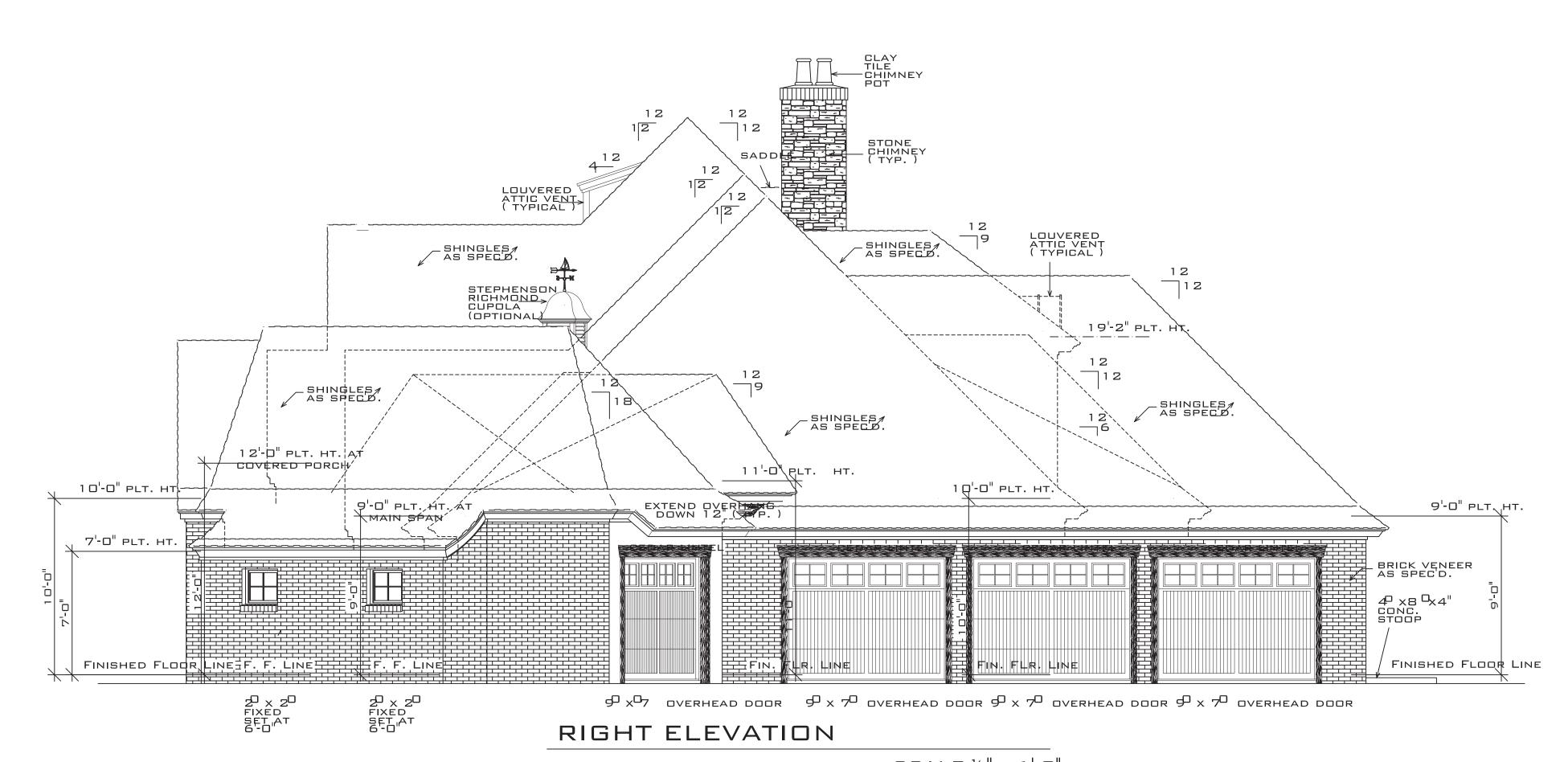


## LEFT ELEVATION

SCALE:1/4"= 1'-0"



SCALE:1/4"= 1'-0"

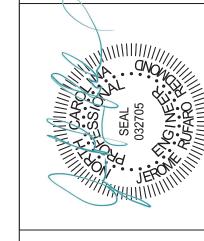


CONSULTING ENGINEER

BZ09A MARKET STREET STE. ZZZ

WILMINGTON, NC 28411

910.915.6529



# FINOL NEW RESIDENCE HARNETT COUNTY, NC

DRAWING TITLE ELEVATIONS

DRAWN B	Y:	JRR
CHECKED	BY:	JRR
SCALE:	AS	SHOW

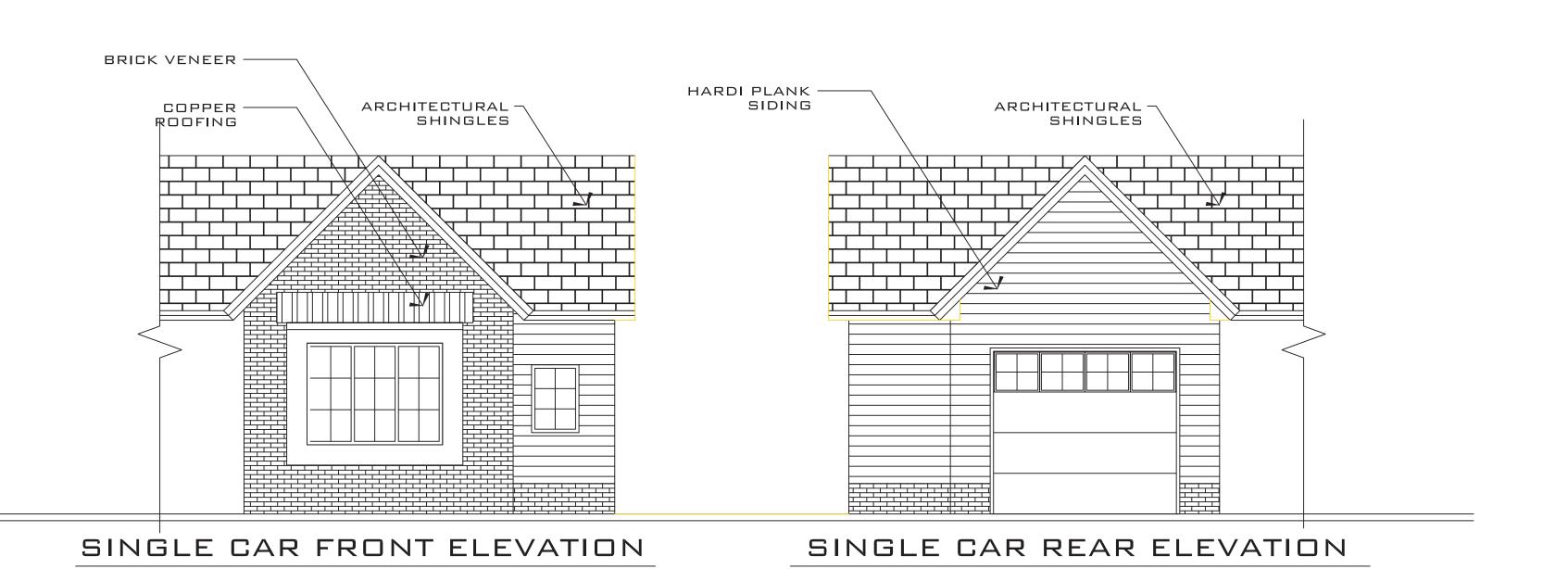
MARK	DATE	REVISION	SCALE:	AS SHOWN
IWARK	DATE	REVISION	DATE:	12.05.21
			PROJECT	SHEET
			IN021412	B2

DRAWING TITLE ELEVATIONS DETACHED GARAGE

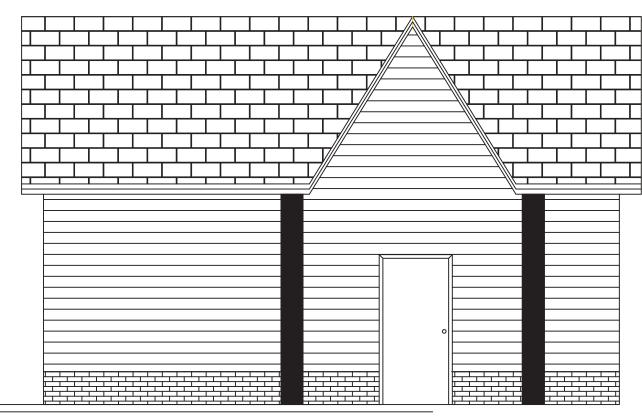
CHECKED BY: JRR SCALE: AS SHOWN DATE: 12.05.21

DRAWN BY:

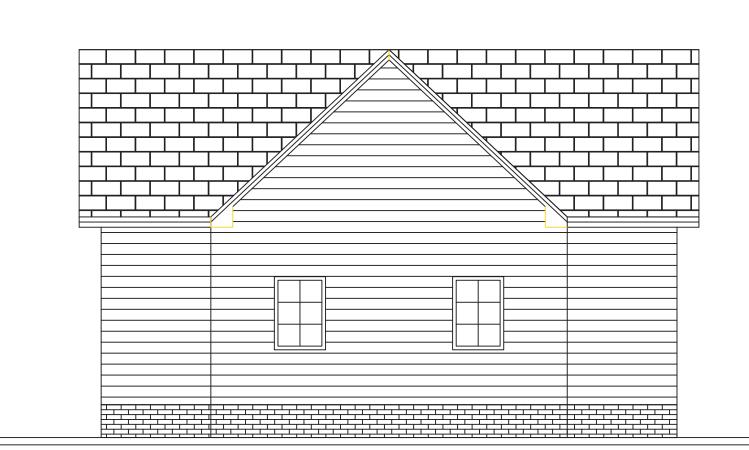
MARK DATE PROJECT SHEET **B**3 IN021412



SCALE:1/4"= 1'-0"



