# DRAYTON-RALE

RALEIGH - LOT 00.0052 THE FARM AT NEILL'S CREEK

(MODEL# 2695)

ELEVATION 4.1 - GL

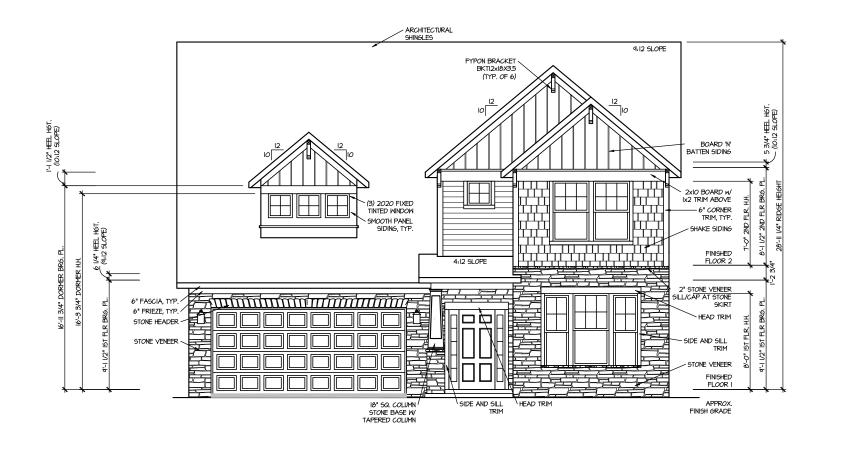
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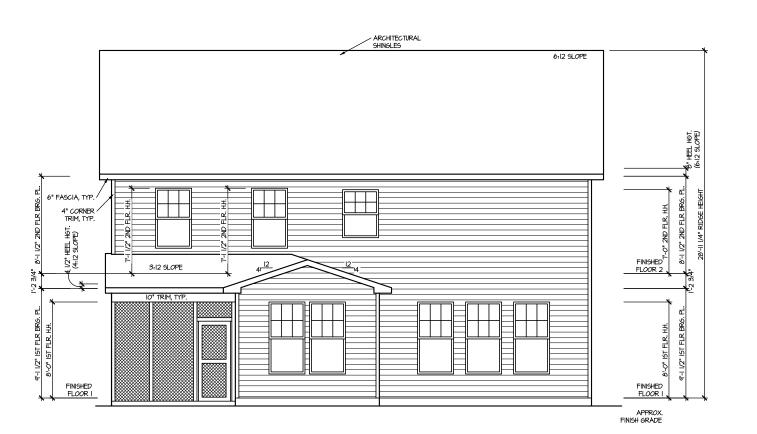
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П	<u>AREA CALCULATIONS</u>			
		LIEATED	COVERED / UNHEATED	LINIOOV/EDED
	ELEVATION 4.1	HEATED	UNHEATED	UNCOVERED
	FIRST FLOOR	1266 SF		
	GARAGE		547 SF	
	FRONT PORCH - ELEVATION 4.1		54 SF	
	SECOND FLOOR	1491 SF		
	OPTIONS			
		+120 SF	+103 SF	
	EXTENDED BREAKFAST W/ SCREENED PORCH	+120 SF	+103 SF	
	TOTAL	2877 SF	704 SF	
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# 606 Winding Creek Drive

LOT SPECIFIC			
1	LOT 00.0052		
	DRAYTON REV. RALE 2 ELEVATION 4.1		
2	ADDRESS	606 WINDING CREEK DR LILLINGTON, NC 27546	
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FRONT ELEVATION 4.1



REAR ELEVATION 4.1

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



DRAWN BY:
ITS

DATE:
10/17/2025

PLAN NO.
2695



TREAR ELEVATIONS

HOUSE NAME:
DRAYTON
DRAWING TITLE
FRONT & REA



RIGHT ELEVATION 4.1 SCALE: 1/8" = 1'-0"



LEFT ELEVATION 4.1
SCALE: 1/6" = 1'-0"

DRAWN BY: DATE: 10/17/2025 PLAN NO. 2695



ELEVATIONS

HOUSE NAME:
DRAYTON
DRAWING TITLE
RIGHT & LEFT

**ROOF VENTILATION CALCULATIONS:** 

ROOF AREA = 1836 5Q, FT.

