

NOTE!

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(ONE) RESIDENCE ONLY, ANY OTHER USE, CHANGE
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ATTIC VENTILATION

3832 = 12.77 sq. ft. REQD.
300

*() - BASE, / VENTS =

*() - BASE, / VENTS =

* =

* =

* =

* (117') - RIDGE VENT @ 9 sq.in./ft. = 7.31 SQ. FT.

TOTAL = 1.31 SQ. FT.

** PROVIDE CONTINUOUS SOFFIT VENT SUUROUND
TO EQUAL OR EXCEED 6.38 SQ. FT.

*** (OPT.) PROVIDE THEMOSTATICALLY CONTROLLED
POWER VENT TO EQUAL OR EXCEED 6.38 SQ. FT.

CODE INFORMATION

* ZONE: (CHECK ONE)
ZONE 1
ZONE 8
ZONE
* GLAZING U-FACTOR
* R-VALUES
CEILING

CEILING R-38
WALL R-15
FLOOR R-19
BSMNT, WALL
SLAB PERIMETER

CRAWL SPACE WALL

MEAN ROOF HEIGHT 22'-3"

* WALL AND ROOF CLADDING DESIGN VALUE: (MEAN ROOF HGT. 30 ft. OR LESS) CRAWL SPACE WALL

WALLS +18.0, -24.1

ROOF PITCH 0/12 TO 2.25/12 +10.0, -45.4

ROOF PITCH 2.25/12 TO 7/12 +10.4,-34.8

ROOF PITCH 7/12 TO 12/12 +16.5,-21.0

EXPOSURE ADJUSTMENT X

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AARNOW DESIGN AROUP,
1140-500 KILDAIRE FARM ROAD
CARY, NORTH CAROLINA 27511
919) 481-9115 FAX; (919) 481-6970

MURPHY

AGONER HOMES

ONECREST & NORWOOD

LOT #1

DRAWN BY: TWG DATE: 8-21-19 FILE NAME: WH-15-3631

REVISIONS **00-00-00 TWG PLAN**

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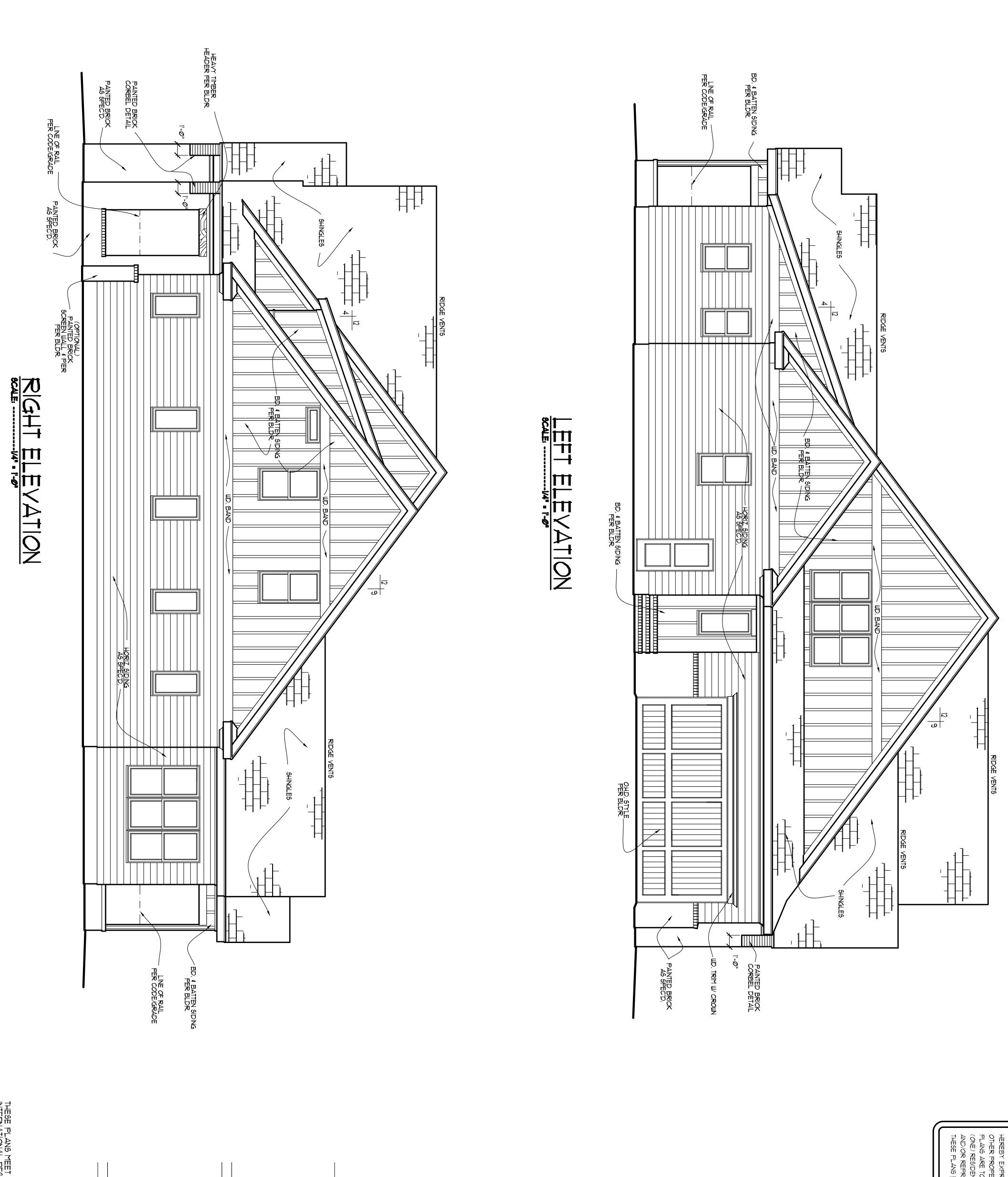
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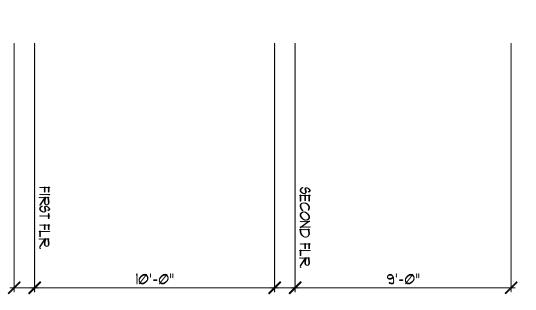
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THESE PLANS MEET THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE '2015' AND THE NORTH CAROLINA RESIDENTIAL CODE '2018' EDITION.



THESE PLANS MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE '2015' AND THE NORTH CAROLINA RESIDENTIAL CODE '2018' EDITION.



