STONEFIELD-RALE

RALEIGH - LOT 00.0108 BLAKE POND (MODEL# 1635)

ELEVATION 1 - GL



AREA CALCULATIONS ELEVATION 1		HEATED	COVERED / UNHEATED	UNCOVERED
FIRST FLOOR		1542 SF	ONTEXTED	ONCOVERED
GARAGE		1012 31	496 SF	
FRONT PORCH - ELEVATION 1			103 SF	
SECOND FLOOR		1616 SF		
OPTIONS				
REAR COVERED PORCH			+144 SF	
TEXT GOVERED FORCH			1111 31	
TC	TAL	3158 SF	743 SF	

113 Frost Meadow Way

LOT SPECIFIC		
1	LOT 00.0108	BLAKE POND
2	ADDRESS	STONEFIELD REV. RALE—2 ELEVATION 1 113 FROST MEADOW WAY LILLINGTON, NC 27546
	ADDRESS	113 FROST MEADOW WAT LILLINGTON, NC 27346

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STEPS MAY OCCUR,
VERIFY W CIVIL DWGS.
PROVIDE RAILING PER
LOCAL CODE
- OPT RAII ING/ STD AS

- 4"x4" POST

ELEV. SHOWN W 4 BLOCK CRAWL FOUNDATION (3 EXPOSED / I BURIED) AND I4" FLOOR JOIST

STEPS MAY OCCUR, VERIFY W CIVIL DWGS. — PROVIDE RAILING PER LOCAL CODE HOUSE NAME:
STONEFIELD
DRAWING TITLE
FRONT & REAR ELEVATIONS

DRAWN BY:

PLAN NO. 1635

DATE: 06/20/2024

SHEET No.

SCALE: 1/8" = 1'-0"

: Lot 00.0108 amendment.dwg DATE: 6/



DATE: 06/20/2024



 $\frac{O}{S}$ 叫 UPPER ROOF VENTILATION CALCULATIONS:

OFFER I = 1184 Sq. FT.

OVERALL REQUIRED VENTILATION.

1 70 150 = 11.4 Sq. FT.

1 10 300 = 5.45 Sq. FT.

50% IN TOP THIRD = 2.41 Sq. FT. (1 TO 300)

NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT. NET FREE AREA OF RIDGE VENT = 18 SQ. IN/ LINEAR FT.

LONER VENTINS. (BOTTOM 2/3 RDS)

16 LINEAR FEET OF SOFFIT X 5.1 SQ. IN. = 3,000 SQ. FT.

12 LINEAR FEET OF RIDGE X IO SQ. IN. = 3 SQ. FT.

24 LINEAR FEET OF RIDGE X IO SQ. IN. = 3 SQ. FT.

3 SQ. FT. AT 50%
(1 TO 300 ALL

UPPER ROOF VENTILATION CALCULATIONS:
ROOF AREA 3 = 49 50. FT.
OVERALL REGISTRO VENTILATION.
1 TO 500 50H 50. FT.
1 TO 500 50H 50. FT.
50% IN TOP THIRD = 0.155 50. FT. (1 TO 300)

NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT. NET FREE AREA OF RIDGE VENT = 18 SQ. IN/ LINEAR FT.

LOMER VENTINS. (BOTTOM 2/3 RDS)
4 LINEAR FIET OF SOFFIT X 5,7 50. IN. = 0.156 50. FT.

LIPPER VENTINS. (CDP. U.3 RD)
2 LINEAR FIET OF RIDGE X IB 50. IN. = 0.25 50. FT.

I SO, FT. BETWEEN 50%
(I TO 300 ALLOWED)

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA 5 = 144 SQ, FT.
OVERALL REQUIRED VENTILATION:
1 TO 150 = 0.746 SQ, FT.
1 TO 300 = 0.48 SQ, FT.
50% IN TOP THIRD = 0.24 SQ, FT. (1 TO 300)

NET FREE AREA OF VENTED SOFFIT = 5.7 SQ, IN / LINEAR FT. NET FREE AREA OF RIDGE VENT = 18 SQ, IN/ LINEAR FT.

LOWER VENTING. (BOTTOM 2/3 RDS). 7 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 0.277 SQ. FT.

T LINEAR FEET OF SUPTH A 3,1 304 m. - Va. 1 34.1 LIPPER VENTING, (TOP 1/8 RD)

2. LINEAR FEET OF RIDGE X 18 50. IN = 0.25 50. FT. 1 50. FT. AT 50%
(1 TO 300 ALLONED)

UPPER ROOF VENTILATION CALCULATIONS:

OFFER ROOF VENTILATION

ROOF AREA 2 = 252 50, FT.

OVERALL REQUIRED VENTILATION:

1 TO 150 = 1,66 50, FT.

1 TO 300 = 0,64 50, FT.

50% IN TOP THIRD = 0.42 50, FT. (1 TO 300)

NET FREE AREA OF VENTED SOFFIT = 5.7 SQ, IN / LINEAR FT. NET FREE AREA OF RIDGE VENT = 18 SQ, IN/ LINEAR FT.

LOWER VENTINS. (BOTTOM 2/3 RDS)

II LINEAR FIET OF SOFFIT X 5.1 50. IN. = 0.435 50. FT.

IPPER VENTINS. (ICP I/4 BD).

4 LINEAR FIET OF RIDGE X IB 50. IN = 0.5 50. FT.

0.5 50. FT. AT 50%

(1 TO 500 ALLOWED).

UPPER ROOF VENTILATION CALCULATIONS:
ROOF AREA 4 = 103 50, FT,
OVERALL REGULED VEHILLATION.
1 TO 50 = 0.061 51, FT,
1 TO 50.061 THEP = 0.172 50, FT, (1 TO 300)

NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT. NET FREE AREA OF RIDGE VENT = 18 SQ. IN/ LINEAR FT.

LOWER VENTINS. (BOTTOM 2/3 RDS)
5 LINEAR FIET OF SOFFIT X 5.1 50. IN. = 0.196 50. FT.

IPPER VENTINS. (10P 1/3 RD)
2 LINEAR FIET OF RIDGE X 18 50. IN. = 0.25 50. FT.
150. FT. AT 50%
(1 TO 300 ALLOWED)

NOTE: ROOF PLANS SHOWN W/ MIN. REQ'D RIDGE VENT LOCATIONS. ACTUAL RIDGE VENT LOCATIONS AND QUANTITY PER BUILDER

AREA 5 6:12 SLOPE 6:12 SLOPE AREA 2 I'-0" TYP RAKE 8:12 5LOPE RIDGE 8 LE RIDGE VEN 8:12 SLOPE AREA I PROVIDE MIN. 8XI2 HVAC PLATFORM, LOCATION PER TRUSS MANUFACTURER ACCESS 12:12 SLOPE SLOPE 12:12 SLOPE 12:12 SLOPE AREA 3 AREA 4 6" | TIGHT RAKE

> ROOF PLAN ELEV. I SCALE: 1/8" = 1'-0"

HOUSE NAME: STONEFIEL DRAWING TITLE Ø7 O I⊓

DRAWN BY:

DATE: 06/20/2024

PLAN NO. 1635

SHEET No. AI.3 CRAWL SPACE VENT CALCULATIONS: ELEV I CRAWL AREA = 1542 SQ. FT. OVERALL REQUIRED VENTILATION: I SQ. IN. PER I SQ. FT. = 1542 SQ. IN.

NET FREE AREA OF VENT = 72 SQ. IN. PER VENT WITTEN AUTOMATIC VENT OAL-I OR EQUAL

VENTING REQUIREMENT:

1542 SQ. IN. / 72 SQ. IN. = 21.4 VENTS = 22 VENTS

ONLY VENTS ON THE FRONT ELEVATION ARE SHOWN. ALL OTHERS TO BE FIELD LOCATED. VENTS SHALL BE INSTALLED PER R322.2.2 - R322.2.2.1

_STEPS MAY OCCUR. REFER TO CIVIL DRAWINGS 12'-0" 6'-0" MIN. 16"x24" ACCESS PANEL, FIELD VERIFY LOCATION DECK SLOPE SLAB FOR DRAINAGE . STEPS MAY OCCUR, REFER TO CIVIL DRAWINGS 8" SQUARE COLUMN SEE EXT ELEV DECK ABOVE L SLOPE SLAB FOR DRAINAGE 2'-6 1/2" CRAWL SPACE FIELD VERIFY LOCATION (WOOD DECK) FIELD VERIFY DROP FROM HOUSE TO GARAGE 30'-3 1/2" 8'-1 1/2" STEPS MAY OCCUR,

REFER TO CIVIL

DRAWINGS GARAGE CONC. SLOPE SLAB FOR DRAINAGE 19'-8 1/2" I6" X8" VENT, -FIELD VERIFY LOCATION WEATHERLIP -8" CMU BLOCK STEPS AS — REQ. REFER TO CIVIL DRAWINGS FACE OF 4" PORCH SLAB 11'-6 1/2" 18'-7 1/2" 1'-10 1/2" 1'-10 1/2" 20'-0" 30'-2"

> ELEVATION I CRAWL SPACE PLAN SCALE: 1/8" = 1'-0"

SHEET No.