OVERALL REQUIRED VENTILATION:

1 TO 150 = 12.24 5Q, FT.

1 TO 300 = 6.12 5Q, FT.

50-80% IN TOP THIRD = 3.06-4.90 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 RD5)

77 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 3.05 SQ. FT.

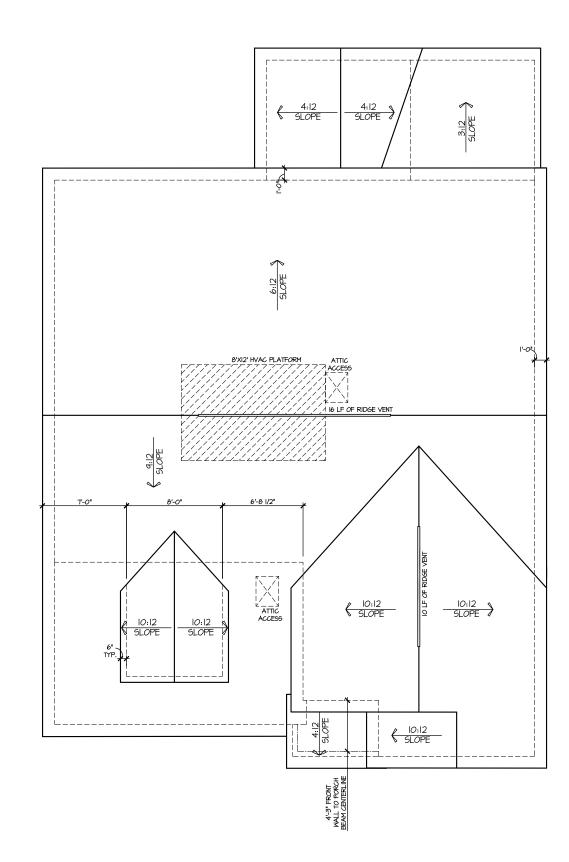
UPPER YENTING: (TOP 1/3 RD)

26 LINEAR FEET OF RIDGE X 18 SQ. IN = 3.25 SQ. FT.

3.25 SQ. FT. BETWEEN 50% - 80%

(1 TO 300 ALLONED)

TOTAL ROOF VENTILATION: 6.30 SQ. FT. > 6.12 SQ. FT. (RQ'D)