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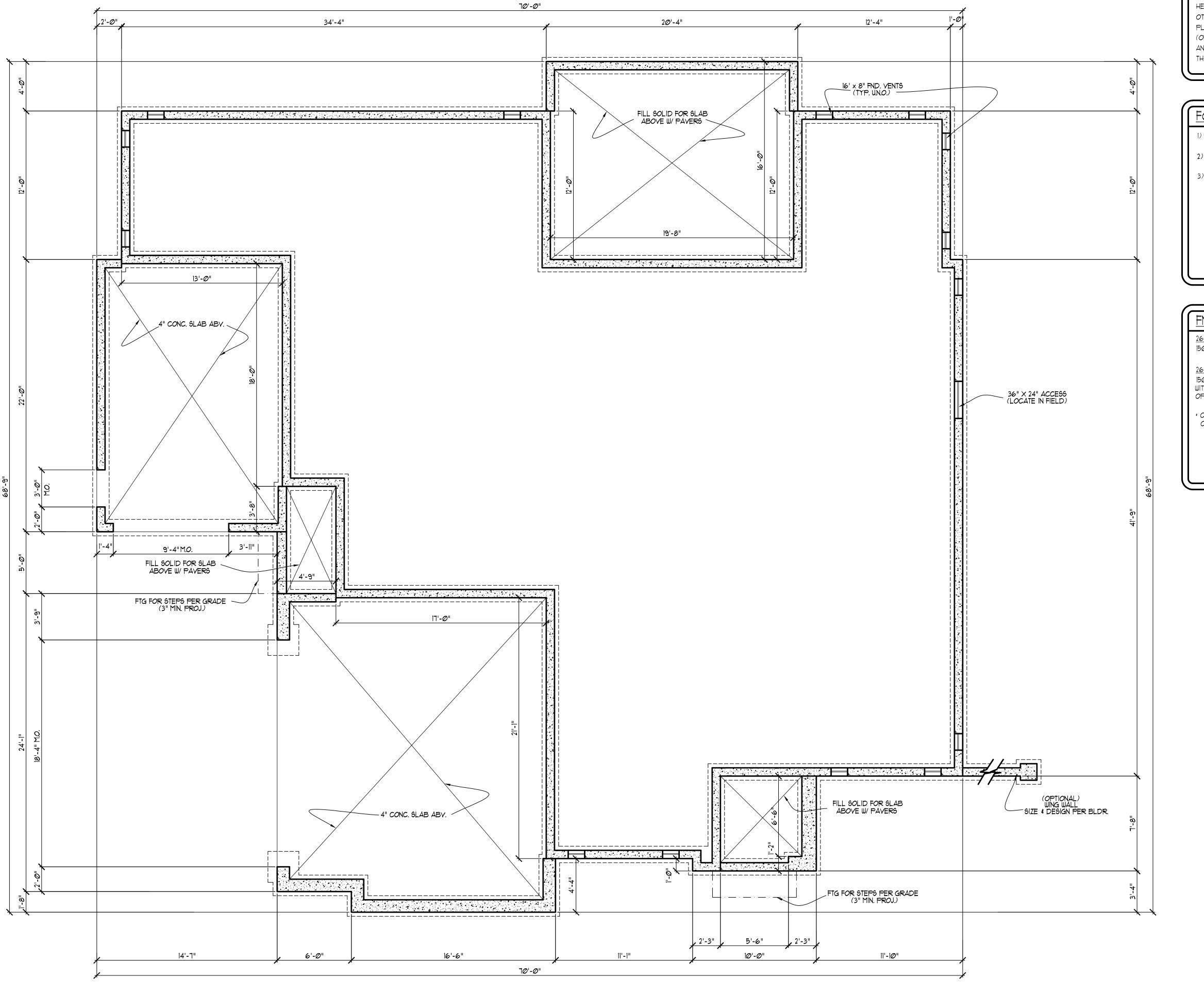
WAGONER HOMES

STONECREST @ NORWOOD

LOT #27

MURPHY GARNOW DESIGN GROUP, INC.

| 140-300 KILDAIRE FARM ROAD | CARY, NORTH CAROLINA 275|| | (9|9) 48|-9||5 FAX: (9|9) 48|-6970 | www.murphygarnowdesign.com ALL DIMENSIONS, SITE CONDITIONS & CODES ARE TO BE VERIFIED BEFORE CONSTR. HAS BEGINS. ONCE CONSTR. HAS BEGIN MURPHY GARNOW DESIGN GROUP, INC. WILL NOT ASSUME ANY LIABILITY FOR ANY EXPENSES ASSOCIATED WITH ERRORS & OMISSIONS.



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FOUNDATION NOTES

1) PROVIDE DBL. BAND @ EXTERIOR WALLS

- PARALLEL TO FLOOR JOISTS 2) ALL 1/2 PIERS TO BE TIED INTO FND. WALL (BONDED)
- 3) PROVIDE 1/2" ANCHOR BOLTS @ EXT. WALLS W/ 7" EMBEDMENT @ 6'-Ø" CNTRS. AND 12" FROM CORNERS

FND. VENTILATION

2619 = 17.46 SQ. FT. REQUIRED*

2619 = 1.74 SQ. FT. REQUIRED*

WITH APPROVED VAPOR RETARDER MATERIAL AND OPENINGS PLACED FOR CROSS VENTILATION

* ONE VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING

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6 C1 JAGONER

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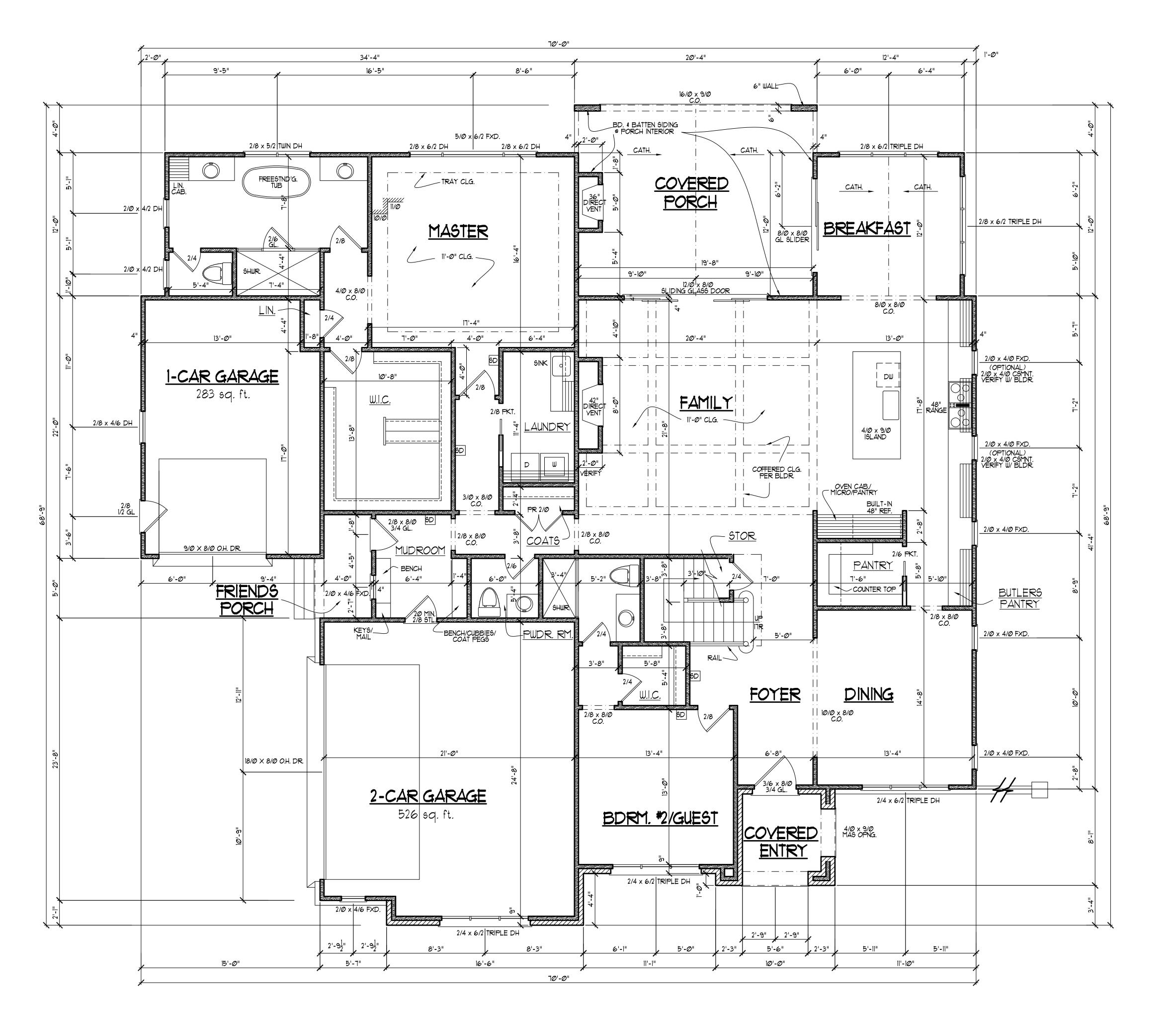
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FOUNDATION PLAN

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



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FIRST FLOOR NOTES:

- 1) 10'-0" CLG. HGT. (TYP.) U.N.O. 2) SET WINDOWS @ 8'-0" A.F.F. (TYP.) U.N.O. (VERIFY)
- 3) STAIRS: UP 17 RISERS @ 734" (+ -) (TYP.) (VERIFY W/ FLR. SYSTEM.)
- 4) PROVIDE 5/8" TYPE 'X' GYPSUM @ GARAGE CEILING ADJACENT TO HTD. SPACES PROVIDE 1/2" GYPSUM @ GARAGE

(TYP.) U.N.O.