A2.1

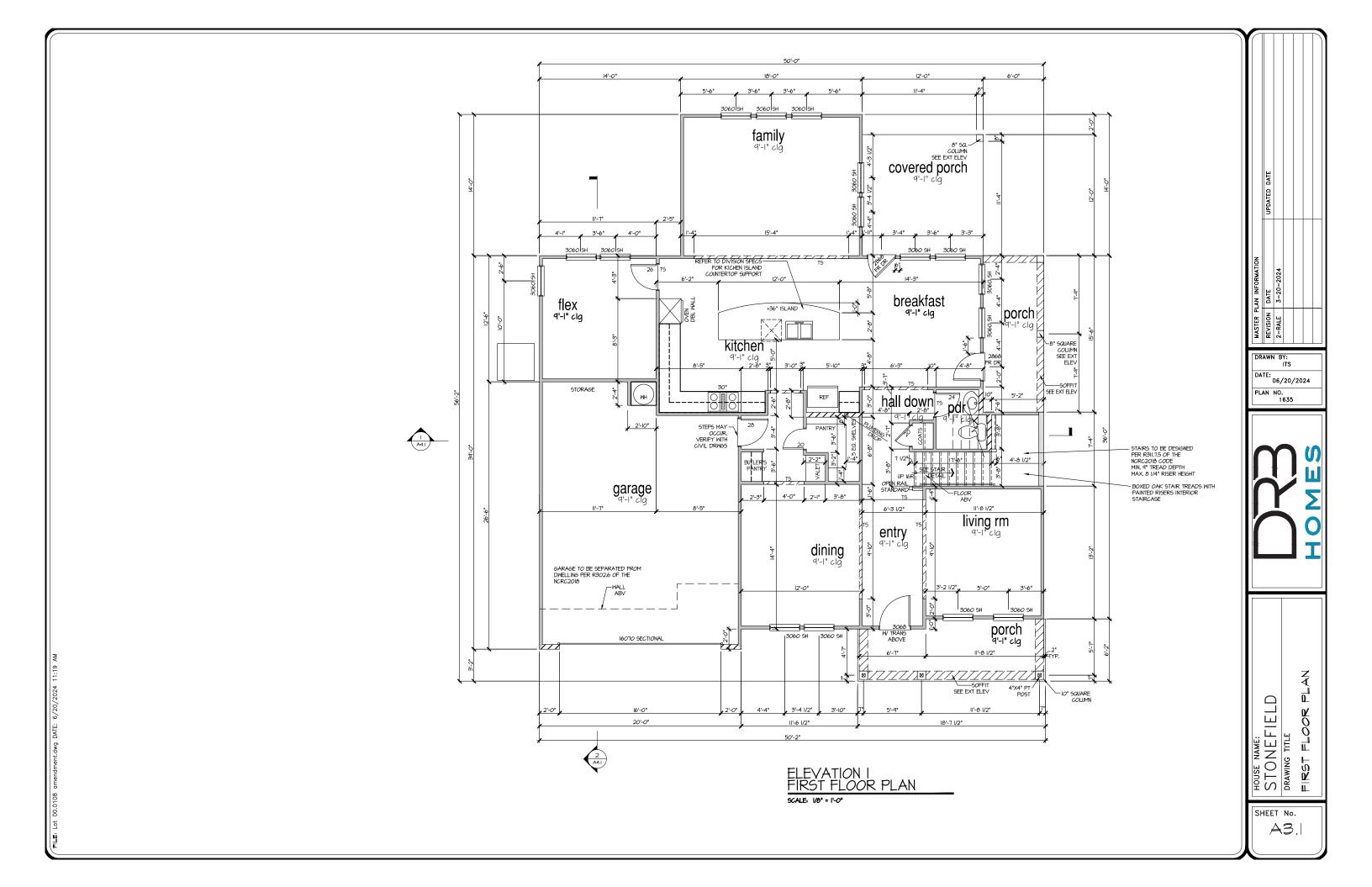
HOUSE NAME: STONEFIEL DRAWING TITLE

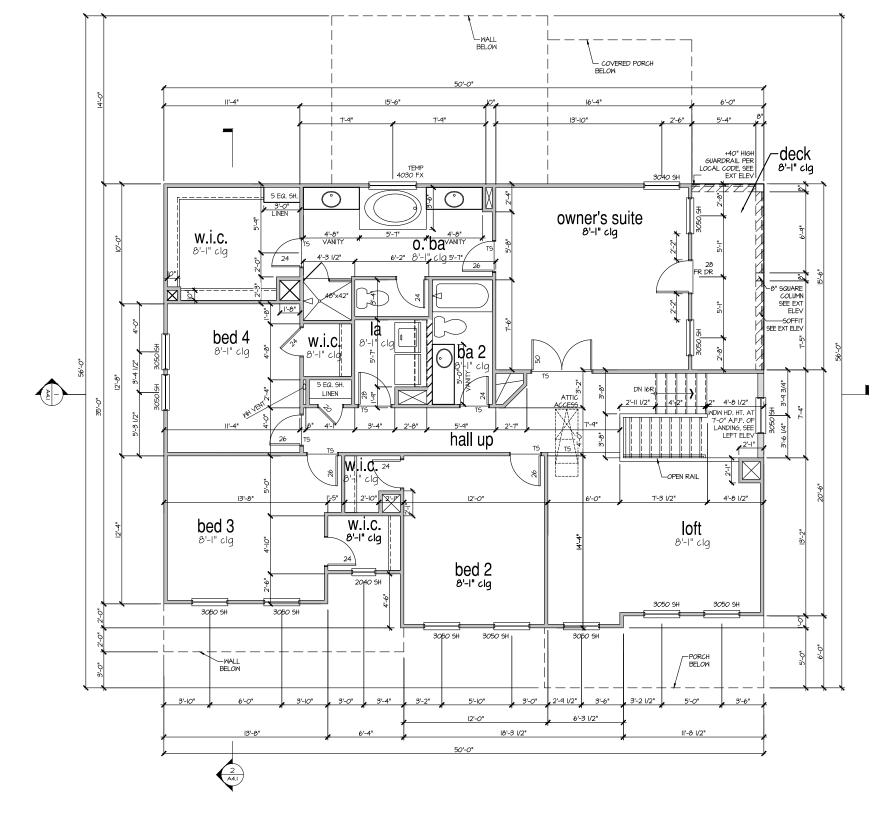
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PLAN NO. 1635

DATE: 06/20/2024





ELEVATION I SECOND FLOOR PLAN SCALE: 1/8" = 1'-0"

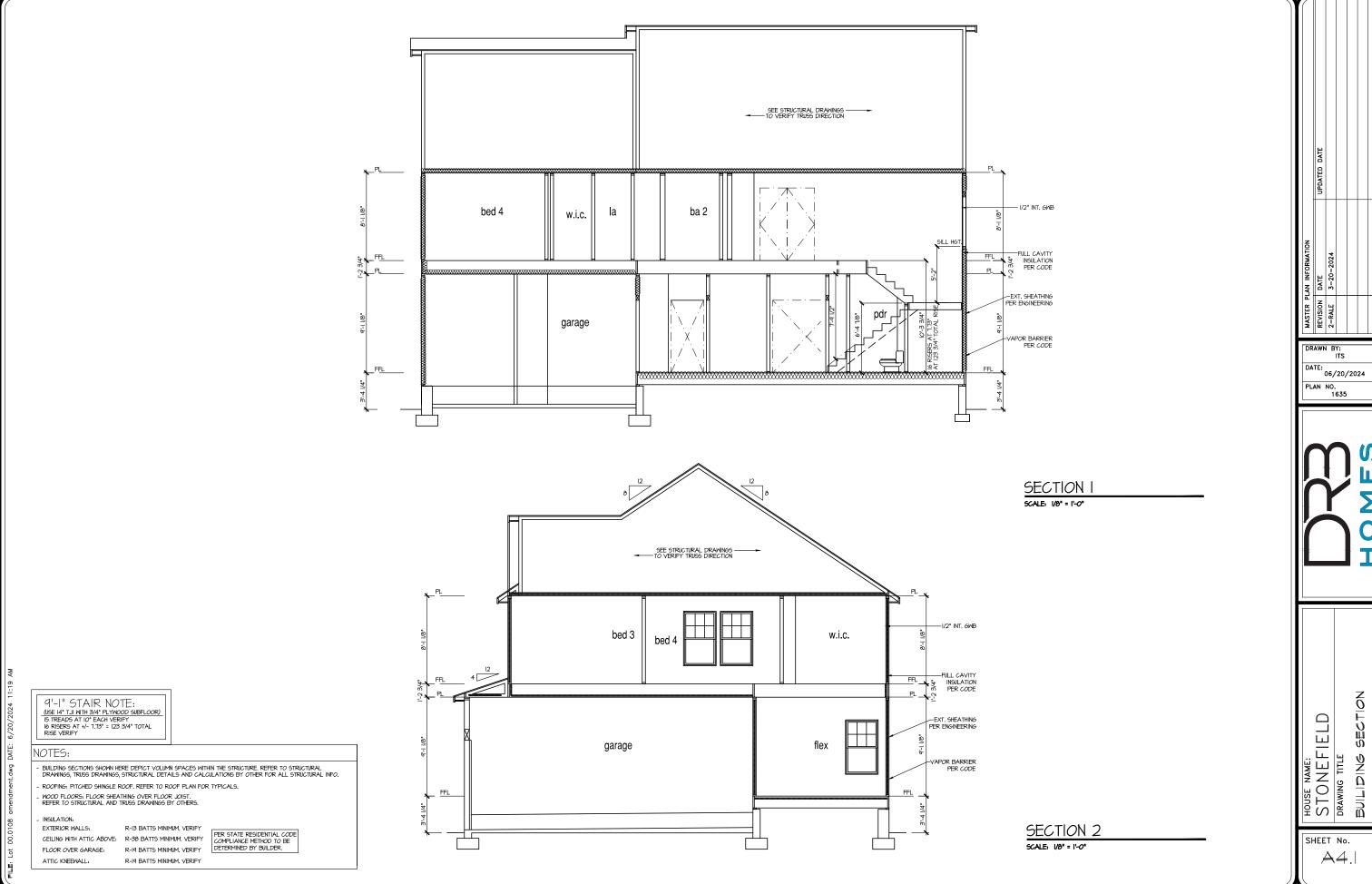
HOUSE NAME:
STONEFIELD
DRAWING TITLE
SECOND FLOOR T 00 N(

SHEET No. A3.2

DRAWN BY:

PLAN NO. 1635

DATE: 06/20/2024

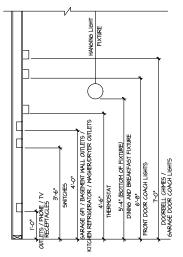


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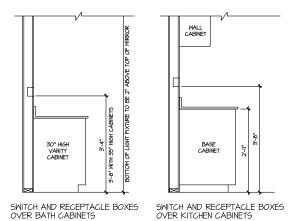
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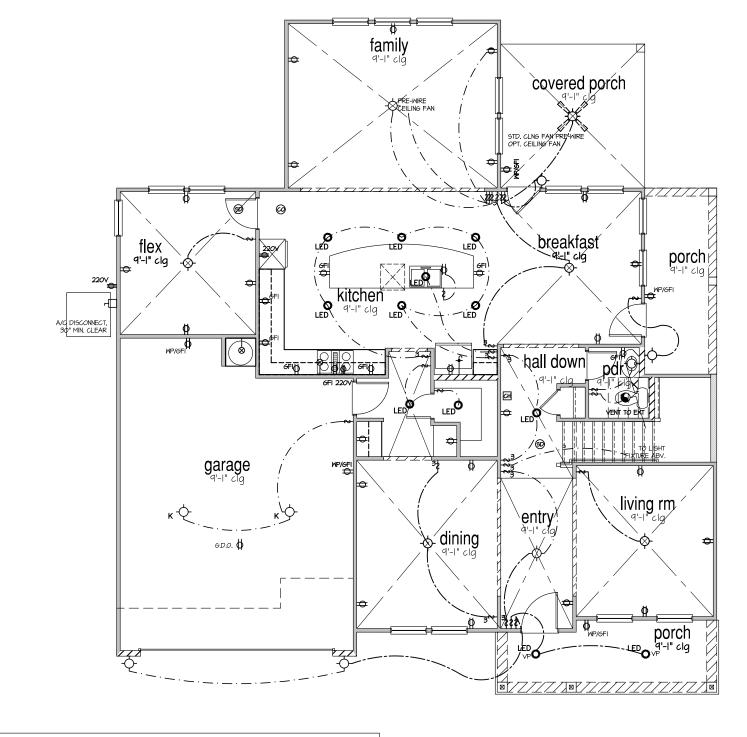


SHEET No. A4.1



STANDARD ELECTRICAL BOX HEIGHTS





NOTES:

- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (MFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.

 PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRICAL COD (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
- HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
- ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND MATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.
- PROVIDE POWER, LIGHT AND SMITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CLOSET LIGHTS TO BE FLOURESCENT FIXTURES FOR NC & INCANDESCENT CLG. MOUNTED FIXTURES FOR ALL OTHER AREAS,

LEGI	END:						
ф	AFCI DUPLEX OUTLET		CEILING MOUNTED INCANDESCENT	뗴	CHIMES		CEILING FAN
Фир/бЕ	WEATHERPROOF GFI AFCI DUPLEX OUTLET	-QK	KEYLESS LIGHT	•	PUSHBUTTON SWITCH		(PROVIDE ADEQUATE SUPPORT)
∯ 6FI	GROUND-FAULT CIRCUIT-INTERRUPTER AFCI DUPLEX OUTLET	Ю	WALL MOUNTED INCANDESCENT	99	IIOV SMOKE DETECTOR W BATTERY BACKUP	\	CEILING FAN WITH INCANDESCENT LIGHT FIXTURE
Ф	HALF-SWITCHED AFCI DUPLEX OUTLET	'Ψ	LIGHT FIXTURE	0	CO2 DETECTOR	(PROVIDE ADEQUATE SU	(PROVIDE ADEQUATE SUPPORT)
\$ 220∨	220 VOLT AFCI OUTLET	ф-	RECESSED LIGHT FIXTURE	T	THERMOSTAT	. 0	A CONTRACTOR OF THE CONTRACTOR
0	REINFORCED JUNCTION BOX	OLED	LED SURFACE MOUNTED	PH	TELEPHONE	₩	GAS SUPPLY WITH VALVE
\$	WALL SWITCH			₽	TELEVISION	—+2 _{HB}	HOSE BIBB
\$ 3	THREE-WAY SWITCH	•	EXHAUST FAN (VENT TO EXTERIOR)	≙	ELECTRIC METER	10	
					ELECTRIC PANEL		
34	FOUR-WAY SWITCH	-	EXHAUST FAN/LIGHT COMBINATION (VENT TO EXTERIOR)		DISCONNECT SWITCH	*CM	I/4" WATER STUB OUT
	LED STRIP FIXTURE		TECH HJB SYSTEM				
	Ф фив/сеті Ф сеті Ф 220V Ф \$ 3	AFCI DUPLEX CUTLET WEMPERT DUPLEX CUTLET GROUND-FAILT CIRCUIT-INTERRUPTER AFCI DUPLEX CUTLET HALF-SWITCHED AFCI DUPLEX CUTLET ZOV VOLT AFCI CUTLET REINFORCED JINCTION BOX MALL SWITCH THERE-HAY SWITCH FOUR-WAY SWITCH	WALL SHITCH SOUTH WALL SHITCH W	AFCI DIPLEX OUTLET OPENING MEATHERPROOF OF AFCI DUPLEX OUTLET OPENING MEATHERPROOF OF AFCI DUPLEX OUTLET OPENING MEATHERPROOF OF AFCI DUPLEX OUTLET OPENING MEATHER AFCI DIPLEX OUTLET OPENING MEATHER MEATHE	A AFCI DIPLEX OUTLET OF MALE SHITCH OF RENFORCE DUPLEX OUTLET OF RENFORCED JUNCTION BOX THREE-MAY SHITCH AFCI DIPLEX OUTLET OF RECESSED LIGHT FIXTURE OF RENFORCED JUNCTION BOX THREE-MAY SHITCH OF RENFORCED JUNCTION BOX THREE-MAY SHITCH OF RENFORCED JUNCTION BOX DIED DIED LED SURFACE MOUNTED DIAMONT FAM (MENT TO EXTERIOR) DIED DIAMONT FAM (MENT TO EXTERIOR) DIAMONT FAM (MENT TO EXTERIOR)	AFCI DUPLEX CUTLET CELLING MOUNTED INCANDESCENT LIGHT FIXTRE PURPLEX CUTLET DUPLEX CUTLET CELLING MOUNTED INCANDESCENT LIGHT FIXTRE PURPLEX CUTLET CELLING MOUNTED INCANDESCENT LIGHT FIXTRE PURPLEX CUTLET CELLING MOUNTED INCANDESCENT LIGHT FIXTRE BIOV SMOKE DETECTOR W BATTERY BACCUP BIOV SMOKE DETECTOR W BATTERY BACCUP CO2 DETECTOR W BATTERY BACCUP CO2 DETECTOR W BATTERY BACCUP CO3 DETECTOR W BATTERY BACCUP CO3 DETECTOR W BATTERY BACCUP CO3 DETECTOR W BATTERY BACCUP CO4 DETECTOR W BATTERY BACCUP CO5 DETECT	AFCI DIPLEX OUTLET OF AFCI DIPLEX OF AFCI DIPLEX

ELECTRICAL PLAN FIRST FLOOR - ELEV. I

SCALE: 1/8" = 1'-0"

MASTER PLAN INFORMATION

REVISION DATE

2-RALE 3-20-2024

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DRAWN BY: ITS DATE: 06/20/2024 PLAN NO. 1635

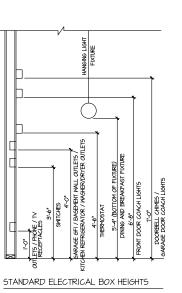


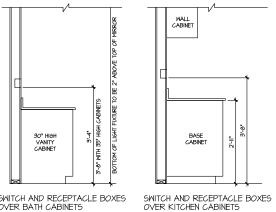
DRAWING TITLE
FIRST FLOOR ELECTRICAL

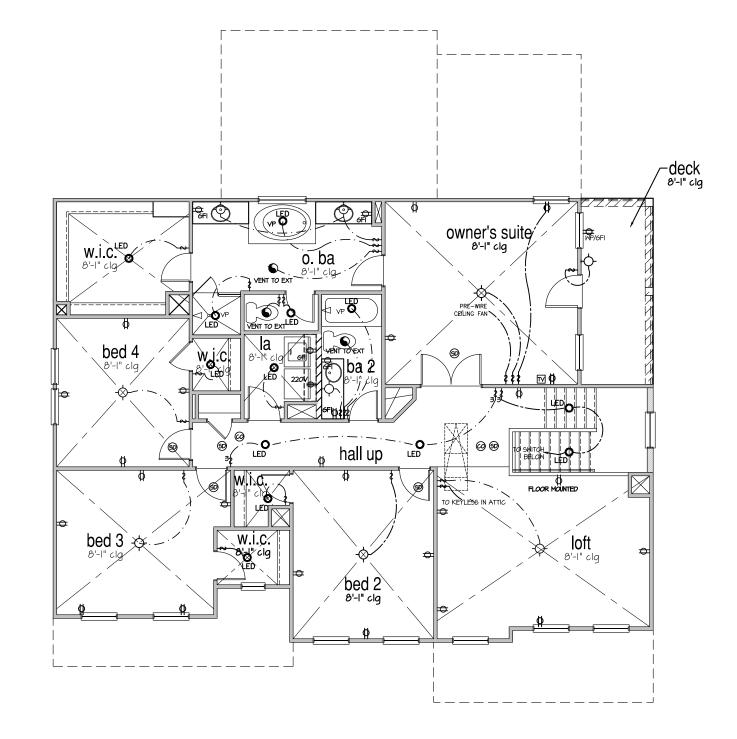
HOUSE NAME: STONEFIEL DRAWING TITLE

SHEET No.

FILE: Lot 00.0108 amendment.dwg DATE: 6/20/2024 11:19 AM







NOTES:	LEGEND:		CHIMES	
 PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES, PROVIDE AND INSTALL GROUND PAILT CIRCUIT INTERSUPTERS (6PF) AS REQUIRED BY NATIONAL ELECTRICAL 	AFCI DUPLEX OUTLET MEATHERPROOF 6FI AFCI DUPLEX OUTLET	CELLING MOUNTED INCANDESCENT LIGHT FIXTURE KEYLESS LIGHT	EH CHIMES PUSHBUTTON SMITCH	CEILING FAN (PROVIDE ADEQUATE SUPPORT)
COD (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES. - ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.	GROUND-FAULT CIRCUIT-INTERRUPTER AFCI DUPLEX OUTLET	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	IIOV SMOKE DETECTOR W BATTERY BACKUP	CEILING FAN WITH INCANDESCENT
- HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS, - ALL ELECTRICAL AND MECHANICAL EQUIPMENT (PURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS,	HALF-SWITCHED AFCI DUPLEX OUTLET DESCRIPTION OF THE PROPERTY OF THE	-Ö- RECESSED LIGHT FIXTURE	CO2 DETECTOR THERMOSTAT	(PROVIDE ADEQUATE SUPPORT)
DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.	REINFORCED JUNCTION BOX	O ^{LED} LED SURFACE MOUNTED	■ TELEPHONE	⊗ GAS SUPPLY WITH VALVE
- PROVIDE POWER_LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S MRITTEN INSTRUCTIONS.	\$ WALL SWITCH	EXHAUST FAN (VENT TO EXTERIOR)	TELEVISION BLECTRIC METER	→ HB HOSE BIBB
 CLOSET LIGHTS TO BE FLOURESCENT FIXTURES FOR NC & INCANDESCENT CLG. MOUNTED FIXTURES FOR ALL OTHER AREAS. 	\$3 THREE-WAY SWITCH \$4 FOUR-WAY SWITCH	- EXHAUST FANLIGHT COMBINATION	ELECTRIC PANEL DISCONNECT SMITCH	CM 1/4" WATER STUB OUT
		(VENT TO EXTERIOR)	DISCONNECT SMITCH	•

TECH HUB SYSTEM

□ ∃ ☐ LED STRIP FIXTURE

ELECTRICAL PLAN SECOND FLOOR - ELEV. I SCALE: 1/8" = 1'-0"

0 1 1 1 1 Ш ᇳ HOUSE NAME:
STONEFIELD
DRAWING TITLE
SECOND FLOOR

DRAWN BY:

DATE: 06/20/2024 PLAN NO. 1635

SHEET No.

SWITCH AND RECEPTACLE BOXES OVER BATH CABINETS

≣1.2

DESCRIPTION OF BLDG, ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'G.	(3) NAILS @ 4" O.C.	(3) NAILS @ 4" o.c.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" O.C.	TOENAILS @ 6" O.C.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS @ 24" O.C.	NAILS @ 16" O.C.
DOUBLE TOP PLATE	NAILS @ 24" O.C.	NAILS • 16" O.C.
DOUBLE TOP PLATE LAP SPLICE	(9) NAILS IN LAPPED AREA	(II) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS &	(2) NAILS	(2) NAILS
INTERSECTING WALLS		

* 2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. ONLY ACCEPTABLE WHERE * ARE SHOWN)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELE FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION O NECESSARY SHORING SHEETING TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING FLEMEN IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING BUT NOT LIMITED TO: FOUNDATIONS SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY OR WARRANTY TOLERANCES.

