# **Residence for**

# Garman Homes Lot 0205 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	S1FOUNDATION PLAN & FIRST FLOOR FRAMING PLANS2SECOND FLOOR FRAMING PLAN & ROOF FRAMING PLANSD1STRUCTURAL DETAILSSD2STRUCTURAL DETAILSSPECSTRUCTURAL NOTES
<u>GENERAL NOTES</u>	1. PLANS ARE DESIGNED TO THE 2018 N.C.S.R.B.C.
<ol> <li>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.).</li> </ol>	<ol> <li>HOUSE IS DESIGNED FOR 115 MPH ULTIMATE DESIGN WIND SPEED (89 MPH NOMIN DESIGN WIND SPEED), EXPOSURE B.</li> </ol>
2. DIMENSIONS SHOWN ON DRAWINGS GOVERN OVER SCALE.	<ol> <li>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.</li> </ol>
3. STUD WALL DESIGN SHALL CONFORM TO ALL N.C.S.R.B.C. REQUIREMENTS	4. MEAN ROOF HEIGHT: 29'-2"
<ol> <li>CONTRACTOR SHALL USE TEMPERED SAFETY GLASS IN ALL LOCATIONS AS REQUIRED BY N.C.S.R.B.C., 2018 EDITION, SECTION R308.4.</li> </ol>	5. COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS: <u>MEAN ROOF HGT: UP TO 30'</u> <u>30'-1" TO 35'</u> <u>35'-1" TO 40'</u> <u>40'-1" TO 45'</u> ZONE 1 16.518.0 17.3,-18.9 17.3,-18.9 17.3,-18.9
<ol> <li>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.</li> </ol>	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
<ol> <li>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.</li> </ol>	6. MINIMUM VALUES FOR ENERGY COMPLIANCE: Zone 4     7. MAXIMUM GLAZING U-FACTOR: .35
<ol> <li>ALL ANGLED WALLS SHOWN ON FLOOR PLANS ARE 45 UNLESS NOTED OTHERWISE.</li> </ol>	<ol> <li>INSULATING VALUES: CEILING: R-49 / WALLS: R-15 / FLOOR: R-19 SLABS: R-10. CODE REFERENCE: TABLE N1102.1</li> </ol>
<ol> <li>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).</li> </ol>	AREA CALCULATIONS
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.	HEATED (SQ. FT.)UNHEATED (SQ. FT.)UNFINISHED (SQ. FT.)1ST FLOOR:755FRONT PORCH:691ST FLOOR:N/2ND FLOOR:701PATIO:1002ND FLOOR:N/GARAGE:300TOTAL:N/
	TOTAL: 1456 TOTAL: N//

#### MATERIALS LEGEND 177777

	EARTH/COMPACT FILL	FINISH WOOD
2 4	CONCRETE	ROUGH WOOD
	BRICK	BLOCKING
$\times$	CONCRETE BLOCK/STONE	PLYWOOD
	STEEL	BATT INSULATION
	ALUMINUM	RIGID INSULATION

# ATTIC VENTILATION REQUIREMENTS

NATURAL ROOF VENTILATION	MECHANICAL ROOF VENTILATION
CALCULATIONS	CALCULATIONS
<u>1124 SQ. FT.</u> = 7.49 SQ. FT.	<u>1124 SQ. FT.</u> = 3.75 SQ. FT.
150 VENT REQ'D	300 VENT REQ'D
BUILDER TO PROVIDE	BUILDER TO PROVIDE
APPROPRIATE VENTILATING AS	APPROPRIATE VENTILATING AS
REQUIRED PER CODE	REQUIRED PER CODE

- H NOMINAL
- INTO IIN 12"

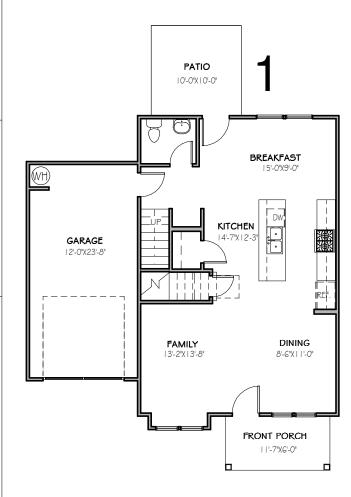
HEATED (SQ	<u>. FT.)</u>	UNHEATED (SO	<u> Q. FT.)</u>	UNFINISHED	(SQ. FT.)
1ST FLOOR: 2ND FLOOR:	755 701	FRONT PORCH: PATIO: GARAGE:	69 100 300	1ST FLOOR: 2ND FLOOR:	N/A N/A
TOTAL:	1456	TOTAL:	469	TOTAL: OVERALL DIMEN WIDTH:	34'-8"
				DEPTH:	49'-4"

