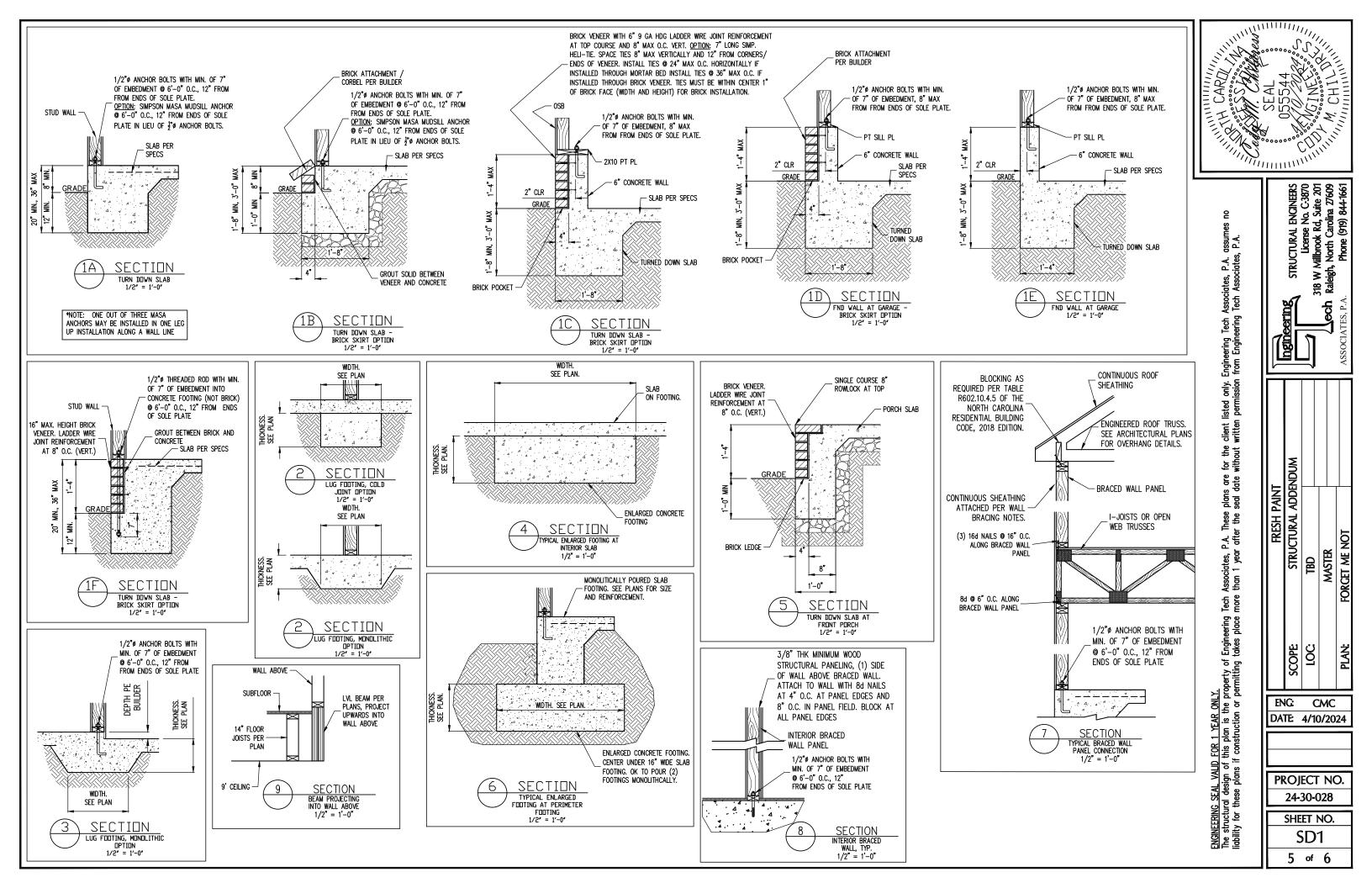












	<u>CONSTRUCTION</u>	SP	<u>ECIFICATIONS</u>	SIDE	2X4, ONE DF BEAM
1.01	P <u>art 1: general</u> Construction shall meet the requirements of the North Carolina residential Code, 2018 Edition.	SI B O TI	HEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM HALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED Y A MINNUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER "STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WIDTH OF HE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UND. FOR THE SKEWED	(2) ROWS OF 10d NAILS @ 2" O.C.	LVL BEAM PER PLAN
1.05	DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS. 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.	11 2-8 A	ONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON IE BEAM EAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED DLUMN TYP UNO.		2 ° TYP.
	PART 2: DESIGN LOADS DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:	1-W	DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS: HEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM HALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2 ⁴ TO ALLOW		
	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	G. T(B 2-B	OR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A ANGED STUD COLUMN THE SAME WOTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS D BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICURA CARE SHALL T TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM EAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A	SUPPORTING	DBL TOP PL
	GARAGES (PASSENGER CARS ONLY) 50 ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10 ATTICS (WITH STORAGE) 20 10		NIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN 1P UNO. EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.	10 SECTI REINFORCEMENT FOR BEARING A 1/2" = 1'	of Beam T Top Pl
NOTES:	ROOF 20 10 (15 FOR VAULTS) - 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 SQ. WHICHEVER PRODUCES THE GREATER STRESS. - BUILDER TO VENIFY 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	14.04	STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS \oplus 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS 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 WITHIN THE CANTY FORMED BY THE FLOOR JOISTS.		
2.02	INTERIOR WALLS: 5 PSF LATERAL.		PART 15: NAILING OF MULTI PLY WOOD BEAMS		
	BASIC WIND DESIGN VELOCITY OF 120 MPH.	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 NAILS		
	SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE). PART 5: CONCRETE AND SLABS ON GRADE		● 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS ● 16" O.C. FOR 2X8, ONE ROW OF 10d NAILS ● 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN.		
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.	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		
