PLANS DESIGNED TO THE 2018 NORTH CAROLINA RESIDENTIAL CODE HOUSE DESIGNED FOR 115 MPH 3 SECOND GUST (89 FASTEST MILE), EXPOSURE B ANCHOR BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12" OF ALL PLATES SPLICES ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER & SHALL EXTEND A MINIMUM 7" INTO MASONRY OR CONCRETE

MEAN ROOF HEIGHT = $\frac{< 30^{\circ}}{0}$ COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS MEAN ROOF HEIGHT UP TO 30' ZONE 1 16.5, -18.0 18.0, -19.6 18.5, -20.2 ZONE 2 16.5, -21.0 17.3, -22.1 18.0, -22.9 18.5, -23.5 ZONE 3 17.3, -22.1 18.0, -22.9 18.5, -23.5 ZONE 4 18.0, -19.5 18.9, -20.5 19.6, -21.3 20.2, -21.8 18.0, -24.1 ZONE 5 19.6, -26.3 20.2, -27.0 18.9*, -*25.3

MINIMUM VALUES FOR ENERGY COMPLIANCE: ZONE 4 MAX GLAZING U-FACTOR = 0.32 CEILING R-38 WALLS R-15 FLOORS R-19

CITY OF RALEIGH PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State and Federa Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

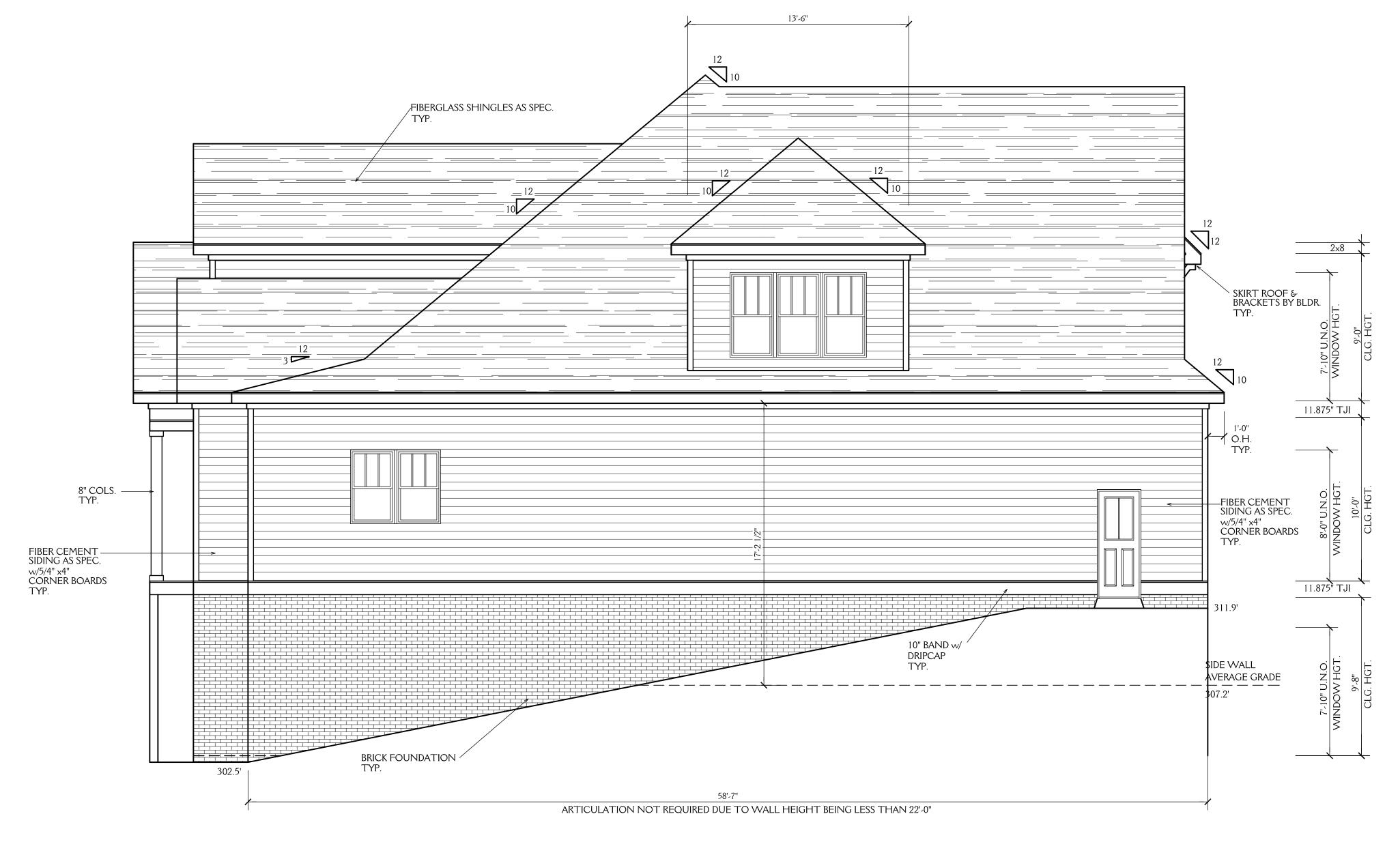
City of Raleigh Development Approval: Michelle Pearce City of Raleigh Review Officer



NEWLIGHTDESIGN1@GMAIL.COM

J&W CUSTOM HOMES LOT 62 QUAIL MEADOWS RALEIGH NC

SHEET



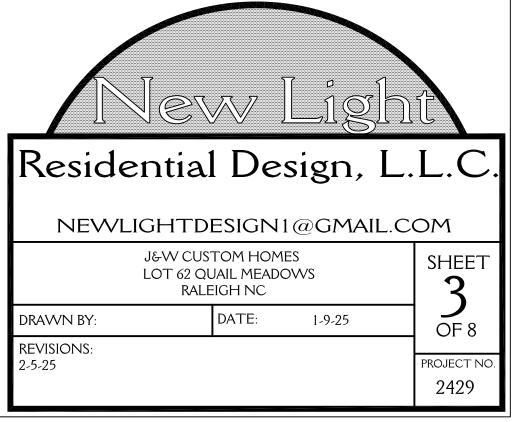
LEFT ELEVATION SCALE 1/4"=1'-0"





RIGHT ELEVATION

SCALE 1/4"=1'-0"



60'-8"

12'-0"

12'-0"

FILL SOLID

12'-0"

60'-8"

20'-0"

<u>PATIO</u>

10'-0"

PT6x6 POSTS

w/12" TRANSOM 5

SITTING

16'-4"

ROD & SHELF

PROVIDE FOOTING FOR STEPS

7'-4"

19'-8"

15'-2"

2'-8"

10'-0"

14'-8"

CRAWLSPACE

37'-0"

14'-0"

9'-4" M.O.

13'-0"

11'-4"

11'-8"

9'-4" M.O.