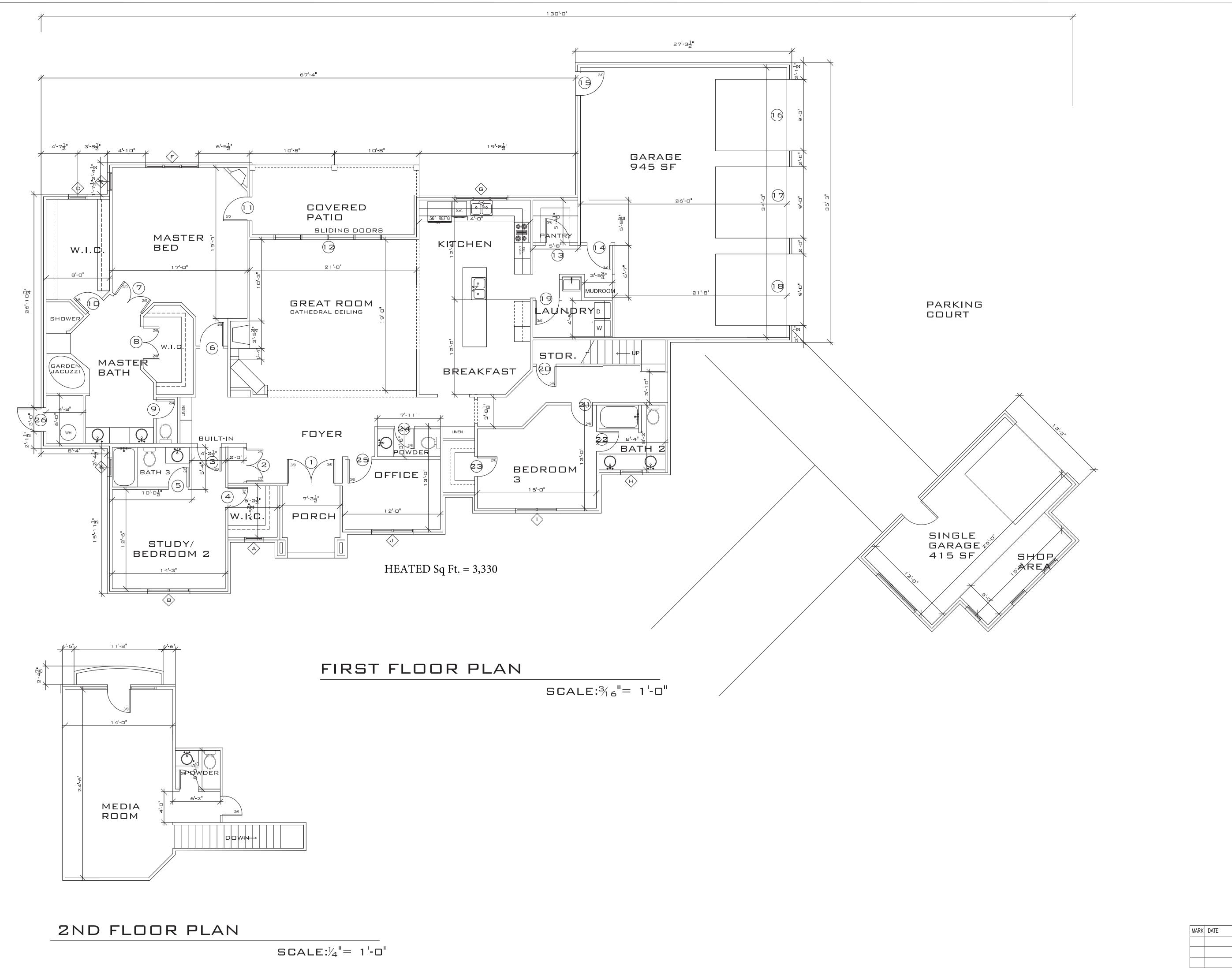
SINGLE CAR LEFT ELEVATION SCALE:1/4"= 1'-0"



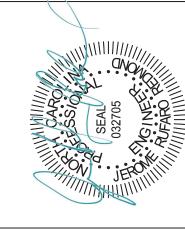
SINGLE CAR RIGHT ELEVATION

SCALE:1/4"= 1'-0"

SCALE:1/4"= 1'-0"





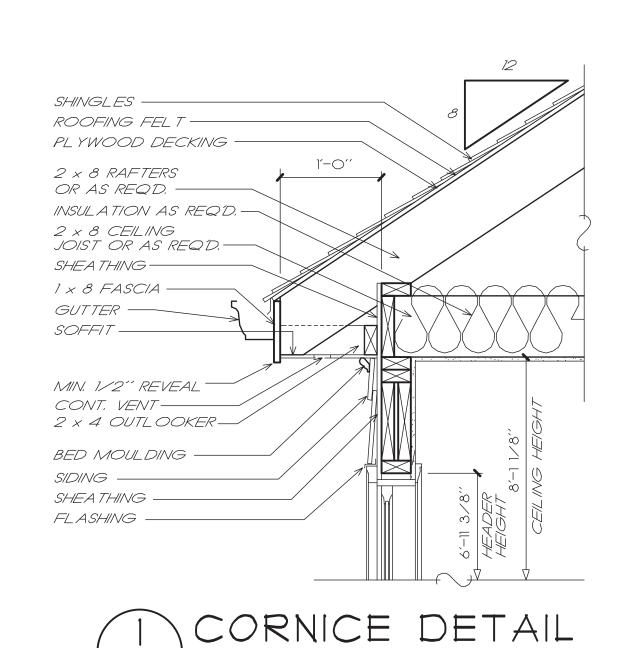


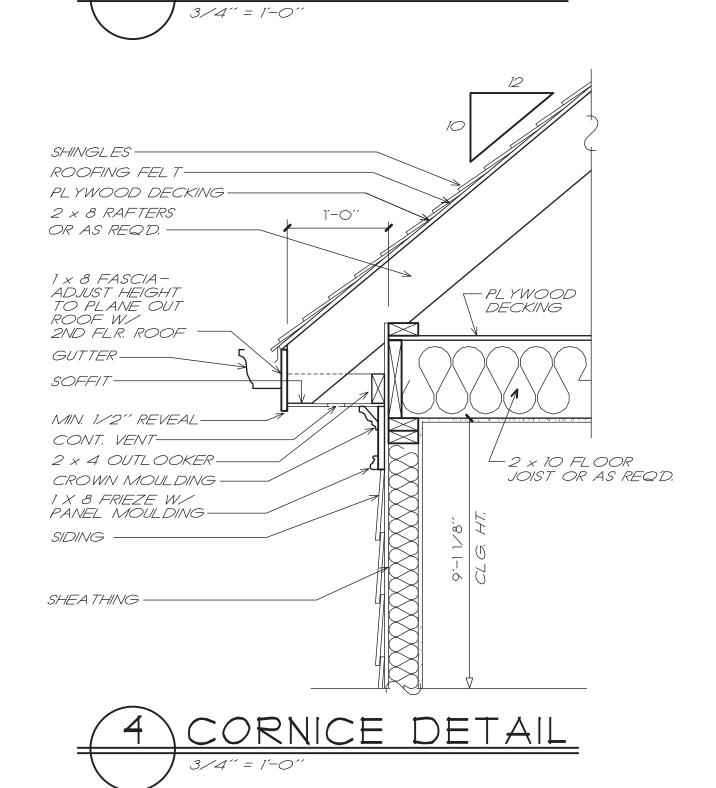
FINOL NEW RESIDENCE HARNETT COUNTY, NC

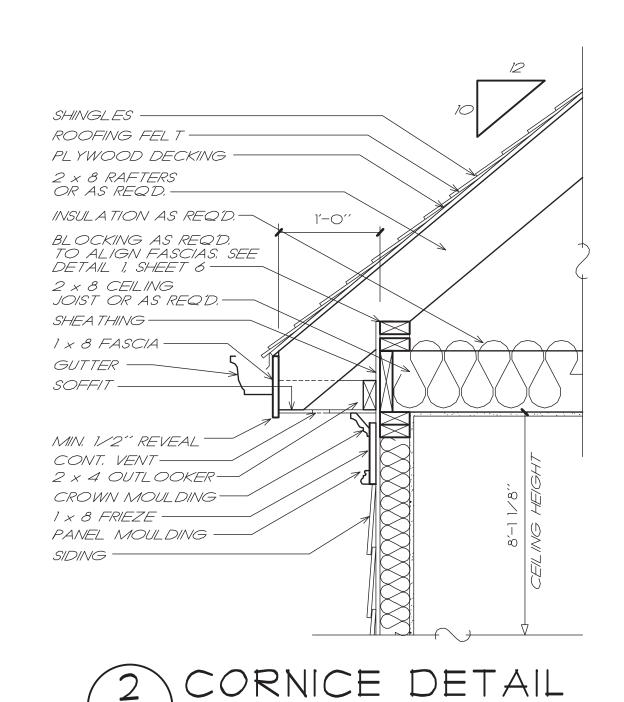
DRAWING TITLE FLOOR PLANS

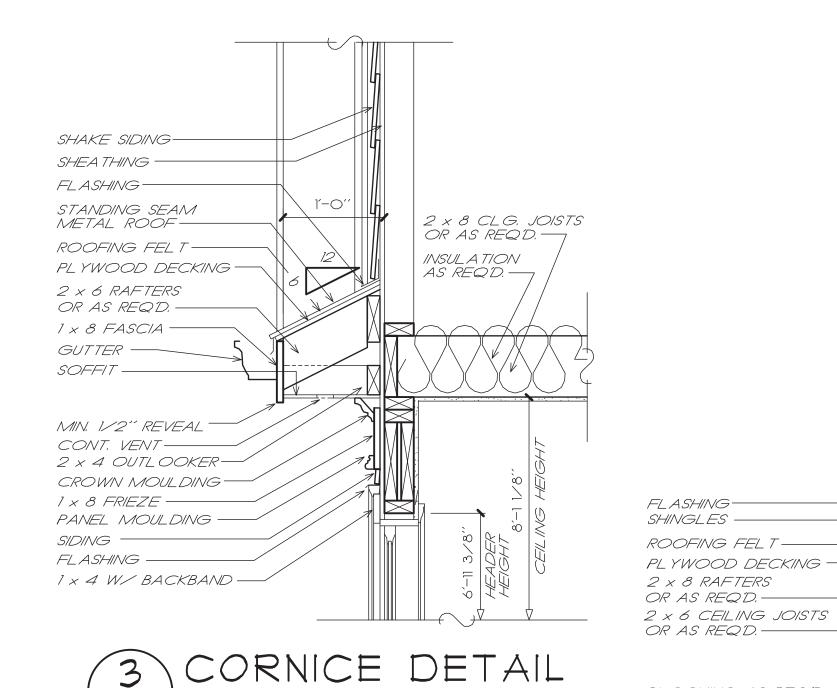
DRAWN BY: CHECKED BY: JRR SCALE: AS SHOWN 12.05.21

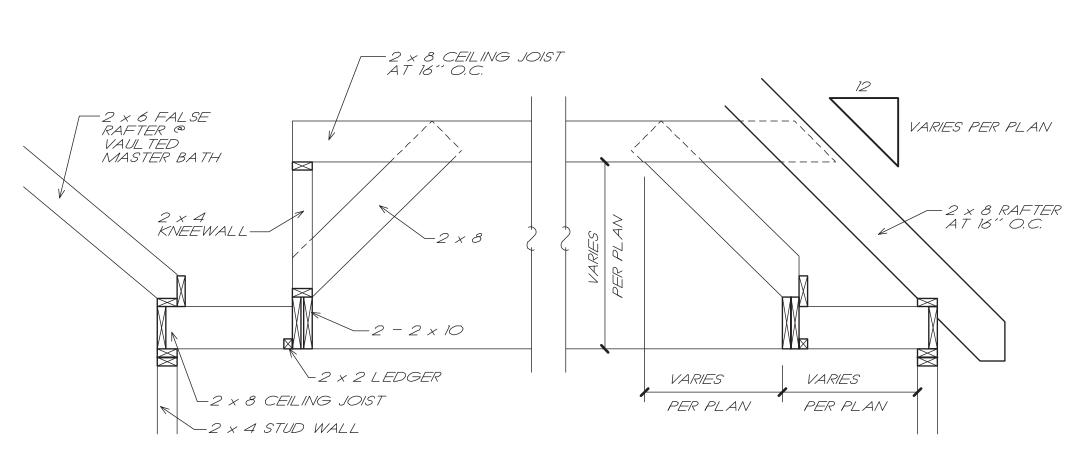
DATE: PROJECT SHEET B4







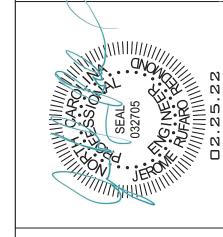








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LMINGTON, N
910.915.