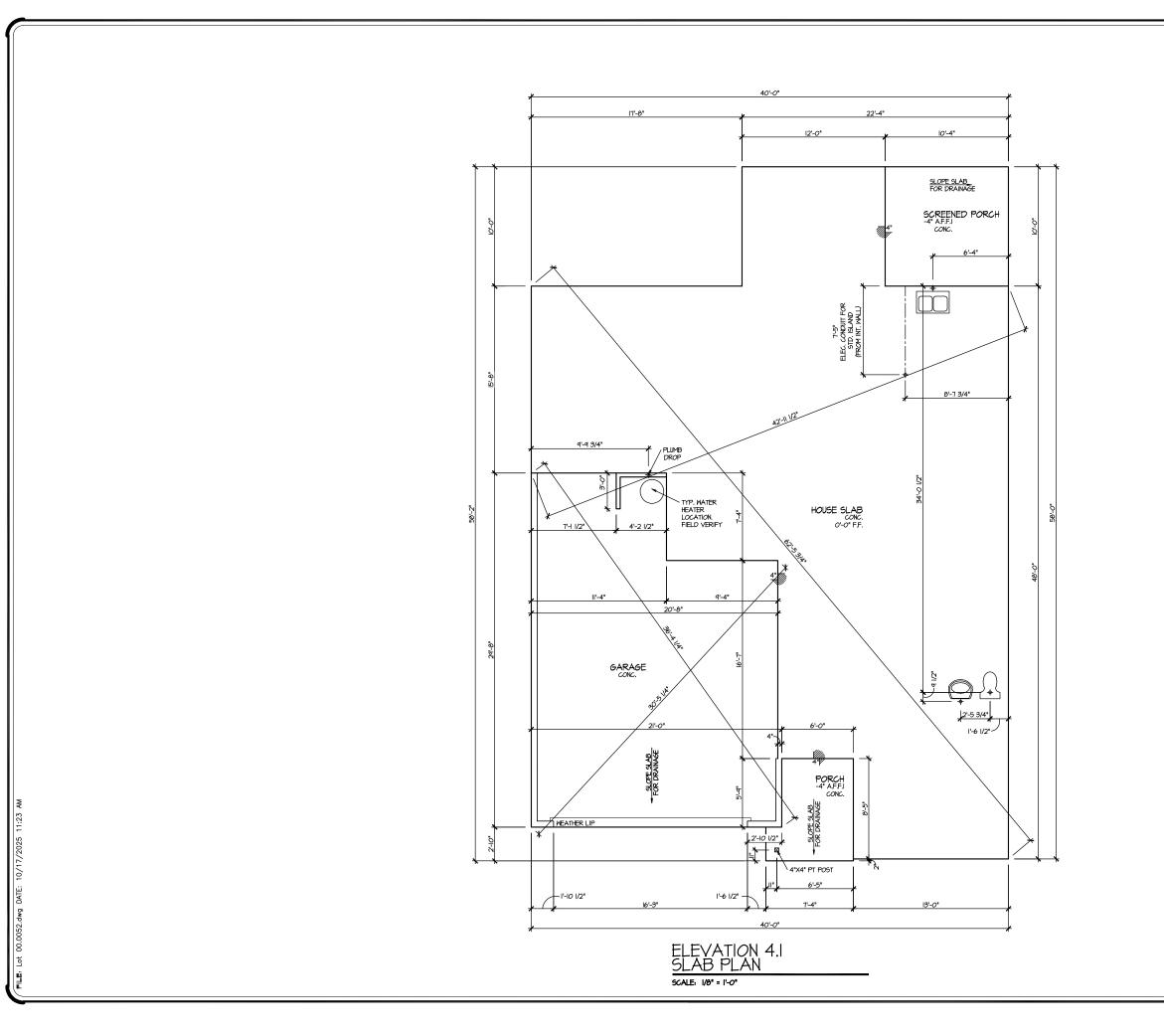
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DATE: 10/17/2025 PLAN NO. 2695