# FOUNDATION VENTILATION CALCULATIONS

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

NOT APPLICABLE WITH SLAB FOUNDATIONS



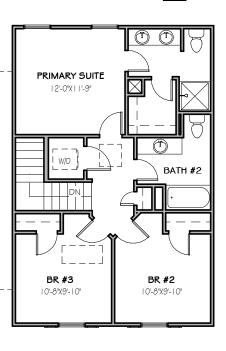




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Plan Number
FP-1456

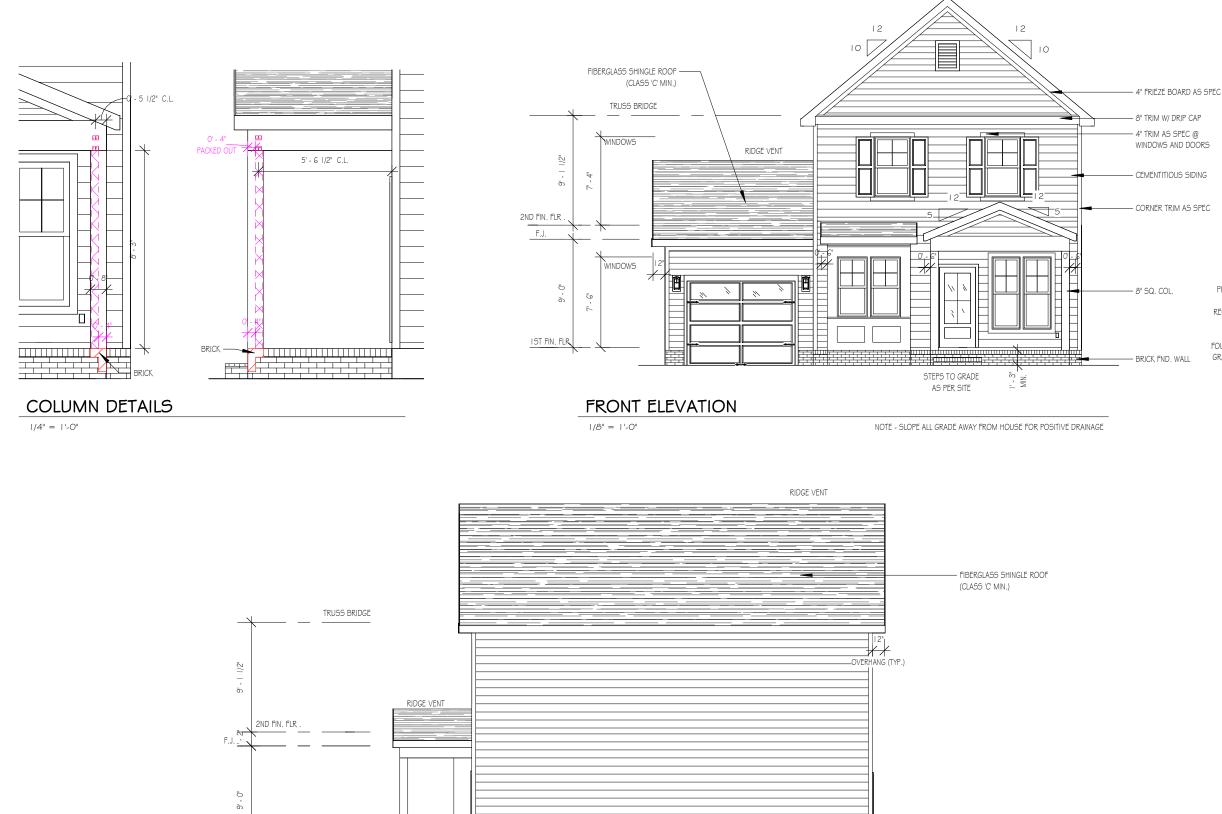




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MMH	
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Date Drawn	
2/16/20	
<b>Revision Date</b>	
7/1/20	
4/5/22	
1/24/23	

Shee



I ST FIN. FLR.

**RIGHT SIDE ELEVATION** 

1/8" = 1'-0"

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.

NOTE: PROVIDE RAILS @ PORCH ONLY IF REQUIRED BY CODE

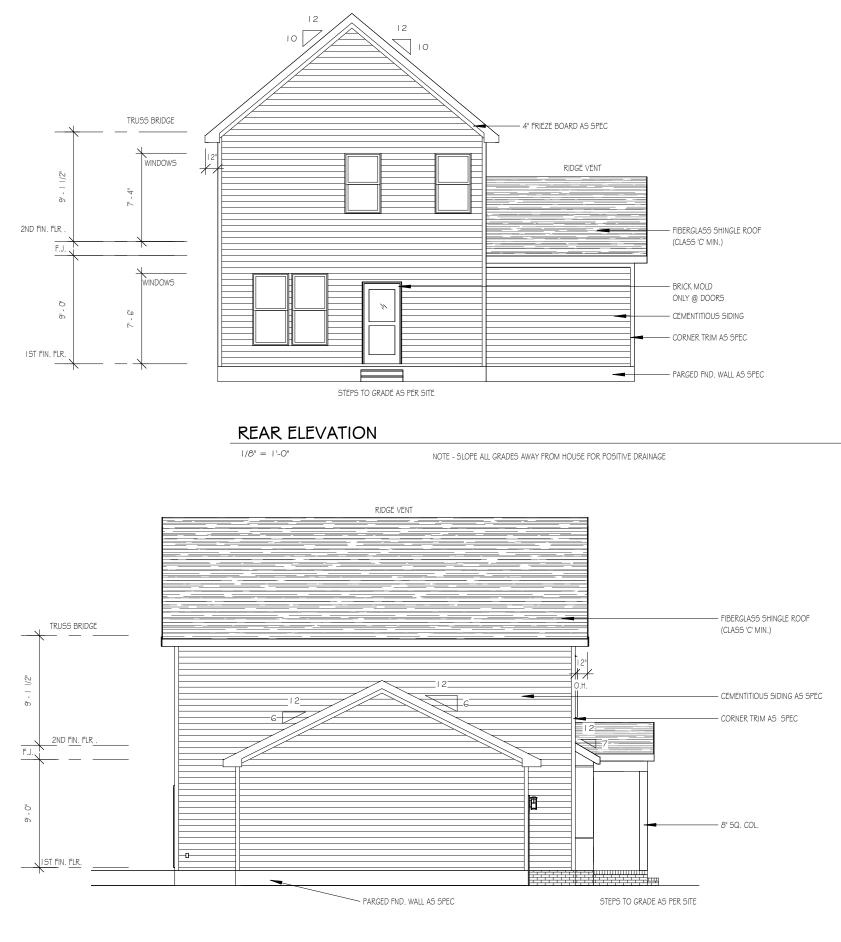
15" MIN. HGT. FOUNDATION FRONT GRADE TO FINISHED FRONT PORCH



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1/24/23



### LEFT SIDE ELEVATION

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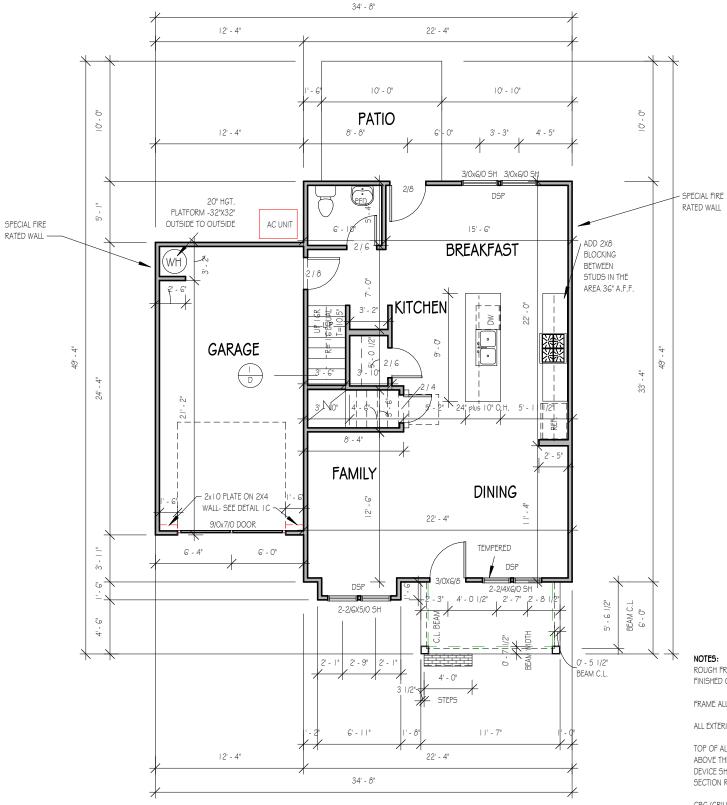
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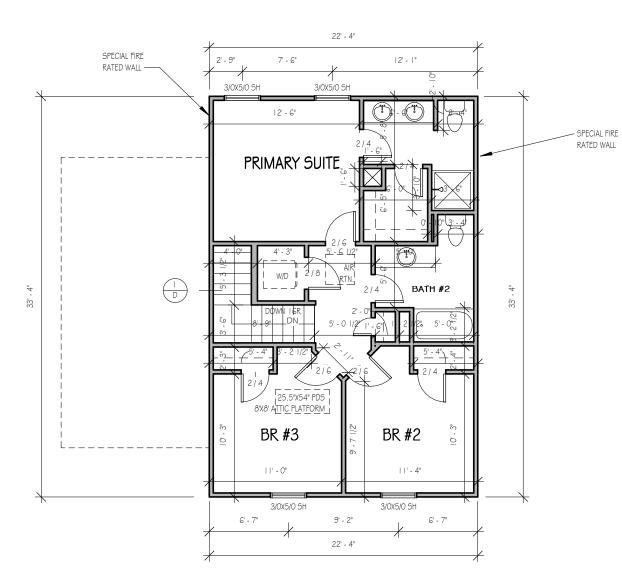
2