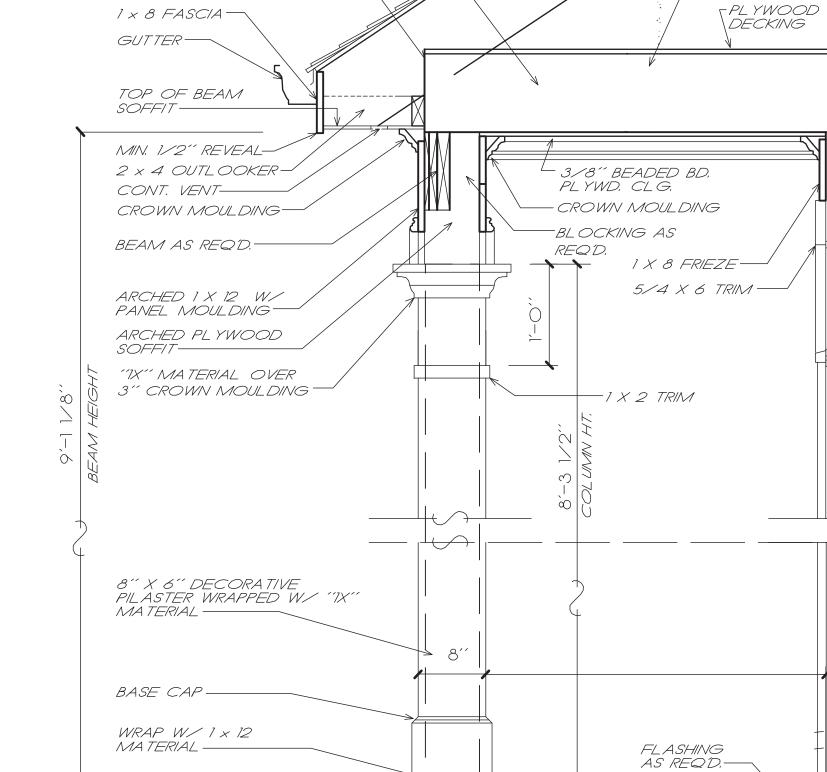


DRAWING TITLE BUILDING DETAILS

DRAWN BY:

CHECKED BY: JRR SCALE: AS SHOWN REVISION DATE: 12.05.21 PROJECT SHEET B5

MARK DATE



BLOCKING AS REQ'D.

METAL COLUMN BASE-

B5 SCALE: NTS

B PORCH DETAIL

STONE ROWLOCK COURSE —

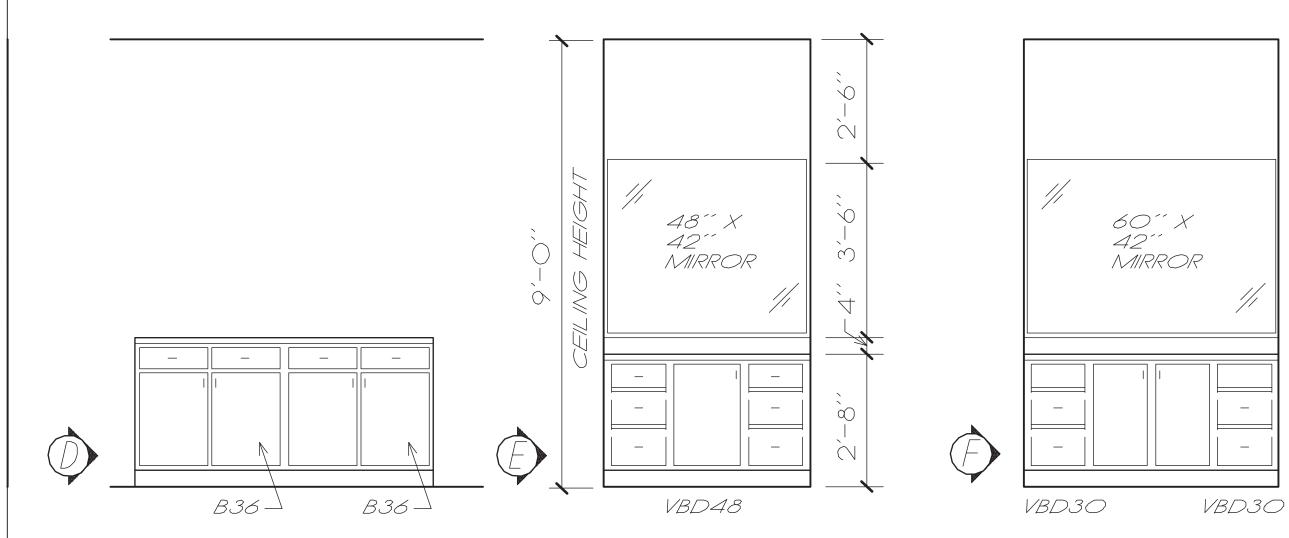
1 x 8 FASCIA-





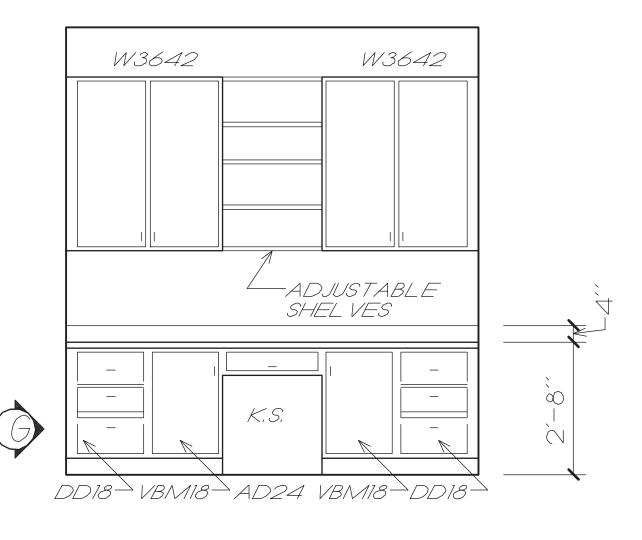
# KITCHEN ELEVATIONS

## SCALE:NTS



BATH ELEVATIONS

SCALE:NTS



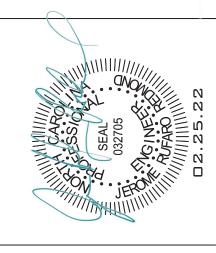
DESK ELEVATIONS

SCALE:NTS

	D	OOR SCHEDL	JLE	
DOOR	SIZE	DOOR MATERIAL	JAMB MATERIAL	REMARKS
1	(2) 3/0 x 8/0 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	EXTERIOR
2	(2) 2/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
3	3/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
4	2/6 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
5	2/6 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
6	3/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
7	(2) 2/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
8	(2) 2/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
9	2/4 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
0	2/6 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
11	3/0 x 8/0 x 1-3/8	SGL FRENCH DOOR	WOOD, 2-1/4" PTD. CASING	EXTERIOR
12	(4) 3/0 x 6/8 x 1-3/8	SLIDING GLASS DOOR UNIT	WOOD, 2-1/4" PTD. CASING	EXTERIOR
13	3/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
14	3/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	FIRE DOOR
19	3/0 x 6/8 x 1-3/8	FIBERGLASS, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	EXTERIOR
19	9/0 x 9/0 x 1-3/8	GARAGE DOOR		130 MPH RA
17	9/0 x 9/0 x 1-3/8	GARAGE DOOR		130 MPH RA
13	9/0 x 9/0 x 1-3/8	GARAGE DOOR		130 MPH RA
19	3/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
20	2/6 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
21	2/8 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
23	2/6 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
23	2/6 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
24	2/6 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
29	3/0 x 6/8 x 1-3/8	SC, MASONITE, 6-RAISED PANEL	WOOD, 2-1/4" PTD. CASING	
<b>(29</b>	3/0 x 6/8 x 1-3/8	HM FLUSH DOOR WITH LOUVER	WOOD, 2-1/4" PTD. CASING	EXTERIOR

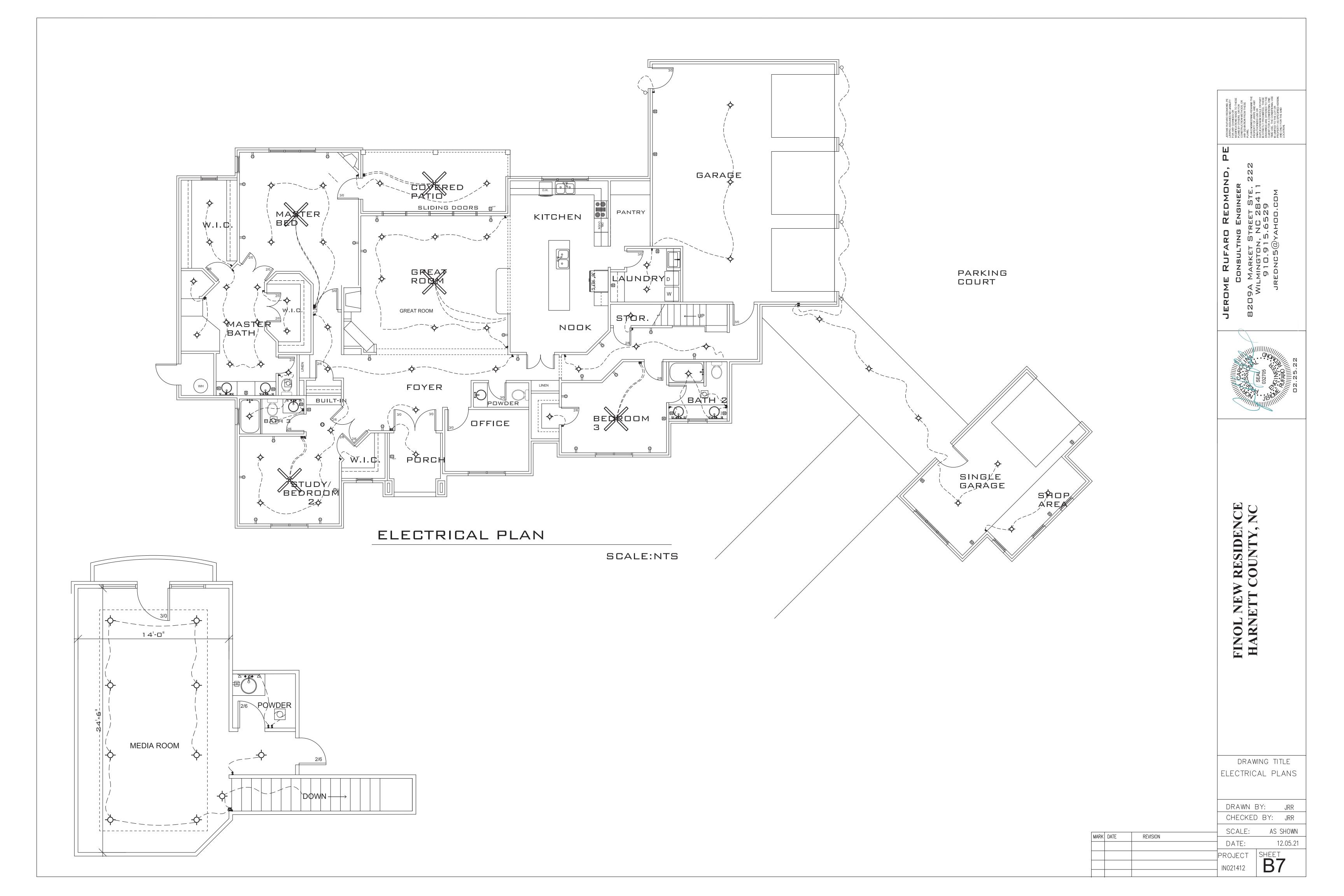
	WINDOW SCHEDULE				
SYM	SIZE	TYPE	GLASS	FRAME	REMARKS
$\langle A \rangle$	2/0 x 3/0	CSMT	1/4" CLEAR	VINYL	
B	5/0 x 5/0	CSMT	1/4" CLEAR	VINYL	2) 2/6X5/0 MULLED W/ TRANSOME
6	2/0 x 3/0	CSMT	1/4" CLEAR	VINYL	
<b>(b)</b>	2/0 x 3/0	CSMT	1/4" CLEAR	VINYL	
E	2/0 x 3/0	CSMT	1/4" CLEAR	VINYL	
F	6/0 x 5/0	CSMT	1/4" GLEAR	VINYL	3) 2/0X5/0 MULLED
G	6/0 x 5/0	CSMT	1/4" CLEAR	VINYL	3) 2/0X5/0 MULLED
$\overline{\Box}$	2/0 x 3/0	CSMT	1/4" GLEAR	VINYL	
<b>(</b> )	5/0 x 5/0	CSMT	1/4" GLEAR	VINYL	2) 2/6X5/0 MULLED
4	5/0 x 5/0	CSMT	1/4" CLEAR	VINYL	2) 2/6X5/0 MULLED