- WALLSADJACENT TO HTD. SPACES 5) ALL WALLS FIGURED AT 4" WIDTHS FOR FOR STUD/5, 9" WIDTHS FOR STUD/BRICK
- 6) VERIFY ROUGH OPNG'S, SPECS. FOR CODE REQUIREMENTS WITH WINDOW MANUF. 1) SD = SMOKE DETECTOR
- 8) INT. DOORS TO BE 8'-0" H. (VERIFY W/ BLDR.)

SQUARE FOOTAGE (new cor					
	HTD.	UNHTD.			
* BSMNT.					
* FIRST FLR.	2599	<i>80</i> 9			
+ SECOND FLR. + ATTIC (3rd, FLR.)	1Ø32	418			
TOTAL	_ 3631	1227			
MISC.					
* COVERED ENTRY * COVERED PORCH * FRIENDS PORCH *	ł	69 317 38			
*					

WNDW. FALL PROTECTION NOTES:

SEE CODE SECTIONS R612 THRU R612.4 FOR WINDOW FALL PROTECTION DEVICE REQUIREMENTS IF WINDOW SILL IS LESS THAN 24" ABV. FLR. WITH A 6'-0" OR GREATER DISTANCE TO A SURFACE OUTSIDE AND BELOW THE WINDOW.

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GARNOW DESIGN GROUP

MURPHY

6 7 WAGONER CREST LOT STONE

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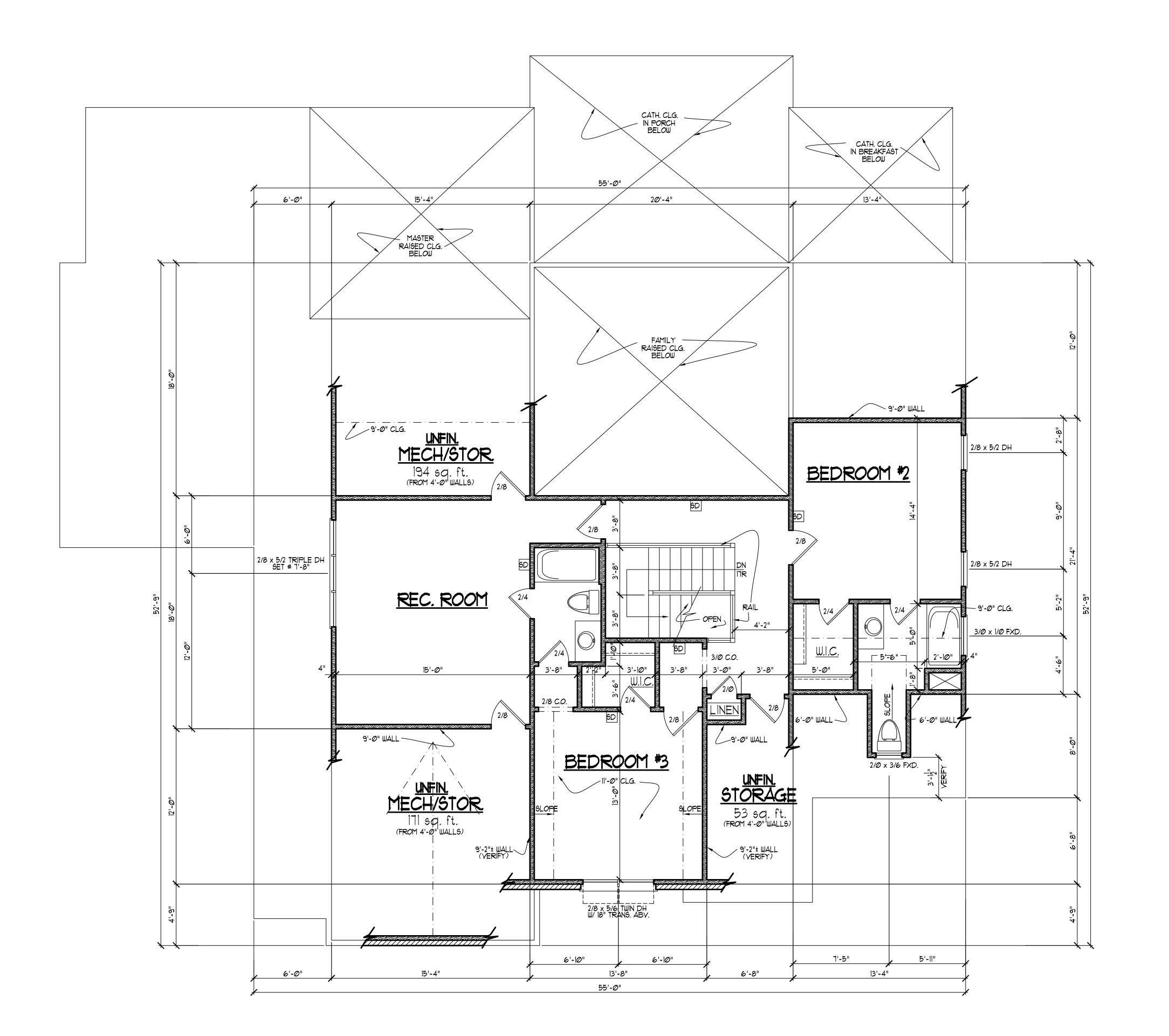
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FIRST FLOOR PLAN SCALE: -----1/4" = 1'-0"

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SECOND FLOOR NOTES:

1) 9'-0" CLG. HGT. (TYP.) UN.O.

2) SET WINDOWS @ 7'-4" A.F.F. (TYP.) U.N.O. (VERIFY)

3) STAIRS: UP 15 RISERS @ 8" (+ -) (TYP.) (VERIFY W/ FLR. SYSTEM.)

4) ALL WALLS FIGURED AT 4" WIDTHS FOR FOR STUDS, 9" WIDTHS FOR STUD/BRICK (TYP.) U.N.O.

5) VERIFY ROUGH OPNG'S, SPECS. FOR CODE REQUIREMENTS WITH WINDOW MANUF.