3'.0" M.O. ALL DIMENSIONS ARE TO BE VERIFIED BY OWNER/BUILDER
BEFORE CONSTRUCTION BEGINS. ONCE CONSTRUCTION HAS BEGUN,
DESIGNER IS RELEASED FROM ANY AND ALL LIABILITY ASSOCIATED
WITH THE CONSTRUCTION OF THIS CUSTOM RESIDENCE.
THIS PLAN IS DESIGNED UNDER THE 2018 NORTH CAROLINA
RESIDENTIAL CODE



FND VENT CALCS

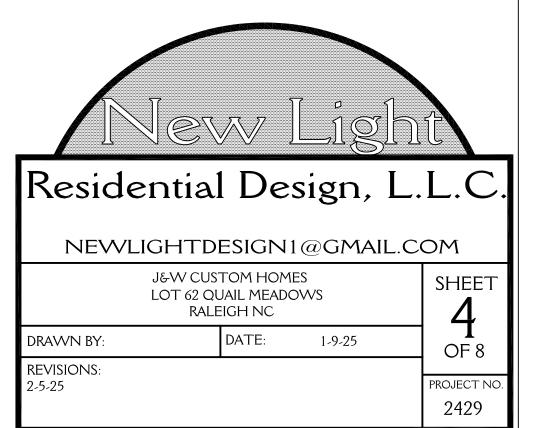
1723 SQ.FT. / 150 = 11.49 SQ.FT. REQ'D

BUILDER TO PROVIDE APPROPRIATE VENTILATION AS REQUIRED BY CODE SEE SECTION R408 OF THE 2018 NC RESIDENTIAL BLDG. CODE

BASEMENT PLAN

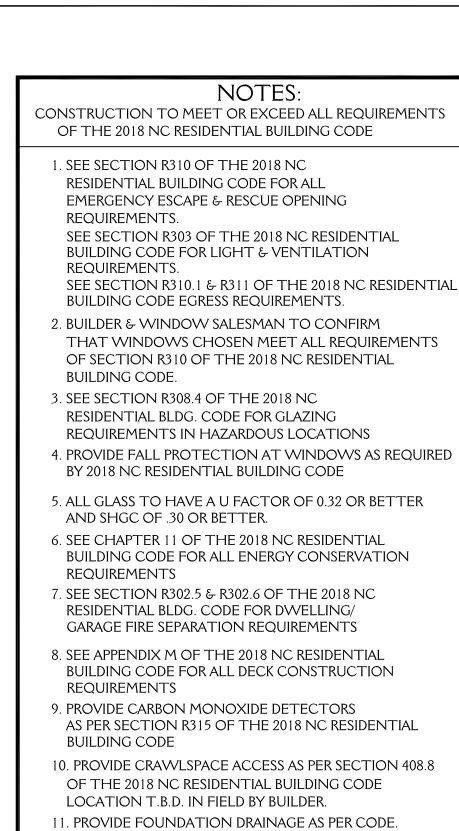
SCALE 1/4"=1'-0"

9'-8" CLG. HGT. SET WINDOWS AT 7'-10" AFF U.N.O.





ALL DIMENSIONS ARE TO BE VERIFIED BY OWNER/BUILDER BEFORE CONSTRUCTION BEGINS. ONCE CONSTRUCTION HAS BEGUN, DESIGNER IS RELEASED FROM ANY AND ALL LIABILITY ASSOCIATED WITH THE CONSTRUCTION OF THIS CUSTOM RESIDENCE. THIS PLAN IS DESIGNED UNDER THE 2018 NORTH CAROLINA RESIDENTIAL CODE



ABBREVIATIONS CANT.: CANTILEVER TYP.: TYPICAL C.O.: CASED OPENING CLG.: CEILING D.W.: DISHWASHER

SEE SECTIONS 405, 801.3 & 401.3 OF THE

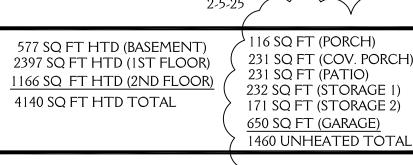
2018 NC RESIDENTIAL BUILDING CODE.

requirements.

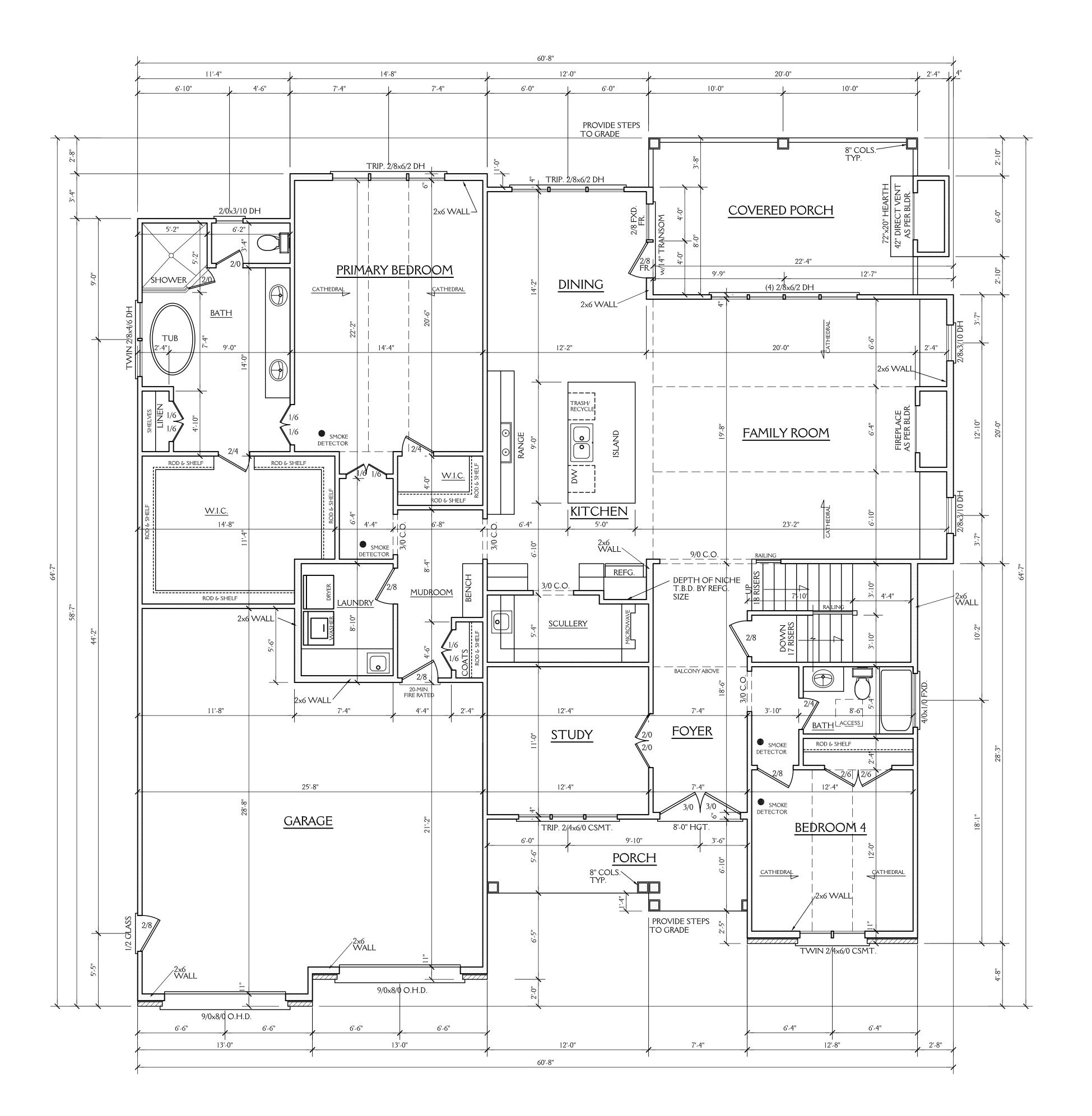
& REQUIREMENTS.