DRAWING TITLE INT. ELEVATIONS DOOR.WINDOW SCHEDULES DRAWN BY: JRR

CHECKED	BY:	JRR
SCALE:	AS	SHOWN
DATE:		12.05.21
l I		



CONTRACTOR TO OBTAIN ALL MISC. UTILITIES AND UTILITY CLEARANCES AND EXCAVATION PERMITS.

CODE: DESIGN AND CONSTRUCTION TO BE IN ACCORD WITH THE 2018 NC RESIDENTIAL CODE (NCRC) AND THE PARTICULAR CODES AS REFERENCED IN NCRC.

## DESIGN CRITERIA:

FLOOR LIVE: 40 PSF 20 PSF ROOF LIVE: ATTIC LIVE: 20 PSF CEILING LIVE: 10 PSF WIND SPEED: 120 MPH THERMAL ZONE: 4A WINDOWS: DP30/U-.35 ATTIC INSULATION R-38 R-21 FLOOR INSULATION WALL INSULATION R-15/R-19

### FOUNDATION:

MATERIAL SATISFACTORY FOR CONTROLLED FILL AND BACKFILL MATERIAL AROUND AND ABOVE FOOTINGS SHALL INCLUDE CLEAN SOIL OR BANKRUN SAND AND GRAVEL (GW, GC, SC, SM, ML & CL), BUT EXCLUDE HIGHLY PLASTIC CLAYS (MH & CH) OR HIGH SHRINK SWELL SOILS. THE FILL MATERIALS SHALL BE FREE FROM TOPSOIL, ORGANIC CONTAMINATED SOIL AND ROCK FRAGMENTS HAVING A MAJOR DIMENSION GREATER THAN FOUR (4) INCHES, AND SHALL CONTAIN NO ICE OR SNOW.

FOOTINGS ARE DESIGNED FOR AN ASSUMED SOIL BEARING PRESSURE OF 2000 PSF.

CARE SHOULD BE TAKEN TO ASSURE THAT DURING PLACING OF CONCRETE FOOTINGS ON GRADE NO ORGANIC MATTER, SALTS, OR CLAYS ARE MIXED WITH THE CONCRETE.

STRUCTURAL STEEL: ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (A.I.S.C.) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", AND THE AISC CODE OF STANDARD PRACTICE.

STRUCTURAL STEEL, TO BE OF DOMESTIC DRIGIN, AND CONFORM TO:

WIDE FLANGE & TEE SECTIONS: ASTM A992 PLATES, ANGLES, & CHANNELS: ASTM A36 ANCHOR BOLTS: ASTM A307.

WELDING ELECTRODE: 70EXX

CONCRETE: REINFORCED CONCRETE TO HAVE THE FOLLOWING COMPRESSIVE STRENGTH (F<sup>'</sup>C)

SLAB ON GRADE: 3000 PSI 3000 PSI FOOTINGS:

EXPOSED CONCRETE SHALL BE AIR-ENTRAINED.

GROUT FOR BASE PLATES SHALL BE NON-SHRINKABLE GROUT AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5,000 P.S.I.

REINFORCING STEEL: ASTM A615 GRADE 60.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A- 185.

REINFORCING STEEL MARKED CONTINUOUS (CONT.) SHALL BE LAPPED 48 X BAR DIAMETER AT SPLICES. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN PLACE TO PREVENT DISLOCATION DURING THE POURING OPERATION.

SLAB REINFORCING BARS SHALL BE SUPPORTED ON HIGH CHAIRS AND BAR SPACERS OF SUITABLE DESIGN. "HOOKING" OF WELDED WIRE FABRIC SHALL NOT BE PERMITTED.

DETAILING OF ALL CONCRETE STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (A.C.I. 315-89).

NO CONCRETE SHALL BE PLACED UNTIL ALL EMBEDDED WORK HAS BEEN INSTALLED, TESTED AND INSPECTED.

EXCEPT AS OTHERWISE SHOWN, MINIMUM PROTECTION (CONCRETE COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

CONCRETE SURFACES EXPOSED TO SOIL: 1 1/2" FOR SLABS 3" FOR FOOTINGS

INTERIOR CONCRETE SURFACES: 3/4" FOR SLABS

CONCRETE SURFACES EXPOSED TO WEATHER: 1 1/2" FOR SLABS

WOOD: ALL EXPOSED WOOD TO BE PRESSURE TREATED SOUTHERN YELLOW PINE (SYP) NO. 2 OR HIGHER. PRESERVATIVE PRESSURE TREATMENT TO BE IN ACCORDANCE WITH AWPA STANDARD M4-06 & U1-07. MINIMUM PRESERVATION TREATMENTS:

PILES: UC4C ALL OTHER WOOD MEMBERS: UC4B

ROOF SHEATHING C-D GRADE "APA" EXTERIOR STRUCTURAL PANELS OR APPROVED EQUAL. PLACE WITH LONG DIMENSION PERPENDICULAR TO FRAMING. STAGGER END JOINTS. FASTEN WITH 8D HOT-DIPPED GALVANIZED BOX NAILS AT 6" O.C. AT ALL SUPPORTED EDGES, EXCEPT WITHIN THE FIRST 4' FROM ROOF EDGE. FASTENERS WITHIN THE FIRST 4' SHALL BE AT 4" D.C.

PLYWOOD SUBFLOOR SHALL BE  $\frac{3}{4}$ " T. & G. PLYWOOD WITH #8 SCREWS AT 6" O.C. AT ALL SUPPORTED PERIMETER EDGES & INTERIOR SUPPORTS.

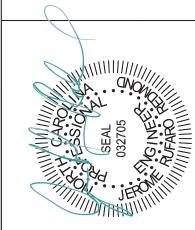
ALL MULTI-PLY LAMINATED VENEER LUMBER (LVL) HEADERS LINTELS & STUD COLUMNS SHALL BE CONNECTED SUCH THAT THEY ACT AS A SINGLE MEMBER.

LVL SPECS: FB=2900 PSI FV=285 PSIE=2,100,000 PSI

PILINGS: ALL PILES TO BE DRIVEN TO MINIMUM OF 10' AT 10,000 LB CAPACITY WITH FACTOR OF SAFETY OF 2.0. PILING INSTALLER SHALL EMPLOY ALL APPROPRIATE DRIVING APPARATUS AND SHALL RECORD AND VERIFY ALL PILING CAPACITIES.

TIMBER TRUSS 1. TRUSS FABRICATOR TO VERIFY FIELD DIMENSIONS WITH GENERAL CONTRACTOR. 2. TRUSS SUPPLIER SHALL SUBMIT SHOP DRAWINGS WITH NORTH CAROLINA REGISTERED ENGINEER SEAL BEFORE FABRICATION. 4. ALL MEMBERS TO BE SYP NO. 2 OR HIGHER