6) SD = SMOKE DETECTOR

MURPHY GARNOW DESIGN GROUP

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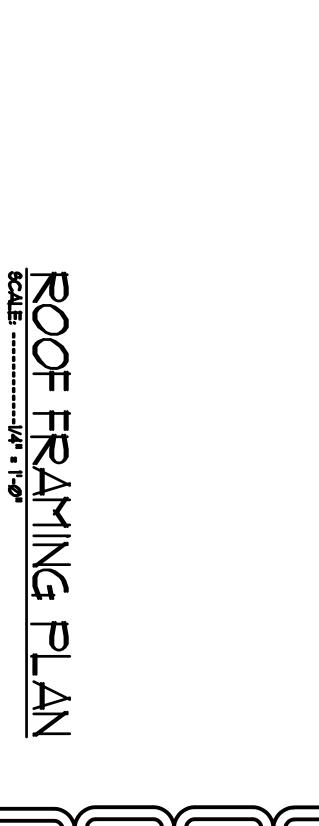
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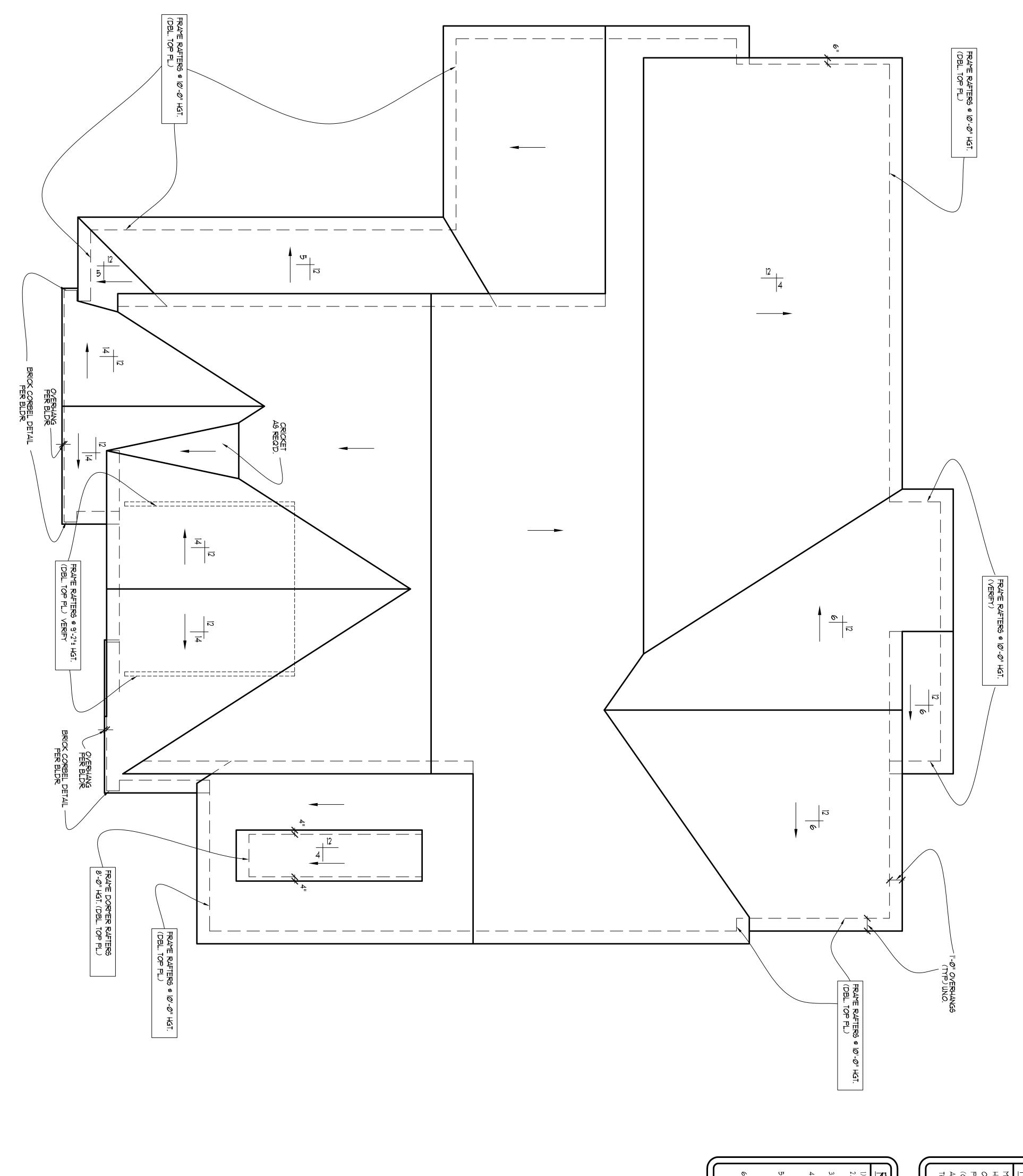
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SECOND FLOOR PLAN SCALE: -----1/4" = 1'-0"

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NOTES:

1) ALLROOF PITCHES TO BE 9/12 (TYP.) UN.O.
2) PROVIDE 2x4 COLLAR BEAMS EVERYOTHER RAFTER (TYP.)

3) PROVIDE "HURRICANE CLIPS" AT ALL VALLEYS AND OPPPOSING DBL. RAFTERS
4) PROVIDE DBL. HEADERS ABD TRIMMERS AT ALL ROOF OPENINGS (EX: DORMERS, SKYLIGHTS, CHIMNEYS,ETC.)

5) 2x8 RAFTERS © CATH. OR VAULTED CLGS. TO BE FURRED DOWN 2" OR USE 2x10 RAFTERS (VERIFY BRNG.HGT.) FOR PROPER INSULATION PER CODE
6) VERIFY ALL RAFTER BRNG. HGTS. BEFORE CONSTR. HAS BEGUN