HOUSE NAME:
DRAYTON
DRAWING TITLE
ROOF PLAN

SHEET No. AI.3



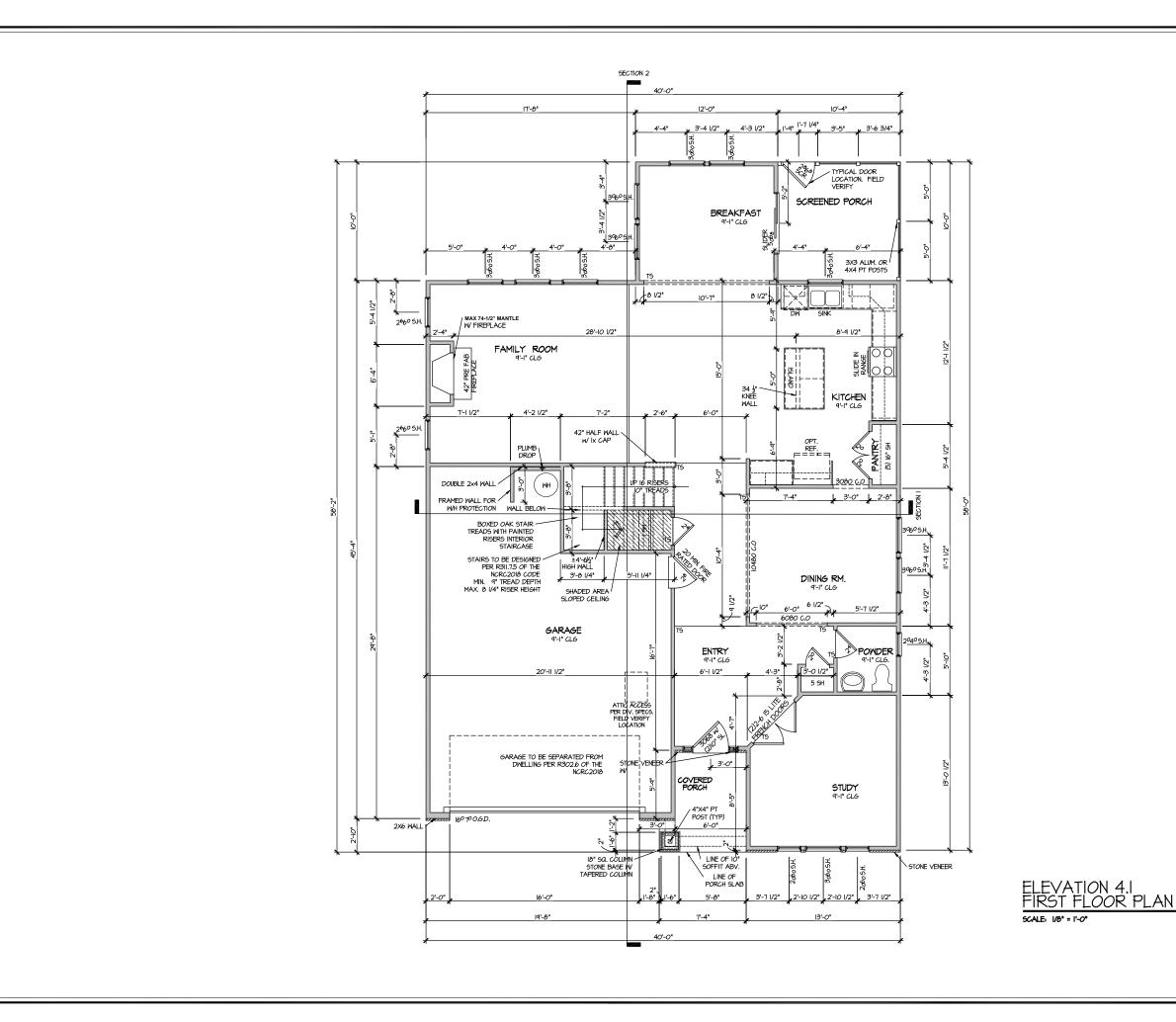
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DATE: 10/17/2025 PLAN NO. 2695



HOUSE NAME:
DRAYTON
DRAWING TITLE
SLAB PLAN

SHEET No. A2.1



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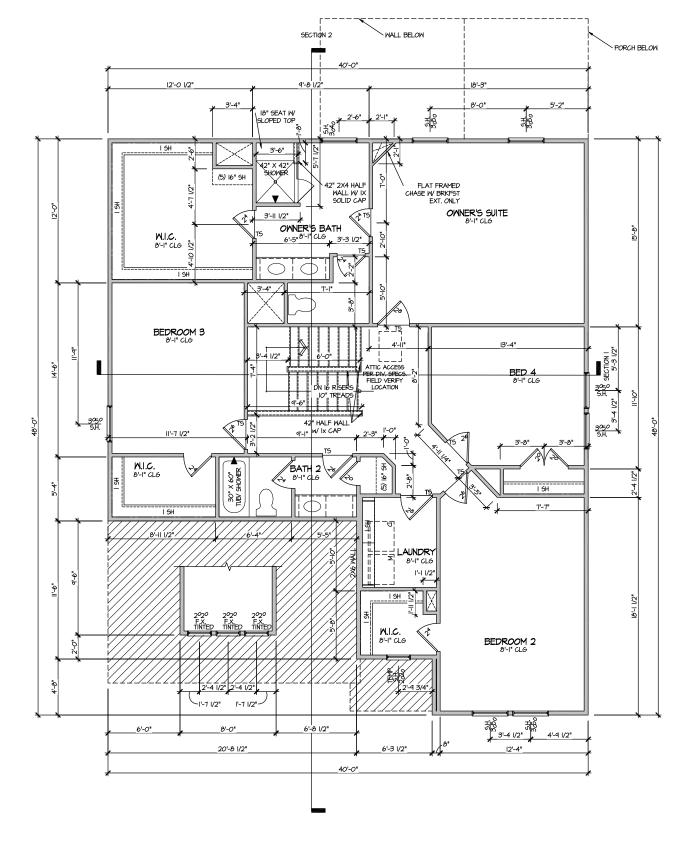
PLAN NO. 2695



HOUSE NAME:
DRAYTON
DRAWING TITLE
FIRST FLOOF

SHEET No.