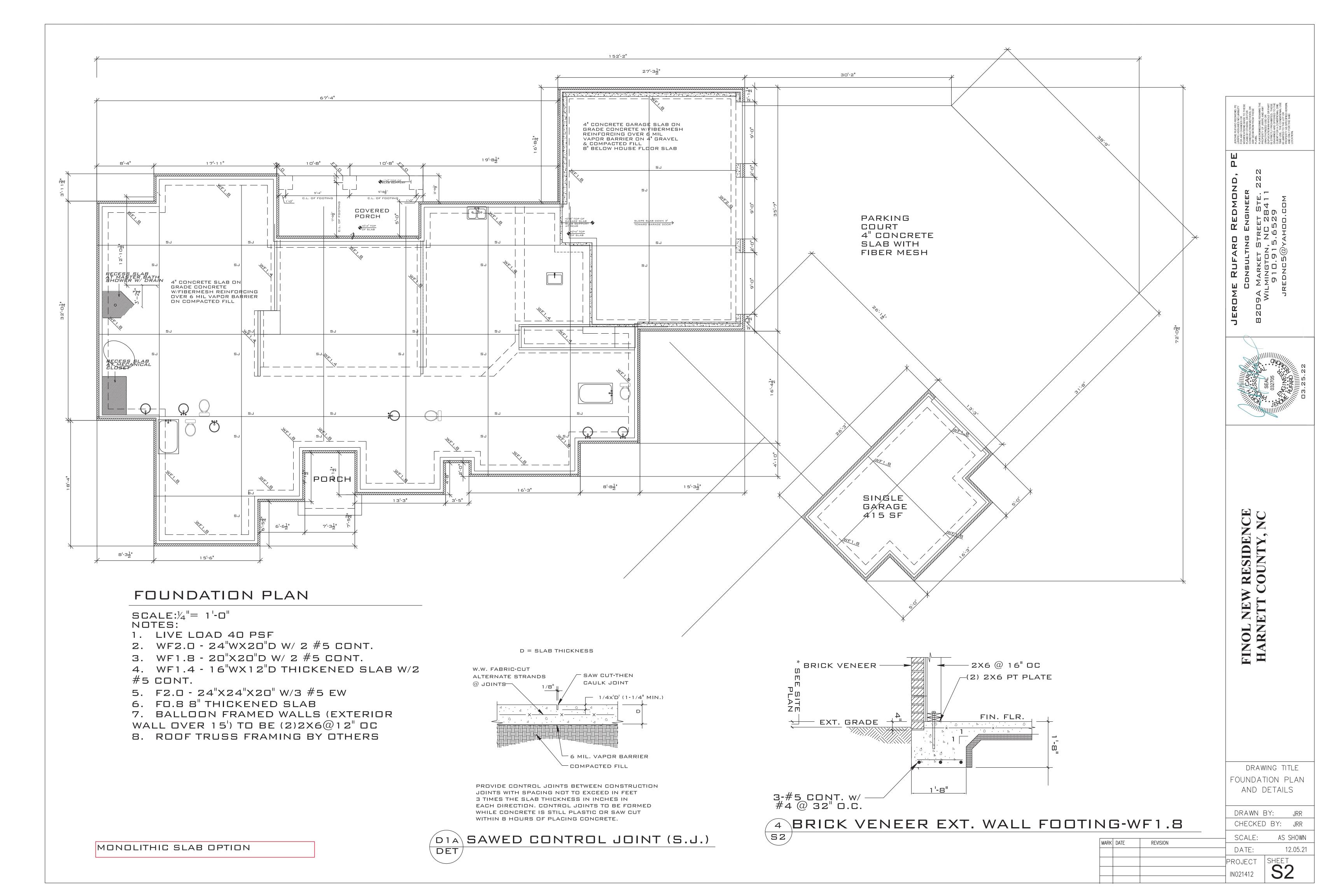


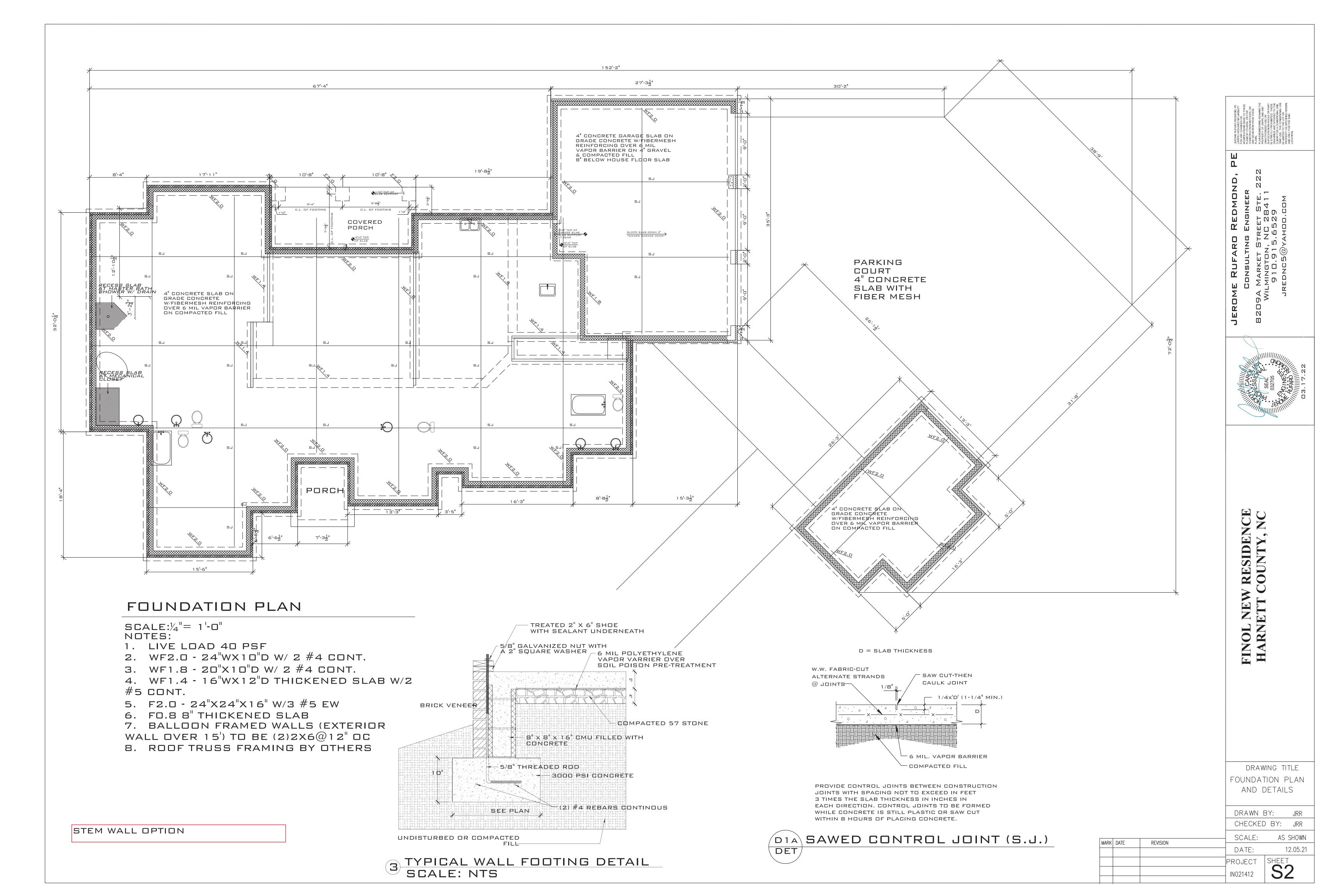
DRAWING TITLE STRUCTURAL NOTES

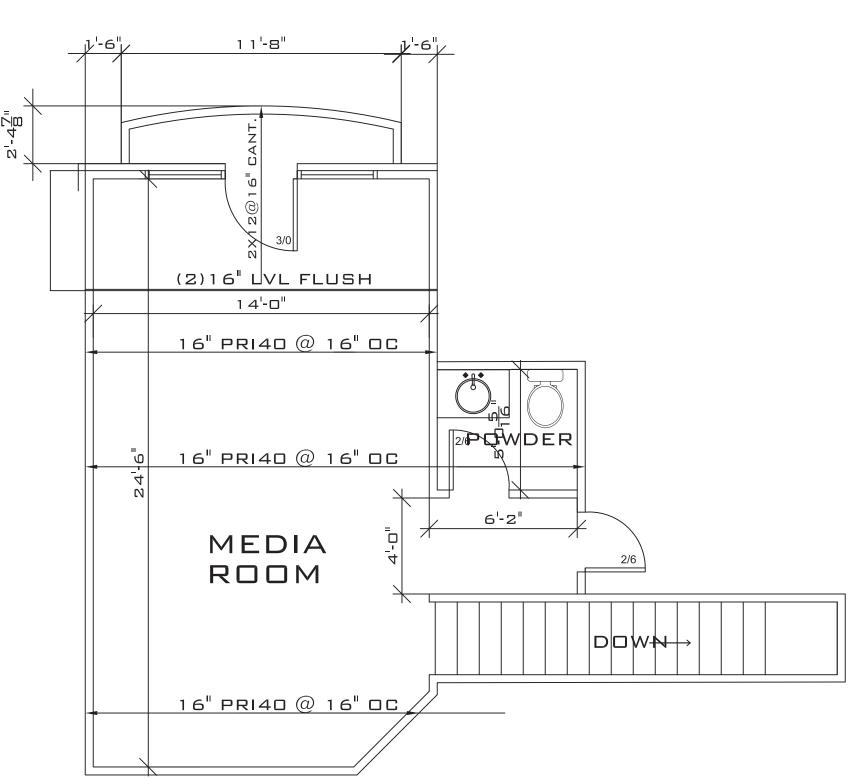
DRAWN BY: JRR CHECKED BY: JRR

12.05.21

SCALE: AS SHOWN DATE: PROJECT SHEET IN021412

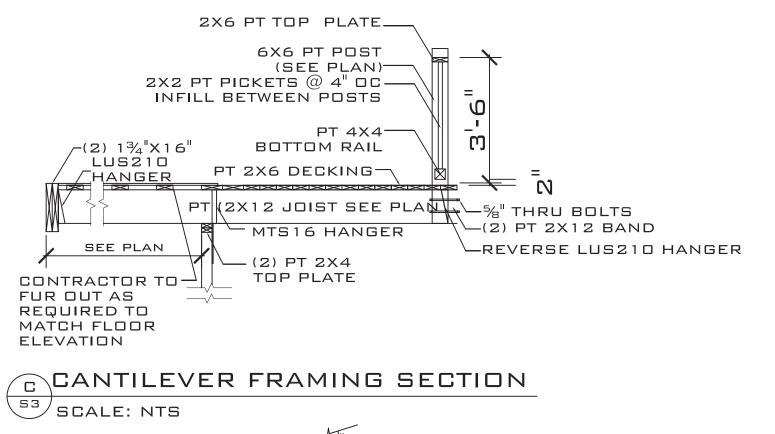


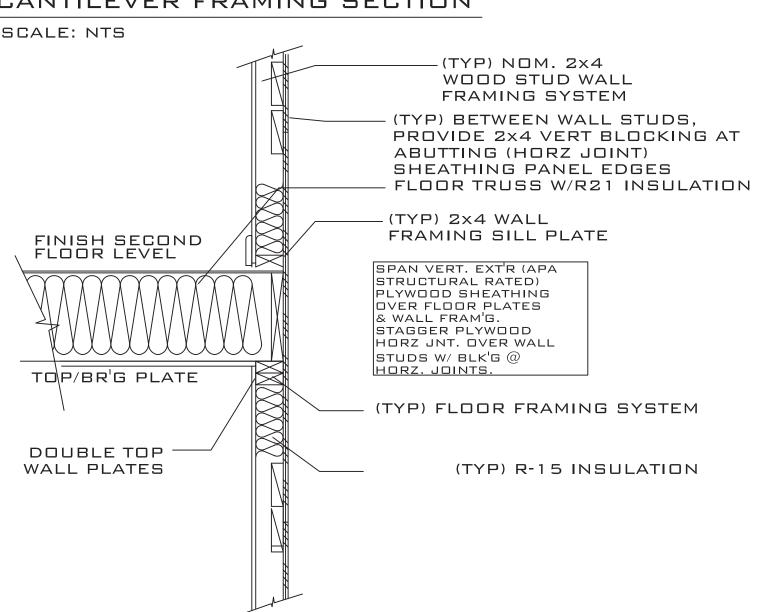




# 2ND FLOOR FRAMING PLAN

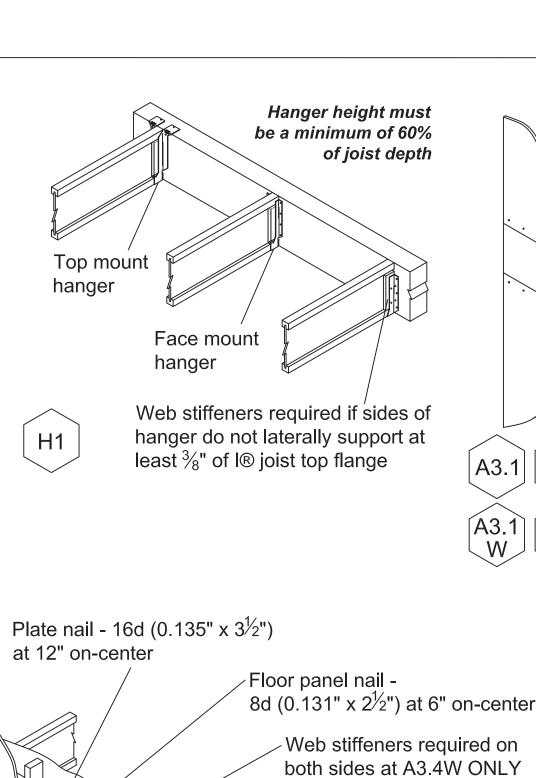
SCALE:1/4"= 1'-0" LIVE LOAD 40 PSF





TYPICAL 2ND FLOOR FRAMING

S3 SCALE: NTS



- 1<sup>1</sup>/<sub>4</sub>" TimberStrand®

- Attach I Joist to rim board with one 10d (0.128" x 3")

- Connect corner with four 10d (0.128" x 3") nails. Toe

LSL rim board.