#### FIRST FLOOR

|/8" = |'-0"

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



ROUGH FRAME ALL CASED OPENINGS 2" BIGGER THAN FINISHED OPENING CALLS FOR

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

ALL EXTERIOR WALLS 2X4

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

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

#### SECOND FLOOR

1/8" = 1'-0"

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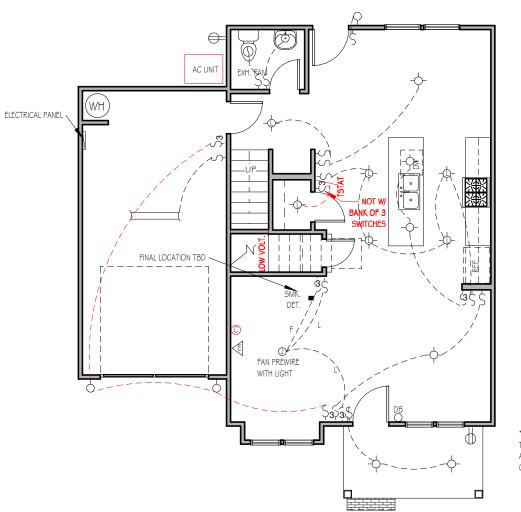


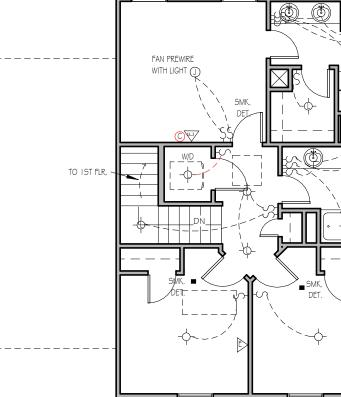
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9'-0" CLG. HGT. U.N.O. SET WINDOWS @ 7'-4" U.N.O.

3





\*\*NOTE: THREE ETHERNET OUTLETS IN THESE PREDETERMINED LOCATIONS ARE STANDARD, ANY ADDITIONAL OUTLETS ARE AN UPGRADE.

### FIRST FLOOR ELECTRICAL PLAN

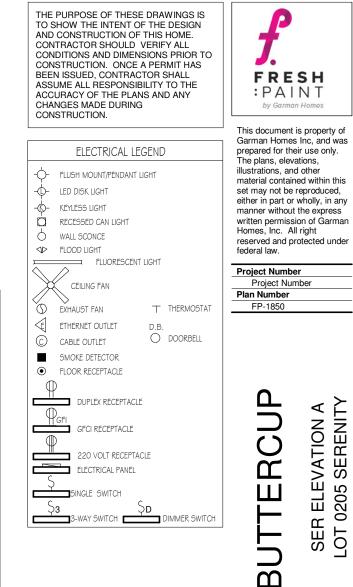
1/8" = 1'-0"

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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EXH. FAN	

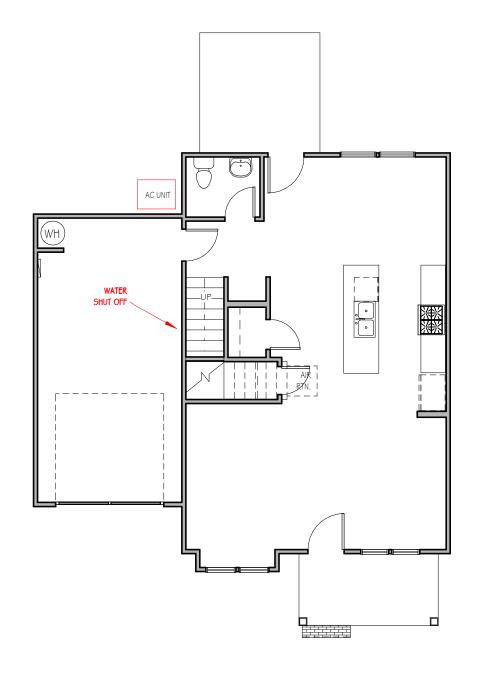
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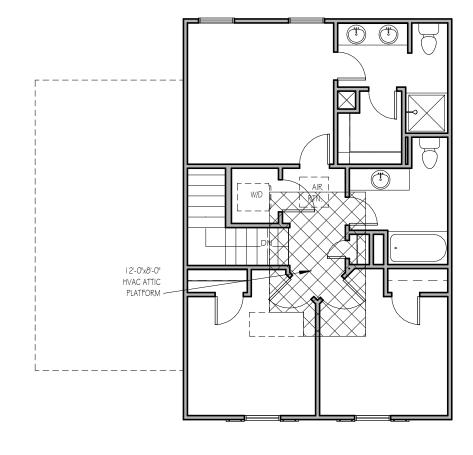
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MH







# SECOND FLOOR MECHANICAL

PLAN

1/8" = 1'-0"

FIRST FLOOR MECHANICAL PLAN

1/8" = 1'-0"

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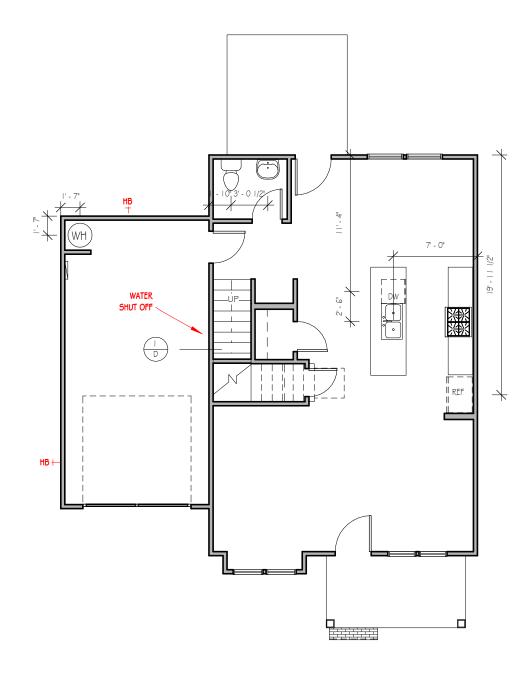