DN.: DOWN

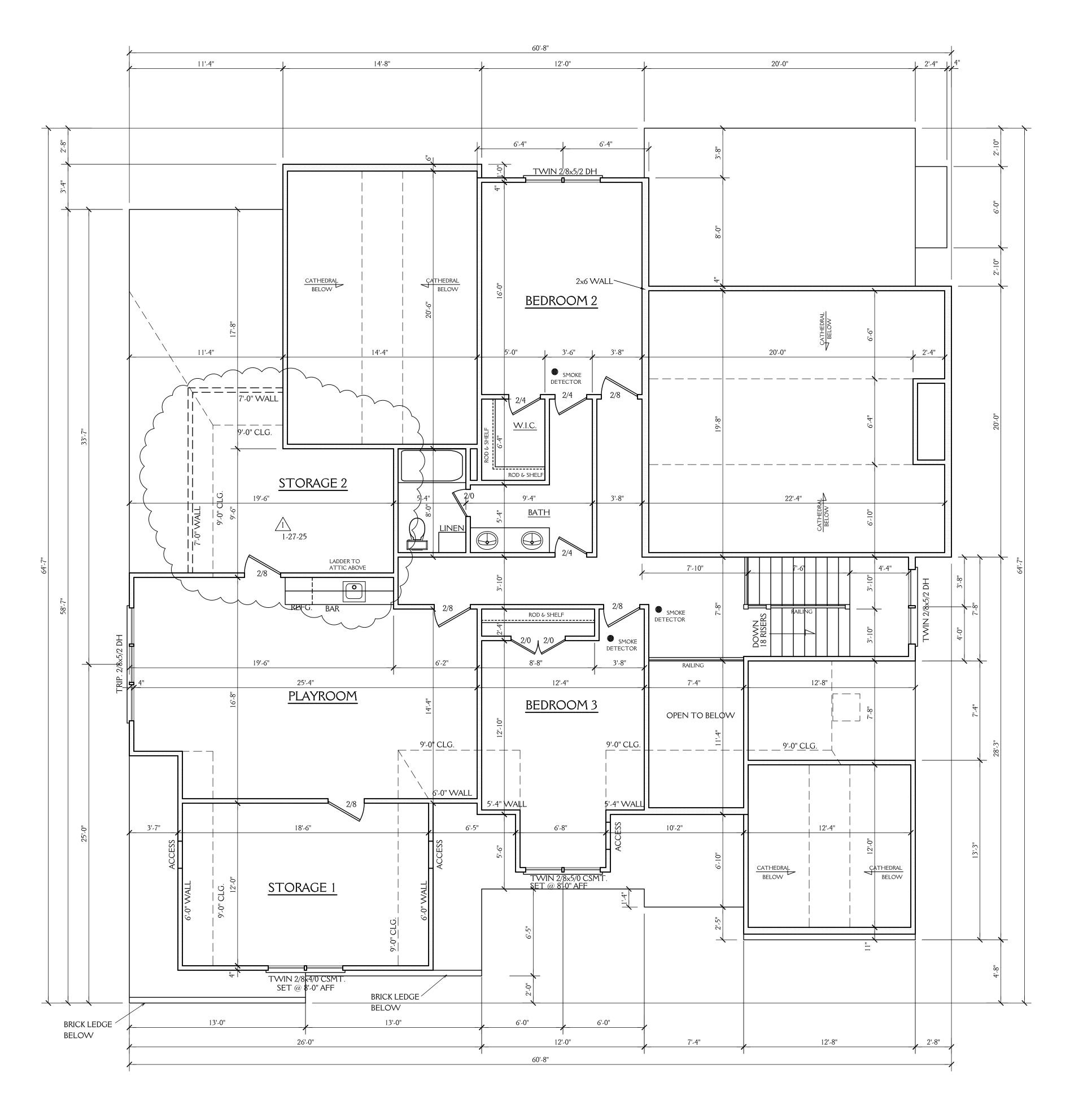
HGT.: HEIGHT W.I.C. : WALK IN CLOSET SHWR. : SHOWER COL.: COLUMN TRANS.: TRANSOM



1460 UNHEATED TOTAL FIRST FLOOR PLAN SCALE 1/4"=1'-0" 10'-0" CLG. HGT. SET WINDOWS AT 8'-0" AFF U.N.O. NOTE: ALL DOORS & CASED OPENINGS ARE 8'-0" HGT. Residential Design, L.L.C. NEWLIGHTDESIGN1@GMAIL.COM J&W CUSTOM HOMES SHEET LOT 62 QUAIL MEADOWS RALEIGH NC DATE: DRAWN BY: OF 8 REVISIONS: 2-5-25 PROJECT NO 2429 COPYRIGHT 2024 New Light Residential Design LLC



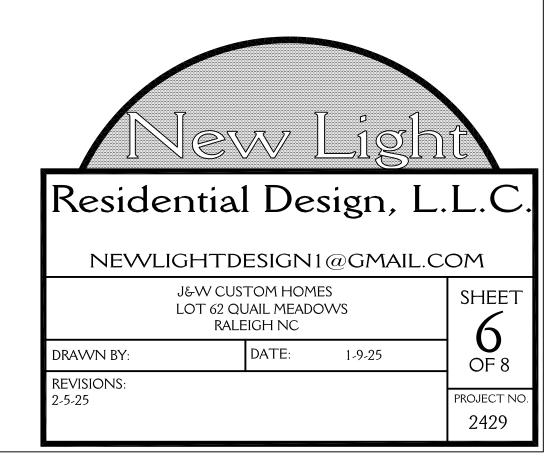
ALL DIMENSIONS ARE TO BE VERIFIED BY OWNER/BUILDER BEFORE CONSTRUCTION BEGINS. ONCE CONSTRUCTION HAS BEGUN, DESIGNER IS RELEASED FROM ANY AND ALL LIABILITY ASSOCIATED WITH THE CONSTRUCTION OF THIS CUSTOM RESIDENCE. THIS PLAN IS DESIGNED UNDER THE 2018 NORTH CAROLINA RESIDENTIAL CODE



SECOND FLOOR PLAN

SCALE 1/4"=1'-0"

9'-0" CLG. HGT. SET WINDOWS AT 7'-10" AFF U.N.O.



ALL DIMENSIONS ARE TO BE VERIFIED BY OWNER/BUILDER
BEFORE CONSTRUCTION BEGINS. ONCE CONSTRUCTION HAS BEGUN,
DESIGNER IS RELEASED FROM ANY AND ALL LIABILITY ASSOCIATED
WITH THE CONSTRUCTION OF THIS CUSTOM RESIDENCE.
THIS PLAN IS DESIGNED UNDER THE 2018 NORTH CAROLINA
RESIDENTIAL CODE

ROOF VENT CALCS

2622 SQ.FT. /150 = 17.48 SQ.FT. REQ'D

BUILDER TO PROVIDE APPROPRIATE

VENTILATION AS REQUIRED BY CODE

SEE SECTION R806 OF THE 2018 NC RESIDENTIAL BLDG. CODE

SET.PDF

Residential Design, L.L.C.

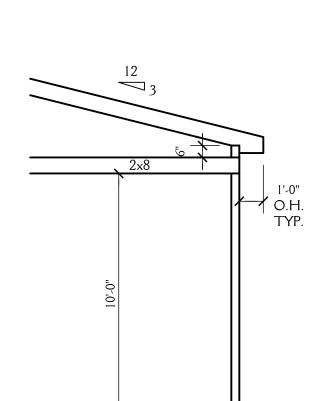
NEWLIGHTDESIGN 1 @GMAIL.COM

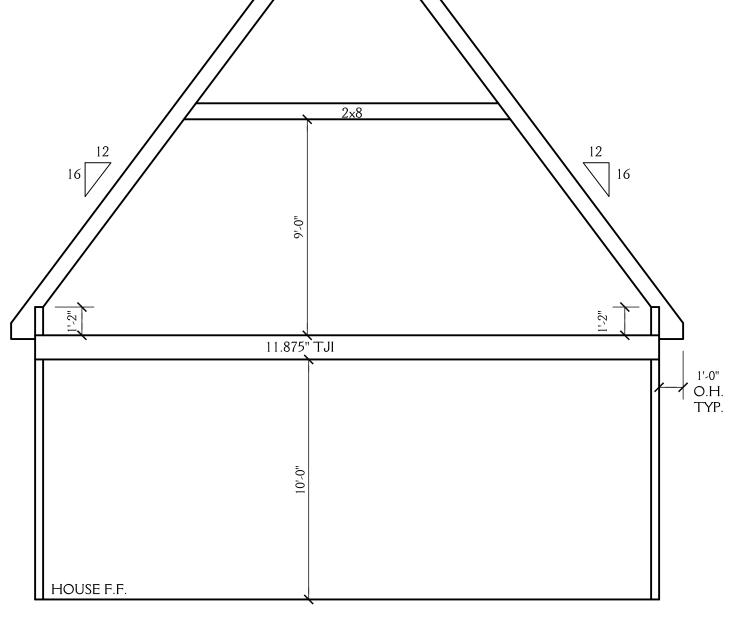
J&W CUSTOM HOMES
LOT 62 QUAIL MEADOWS
RALEIGH NC