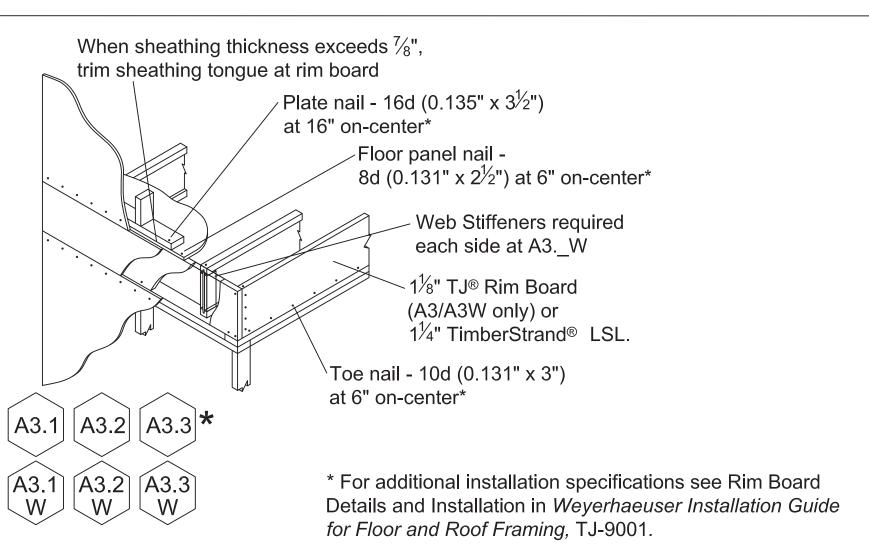
Toe nail - 10d (0.131"

x 3") at 6" on-center

For rim board thicker than 1<sup>3</sup>/<sub>4</sub>"

nail. Top nail from I joists into rim board.

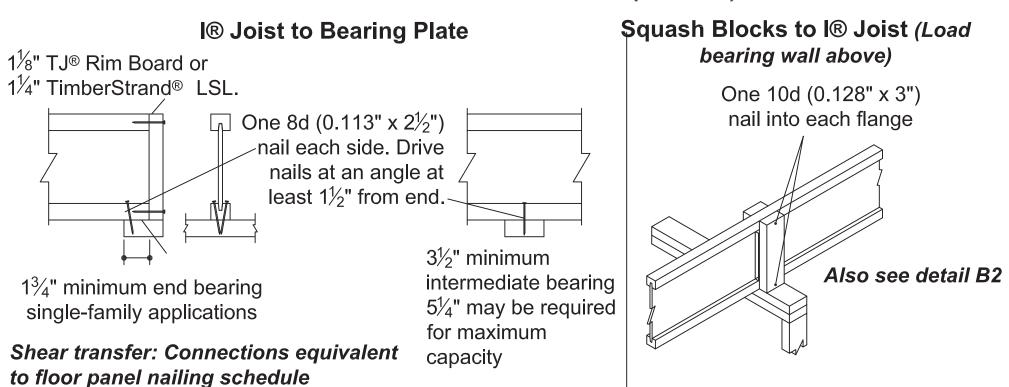
nail from side of parallel closure into rim board.

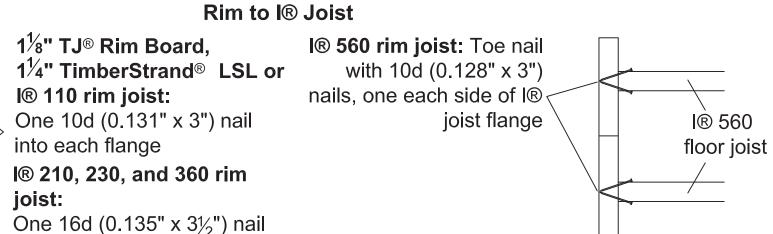




## NAILING AT BEARING (FLOOR)

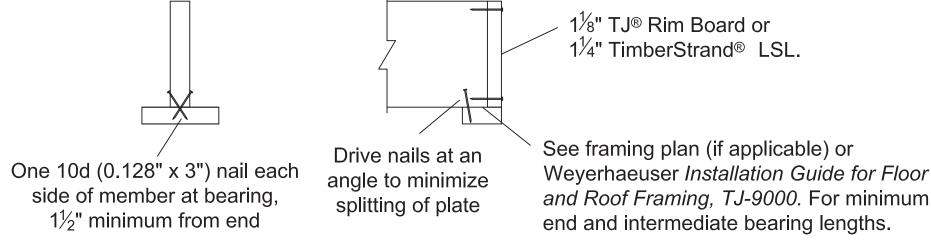
min.





 $1\frac{3}{4}$ " minimum bearing into each flange Locate rim board joint between joists.

# **BEAM ATTACHMENT at BEARING**



Top View

## Subfloor adhesive will improve floor performance, but may not be required.

**INSTALLATION TIPS** 

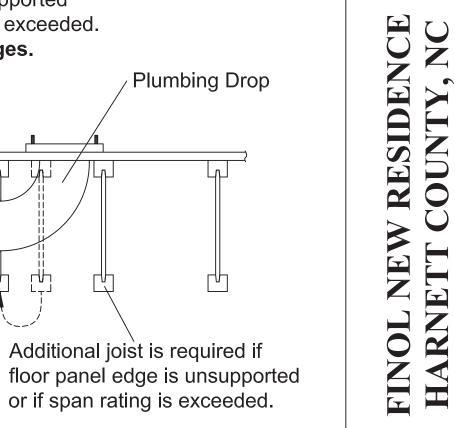
Joist may be shifted up to 3" if

and span rating is not exceeded.

floor panel edge is supported

Do not cut joist flanges.

- Squash blocks and blocking panels carry stacked vertical loads (details B1 and B2). Packing out the web of a I® joist (with web stiffeners) is not a substitute for squash blocks or blocking panels.
- When joists are doubled at non-load bearing parallel partitions, space joists apart the width of the wall for plumbing or HVAC.
- Additional joist at plumbing drop (see detail).



DRAWING TITLE FRAMING PLAN 2ND FLOOR I JOIST DETAILS DRAWN BY:

CHECKED BY: JRR SCALE: AS SHOWN REVISION MARK DATE 12.05.21 DATE: SHEET S3 PROJECT IN021412



2x stud wall at

16" on-center

Sheathing ~

boundary nails,

at 4" on-center

at rim board

8d (0.131" x  $2\frac{1}{2}$ ")

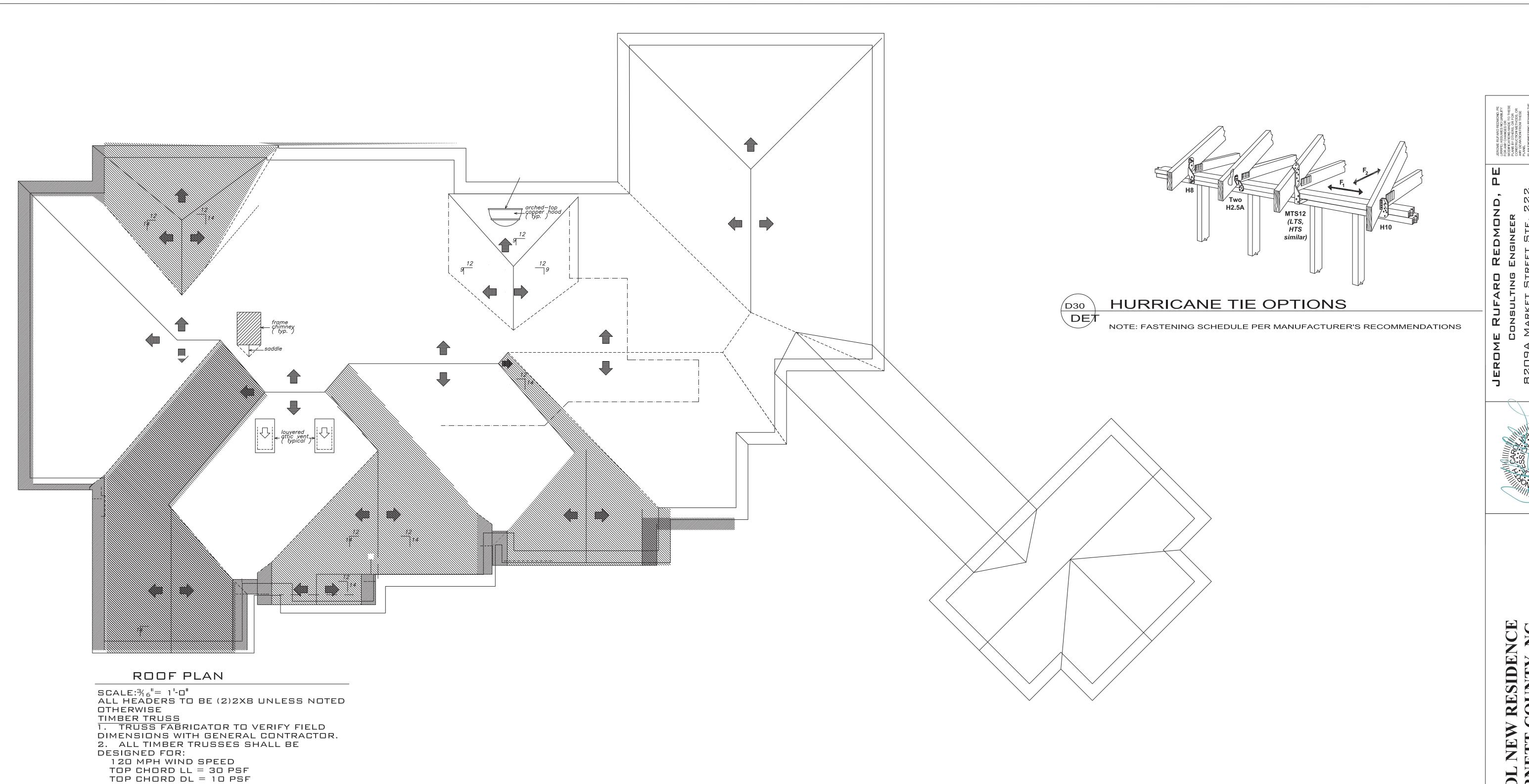
When sheathing

thickness exceeds 7/8",

trim sheathing tongue

Install proper blocking to \

support all panel edges



BOT CHORD LL = 20 PSF (GENERAL ATTIC)

IN ACCORDANCE WITH GOVERNING LOAD

3. TRUSS SUPPLIER SHALL SUBMIT SHOP

BOT CHORD DL = 15 PSF

DRAWINGS WITH NORTH CAROLINA REGISTERED ENGINEER SEAL BEFORE

4. ALL MEMBERS TO BE SYP NO. 2 OR

NET UPLIFT = 30 PSF

COMBINATIONS PER IBC 1605.

FABRICATION.