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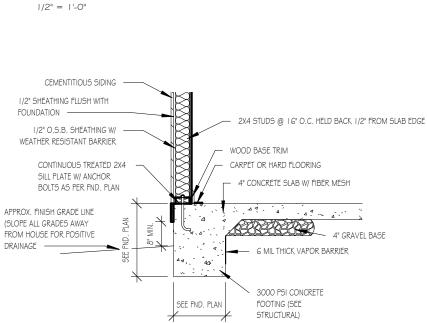
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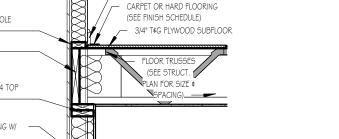


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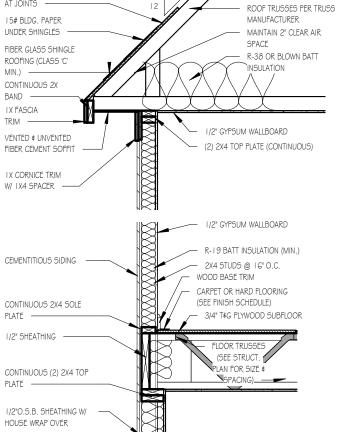
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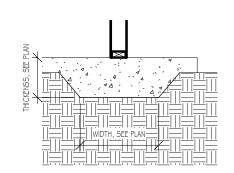






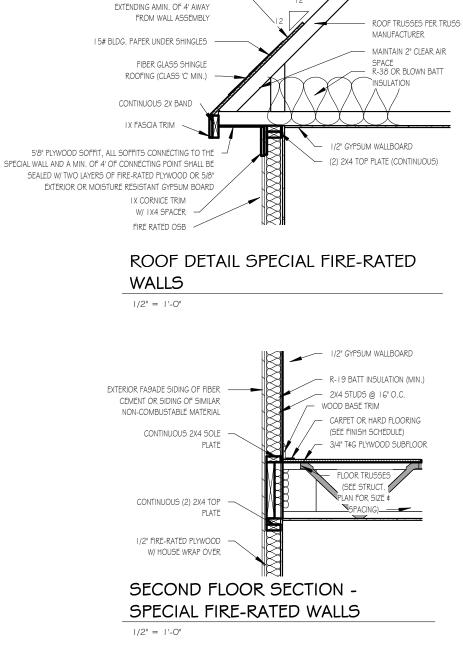






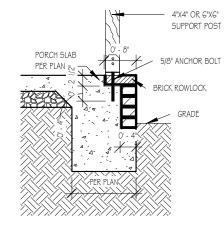
LUG FOOTING





1/2" FIRE-RATED PLYWOOD -

DECKING W/ PLY CLIPS AT JOINTS





5/8" PLYWOOD

AT JOINTS

DECKING W/ PLY CLIPS

# FRONT PORCH COLUMNS SUPPORT ATTACHMENT

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BEEN ISSUED, CONTRACTOR SHALL

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CHANGES MADE DURING

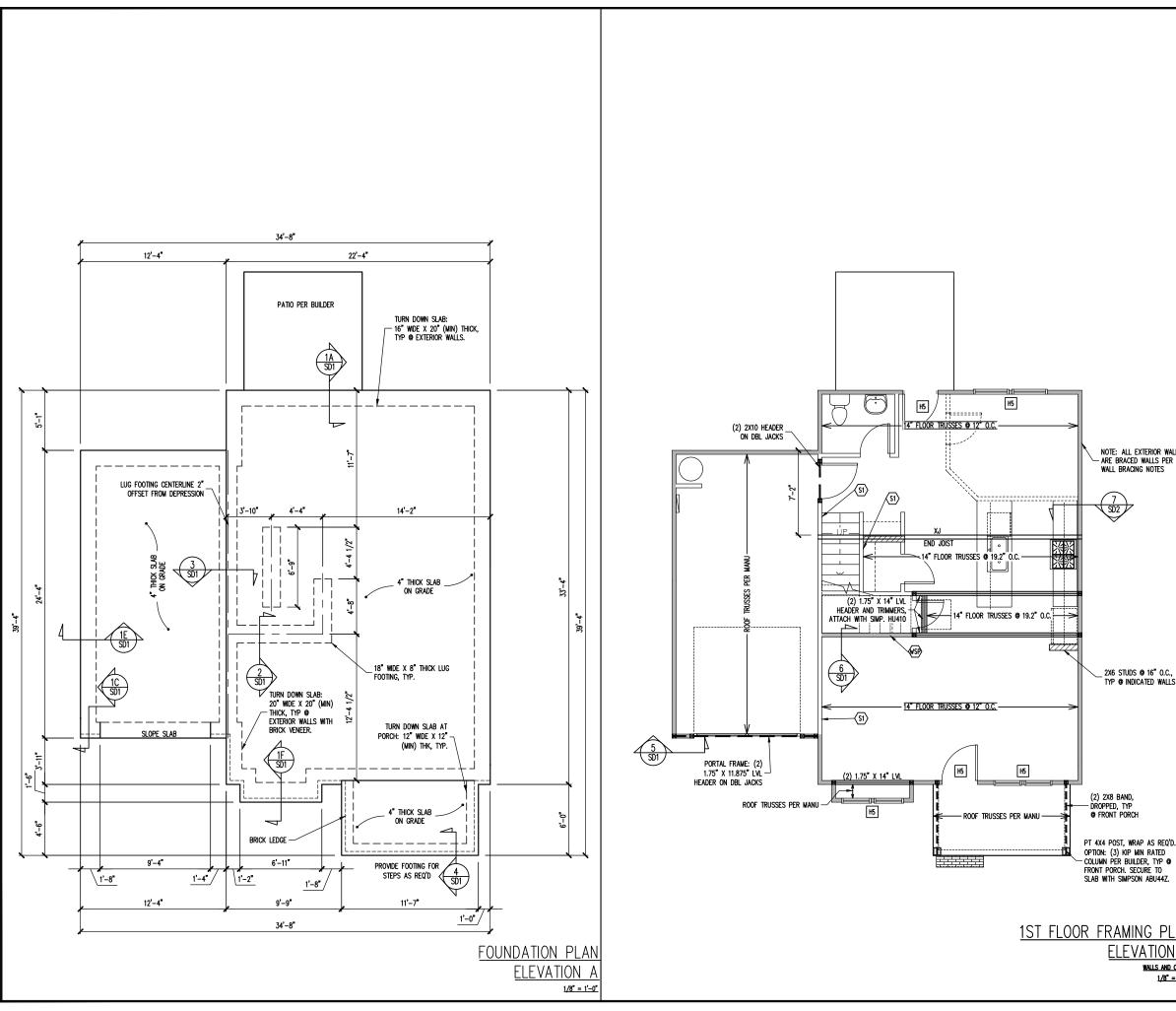
CONSTRUCTION.