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUS BEAMS DO NOT EXCEED THE FOLLOWING:

- A ROOF TRUSSES.
- I/4" DEAD LOAD FLOOR TRUSSES, ATTIC TRUSSES, \$ 1-JOISTS: 1/8" DEAD LOAD
- FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

GENERAL STRUCTURAL NOTES

- * DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE:
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

DESIGN LOADS:

ROOF DEAD = 7 PSF T.C., 10 PSF B.C.

LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L IO PSF @ TILE)

LATERAL 120 MPH, EXPOSURE B. SEISMIC A/B.

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

GENERAL FRAMING

ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY, NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.

- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP, U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS)
 I6" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, UN.O. WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRICE-PINE-FIR #2 (SPE) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KILN-DRIED), ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY, CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX. UN.O.) . HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (1)2x4/6 FLAT @ OPENINGS UP TO 41. (2)2x4/6 FLAT UP TO 81 ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- PENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING
- 'LSL' F0=2325 psi: Fv=3I0 psi: E=I,55xI0^6 psi
- 'LVL' Fb=2600 psi; Fv=265 psi; E=2.0xl0^6 psi 'PSL' - FB=2900 PSI; FV=290 PSI; E=2.0XIO^6 PSI
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.
- FOR 2 \$ 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"X0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"X31/5" AMINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & POTTOM NAIL S/SCREWS 2" FROM FDGE GOLID 3 K" OR 5 K" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x6 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF $\frac{1}{4}$ "x6" SIMPSON SDS SCREWS (OR 6 $\frac{3}{4}$ " TRUSSLOK SCREWS) • 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE, A SOLID 7" BEAM IS ACCEPTABLE
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD \$ (1)2x KING STUD, MINIMUM.
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.,
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"X0.131" NAILS @ 24" O.C. (MIN.), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('HILTI' X-CF PINS OR EQUAL) @ 16" O.C. STAGGERED, OR I/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BC52-2/4 CAP & ABW44Z BASE, UN.O.

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF, TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT MEK FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN, OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES \$ @ 12"o.c. FIELD.
- 2 \$\vec{8}\tau \cdot 0.120\tau \text{NAILS @ 4\tau O.C. @ PANEL EDGES \$ @ 8\tau O.C. FIELD. - 2 3" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.
- #6 x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN FACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) • ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES (3) H2 5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO:
 - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) TRUSS VERTICALS W/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- W/ 2 ½" x 0.131" NAILS @ 6"O.C. @ PANEL EDGES & @ 12" O.C. FIELD. - w/ 2 (× 0.120" NAILS • 4"o.c. • PANEL EDGES € • 8" O.C. FIELD.
- w/ 2 3" x 0.113" NAILS @ 3"OL. @ PANEL EDGES \$ @ 6" O.C. FIELD.

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	Steel angle size
3'-0 '	20 FT. MAX	L3"x3"x/4"
	3 FT. MAX	L3"x3"x/4"
6'-0"	I2 FT. MAX	L4"x3"x/4"
	20 FT. MAX	L5"x3½"x¾;"
8'-O"	3 FT. MAX	L4"x4"x¼" "
8 -0	I2 FT. MAX	L5"x3½"x¾;"
	I6 FT. MAX	L6"x3%"x%"
4'-6"	I2 FT. MAX	L6"x3%"x%"
16'-0"	2 FT. MAX	L7"x4"x½" ***
	3 FT. MAX	L8"x4"x½" **

. LINIELTS. NALL SUPPORT 2 % - 3 ½ VENEER W 40 pof MAXIMIN 6' SHALL HAVE 4" MIN BEARING 6' SHALL HAVE 8" MIN. BEARING 6' SHALL NOT BE FASTENED BACK TO HEADER

- 16' SHALL NOT BE FASTINED BACK TO FEADER IN MALL #49'0C. W/3' DIA. x 3' J/'
 LOW LO SCREDGE BIZ Z LOW VERTICALLY SOTTED HALES

 LOW LO SCREDGE BIZ Z LOW VERTICALLY SOTTED HALES

 NEW SHAPPER FASTINED BACK TO SERVICIAL

 MEN SHPORTING VEREER CF MICE THE EXITEDROR TICE OF THE MORIZONTAL LEG

 MAY DEC UT IN THE FIELD TO DE 3' J/' MICE OWN THE DERMIS LEGIFICAL

 STO ALLOH FOR MORTRAY JOINT FINISHING

 EST STACTIFICAL TIME FOR THE MICHIEL CONTITION NOT ENCOMPASSED BY THE

 SET STACTIFICAL TIME FOR THE MICHIEL CONTITION NOT ENCOMPASSED BY THE
- TR CALEEN VENEER USE L4x3%,". OR 3½" VENEER ONLY SEE PLAN FOR VENEER SUPPORT IF VENEER < 3½" THICK.

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LATERAL BRACING & SHEAR NALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:

) MPH WIND IN 2018 NCSBC:R((120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R30113 OF THE 2018 NGSBC-RC OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602 3 5& R802 II

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W 2 3/8"XOJI3" NAILS @ 6" O.C. AT EDGES \$ @ 12" O.C. IN THE PANEL FIELD. TYP, UN.C.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 名" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD.

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 %" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 34" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES \$ @ 6'
O.C. IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2X HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.

3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W 8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING, IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING
- PRE-MANUFACTURED PANELIZED WALLS:
 FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" VAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWAI OR 3" O.C. OSB SHEARWALL.

INDICATES HOLDOWN BELOW

GENERAL STRUCTURAL NOTES

FOUNDATION

- * DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX, FROM PLATE ENDS - UTILIZING
- 1/2" DIA. ANCHOR BOLTS 6'-0" O.C, 7" MIN. EMBEDMENT
- (CONC), 15" MIN. EMBEDMENT (CMU)
 SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- * SIMPSON MAB23 ANCHOR STRAPS @ 2'-8" O.C. (CMU) (REFER TO DETAILS FOR IO' TALL WALL ANCHOR REQUIREMENTS)
- * ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- * BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 € 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- * CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, UN.O.: 4,000 psi: FOUNDATION WALLS
 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- 9' OR 10' HEIGHT (AS NOTED ON PLANS)
 TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (91/2" FOR 10" THICK WALL).
- * BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC. ML-CL, OR CL).
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT, FND, WALL WITH 2" CLEAR, REINFORCEMENT
- SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.

 FOR OPENINGS UP TO 36", PROVIDE MINIMUM IO" CONCRETE DEPTH OVER OPENING OR (3)2x10 W (2)2x6 JACK STUDS, U.N.O.
- LARGER OPENINGS SHALL BE PER PLAN.
- * ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- * ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR
- 15'-0" O.C. (MAXIMUM)

 JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
- POSSIBLE (IJ RATIO) WITH A MAXIMUM OF IJ 5 RATIO · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi), MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 \$ 530.I.
- · CMIJ FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORGEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- ◆ PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS. FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- * DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- * BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION	
► HD-I	SIMPSON HTT4 HOLD-DOWN *	
HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)	
▶ HD-3	SIMPSON STHD14/14RJ HOLD-DOWN	

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION * UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN \$6' DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUE RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

6/25/24 TH CAR PROFESSION. O' ENGINE SEPH T. R

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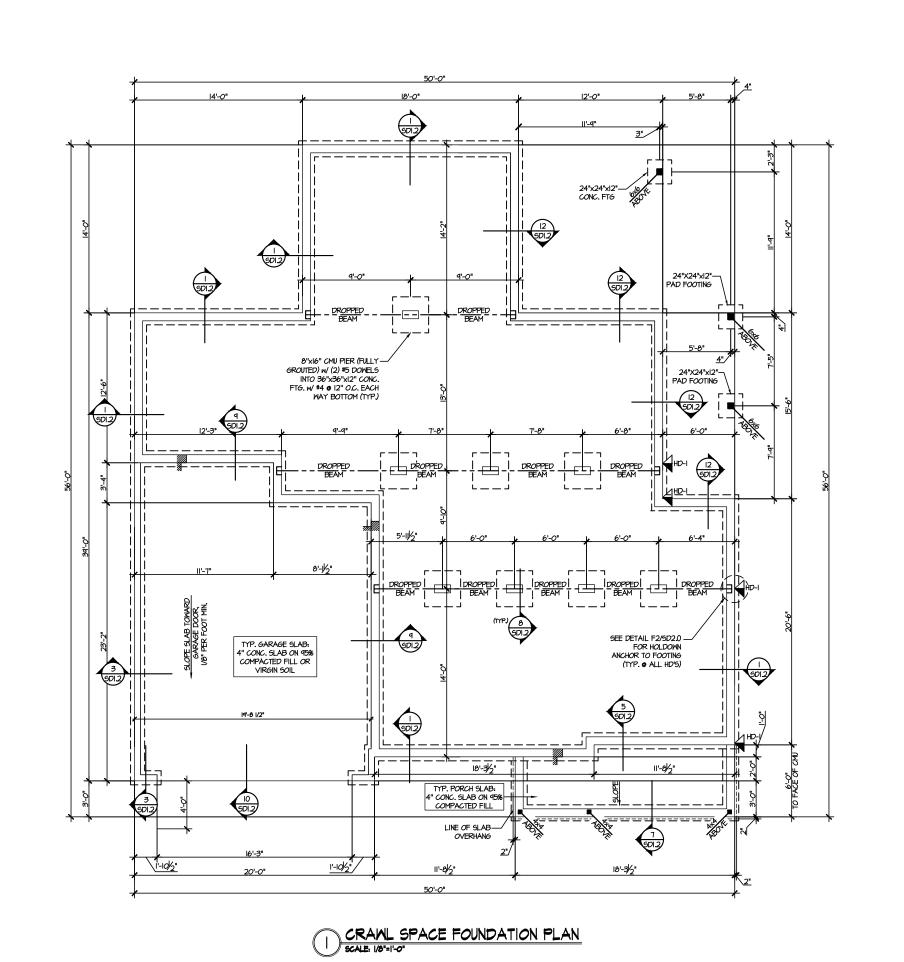
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al: 6/25/24 TH CAR SEPH T. R

MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI



M&K project number: 126-2306

JTR drawn by: SJF issue date: 06-25-24

BLAKE POND LOT 108 - STONEFIELD 1 RALEIGH, NC OUNDATION

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

• IIIIII INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE

• ---- BEAM / HEADER

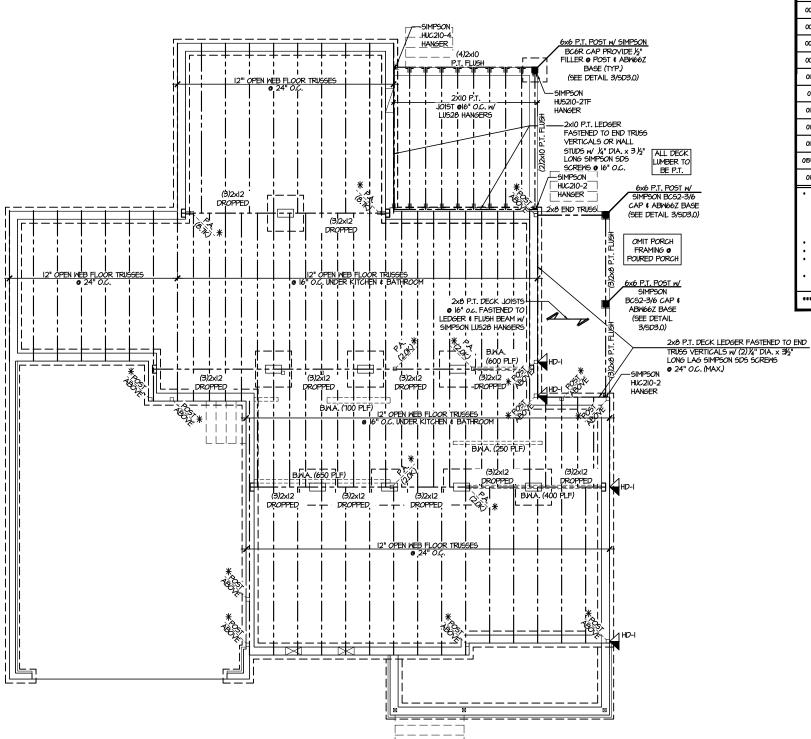
• = = INDICATES SHEAR WALL & EXTENT • EXTENT OF OVERFRAMING

JL METAL HANGER

* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

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IST FLOOR FRAMING PLAN

ENGINEERED BEAM MATERIAL SCHEDULE BEAM LVL OPTION FLITCH OPTION STEEL OPTION 2)2x12 + (1) ¾"x1¼" STEEI FLITCH PLATES - D 001 (2)13/4"x16" - D 3½"x16" - D WI2xI4 - D 🏅 (2)2x12 + (1) ¼"x1l¼" STEEL FLITCH PLATES - D 002 (2)13/4"x113/4" - D 3½"xII%" - D (3)1%"x11%" - D WI2xI4 - D (2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATES - F 003 (2)13/4"x14" - F (2)13/4"x14" - 1 WI2xI4 - F 3%"x14" - F (2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F 004 3½"xl4" - F (3)2x12 + (2) %"x114" STEEL FLITCH PLATES - 1 005 (3)13/4"x18" - FT 5¼"xl8" - FT WI2x26 - F (3)2x12 + (2) %"x114" STEEL FLITCH PLATES - 1 006 (3)13/4"x18" - FT 5½"xi8" - FT N/A WI2x26 - F (2)2x12 + (1) ¼"x11¼" STEEL FLITCH PLATES - F 001 (2)13/4"x14" - F (2)13/4"x14" - 1 3½"xl4" - F WI2xI4 - F (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - F (2)13/4"x14" - F 3½"xl4" - F (2)13/4"×14" - F WI2xI4 - F (2)2xl0 + (l)以"x4以" STEEL FLITCH PLATES - D 009 (2)154"×94" - D 3½"x94" - D (2)134"×94" - E WI0x12 - D (3)2xi2 + (2) 片"xii片" STEEL FLITCH PLATES - H 010 (2)13/4"x16" - H 36"x16" - H (3)13/4"x16" - H N/A (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - D (2)13/4 x113/4 - D 3K"xII%" - D (3)13/4"x113/4" - D WI2xI4 - D (3)2xl2 + (2) ½"xll½" STEEL FLITCH PLATES - D 012 (3)13/4"x16" - D W12x14 - D 5¼"x16" - D (2)2xl2 + (l) ¼"xll¼" STEEL FLITCH PLATES - D 013 (2)13/4"×113/6" - D **3½"**xII**%"** - D (3)134"x1136" - D WI2xI4 - D (3)2x12 + (2) %"x1K" STEE FLITCH PLATES - D (2)13/4"x16" - D (3)13/4"x16" - D WI2xI4 - D 35"x16" - D (3)2x12 + (2) ¼"x11¼" STEEL FLITCH PLATES - D (3)1¾"x11¾" - D N/A (3)134"x1136" - D WI2xI4 - D (3)134"x1136" - F (2)134"x1136" - F 3½"xII%" - F WI2xI4 - F

BEAM NOTATION:
- "F" INDICATES FLUSH BEAM
- "FT" INDICATES FLUSH TOP BEAM

- "FB" INDICATES FLUSH BOTTOM BEAM

- "D" INDICATES DROPPED BEAM
- "H" INDICATES DROPPED OPENING HEADER

REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS
FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W/(2) 3"X0.120" NAILS @ 8" O.C.

FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS • 8" O.C.

*** - SEE PLAN FOR EXTENT OF 3-PLY BEAM

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LEGEND

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- ■ INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

6/25/24 W. H. H. CAR SEPH T. R

MULHERN+KUL RESIDENTIAL STRUCTURAL ENSINEERI



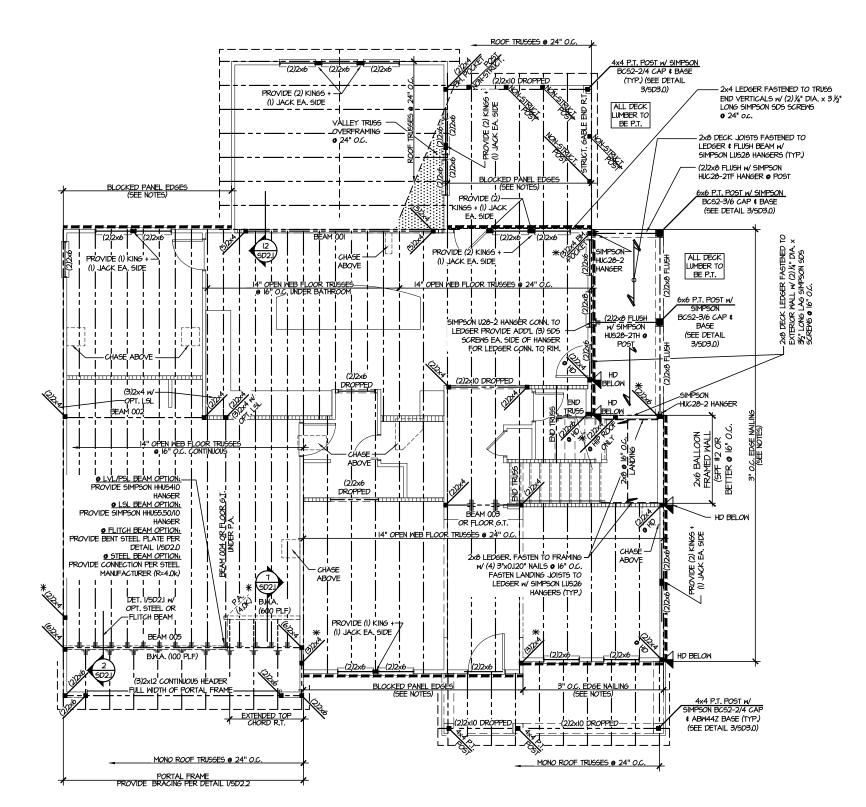
1&K project number: 126-23061

JTR frawn by: issue date: 06-25-2

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POND AKE OR BLAKE LOT 108 - S RALEIGH, 1



2ND FLOOR FRAMING PLAN

ENGINEERED BEAM MATERIAL SCHEDULE MERR LVL OPTION FLITCH OPTION STEEL OPTION 2)2x12 + (1) ¾"x1¼" STEEI FLITCH PLATES - D 001 (2)13/4"x16" - D 3½"x16" - D WI2xI4 - D (2)2x12 + (1) ¼"x1l¼" STEEL FLITCH PLATES - D 002 (2)13/4"x113/4" - D 3½"xII%" - D (3)15%"x117%" - D WI2xI4 - D 003 (2)2x12 + (1) ¼"x11¼" STEEL FLITCH PLATES - F (2)13/4"x14" - F (2)13/4"x14" - 1 3%"x|4" - F WI2xI4 - F (2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F 3½"x|4" - F (3)2xi2 + (2) ¾"xil¼" STEEL FLITCH PLATES -005 (3)13/4"x18" - FT 5¼"xl8" - FT WI2x26 - F (3)2x12 + (2) %"x114" STEEL FLITCH PLATES - 1 006 (3)13/4"x18" - FT 5½"xi8" - FT N/A WI2x26 - F (2)2xi2 + (I)从"xii以" STEEL FLITCH PLATES - F 001 (2)13/4"x14" - F (2)13/4"x14" -3½"x|4" - F WI2xI4 - F (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - F (2)134"x14" - F 3½"xl4" - F (2)13/4"×14" - 1 WI2xI4 - F (2)2x10 + (1) ¼"x4¼" STEEL FLITCH PLATES - D 009 (2)154"×94" - D 3½"x94" - D (2)13/4"×9/4" - E WI0x12 - D (3)2xl2 + (2) 片"xlK" STEEL FLITCH PLATES - H 010 (2)13/4"x16" - H 36"x16" - H (3)13/4"x16" - 1 N/A (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - D (2)13/4 x113/4 - D 36"xII%" - D (3)13/4"x113/4" - D WI2xI4 - D 3)2xi2 + (2) 火"xil以" STEEI FLITCH PLATES - D 012 (3)134"x16" - D 5¼"x16" - D W12x19 - D (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - D 013 (2)13/4"×113/6" - D **3½"**xII**%"** - D (3)1¾"x11%" - [WI2xI4 - D 3)2x12 + (2) %"x114" STEE FLITCH PLATES - D (2)13/4"x16" - D (3)13/4"x16" - D 35"x16" - D WI2xI4 - D (3)2xl2 + (2) ¼"xll¼" Steel Flitch Plates - D (3)|¾"x||¾" - D (3)134"x1136" - E WI2xI4 - D (2)134"x1136" - F 3½"xII%" - F (3)134"x1136" - F WI2xI4 - F

BEAM NOTATION:
- "F" INDICATES FLUSH BEAM
- "FT" INDICATES FLUSH TOP BEAM

- "FB" INDICATES FLUSH BOTTOM BEAM

- "D" INDICATES DROPPED BEAM
- "H" INDICATES DROPPED OPENING HEADER

REFER TO DETAIL DISD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS

REFER TO DETAIL E/5920 FOR TYPICAL STEEL BEAM CONNECTIONS FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN

PLATES IN SUCCESSION W/(2) 3"X0.120" NAILS @ 8" O.C.

FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"XO.120" NAILS • 8" O.C.