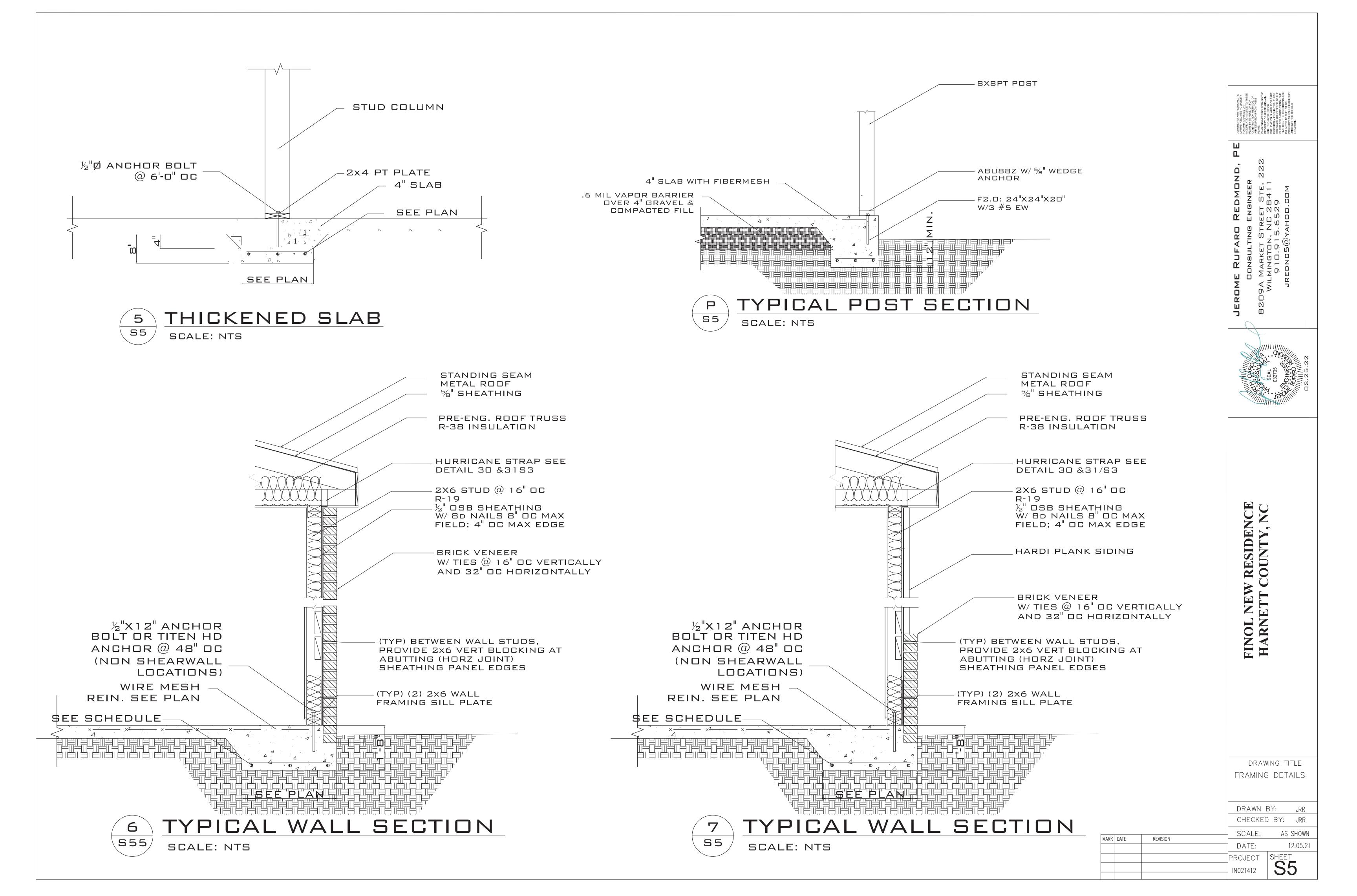
HIGHER

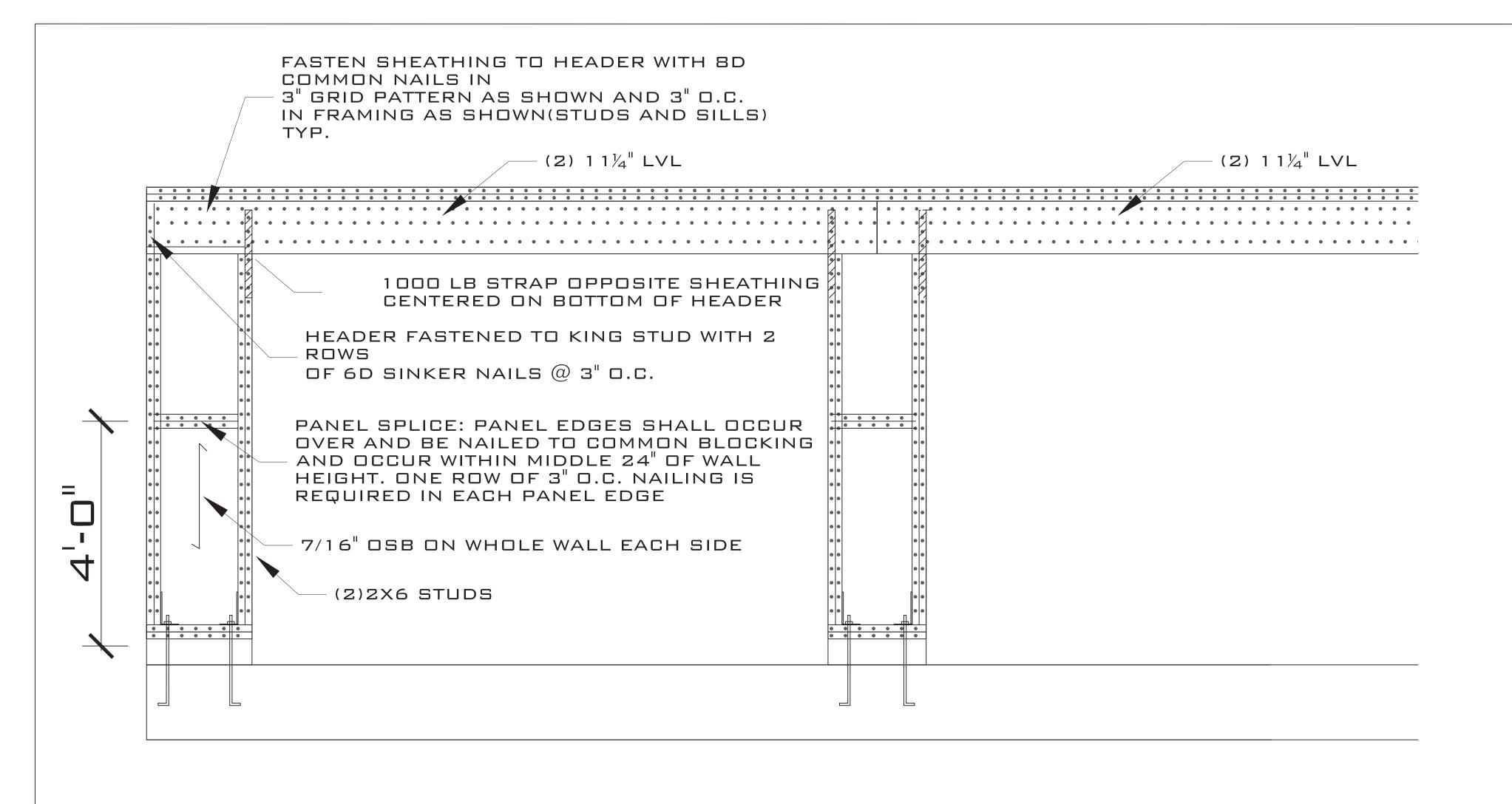
FINOL NEW RESIDENCE HARNETT COUNTY, NC

DRAWING TITLE FRAMING PLAN ROOF

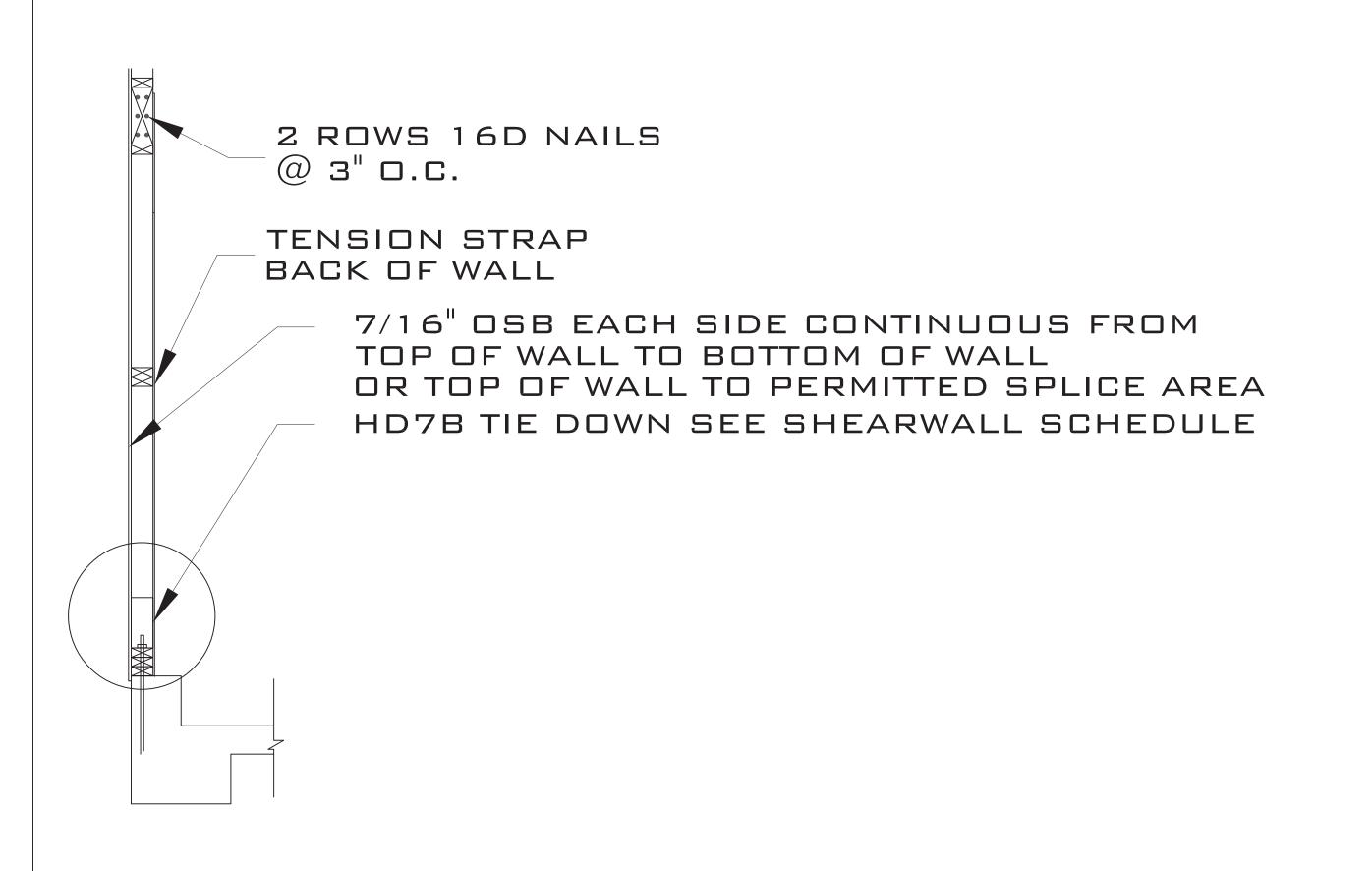
DRAWN BY: JRR CHECKED BY: JRR

LABIA	DATE	DE #01011	SCALE:	AS SHOW
MARK	DAIL	REVISION	DATE:	12.05.2
			PROJECT	SHEET
			IN021412	S4





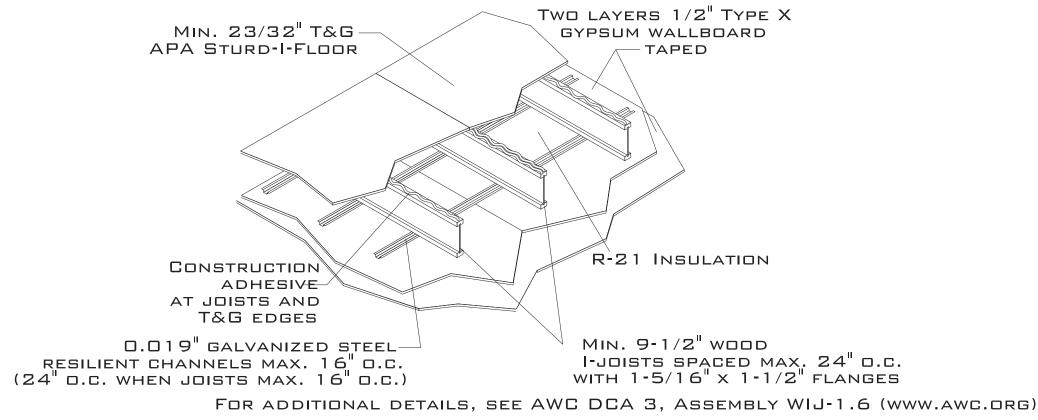
# GARAGE PORTAL FRAME DETAIL







29B-ONE-HOUR FIRE-RESISTIVE FLOOR/CEILING ASSEMBLY

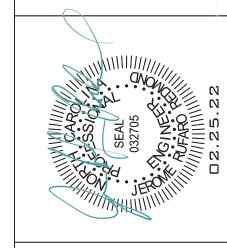


DRAWING TITLE GARAGE FRAMING DETAILS

DRAWN BY: JRR CHECKED BY: JRR SCALE: AS SHOWN

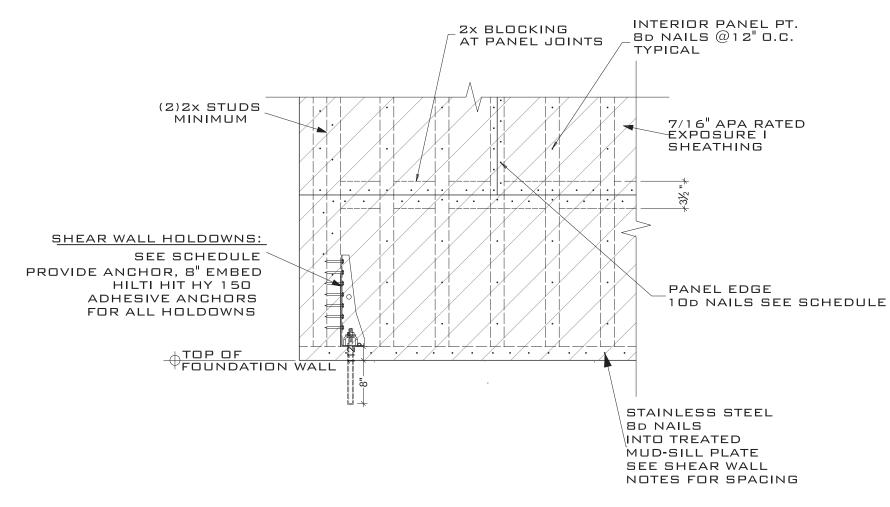
REVISION DATE: 12.05.21 PROJECT IN021412

SIDE ELEVATION

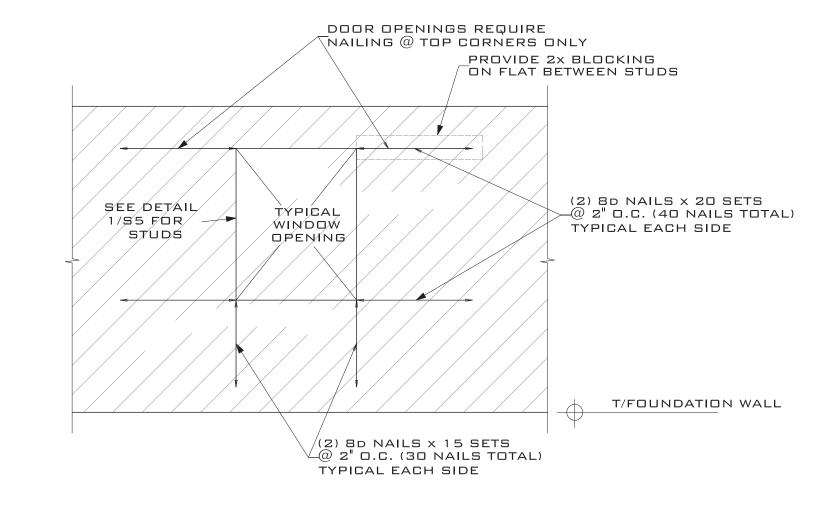