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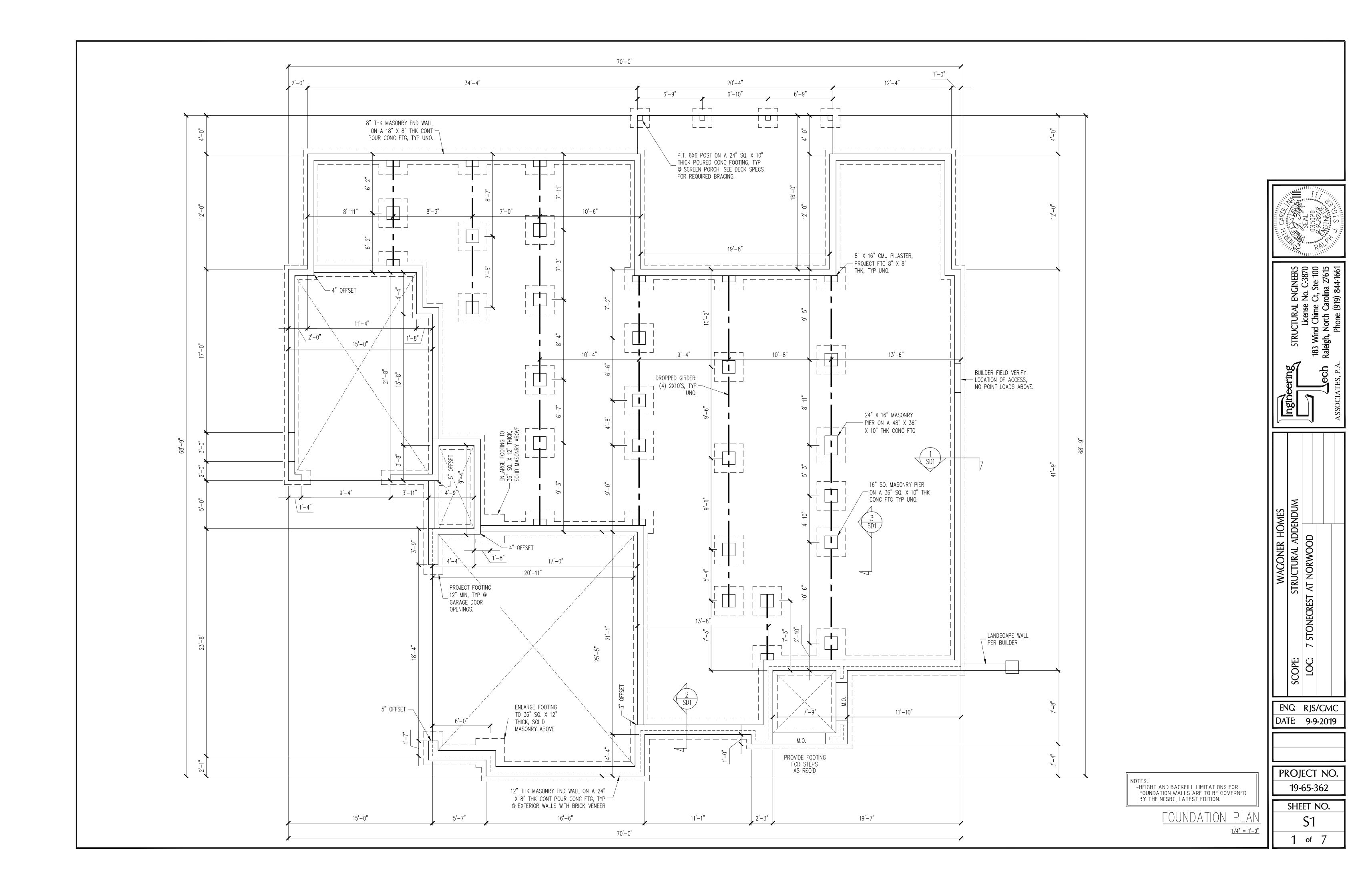
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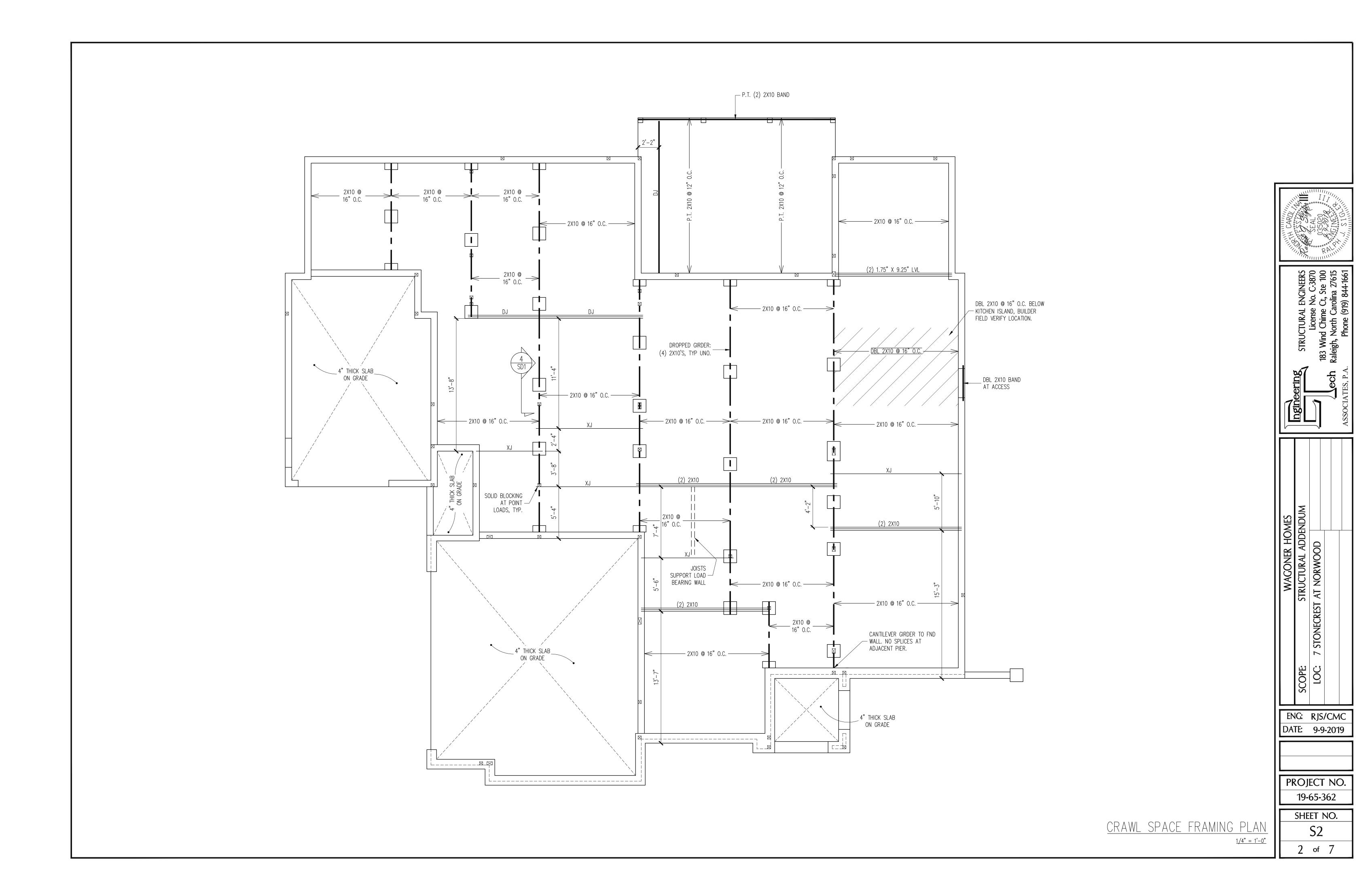
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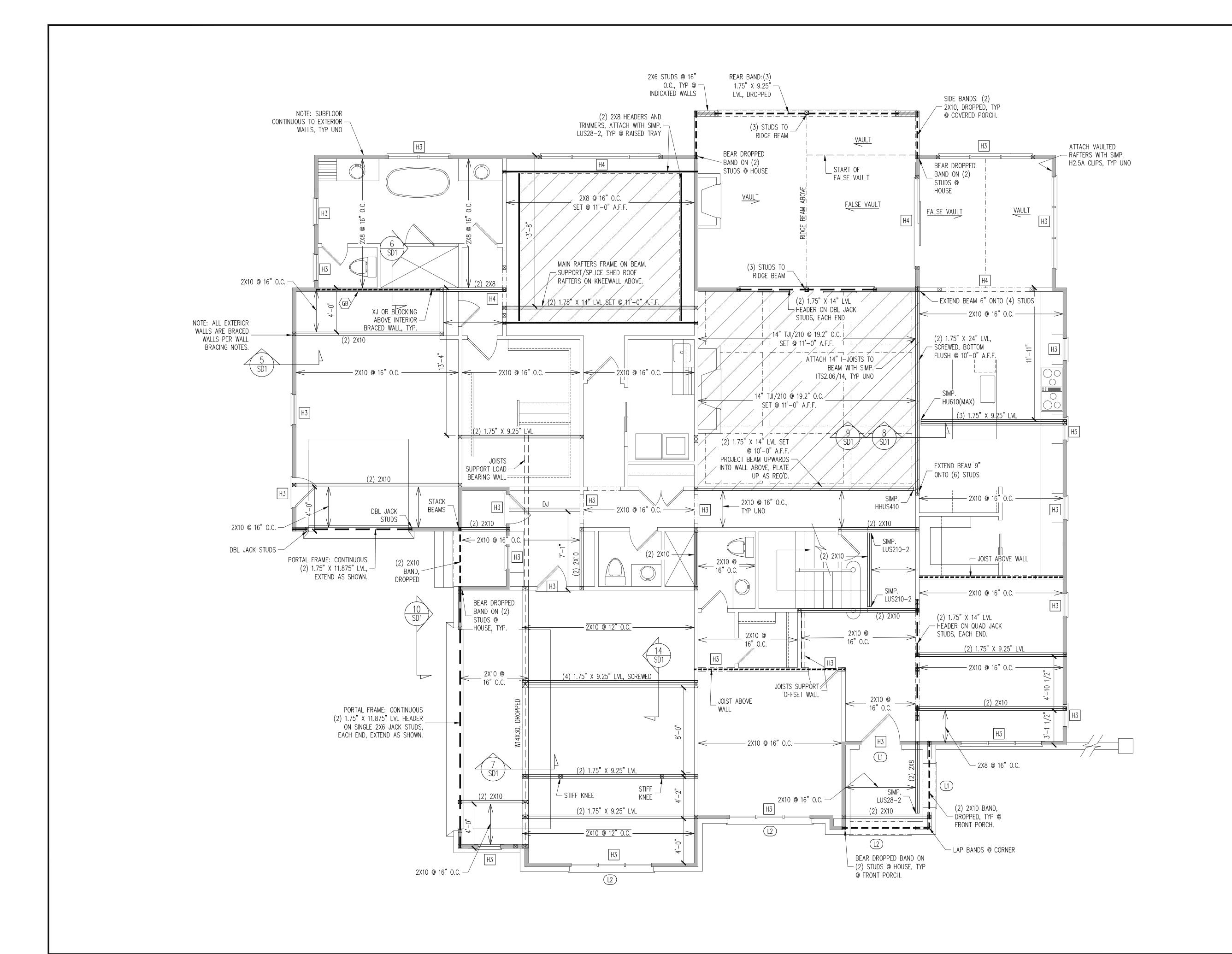
STONECREST @ NORWOOD LOT #27

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REQUIRED STUDS FOR BEAM SUPPORT

REFER TO PART 14: STUD SUPPORTS FOR BEAMS OF THE CONSTRUCTION SPECIFICATIONS FOR REQUIRED NUMBER OF STUDS FOR BEAM SUPPORT, TYP UNO.

LINTEL SCHEDULE

- L1 L 3 1/2 X 3 1/2 X 1/4 TYP UNO
- L2 L 5 X 3 1/2 X 5/16
- L3 L 6 X 4 X 5/16 ATTACHED TO HEADER (2)— 1/2" DIA. X 3" LONG LAG SCREWS AT 16" O.C. (ONE LAG SCREW @ 16" O.C. PERMITTED FOR 5' OR LESS BRICK ABOVE)
- L4 16 GAUGE FLEX LINTEL PER BUILDER

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) 2X10'S ON DBL JACKS
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING 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.
- HEADERS IN NON LOAD BEARING INTERIOR
 WALLS ARE NOT LABELED.