ASSUME ALL RESPONSIBILITY TO THE

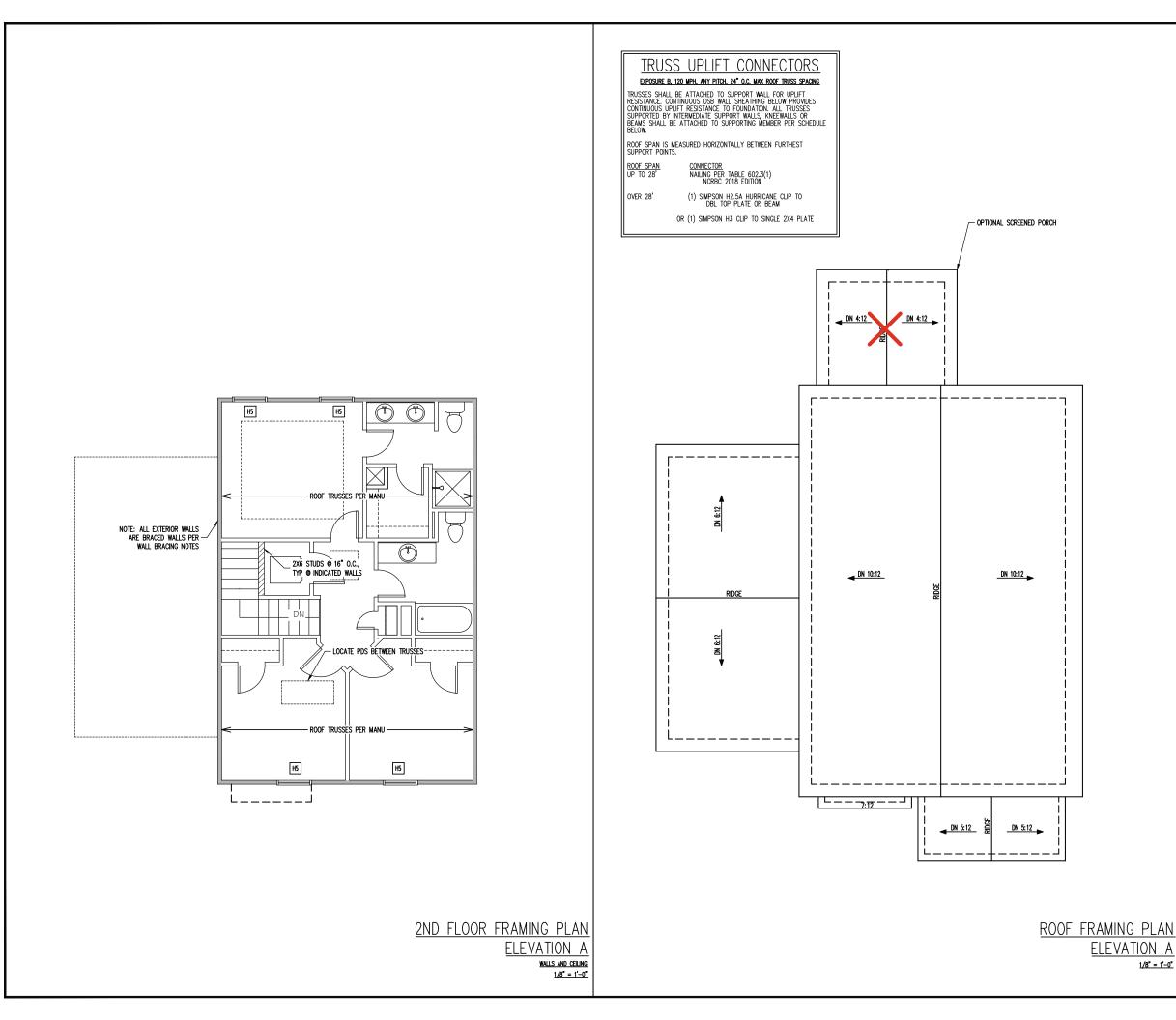
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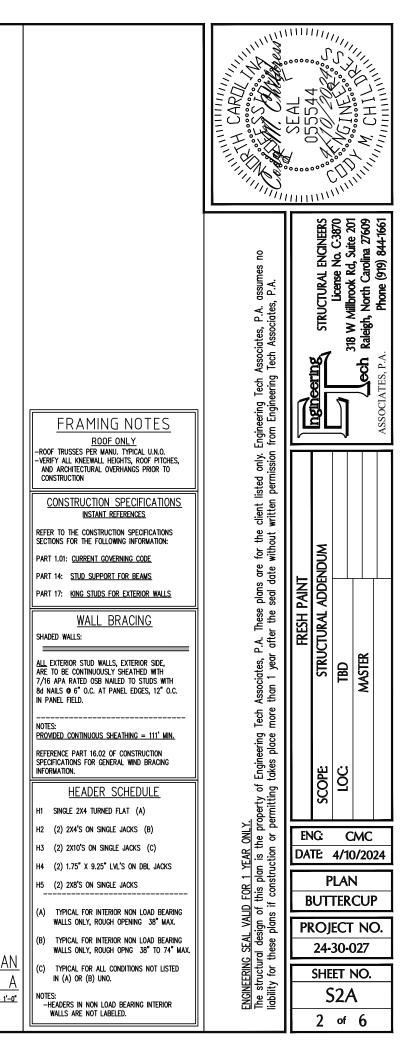