	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 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	16.01	PART 16: WALL FRAMING AND BRACING 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 CEILING 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.		
7.03	PART 7: MASONRY MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.	16.02	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: FOR WALL BRACING THE FOLLOWING SHALL APPLY:		
7.05	LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS PART 8: BOLTS AND LAG SCREWS	10.02	-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		
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		OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED. -BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS. -MAY SUBSTITUTE WSP FOR GB		
9.01	<u>PART 9: DRIVEN FASTENERS</u> NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667- 05. NAILS ARE TO BE COMMON WIRE OR BOX		-SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE 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		
	<u>PART 10: DIMENSIONAL LUMBER</u> 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.	17.01	WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO. <u>PART 17: KING STUDS</u> KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:		The Builder is re Shall immediately
	T 11: ENGINEERED LUMBER				FOLLOWING CONDITI
11.01	LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.9 X 10E6 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI		MAX_OPENING_WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0" 2X4 1 2 3 4 5 STUD_SIZE 2X6 1 2 2 2X8 1 1 1 2		2) THE PLANS CO ANY ERRORS DUE RESPONSIBILITY OF
11.02	LVL or PSL members may be ripped from deeper members to match the member depth specified in the plans	18.01	PART 18: SUBSTITUTIONS MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN		ENSURE THAN ANY SUBCONTRACTORS
	PART 12: PRESSURE TREATED LUMBER	10.01	Deviations require the written authorization of the Designers. Unauthorized deviations are the sole		THE EOR DOES NOT CALCULATIONS THA
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-2. OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY DECIENTLY WOOD. DET COTORING 40.00	10.01	RESPONSIBILITY OF THE CONTRACTOR. PART 19: OWNERSHIP OF STRUCTURAL DESIGN THE STRUCTURAL DESIGN OF THE PLAN IS THE DEODERTY		ROOF AND FLOOR TRUSS DRAWING SH
	DECAY RESISTANT WOOD PER SECTION 19-6(A) PART 14: STUD SUPPORTS FOR BEAMS	19.01	THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE THE USE AT THE LOCATION INDICATED		ALLOW
14.01	STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:		AND FOR THE CLENT LISTED. ETA ASSUMES NO UABILITY FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA		NOTE: MAINTAIN JU PLANS.
					MANUFACTURER
					BLUELINX BOISE CASCADE BOISE CASCADE LP CORP NORDIC ROSEBURG WEYERHAEUSER