HEADER KING STUDS

SEE PART 17: KING STUDS OF THE CONSTRUCTION SPECIFICATIONS FOR REQUIRED NUMBER OF KING STUDS FOR EXTERIOR WALL HEADERS

WALL BRACING

ALL EXTERIOR STUD WALLS 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.

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 8d 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.

SHADED WALLS:

- GB INTERIOR BRACED WALL WITH GYPSUM BOARD.

 1/2" GB BOTH SIDES OF WALL ATTACHED TO

 PANEL EDGES, INCLUDING TOP AND BOTTOM

 PLATES, AT 7" O.C. (BUILDER PERMITTED TO

 SUBSTITUTE "WSP" FOR ANY "GB" WALL)
- WSP INTERIOR BRACED WALL WITH 3 MIN.

 THICKNESS WOOD STRUCTURAL PANELING, (1)

 SIDE. ATTACH WSP TO STUD WALL WITH 8d

 NAILS @ 6 O.C. AT PANEL EDGES, 12 O.C. IN

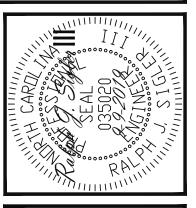
 PANEL FIELD. BLOCK AT ALL PANEL EDGES.

PROVIDED CONTINUOUS SHEATHING = 317' MIN.

-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 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.

FLOOR FRAMING PLAN



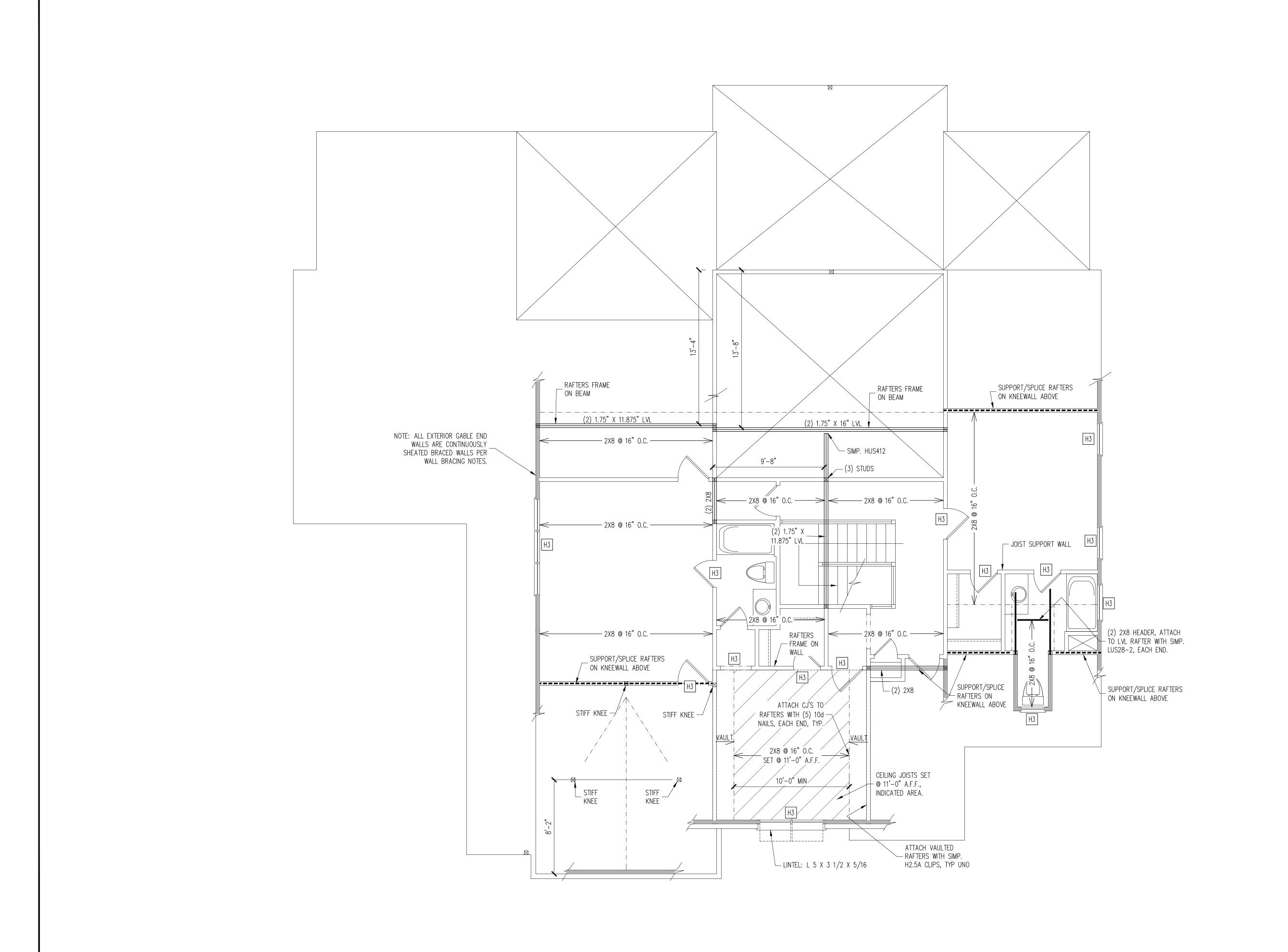
STRUCTURAL ENGINEERS License No. C-3870 183 Wind Chime Ct, Ste 100 ↑ Raleigh, North Carolina 27615

STRUCTURAL ADDENDUM
ECREST AT NORWOOD

ENG: RJS/CMC DATE: 9-9-2019

PROJECT NO. 19-65-362

SHEET NO.





REFER TO PART 14: STUD SUPPORTS FOR BEAMS OF THE CONSTRUCTION SPECIFICATIONS FOR REQUIRED NUMBER OF STUDS FOR BEAM SUPPORT, TYP UNO.

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
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING 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.

HEADER KING STUDS

SEE <u>PART 17: KING STUDS</u> OF THE CONSTRUCTION SPECIFICATIONS FOR REQUIRED NUMBER OF KING STUDS FOR EXTERIOR WALL HEADERS

WALL BRACING

ALL EXTERIOR STUD WALLS 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.

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 8d 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.

SHADED WALLS:

PROVIDED CONTINUOUS SHEATHING = 93' MIN. -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 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.