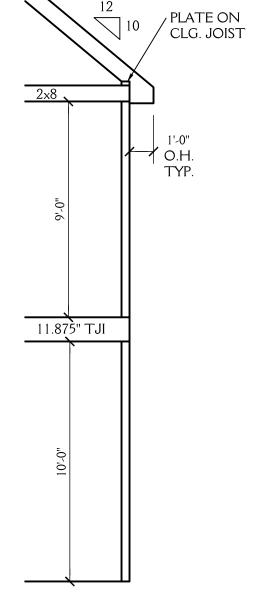
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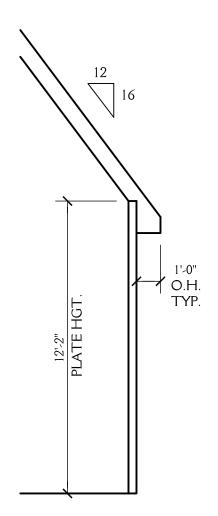
REVISIONS:
2-5-25

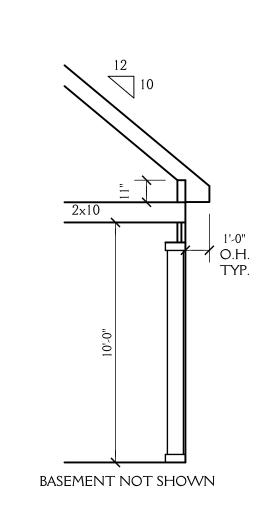
PROJECT NO.
2429

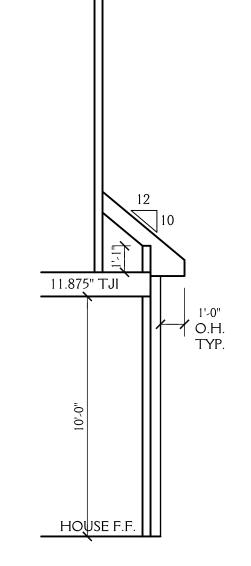


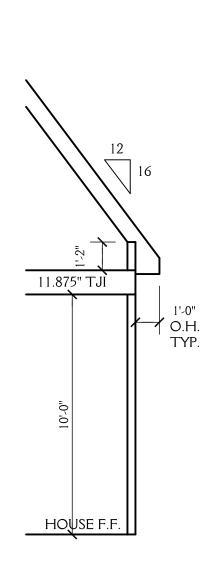


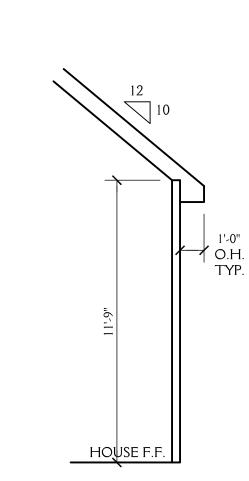




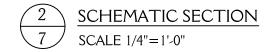




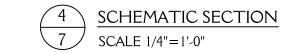




SCHEMATIC SECTION 7 SCALE 1/4"=1'-0"

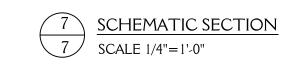


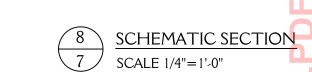


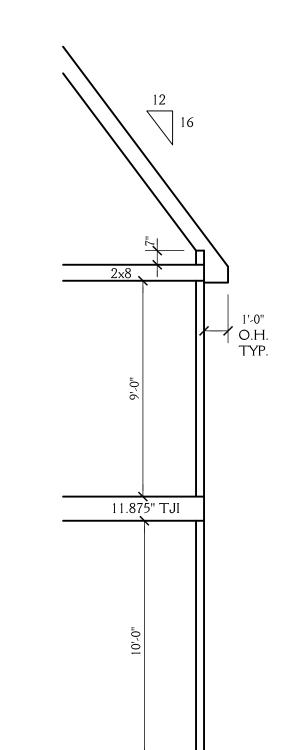


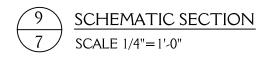
 $\frac{5}{7} \frac{\text{SCHEMATIC SECTION}}{\text{SCALE } 1/4"=1'>0"}$

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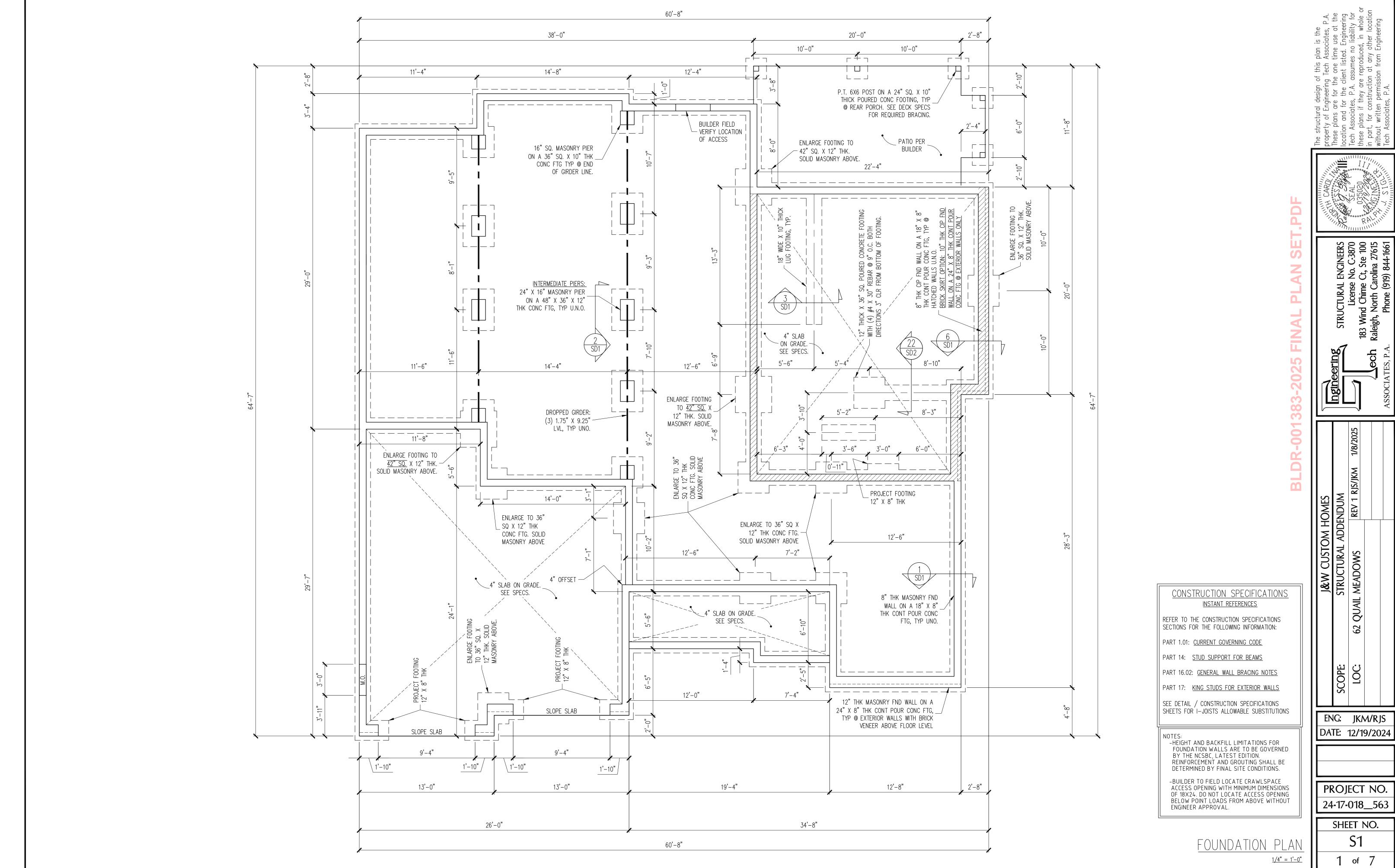