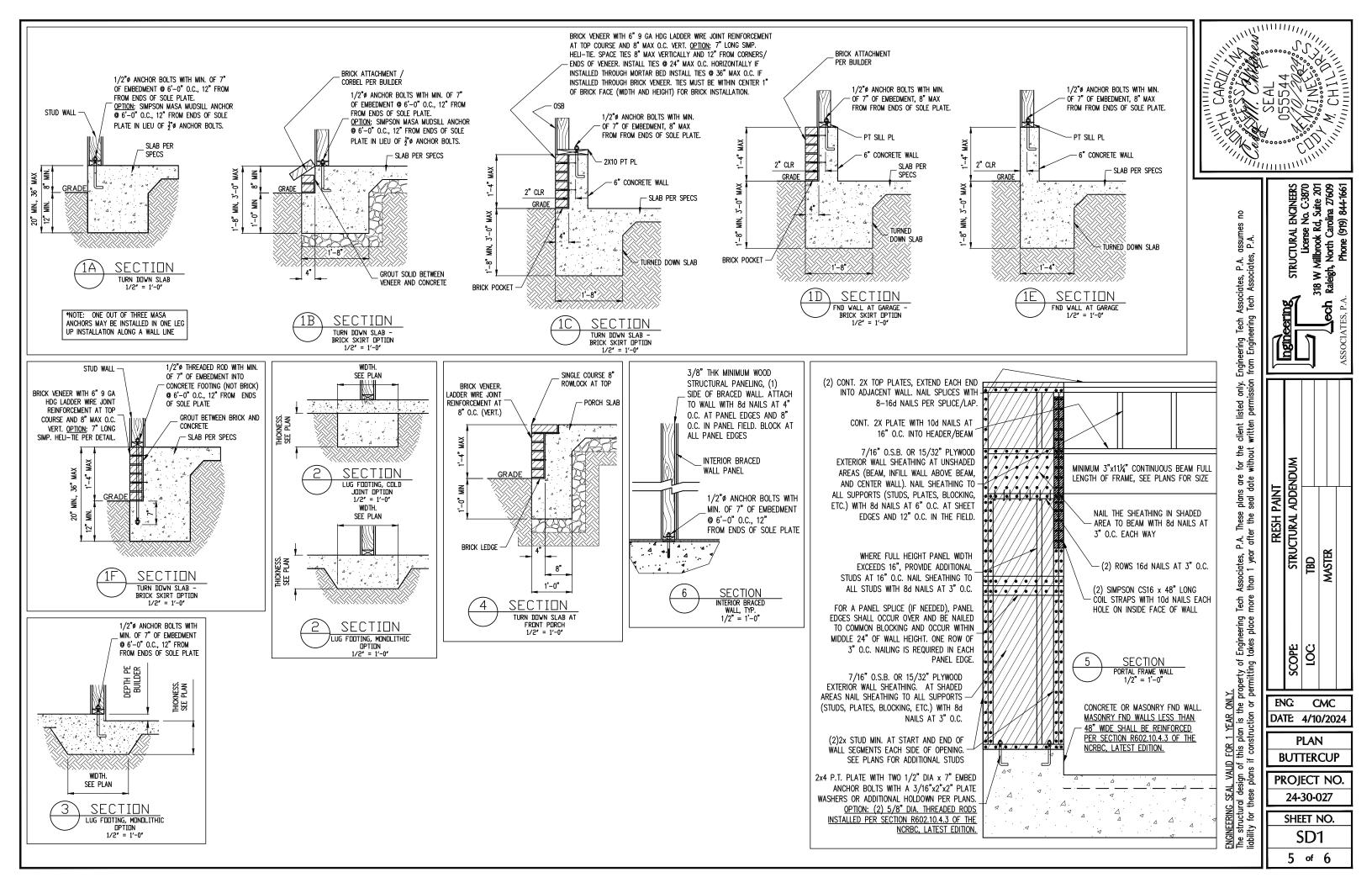
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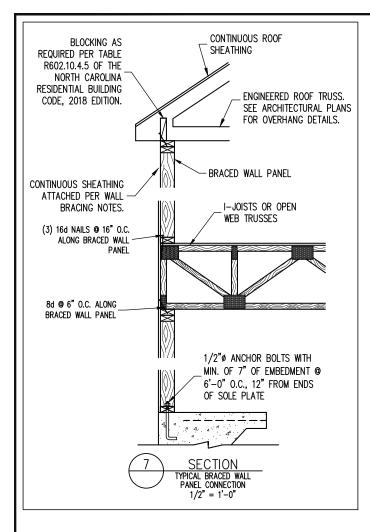


	FRAMING SCEDULE S1 INTERIOR LOAD BEARING WALL: SECURE TO THICKENED SLAB BELOW WITH 1/2" Ø RED HEADER ANCHOR (OR EQUAL) @ 6"-0" O.C., 12" MAX FROM ENDS / CORNERS OF WALL, 7" MIN EMBEDMENT INTO SLAB BELOW. JOIST SUBSTITUTION 14" FLOOR TRUSSES PERMITTED TO BE SUBSTITUTED	SEAL CARD////////////////////////////////////
	WITH 14" 1-JOISTS. MAINTAIN MINIMUM SPACING AS CALLED OUT ON PLANS. SIMP. IUS/ITS3.56/14 HANGERS TO BE SUBSTITUTED WITH SIMP. IUS/ITS2.06/14 HANGER WHEN I-JOISTS HAVE BEEN INSTALLED. CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION: PART 1.01: <u>CURRENT GOVERNING CODE</u> PART 1.4: <u>STUD SUPPORT FOR BEAMS</u> PART 17: <u>KING STUDS FOR EXTERIOR WALLS</u> SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS	Engineering Tech Associates, P.A. assumes no from Engineering Tech Associates, P.A. <b>Ingineering</b> STRUCTURAL ENCINEERS <b>378 W Milbrook Rd, Suite 201</b> <b>378 W Milbrook Rd, Suite 201</b> ASSOCIATES, P.A. Phone (919) 844-1661
ALLS ? .S	WALL BRACING         SHADED WALLS:         SHADED WALLS: EXTERIOR SIDE,         ARE TO BE CONTINUOUSLY SHEATHED WITH         7/16 APA RATED OSB NAILED TO STUDS WITH         MODE OF INTERIOR WALL OT INSIDE OF         AUL OF INTERIOR WALL OR INSIDE OF         MODE STUCTURAL PANELING ATTACH 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 3/8" MIN. THICKNESS         WOOD STRUCTURAL PANELING. ATTACH WSP         TO STUD WALL WITH 8/8" MIN. THICKNESS         WOOD STRUCTURAL PANELING. ATTACH WSP         TO STUD WALL WITH 8/8" MIN. THICKNESS         WOOD STRUCTURAL PANELING. ATTACH WSP         TO STUD WALL WITH 8/8" MIN. THICKNESS         WOOD STRUCTURA WALL OR INSTICUTION         SPECIFICATIONS FOR GENERAL WIND BRACING         INFORMATION.         HEADER SCHEDULE         HI SINGLE 2X4 TURNED FLAT (A)         HEADER SCHEDULE         HI SINGLE 2X4'S ON SINGLE JACKS (B)         I SUIO'S ON SINGLE JACKS         I SUIO'S ON SINGLE JACKS	1 YEAR ONLY.         plan is the property of Engineering Tech Associates, P.A. These plans are for the client listed only.         nstruction or permitting takes place more than 1 year after the seal date without written permission         nstruction or permitting takes place more than 1 year after the seal date without written permission         nstruction or permitting takes place more than 1 year after the seal date without written permission         nstruction or permitting takes place more than 1 year after the seal date without written permission         nstruction or permitting takes place more than 1 year after the seal date without written permission         nstruction or permitting takes place more than 1 year after the seal date without written permission         nstruction or permitting takes place more than 1 year after the seal date without written permission         nstruction or permitting takes place         nstruction or permitting takes place         nstruction or permitting takes place         nstruction or permitting takes         nstruction or permitting         nstruction or permittanting ta
D. _ <u>AN</u> <u>Loeung</u> = 1'-0'	<ul> <li>(B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.</li> <li>(C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.</li> <li>NOTES: -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.</li> <li>FOUNDATION SCHEDULE F1 ENLARGE FOOTING TO 36" S0. X 12" THK NOTES: -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION.</li> </ul>	ENGINEERING SEAL VALID FOR 1 YEAR ONLY. The structural design of this plan is the pro Interstruction or pe BOTTEECODE BOT