2ND FLOOR FRAMING PLAN

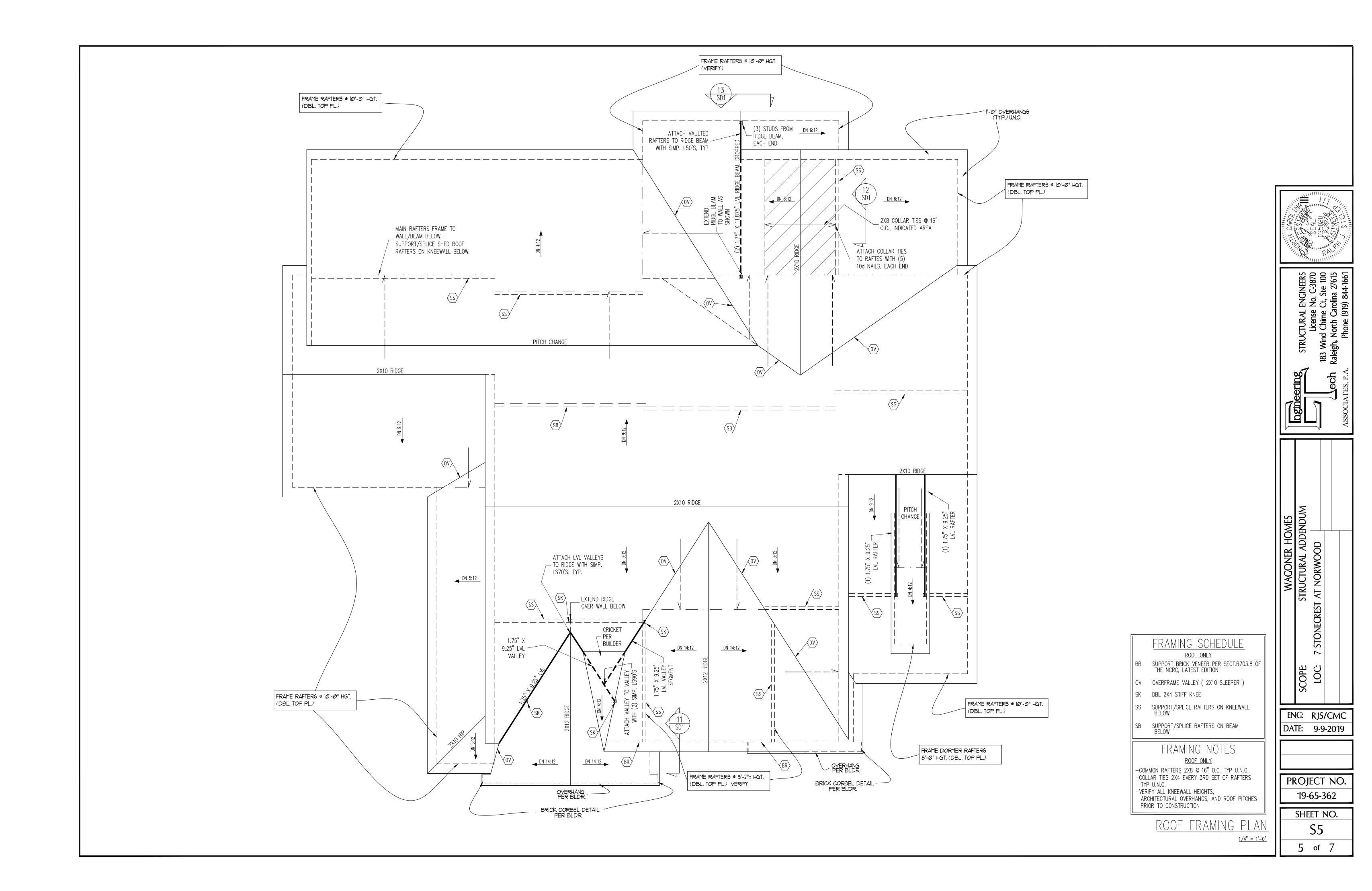
WALLS AND CEILING 1/4" = 1'-0"

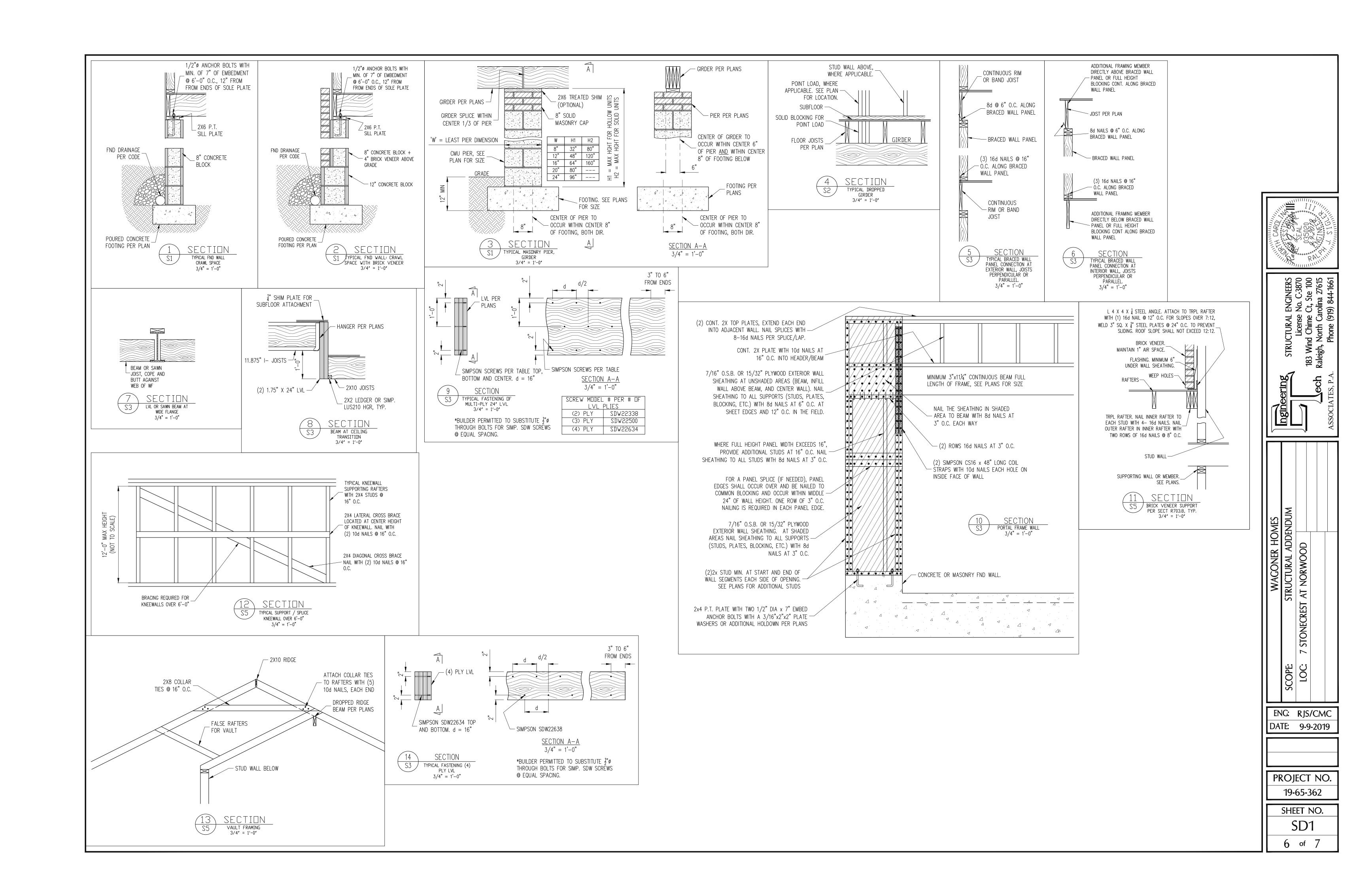
ENG: RJS/CMC DATE: 9-9-2019

PROJECT NO. 19-65-362

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	7. GIRDERS SH
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	8. FLOOR DECK MINIMUM FLO
	, militanow i EU

CONSTRUCTION SPECIFICATIONS

- ONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
- PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF RACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND IE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. DESIGN LOADS
- DADS SHALL CONFORM WITH THE TABLE BELOW:

AIR ACCESS, STAIRS, FIRE ESCAPES GARAGES (PASSENGER CARS ONLY) (NO STORAGE, LESS THAN 5' HEADROOM) ATTICS (WITH STORAGE)

- UAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED
- WIND DESIGN VELOCITY OF 120 MPH.
- STRUCTURAL STEEL
- INGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM

- RAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC ATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL
- CONCRETE AND SLABS ON GRADE PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND
- AVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. CRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP
- ED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN NCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
- ON A 6 MIL VAPOR BARRIER ON 2" MIN GRANULAR FILL ON SOIL WITH 90% NDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT

TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE F THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO NY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE

HAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

- ICTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL 118 EDITION.

S, DECKS, ATTICS WITH FIXED STAIR DWELLING UNITS INCLUDING ATTICS WITH

20 10 (15 FOR VAULTS) R00F

- OAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA SQ. WHICHEVER PRODUCES THE GREATER STRESS.