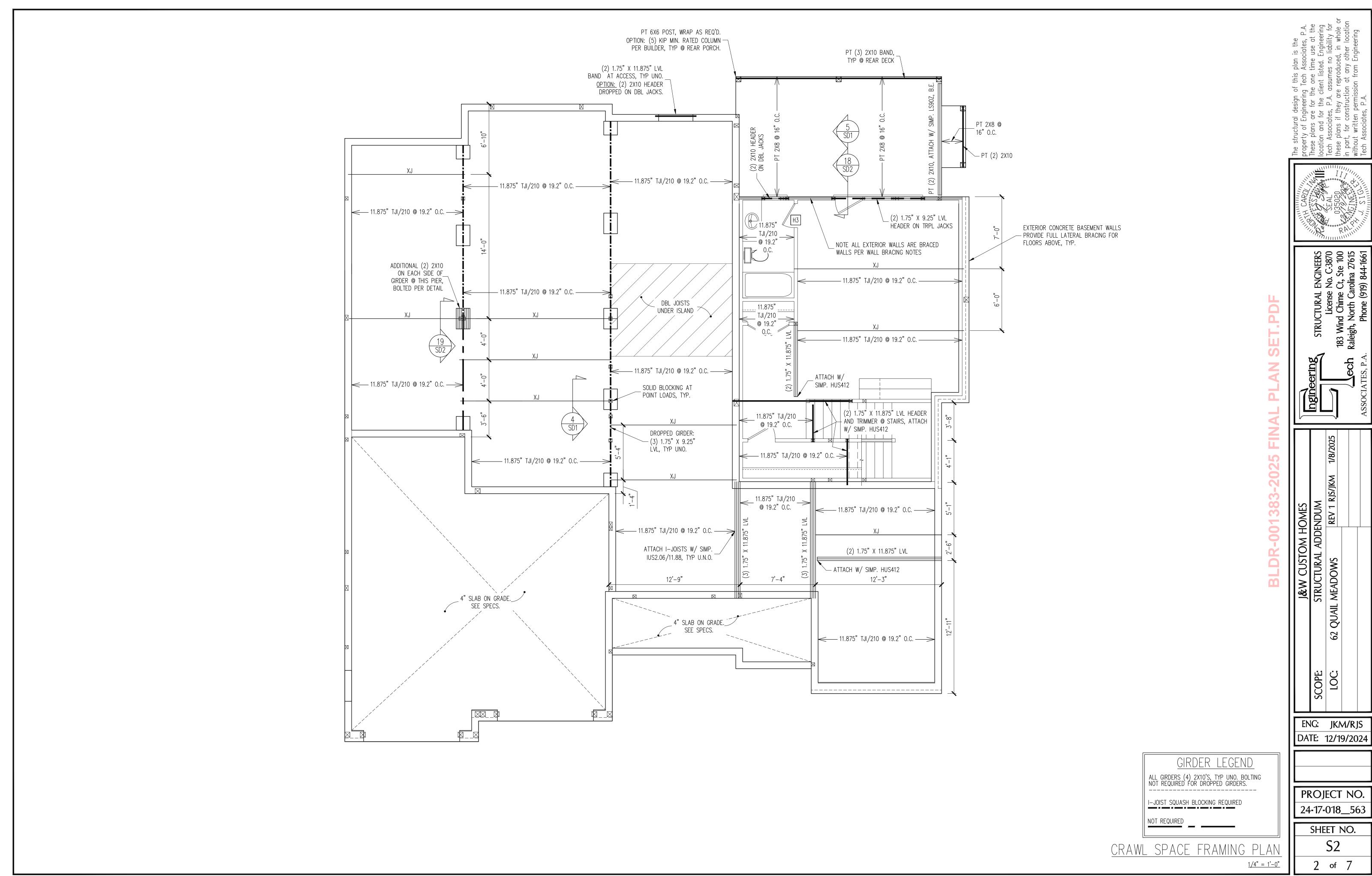


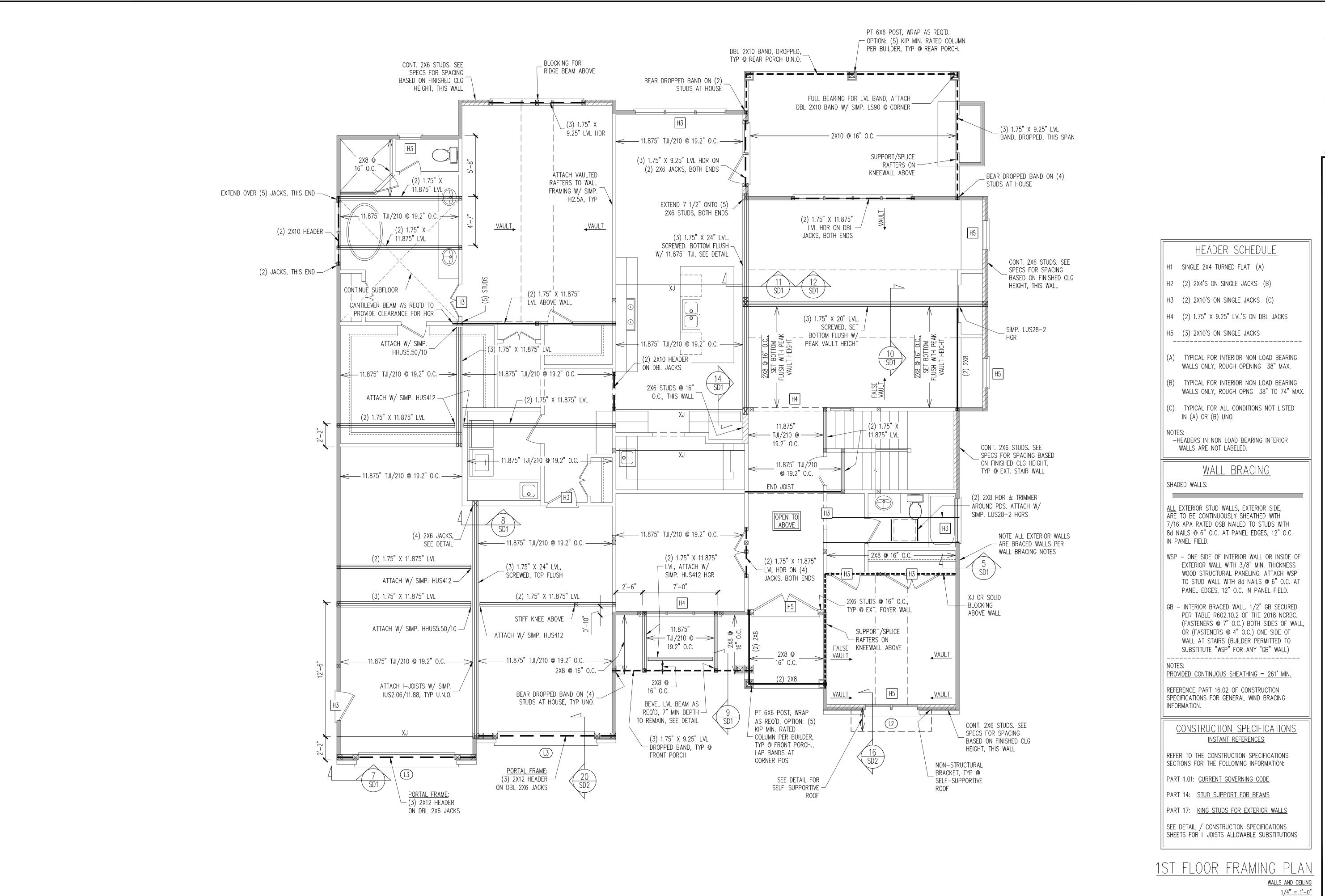




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URAL ENGINEERS cense No. C-3870 Lhime Ct, Ste 100 Lth Carolina 27615 Lhe (919) 844-1661

STRUCTURAL EN License No 183 Wind Chime Ct

Ingineering ST 183 W 183 W Raleigl

J&W CUSTOM HOMES