	CONSTRUCTION	SP	ECIFICATION	<u>S</u>			
	PART 1: GENERAL	7.04			FICATIONS OF ACI 530		WITHIN THE CAVITY FO
1.01	Construction shall meet the requirements of the North Carolina residential CODE, 2018 Edition.	7.05	LADDER WIRE REINFORCEN FOR CONTINUOUS WALL A	IENT SHALL CONFORM TO ASTM	A951. 6" MIN LAPS		FLOOR JOISTS. PART 15: NAILING OF
1.02	DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.		PART 8: BOLTS AND LAG			15.01	SOLID SAWN LUMBER
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.	8.03	ANCHOR RODS AND BOLTS ANCHOR BOLTS SHALL HA	s shall conform to astm F15 Ve a 2" min hook uno	554—15 GRADE 36 UNO. BENT		ADJACENT MEMBERS II © 16" O.C. FOR 2X10 ROW OF 10d NAILS ©
	PART 2: DESIGN LOADS		PART 9: DRIVEN FASTENER	<u>RS</u>		15.02	LVL MEMBERS THAT A IN THE BEAM FASTE
2.01	DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:	9.01	NAILS, SPIKES AND STAPL COMMON WIRE OR BOX	ES SHALL CONFORM TO ASTM F	1667- 05. NAILS ARE TO BE		UNO
	USE LIVE LOAD (PSF) DEAD LOAD (PSF)		PART 10: DIMENSIONAL LU	MBER			PART 16: WALL FRAM
	BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH	10.01		ing design is based on no. 2 Rders, beams, studs, etc.	SPRUCE PINE FIR <u>OR</u> SYP <b>#</b> 2	16.01	STUD WALLS SHALL C BE CONTINUOUS FROM OR ROOF. NO INTERME
	FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES 40 10 GARAGES (PASSENGER CARS ONLY) 50	PAR	T 11: ENGINEERED LUMBER				STUD WALL EXCEPT A FOR SUCH OPENINGS MAX ALLOWABLE W
	ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10 ATTICS (WITH STORAGE) 20 10	11.01	E= 1.9 X 10E6 PSI, Fb LSL MINIMUM ALLOWABLE	.0WABLE DESIGN STRESSES ARE = 2600 PSI, Fv = 285 PSI, F DESIGN STRESSES ARE AS FOLL = 1700 PSI, Fv = 400 PSI, F	Fc = 750 PSI LOWS:		AND DBL TOP PLA 2X6 PURLINS AT 8 2X4 @ 16 2X4 @ 12
	ROOF 20 10 (15 FOR VAULTS)	11.02	LVL OR PSL MEMBERS M	AY BE RIPPED FROM DEEPER ME	MBERS TO MATCH THE MEMBER		DBL 2X4 @ 16
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 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		DEPTH SPECIFIED IN THE PART 12: PRESSURE TREA			16.02	FOR WALL BRACING TH -BLOCKING AT UNSUP
	<ul> <li>BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS THE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER</li> </ul>	12.01			ASONRY SHALL BE PRESSURE		-WALL BRACING IS BY 602.10 OF THE 2013 WITH ALTERNATIVE I
	THESE CONDITIONS		SHALL BE TREATED IN ACCORDANCE	H THE GROUND, CONCRETE OR I WITH AWPA STANDARD C-15. CCORDANCE WITH AWPA STANDA N. THE BUILDING CODE OFFICE N	ALL OTHER EXPOSED LUMBER RD C—2 OR BY ANY METHOD 1AY ALSO APPROVE A NATURAL		OF THE 2018 NCRC -BRACED WALL PANEL
2.02	INTERIOR WALLS: 5 PSF LATERAL.		DECAY RESISTANT WOOD	PER SECTION 19-6(A)	AT ALSO AFFROVE A NATORAL		PROVIDE CONTINUOU R602.3.5 AND R802
2.03	BASIC WIND DESIGN VELOCITY OF 120 MPH. SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).		PART 14: STUD SUPPORT				-MAY SUBSTITUTE WS -SINGLE JOIST, CONTI ABOVE AND BELOW A
2.04	PART 5: CONCRETE AND SLABS ON GRADE	14.01	STEEL, ENGINEERED LUME SHALL BEAR AS FOLLOWS	BER, AND FLITCH PLATE BEAMS	BEARING ON A STUD WALL		WITH 16d TOE NAILS
5.01	CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND	1-W	HEN THE BEAM IS PERPENI	DICULAR TO, OR SKEWED RELATI	VE TO THE WALL, THE BEAM		BELOW WITH (3) 16d WALL LINES ONLY RE
	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.	B	Y A MINIMUM OF THREE GA F STUDS SUCH THAT THE S	THE SUPPORTING WALL INDICAT NGED STUDS, OR A GANGED STU STUD COLUMN IS AT LEAST AS	UD COLUMN WITH A NUMBER WIDE AS THE TRUE WIDTH OF		PART 17: KING STUDS
5.02	REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN	C	ondition particular care	STUD COLUMN IS AT LEAST AS 1 D, WHICHEVER IS GREATER, TYP E SHALL BE TAKEN TO ENSURE	uno. For the skewed stud column is centered on	17.01	King studs for ope
	ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.	2-E		end of a stud wall parallel The wall and be supported			MAX OPENING WIDTH
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 YD. SLAB TO BE		DLUMN TYP UNO.	THE WALL AND DE SUFFORTED	BT A INPL STOD GANGED		2X4 STUD SIZE 2X6 2X8
	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			AMS BEARING ON A STUD WALL			PART 18: SUBSTITUTIO
	IN ENCLOSED AREAS PART 6: REBAR AND WIRE REINFORCEMENT	S	Hall bear <u>full width</u> on	Dicular to, or skewed relati The supporting wall indicat	ED (LESS 1 1/2" TO ALLOW	18.01	MATERIAL OR MEMBER
6.01	REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO	G	ANGED STUD COLUMN THE	ST WHERE APPLICABLE) AND SHA SAME WIDTH AS THE BEAM TYP	UNO. (E.G. A TRIPLE 2X10 IS		DEVIATIONS REQUIRE 1 DESIGNERS. UNAUTHOR
6.02	LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO	B	d be supported by (3) s taken to ensure stud	TUDS). FOR THE SKEWED CONDI COLUMN IS CENTERED ON THE	TION PARTICULAR CARE SHALL		RESPONSIBILITY OF TH PART 19: OWNERSHIP
6.03	WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.	M	Heams bearing on to the H INIMUM of 3" onto the W 1/P uno.	end of a stud wall parallel All and be supported by a 1	. TO THE BEAM SHALL BEAR A DBL STUD GANGED COLUMN	19.01	THE STRUCTURAL DES
	PART 7: MASONRY	14.03		on a stud wall perpendicula	R TO OR SKEWED RELATIVE TO		OF ENGINEERING TEC ARE FOR THE ONE T
7.01	concrete masonry units shall conform to astm C90 and C55, normal weight, $f^\prime M$ = 1,500 PSI Min		THE BEAM SHALL BE SU	ipported by one additional s	STUD.		AND FOR THE CLIENT FOR THESE PLANS IF IN PART, FOR CONST
7.02	CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW	14.04	THE COLUMN NAILED TO	D TO FORM A COLUMN SHALL H GETHER WITH ONE ROW OF 10d	NAILS AT 8" O.C. (TWO ROWS		WITHOUT WRITTEN PE
7.03	MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.		BE CONTINUOUS DOWN TO STRUCTURAL FLEMENT SL	3" APART, FOR 2X8 OR 2X10 1 D THE FOUNDATION OR OTHER P ICH AS A BEAM. COLUMNS TRAM	ROPERLY DESIGNED		
			FLOOR LEVELS SHALL BE	SOLIDLY BLOCKED FOR THE FUL	<u>L WIDTH</u> OF THE STUD COLUMN		
	NATEO				10		
	<u>NOTES</u>			ABBREVIATION	NS		ALLOWA
	uilder is responsible for reviewing plans prior to construction. The builder Immediately contact the engineer of record (EOR) before proceeding if the	ABV B.	ABOVE BOTH	FND FOUNDATION FTG FOOTING	tj triple joist Typ typical		NOTE: MAINTAIN JOIS
FOLLO	INVIGE CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: INIG CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR	B.E. BTWN	BOTH ENDS	HDG HOT DIPPED GALVANIZED	TRPL TRIPLE TSP TRIPLE STUD POCKET		PLANS.
	THE HORKING PLANS DO NOT BEAK THE SEAL OF THE EOK THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION	CIP	CAST IN PLACE CONCRETE	HGR HANGER LVL LAMINATED VENEER	UNO UNLESS NOTED OTHERWISE		MANUFACTURER D
	RRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE	CS	CONTINUOUS SHEATHING DIAMETER	LUMBER NTS NOT TO SCALE	XJ EXTRA JOIST		
ENSUR	INSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE NITRACTORS	DBL	DOUBLE DOUBLE JOIST	O.C. ON CENTER PSL PARALLEL STRAND			BLUELINX BOISE CASCADE
		DSP EQ	DBL STUD POCKET	LUMBER PT PRESSURE TREATED			BOISE CASCADE LP CORP
	OR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER LATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.	EA FLG	EACH	QJ QUAD JOIST SP STUD POCKET			NORDIC ROSEBURG
	AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW		FLITCH PLATE	SQ SQUARE			WEYERHAEUSER WEYERHAEUSER
L		I		I	I	J	JOISTS NOT LISTED IN MEET OR EXCEED TH
							BRAND HANGERS WIT