 ER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER
- WALLS: 5 PSF LATERAL.
- ARING CAPACITY 2000 PSF (PRESUMPTIVE).
- AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM
- PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE HER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE
- ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN IFIED WELDER

- ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED IBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE

RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER LY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE ITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: NG PLANS DO NOT BEAR THE SEAL OF THE EOR CONTAIN DISCREPANT OR INCOMPLETE INFORMATION

NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER

- 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 BE CLASS B AS DEFINED BY ACI 318, TYP UNO

IN ENCLOSED AREAS

- 6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064. <u>PART 7: MASONRY</u>
 - O1 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, f'M = 1,500 PSI MIN
- LIVE LOAD (PSF) DEAD LOAD (PSF) 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW
 - MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.
 - 7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530
 - D5 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS
 - FOR CONTINUOUS WALL APPLICATIONS PART 8: BOLTS AND LAG SCREWS
 - BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD
 - B.O2 LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1—1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR
 - <u>PART 9: DRIVEN FASTENERS</u>
 - 9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667-05. NAILS ARE TO BE COMMÓN WIRE OR BOX PART 10: DIMENSIONAL LUMBER
 - 0.01 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.
 - PART 11: ENGINEERED LUMBER .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

PART 12: PRESSURE TREATED LUMBER

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 RESISTANT WOOD PER SECTION 19-6(A) PART 13: STEEL FLITCH PLATE BEAMS

- FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PIECES TOGETHER USING 1/2" Ø BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 6" ± 2" FROM EACH END OF THE BEAM.
 - PART 14: STUD SUPPORTS FOR BEAMS
- .01 STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
- 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR <u>FULL WIDTH</u> ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED

ABBREVIATIONS

ABV	ABOVE	FND	FOUNDATION	TJ	TRIPLE JOIST
B.	BOTH	FTG	FOOTING	TYP	TYPICAL
B.E.	BOTH ENDS	HDG	HOT DIPPED	TRPL	TRIPLE
BTWN	BETWEEN		GALVANIZED	TSP	TRIPLE STUD POCKET
CIP	CAST IN PLACE	HGR	HANGER	UNO	UNLESS NOTED
CONC	CONCRETE	LVL	LAMINATED VENEER		OTHERWISE
CS	CONTINUOUS SHEATHING		LUMBER	XJ	EXTRA JOIST
DIA	DIAMETER	NTS	NOT TO SCALE		
DBL	DOUBLE	0.C.	ON CENTER		
DJ	DOUBLE JOIST	PSL	PARALLEL STRAND		
DSP	DBL STUD POCKET		LUMBER		
EQ	EQUAL	PT	PRESSURE TREATED		
EA	EACH	QJ	QUAD JOIST		
FLG	FLANGE	SP	STUD POCKET		
FL PL	FLITCH PLATE	SQ	SQUARE		
FIR	FLOOR				

DECK SPECIFICATIONS

- AN EXPOSED EXTERIOR WOOD FLOOR STRUCTURE WHICH MAY BE ATTACHED TO E OR BE FREE STANDING. ROOFED PORCHES, OPEN OR SCREENED IN, MAY BE ED USING THESE PROVISIONS.
- POSTS SHALL BE SUPPORTED BY A FOOTING.
- CHED TO A STRUCTURE, THE STRUCTURE TO WHICH ATTACHED SHALL HAVE A OOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION RESISTANT FLASHING 9. MAXIMUM HEIGHT OF DECK SUPPORT POSTS IS AS FOLLOWS: ISED TO PREVENT MOISTURE FROM COMING IN CONTACT WITH THE UNTREATED THE STRUCTURE. THE DECK BAND AND THE STRUCTURE BAND SHALL BE ED IN CONTACT WITH EACH OTHER EXCEPT AT BRICK VENEER AND WHERE HEATHING IS REQUIRED AND PROPERLY FLASHED. SIDING SHALL NOT BE BETWEEN THE STRUCTURE AND THE DECK BAND. IF ATTACHED TO A BRICK . NEITHER FLASHING NOR A TREATED BAND FOR THE BRICK STRUCTURE D. IN ADDITION, THE TREATED DECK BAND SHALL BE CONSTRUCTED IN CONTACT
- DECK IS SUPPORTED AT THE STRUCTURE BY ATTACHING THE DECK TO THE THE FOLLOWING ATTACHMENT SCHEDULES SHALL APPLY FOR ATTACHING THE TO THE STRUCTURE:
- RUCTURES EXCEPT BRICK STRUCTURES

	JOIST LENGTH UP TO 8' MAX. UP TO 16' MAX.			
REQUIRED FASTENERS	I(Z) NOWS OF IZU WAILS & O O.C. ON			

EER STRUCTURES

	JOIST I	LENGTH
	UP TO 8' MAX.	UP TO 16' MAX.
REQUIRED FASTENERS	ONE- 5/8" Ø BOLT @ 28" O.C.	ONE- 5/8" Ø BOLT @ 16" O.C.

- (BAND IS SUPPORTED BY A 1/2" MINIMUM MASONRY LEDGE ALONG THE WALL, 5/8" Ø BOLTS SPACED @ 48" O.C. MAY BE USED FOR SUPPORT.
- NS OF SUPPORT, SUCH AS JOIST HANGERS, MAY BE USED TO CONNECT DECK TREATED STRUCTURE BAND
- ALL BEAR DIRECTLY ON POSTS OR BE BE CONNECTED TO THE SIDES OF POSTS 5/8" ø BOLTS
- KING SHALL BE NO. 2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. THE LOOR DECKING THICKNESS SHALL BE AS FOLLOWS:

- JOIST SPAN DECKING 1" S4S 1" T&G 16" O.C. 24" O.C. 1 1/4" S4S

MOM TILIGHT OF DECK SOFT ONE FOSTS IS AS FOLLOWS.					
POST SIZE	MAX POST HEIGHT				
4X4	8'				
6X6	20'				
FNGINFFRFD	20' +				

- NOTES: 1) THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. 2) THIS TABLE IS BASED ON A MAXIMUM TRIBUTARY AREA OF 128 SQ. FT. 3) POST HEIGHT IS FROM TOP OF FOOTING TO BOTTOM OF GIRDER.
- DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THE FOLLOWING METHODS:
- B. 4X4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL. KNEE BRACES SHALL BE ATTACHED AT

THE ENDS TO THE GIRDER AND THE POST WITH ONE - 5/8" BOLT

A. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION 4, LATERAL BRACING IS NOT REQUIRED.

	y be provided b			L BRACING, LATER CRETE IN ACCORD.	
POST SIZE	TRIBUT. AREA	POST HEIGHT	EMB. DEPTH	CONC. DIAM.	

- D. 2X6 DIAGONAL VERTICAL CROSS BRACING SHALL BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREE STANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE BRACES SHALL BE ATTACHED TO THE POSTS WITH ONE -5/8" ϕ BOLT AT EACH END OF THE BRACE.
- NOTES: 1) ALL NAILS AND BOLTS ARE TO BE HOT DIPPED GALVANIZED. 2) MINIMUM EDGE DISTANCE FOR BOLTS IS 2 1/2". 3) NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 1 1/2".

- 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 CENTERED ON 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
- 14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS: 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR <u>FULL_WIDTH</u> ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW 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 2X10 IS 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 MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN
- 14.03 EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.
- 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 @ 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 FOR THE FULL WIDTH OF THE STUD COLUMN WITHIN THE CAVITY FORMED BY THE
- 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 NAILS @ 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.
- 15.02 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP
- PART 16: WALL FRAMING
- 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 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 PART 17: KING STUDS
- 7.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:
- MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"
- PART 18: SUBSTITUTIONS
- MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PART 19: OWNERSHIP OF STRUCTURAL DESIGN
- 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.				
OCKET	MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TO FLANGE HG
	BLUELINX	14"	BLI 40	IUS2.56/14	ITS2.56/14
	BOISE CASCADE	14"	BCI 5000s	IUS2.06/14	ITS2.06/14
	BOISE CASCADE	14"	BCI 6000S	IUS2.37/14	ITS2.37/14
	LP CORP	14"	LPI 20+	IUS2.56/14	ITS2.56/14
	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
	WEYERHAEUSER	14"	EEI-20	IUS2.37/14	ITS2.73/14
	BLUELINX	14"	BLI 80	IUS3.56/14	ITS3.56/14
	LP CORP	14"	LPI 42+	IUS3.56/14	ITS3.56/14
	NORDIC	14"	NI-80	IUS3.56/14	ITS3.56/14
	ROSEBURG	14"	RFPI 80s	IUS3.56/14	ITS3.56/14
	WEYERHAEUSER	14"	TJI 360	IUS2.37/14	ITS2.37/14
	WEYERHAEUSER	14"	EEI-20	IUS3.56/14	ITS3.56/14

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.

GINEERS C-3870 Ste 100 na 27615

ENG: RJS/CMC DATE: 9-9-2019

PROJECT NO.

19-65-362

SHEET NO.

of 7