STRUCTURAL ADDENDUM
L MEADOWS
REV 1 RJS/JKM 1/8

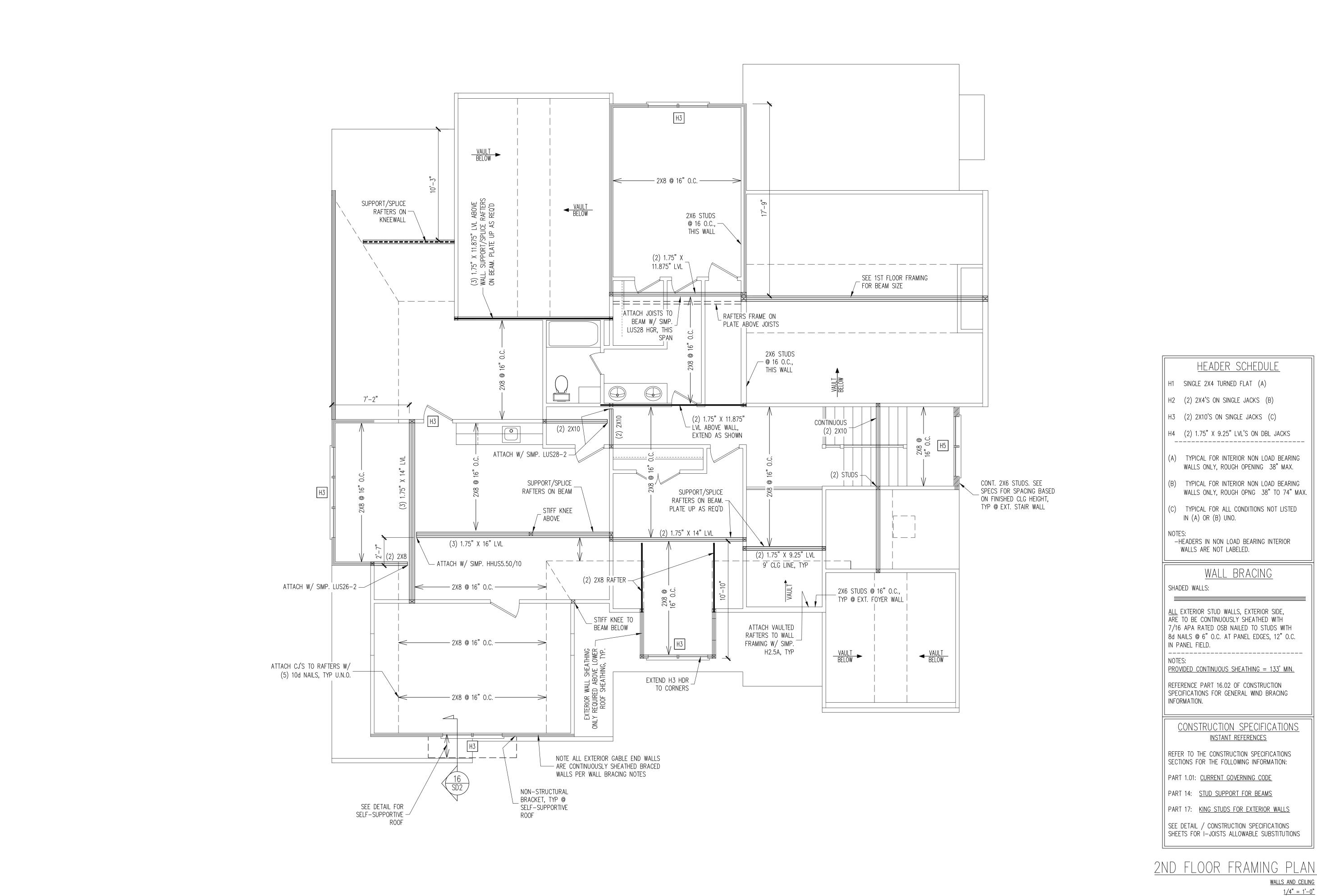
LOC: 62 QUAIL MI

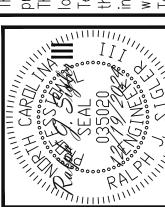
ENG: JKM/RJS DATE: 12/19/2024

PROJECT NO.

24-17-018__563 SHEET NO.

> \$3 3 of 7





J&W CUSTOM HOMES
STRUCTURAL ADDENDUM
L MEADOWS
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of 7