(2) CONT. 2X TOP PLATES, EXTEND EACH END I PER PLAN INTO ADJACENT WALL. NAIL SPLICES WITH 11 8-16d NAILS PER SPLICE/LAP. CONT. 2X PLATE WITH 10d NAILS AT 89 16" O.C. INTO HEADER/BEAM 7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR MINIMUM 3"x111/4" CONTINUOUS BEAM FULL WALL SHEATHING AT UNSHADED AREAS LENGTH OF FRAME, SEE PLANS FOR SIZE (BEAM, INFILL WALL ABOVE BEAM, AND CENTER WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) top pl WITH 8d NAILS AT 6" O.C. AT SHEET EDGES NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT AND 12" O.C. IN THE FIELD. 3" O.C. EACH WAY WHERE FULL HEIGHT PANEL WIDTH (2) ROWS 16d NAILS AT 3" O.C. EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO (2) SIMPSON CS16 x 48" LONG COIL ALL STUDS WITH 8d NAILS AT 3" O.C. STRAPS WITH 10d NAILS EACH HOLE ON -INSIDE FACE OF WALL FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING AND OCCUR WITHIN MIDDLE 24" OF WALL SECTION HEIGHT. ONE ROW OF 3" O.C. NAILING PORTAL FRAME WALL IS REQUIRED IN EACH PANEL EDGE. 1/2" = 1'-0"7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED * • * • • - AREAS NAIL SHEATHING TO ALL SUPPORTS CONCRETE OR MASONRY FND WALL. (STUDS, PLATES, BLOCKING, ETC.) WITH 8d MASONRY FND WALLS LESS THAN 48" NAILS AT 3" O.C. WIDE SHALL BE REINFORCED PER SECTION R602.10.4.3 OF THE NCRBC, (2)2x STUD MIN. AT START AND END OF LATEST EDITION. WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS 2x4 P.T. PLATE WITH TWO 1/2" DIA x 7" EMBED Δ ⊿ .: ANCHOR BOLTS WITH A 3/16"x2"x2" PLATE . 4 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. NOTES **ABBREVIATIONS** BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER ABV ABOVE IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE B. BOTH B.E. BOTH ENDS WING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: BTWN BETWEEN THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR CIP CAST IN PLACE THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION CONC CONCRETE CS CONTINUOUS SHEA ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE DIA DIAMETER onsibility of the Eor. Furthermore, it is the responsibility of the builder to re than any revisions issued by the Eor are promply distributed to the DBL DOUBLE DJ DOUBLE JOIST ONTRACTORS DSP DBI STUD POCKE EQ EQUAL FOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER EA EACH FLG FLANGE ULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. L PL FLITCH PLATE F and floor trusses to be designed by an engineer registered by the state. Fina SS drawing should be submitted to the EOR FOR review FLR FLOOR ALLOWABLE I-JOIST SUBSTITUTION MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON SIMPSON FACE SIMPSON TOP UFACTURER DEPTH SERIES MOUNT HGR FLANGE HGR LINX BLI 40 IUS2.56/14 ITS2.56/14 BCI 5000s E CASCADE 14" IUS2.06/14 ITS2.06/14 E CASCADE 14" BCI 6000S IUS2.37/14 ITS2.37/14 ORP 14" LPI 20+ IUS2.56/14 ITS2.56/14 DIC 14" NI 40X IUS2.56/14 ITS2.56/14

> 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.

RFPL 40s

TJI 210

EEI-20

IUS2.56/14

IUS2.06/14

IUS2.37/14

ITS2.56/14

ITS2.06/14

ITS2 73/14

14"

14"

14"

eathing et	PSL PT QJ SP	GALVANIZED HANGER LAMINATED VENEER LUMBER NOT TO SCALE ON CENTER PARALLEL STRAND LUMBER PRESSURE TREATED QUAD JOIST STUD POCKET	tj Typ Trpl Tsp Uno Xj	UNLESS NOTED OTHERWISE
	SP SQ	stud pocket Square		

SEAL SEAL 055544 Ή Õ 3 A A () Ō STRUCTURAL ENGINEERS License No. C-3870 b W Millbrock Rd, Suite 201 leigh, North Carolina 27609 Phone (919) 844-1661 2 assur P.A. P.A. o leigh ∧ iates, Assoc Ral 8 Associ ering ech ech Tech Engineering ⁻ from Engine ngir only. ission listed client li written for the without Fresh Paint Structural addendum plans are seal date v P.A. These es, l MASTER ¥ TBD • Assoc than Tech eering place Engin takes OPE Ö property of permitting t a <u>ONLY.</u> the pr ENG: CMC FOR 1 YEAR (this plan is th f construction DATE: 4/10/2024 L VALID F sign of tl plans if PROJECT NO. SEAL ldesid 24-30-028 ft g ENGINEERING <u>5</u> SHEET NO. lhe stri liability SD2 6 of 6