*** - SEE PLAN FOR EXTENT OF 3-PLY BEAM

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LEGEND

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- ■ INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING

JL METAL HANGER

* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

INDICATES HOLD-DOWN OR STRAP.
REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

6/25/24 CAR 0 SEPH T. R

MULHERN+KUL RESIDENTIAL STRUCTURAL ENSINEERI



l&K project number 126-2306

JTR rawn bv: ssue date: 06-25-2

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POND AKE BLAKE LOT 108 - S RALEIGH, 1 Ō

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MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI

M&K project number: 126-23061

JTR drawn by: SJF issue date: 06-25-24

REVISIONS:

initial:

FRAMING

LEGEND

• == INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

* INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

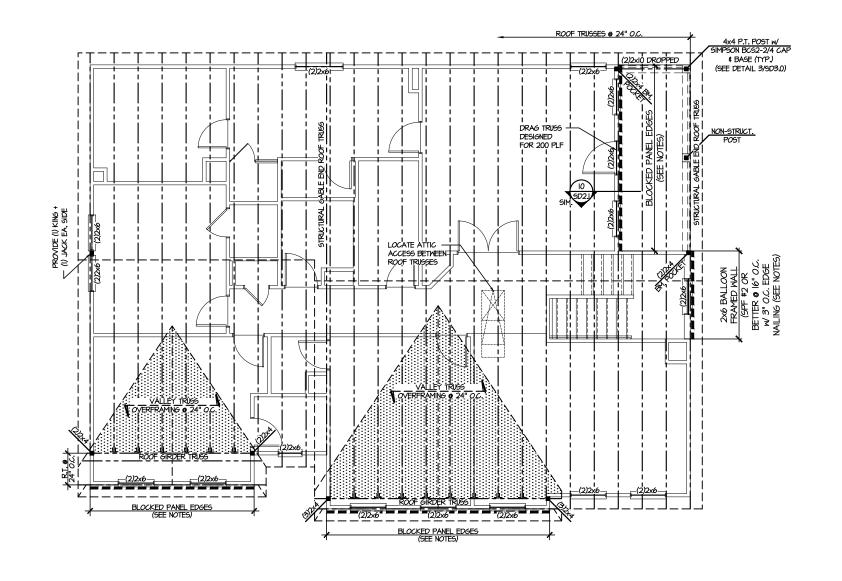
INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

INTERIOR BEARING WALL

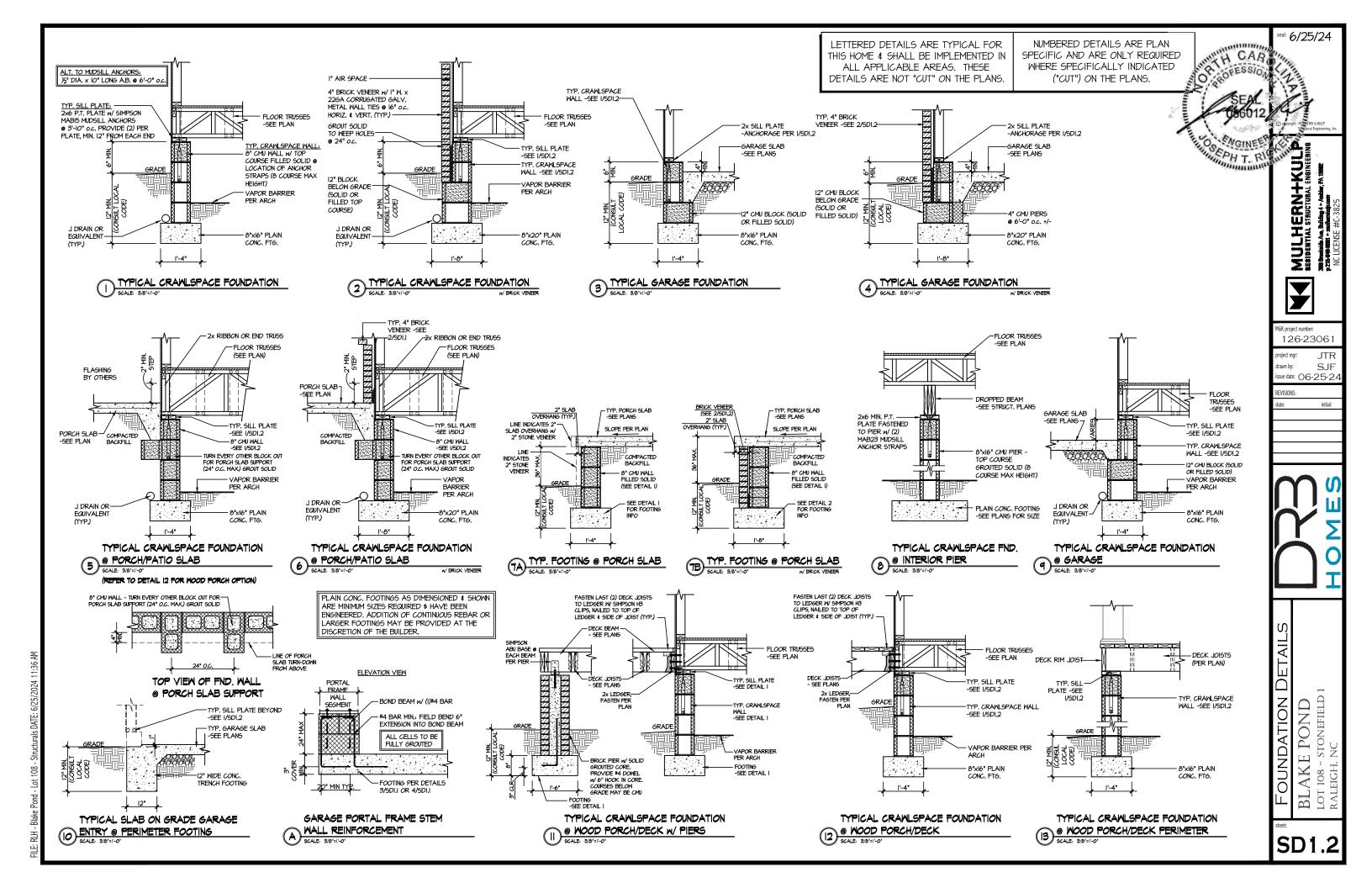
● □===□ BEARING WALL ABOVE BEAM / HEADER

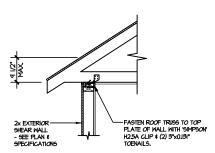
JL METAL HANGER

BLAKE POND Lot 108 - Stonefield 1 Raleigh, nc ROOF





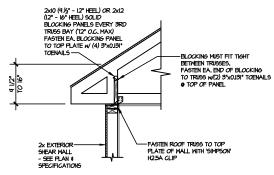




TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 3/8'=1'-0' HEEL HEIGHT LESS THAN HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D



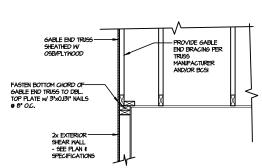
TYPICAL SHEAR

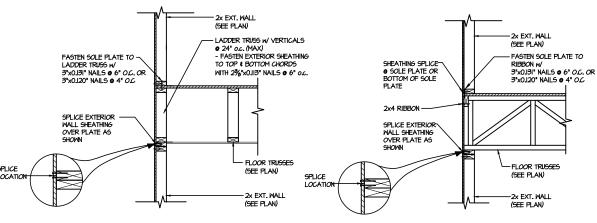
TRANSFER DETAIL @ ROOF

SCALE: 9/8'=1-0' HEEL HEIGHT BETWEEN 4) HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D



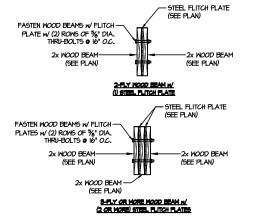
2x BLK'G TO FIT TIGHT IN FA.



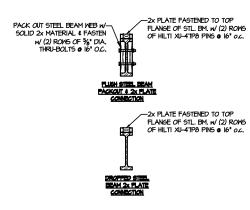


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE 300'10' PARALLE FROM





TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 344-1-07



TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 9/4"-1"-0"

6/25/24

MULHERN+KUL

M&K project number:

roject mgr:

frawn by:

REVISIONS

126-2306

issue date: 06-25-2

JTR

SJF

initial:

THE CAP

SEPH T. R

AKE POND

RAMING BLAKE LOT 108 - 5 RALEIGH, 1

SD2.0

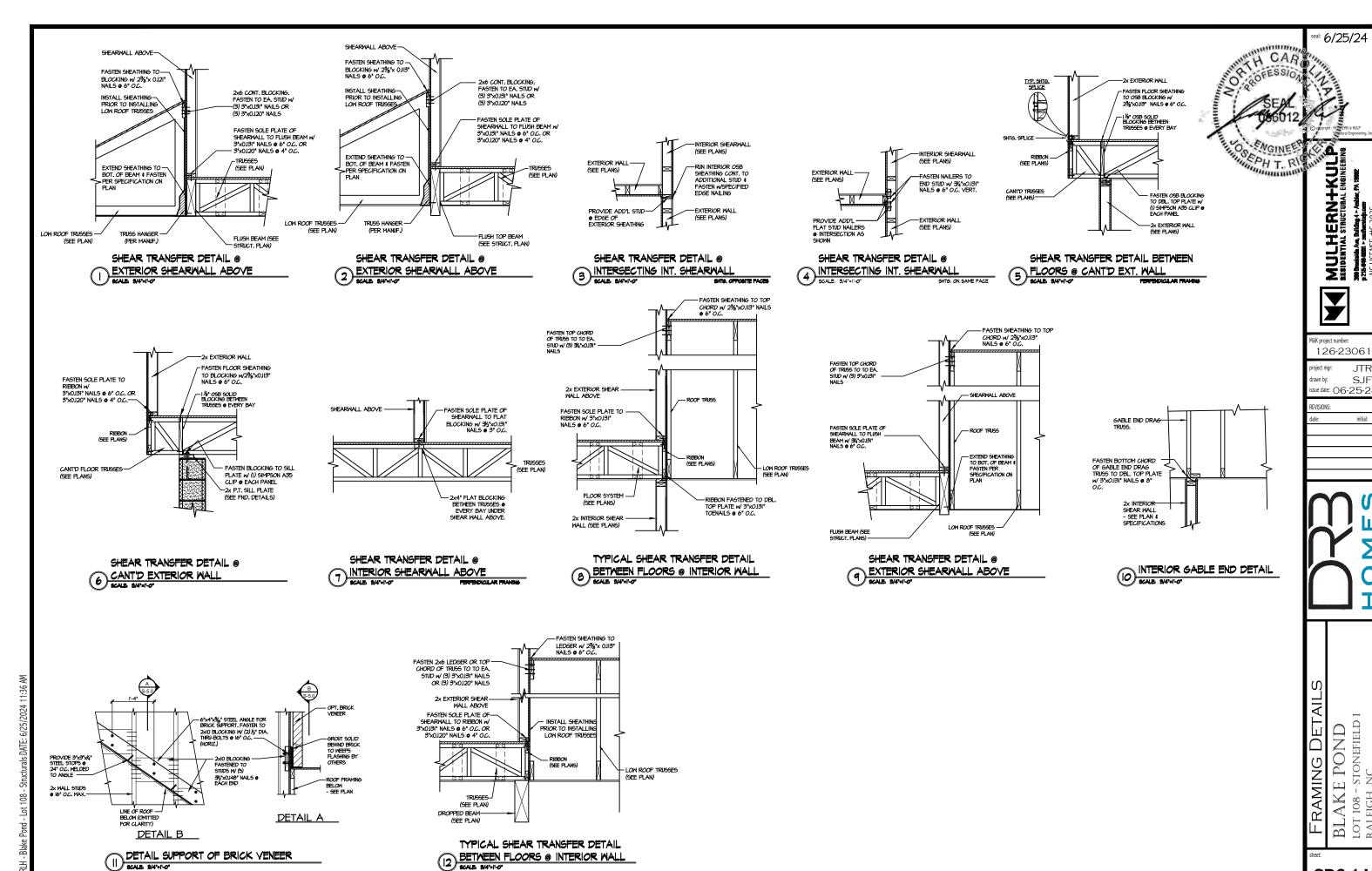
LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