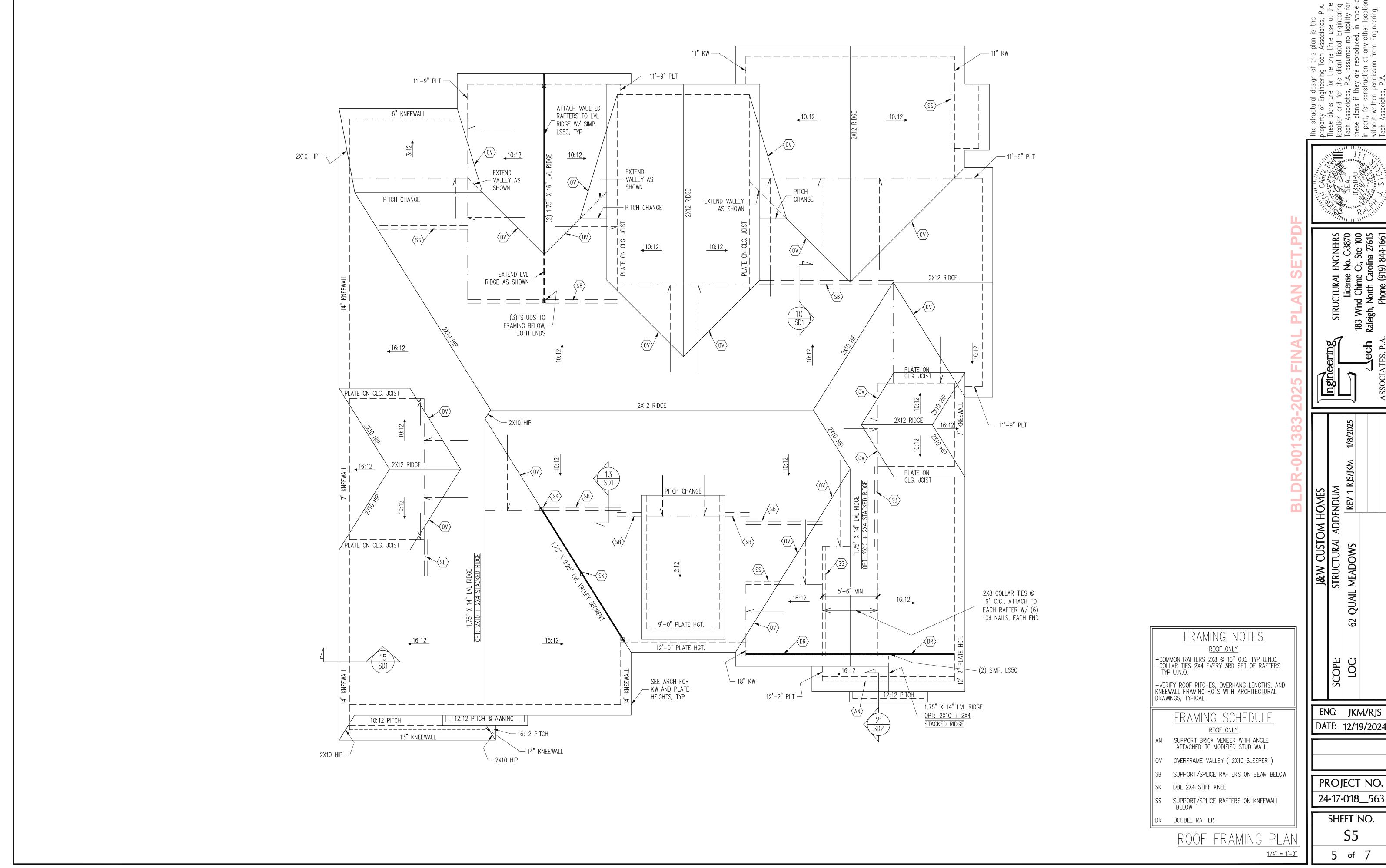
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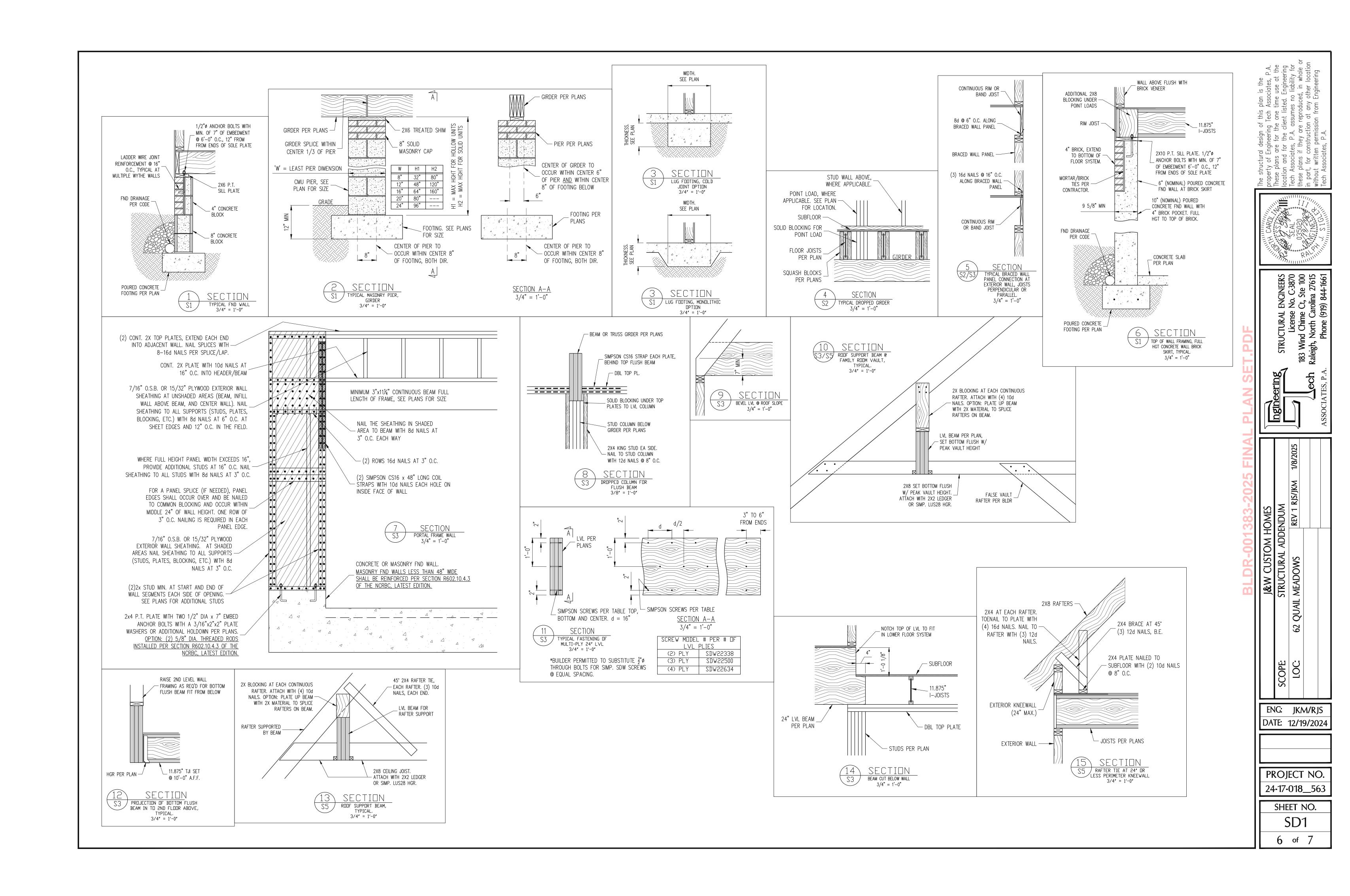
PROJECT NO.

24-17-018__563

SHEET NO.



DATE: 12/19/2024



THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR

RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS

THE FOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.

TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

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

FLR FLOOR

CONSTRUCTION SPECIFICATIONS

- <u>PART 1: GENERAL</u> 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL
- CODE, 2018 EDITION. .02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
- BOISE CASCADE 11.875" BCI 6000s IUS2.37/11.88 ITS2.37/11.88 | 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
 - 2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

DALCONICO DECICO ATTICO MITH CIVED CTAID

	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 (WITH STORAGE)	20	10
	ROOF	20	10 (15 FOR VAULT
)TEC	INDIVIDUAL CTAID TREADS ARE TO BE RESIGNED.		DULY DICTRIBUTED

- 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 THESE CONDITIONS
- 2.02 INTERIOR WALLS: 5 PSF LATERAL.
- 2.03 BASIC WIND DESIGN VELOCITY OF 115 MPH.
- 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).
- PART 3: STRUCTURAL STEEL 3.01 WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM
- 3.02 SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM
- 3.03 STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE
- 3.04 ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE 3.05 STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL
 - FOR BUILDINGS. <u>PART 4: WELDING</u>

PART 5: CONCRETE AND SLABS ON GRADE

- 4.01 WELDING ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER
- 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
- 5.02 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION. 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 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
- ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL 6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064. PART 7: MASONRY

- 7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, f'M = 1,500 PSI MIN
 - 02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW 7.03 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
 - 7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS

PART 8: BOLTS AND LAG SCREWS

FOR CONTINUOUS WALL APPLICATIONS

- LIVE LOAD (PSF) DEAD LOAD (PSF) | 8.01 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
 - LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTÁLLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR
 - 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
 - NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667-05. NAILS ARE TO BE COMMON WIRE OR BOX PART 10: DIMENSIONAL LUMBER
 - 10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR <u>OR</u> SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC. PART 11: ENGINEERED LUMBER
 - 11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: $E=1.9 \times 10E6$ PSI, $F_b=2600$ PSI, $F_v=285$ PSI, $F_c=750$ PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI
 - 02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS 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
 - 3.01 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
 - 4.01 STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS: 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 BY A MINIMUM 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 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 -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: -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

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

THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.