FINOL NEW RESIDENCE HARNETT COUNTY, NC

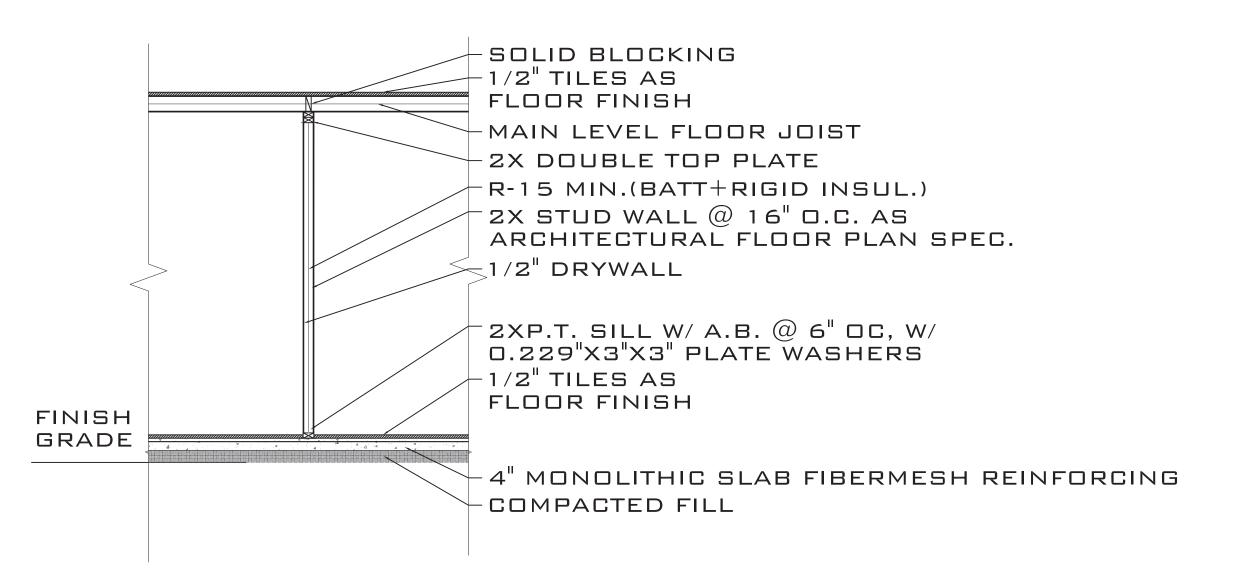
# 3 TYPICAL HEADER FRAMING DETAIL S7 SCALE: NTS



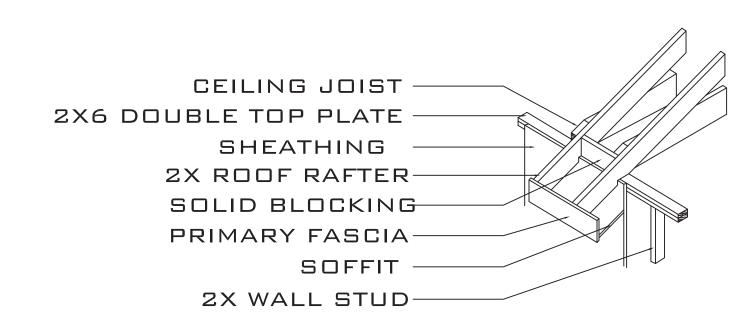




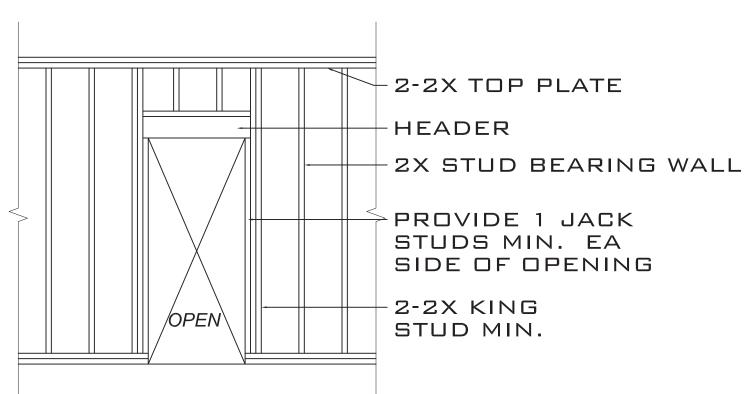
7 TYP. WALL NAILING @ DPENINGS



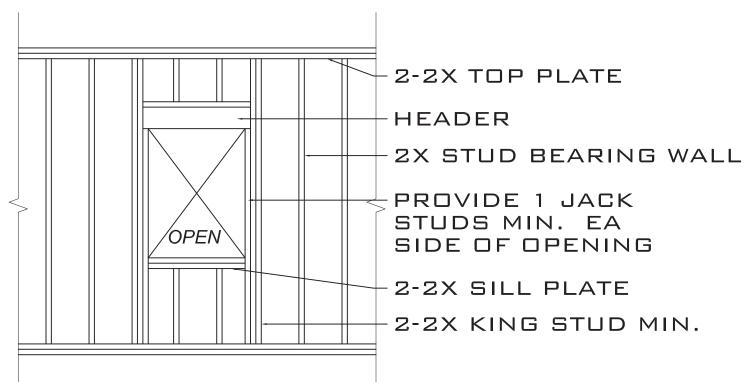
INTERIOR WALL TYPE SCALE: NTS



D5 ROOF FRAMING AT EAVE



# TYPICAL DOOR FRAMING SCALE:NTS



TYPICAL WINDOW FRAMING
SCALE:NTS



JEROME RUFARO REDMOND,

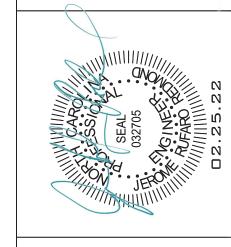
CONSULTING ENGINEER

8209A MARKET STREET STE. 222

WILMINGTON, NC 28411

910.915.6529

JREDNC5@YAHOO.COM



FINOL NEW RESIDENCE HARNETT COUNTY, NC

DRAWING TITLE FRAMING DETAILS

DRAWN BY: JRR

CHECKED BY: JRR

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