#### RMED BY THE

#### MULTI PLY WOOD BEAMS

JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE N THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d NAILS OR LARGER, TWO ROWS OF 10d NAILS @ 10° 0.C. FOR 228, ONE 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN.

ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS ENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP

#### NG AND BRACING

ONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL 

E AND //16 Sol Extended Bracing and for ext / β Height (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNC: 5° O.C.: 12'-0° 2X6 ⊕ 16° O.C.: 12'-0° 2° O.C.: 12'-0° 2X6 ⊕ 16° O.C.: 21'-0° 5° O.C.: 13'-4° DEL 2X6 ⊕ 16° O.C.: 21'-0°

IE FOLLOWING SHALL APPLY: PORTED PANEL EDGES IS REQUIRED TYP UNO. Y ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 8 NORC, CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 HAS BEEN MET AND EXCEEDED.

C HAS BEEN MET AND EXCEEDED. ELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO US PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCREC 2.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS. SP FOR GB INNUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE S  $0^{\circ}$  C.C. NAILS. NAIL BLOCKING ABOVE WALL TO TOP PLATE S  $0^{\circ}$  C.C. NAILS. NAIL BLOCKING ABOVE WALL TO BLOCKING d NAILS 0 16°. O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED eINIERD AT SUADED WALLS LINDO QUIRED AT SHADED WALLS, UNO.

NINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

NUMBER OF KING STUDS				
5'-0"	9'-0"	13'-0"	17'-0"	21'-0"
1	2	3	4	5
1	Ī	2	2	2
1	1	1	1	2

<u>DNS</u>

R SIZE SUBSTITUTIONS OR PLAN THE WRITTEN AUTHORIZATION OF THE RIZED DEVIATIONS ARE THE SOLE F CONTRACTOR.

#### OF STRUCTURAL DESIGN

ESIGN OF THIS PLAN IS THE PROPERTY ECH ASSOCIATES (ETA). THESE PLANS TIME USE AT THE LOCATION INDICATED NT LISTED. ETA ASSUMES NO LIABILITY IF THEY ARE REPRODUCED, IN WHOLE OR STRUCTION AT ANY OTHER LOCATION PERMISSION FROM ETA

#### ABLE I-JOIST SUBSTITUTION

ST DEPTH, DIRECTION, AND SPACING SPECIFIED ON

DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR			
14"	BLI 40	IUS2.56/14	ITS2.56/14			
14"	BCI 5000s	IUS2.06/14	ITS2.06/14			
14"	BCI 6000S	IUS2.37/14	ITS2.37/14			
14"	LPI 20+	IUS2.56/14	ITS2.56/14			
14"	NI 40X	IUS2.56/14	ITS2.56/14			
14"	RFPI 40s	IUS2.56/14	ITS2.56/14			
14"	TJI 210	IUS2.06/14	ITS2.06/14			
14"	EEI-20	IUS2.37/14	ITS2.73/14			
IN THE ABOVE TABLE MAY BE USED PROVIDED THEY HE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP ITH EQUIVALENT VALUES AS DESIRED.						