- PART 15: NAILING OF MULTI PLY WOOD BEAMS
- 5.01 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.
- 5.02 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 AND BRACING
- 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. MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS. WITH SOLE PLATE
 - AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2X4 / 2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO: 2X4 @ 16" O.C.: 11'-0" 2X6 @ 16" O.C.: 17'-0" 2X4 @ 12" O.C.: 12'-0" 2X6 @ 12" O.C.: 18'-8" DBL 2X4 @ 16" O.C.: 13'-4" DBL 2X6 @ 16" O.C.: 21'-0"
- 16.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY:

 -BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO. -WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF 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 1 R602.3.5 AND R802.11 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. NAIL BLOCKING ABOVE WALL TO TOP PLATE

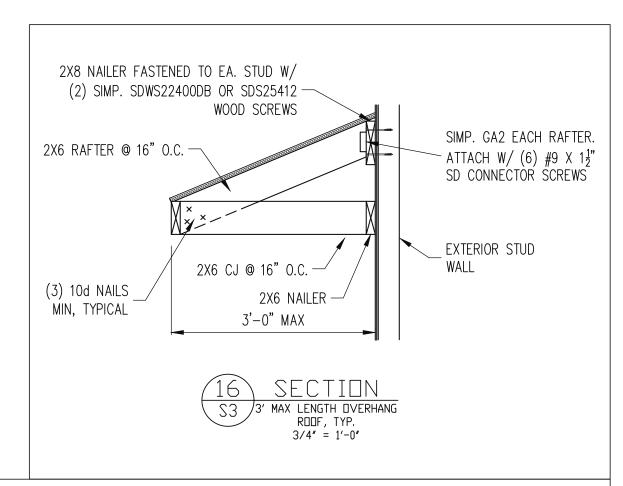
WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING

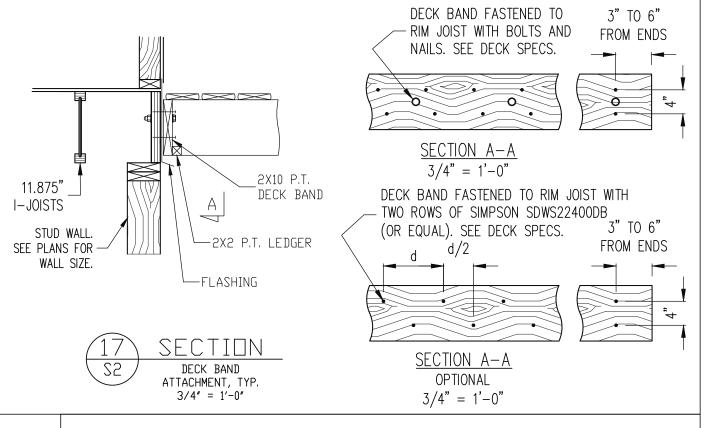
BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED

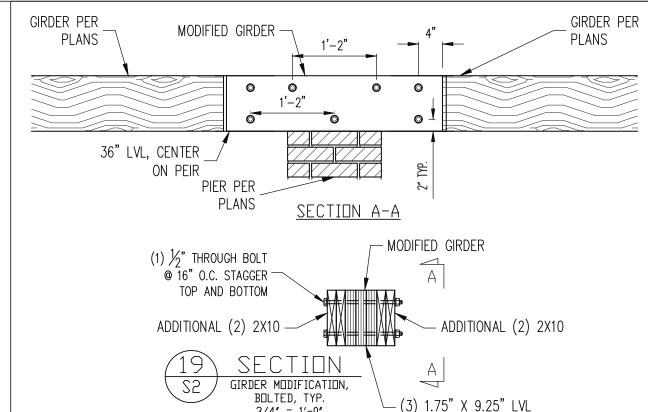
- WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.
- NUMBER OF KING STUDS MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"

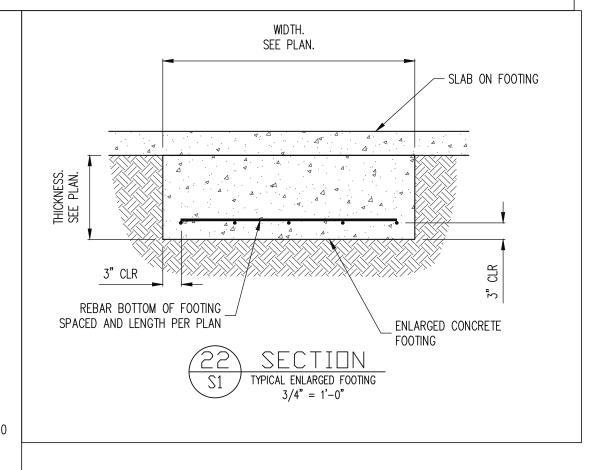
7.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

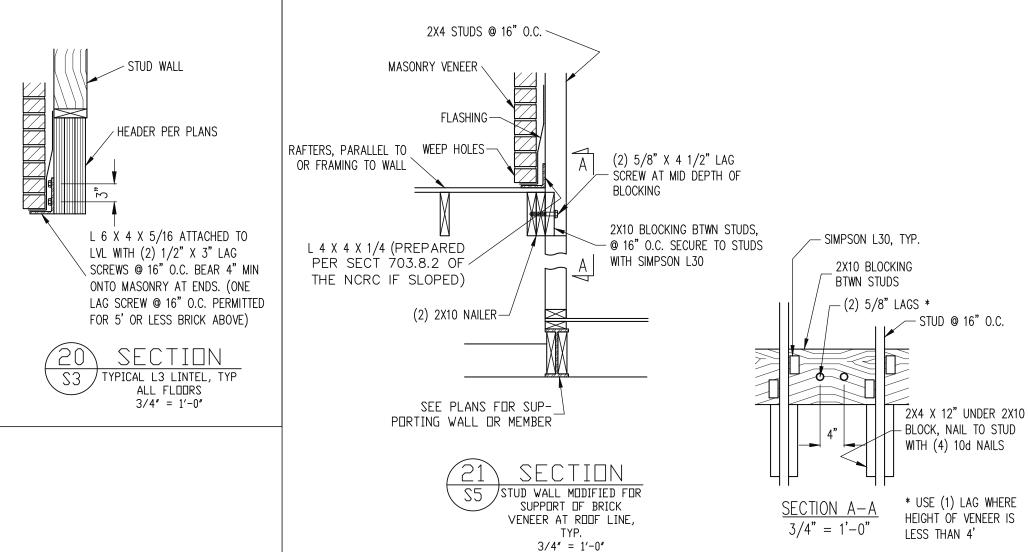
- 18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PART 19: OWNERSHIP OF STRUCTURAL DESIGN
- 19.01 THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING 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

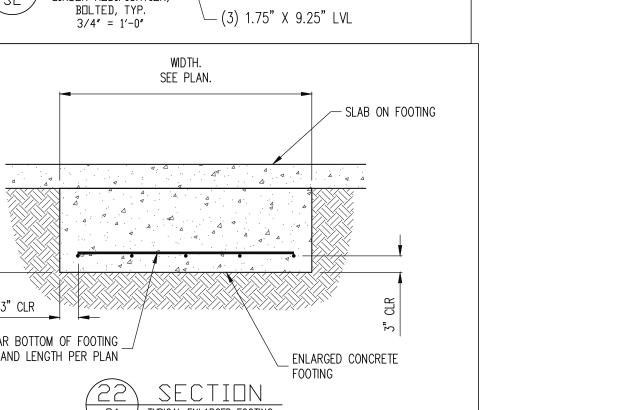












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