· 2x Bl.K'6 IN EA. TRUSS BAY FASTENED TO DBL TOP PLATE w/ (3) 3*x0.131* NAILS. -Fasten Roof truss to top Plate of Wall With 'SIMPSON' H25A CLIP & (2) 3"X0J3I" TOENAILS. 2x Exterior — Shear Wall - See Plan & Specifications TYPICAL SHEAR TRANSFER

TRUSS BAY FASTENED TO TRUSS W/(2) 3"X0,131" TOENAILS @ EA. END. - OSB/PLYWOOD SHEATHING UP VERTICALS OF ROOF TRUSSES, & FASTEN W/ 45°

TYPICAL GABLE END DETAIL SOLLE SIDE STATE

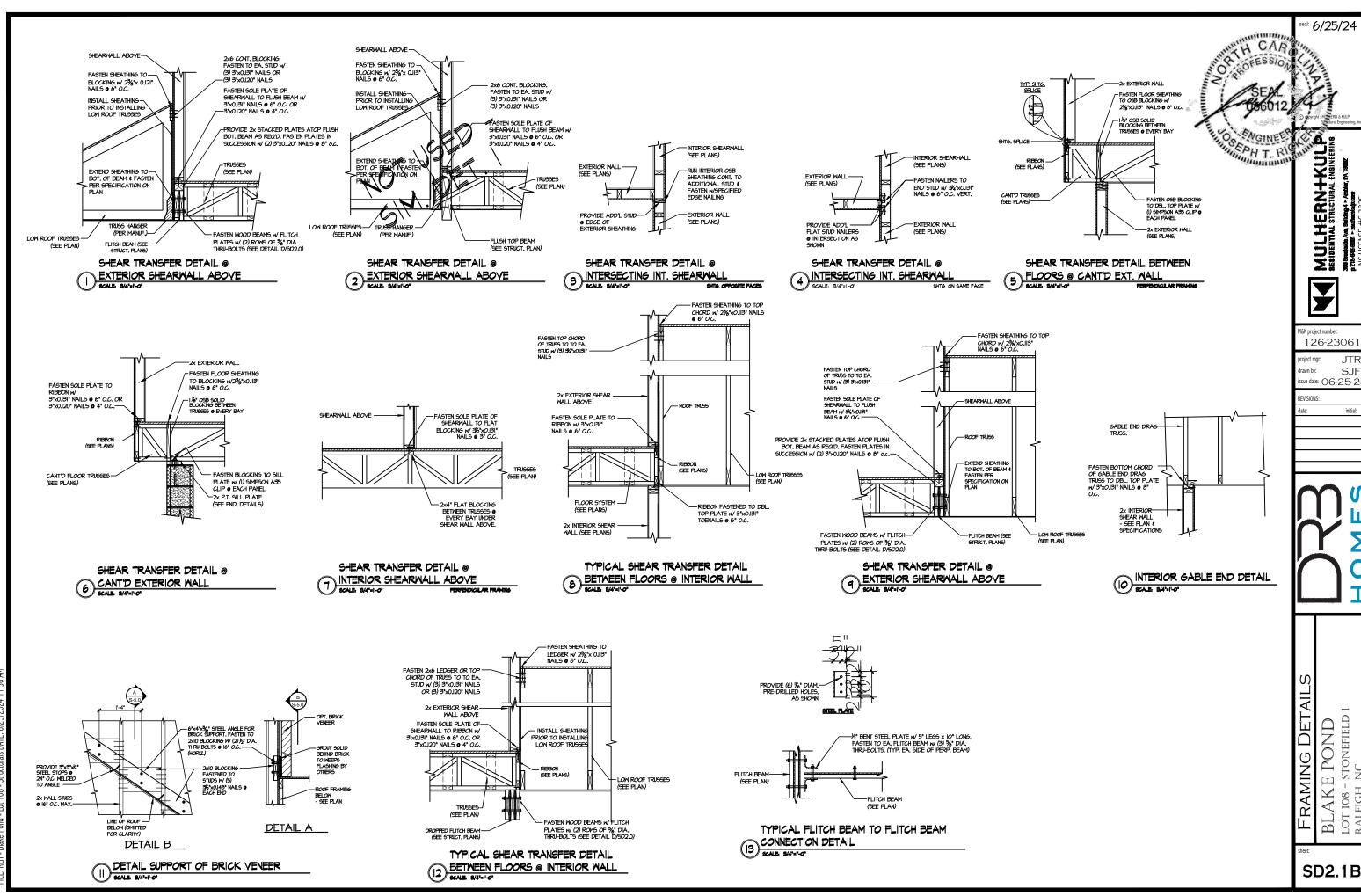


AKE BL

JTR

initial:

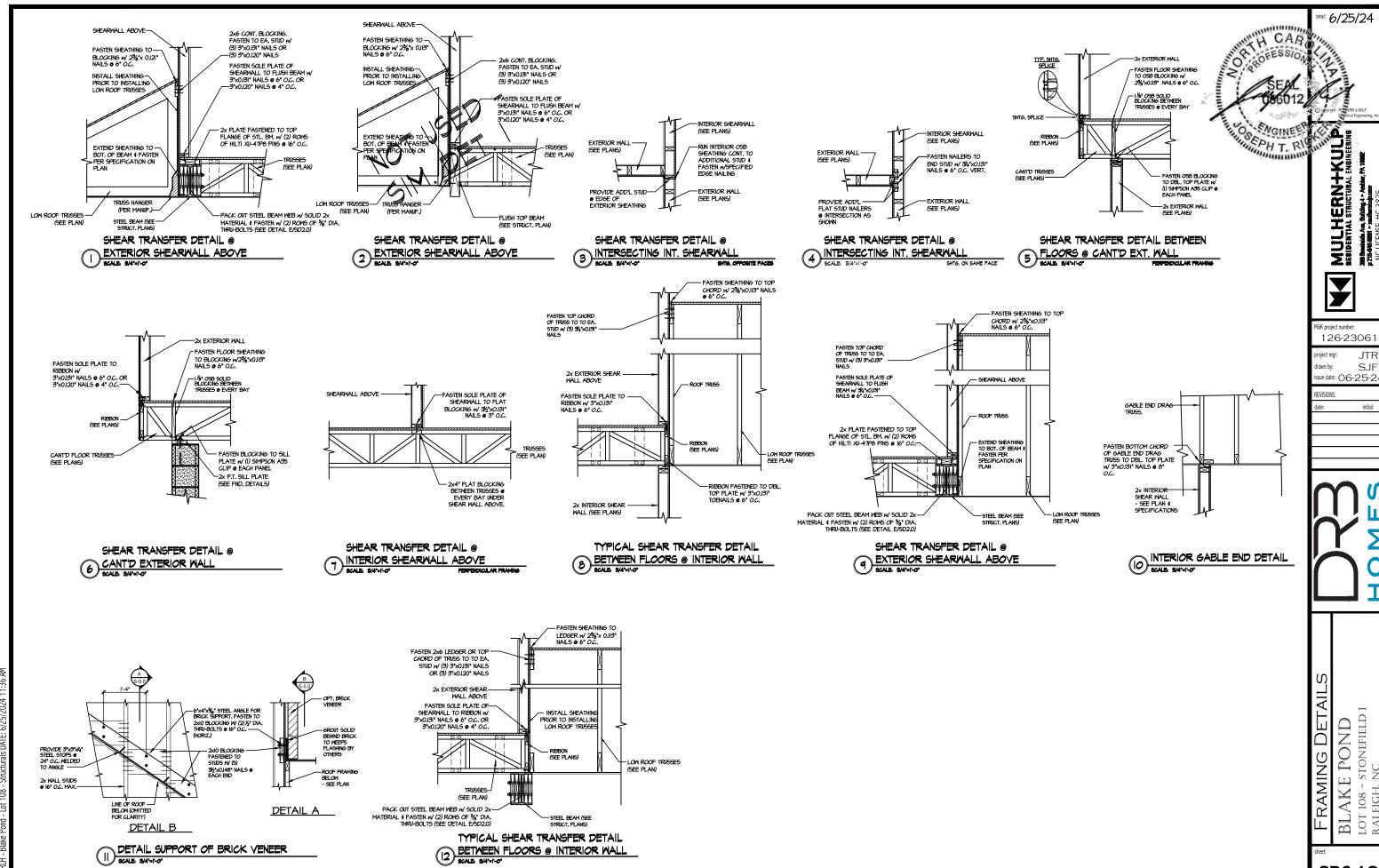
SD2.1A



SD2.1B

JTR

initial:

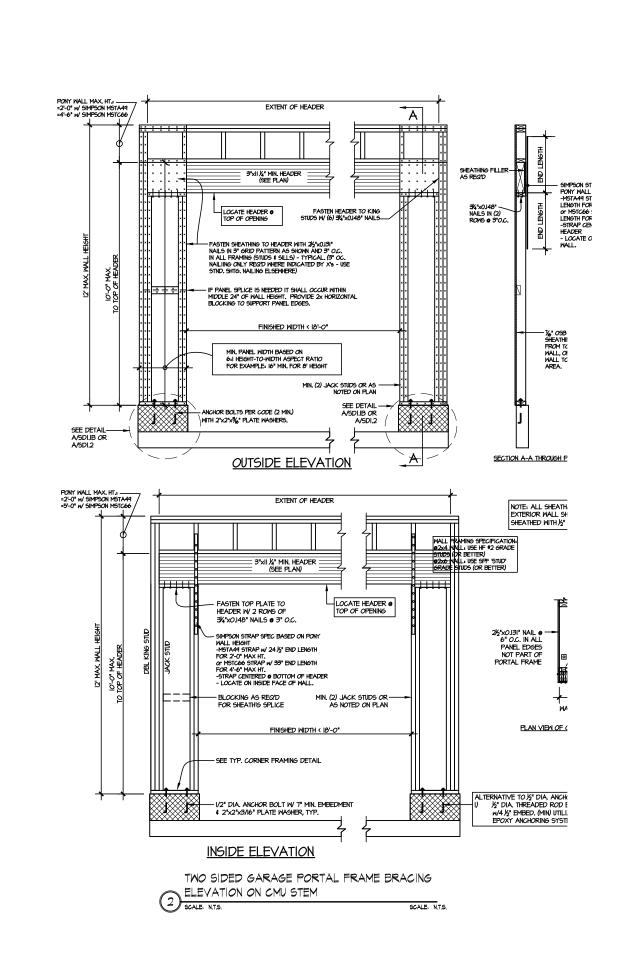


AKE BL

JTR

initial:

SD2.1C



MULHERNAL ENGINEERING

SESTIONAL STRUCTURAL ENGINEERING

SESTIONAL STRUCTURAL ENGINEERING

PERSONAL AND STRUCTURAL ENGINEERING

PERSONAL ENG

Y

M&K project number: 126-23061

project mgr: JTR drawn by: SJF issue date: 06-25-24

REVISIONS:

date: initial:

∭ N

HOMES

FRAMING DETAILS
BLAKE POND
LOT 108 - STONEFIELD 1
RALEIGH, NC

SD2.2



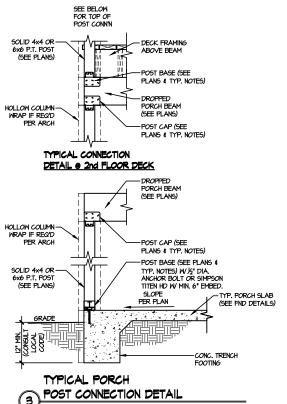


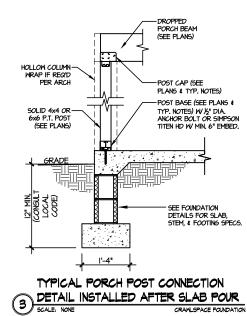
JTR

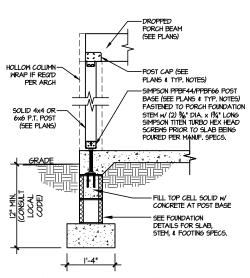
SJF

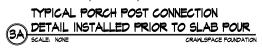
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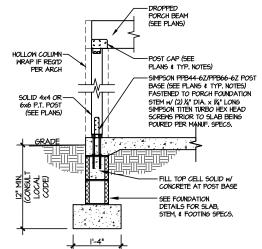










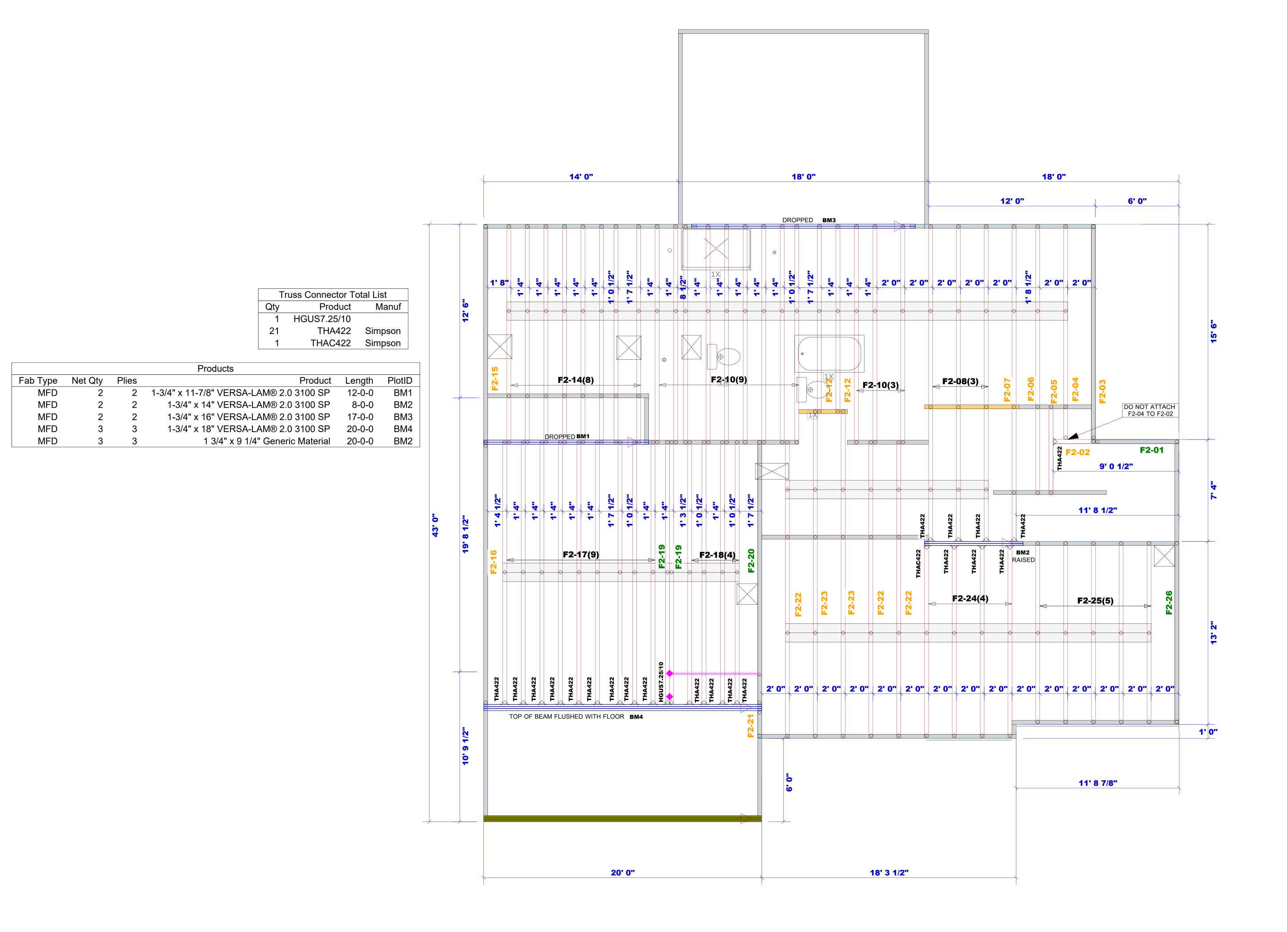


TYPICAL PORCH POST CONNECTION BETAIL INSTALLED PRIOR TO SLAB POUR
SCALE NONE

3 POST CONNECTION DETAIL SU

RAMING DET

SD3.0



Client: DRB GROUP-RALEIGH

Job: LOT 0.0108 BLAKE POND

Plan Information:

STONEFIELD-1

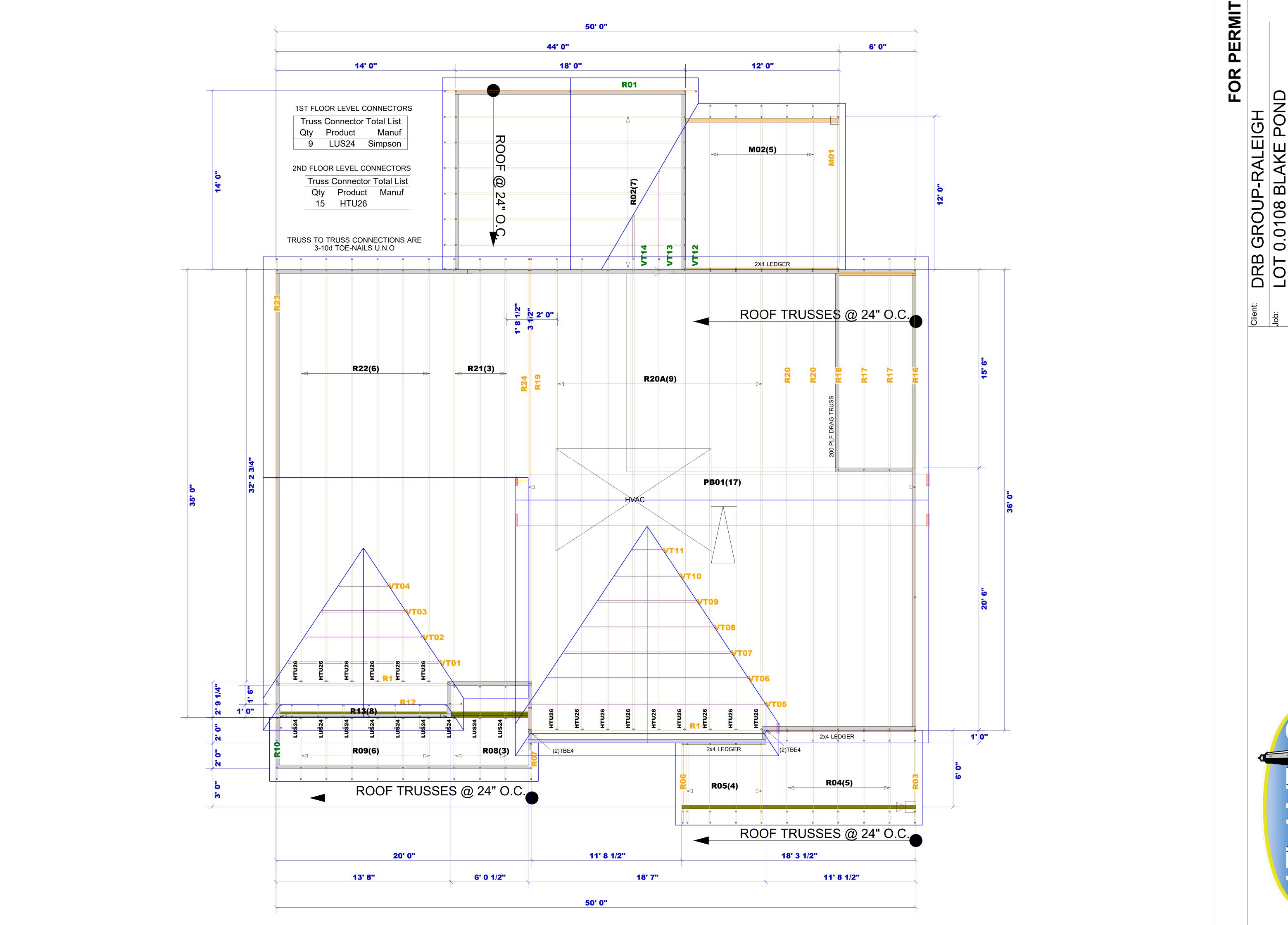
NOT TO SCALE

Drawn By:

Drawn By:

Sales Rep: KYLE GIBSON
24-5444-F02 Phone: 843-729-3249





Client: DRB GROUP-RALEIGH

Job: LOT 0.0108 BLAKE POND
Plan Information:

STONEFIELD-1

NOT TO SCALE

NOT TO SCALE

Drawn By:
BPT

Pages Rep: KYLE GIBSON
24-5444-R01 Phone: 843-729-3249

ROOF