A3.



ELEVATION 4.1 SECOND FLOOR PLAN SCALE: 100" = 11-0" m D

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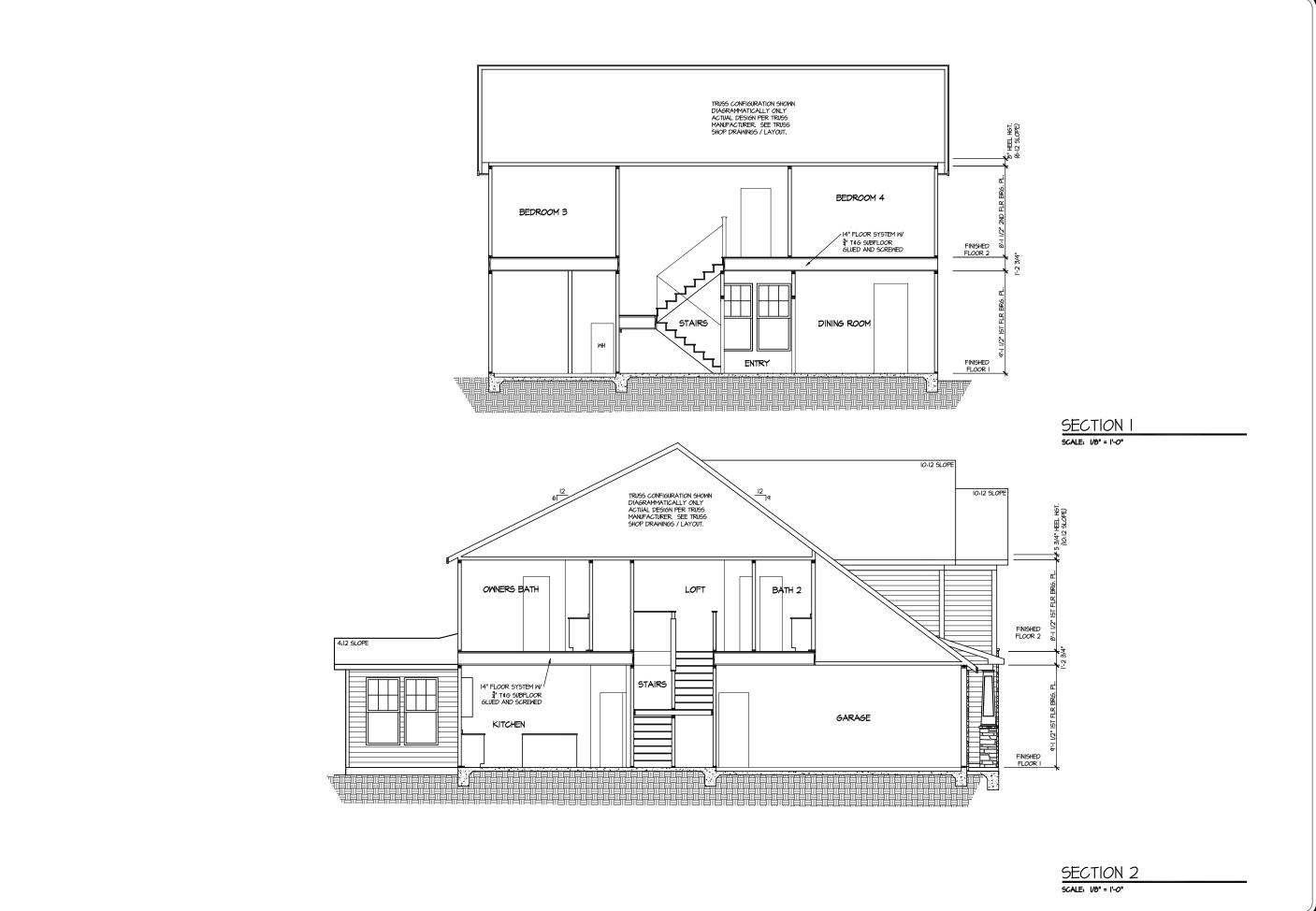
DATE: 10/17/2025 PLAN NO. 2695

HOUSE NAME:

DRAYTON

DRAWING TITLE

SECOND FLOOR PLAN



DATE

03-06-2019

DRAWN BY: DATE: 10/17/2025 PLAN NO. 2695

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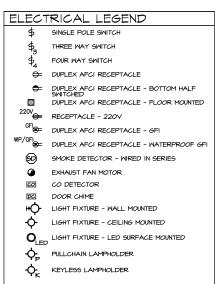
HOUSE NAME:

DRAYTON

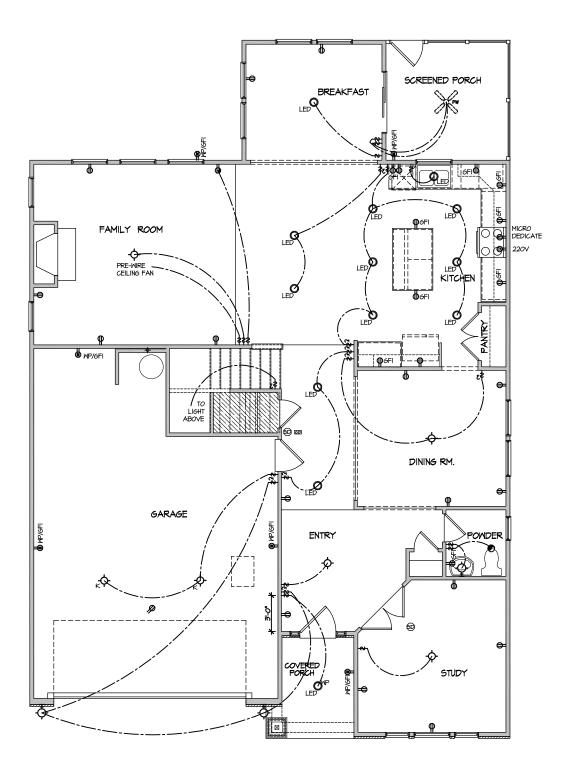
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BUILDING SEC

SHEET No. A4.1



NOTE. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL RESULATIONS.



ELECTRICAL PLAN FIRST FLOOR - ELEV. 4.I SCALE: 1/8" = 1'-0"

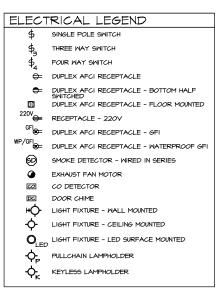
SHEET No.

HOUSE NAME:
DRAYTON
DRAWING TITLE
FIRST FLOOR

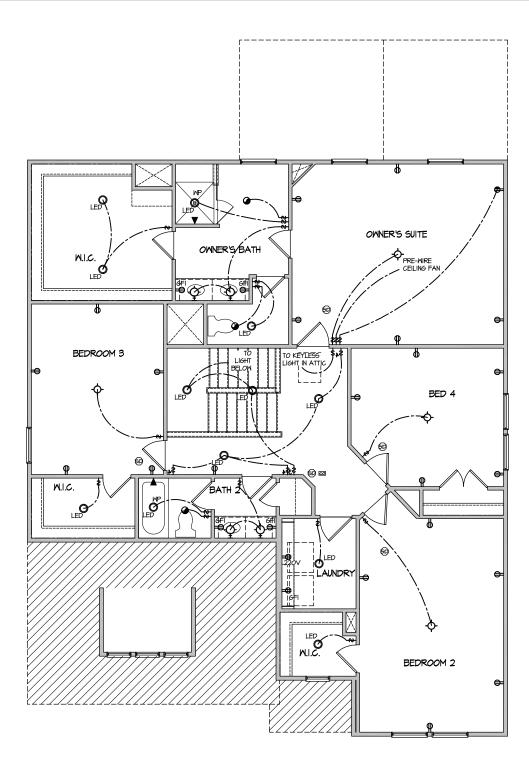
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DATE: 10/17/2025 PLAN NO. 2695

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NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADDPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL PONER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



ELECTRICAL PLAN SECOND FLOOR - ELEV. 4.1 SCALE: 1/8" = 1'-0"

" FILE: Lot 00.0052.dwg DATE: 10/17/2025 11:23 AM

HOUSE NAME:

DRAYTON

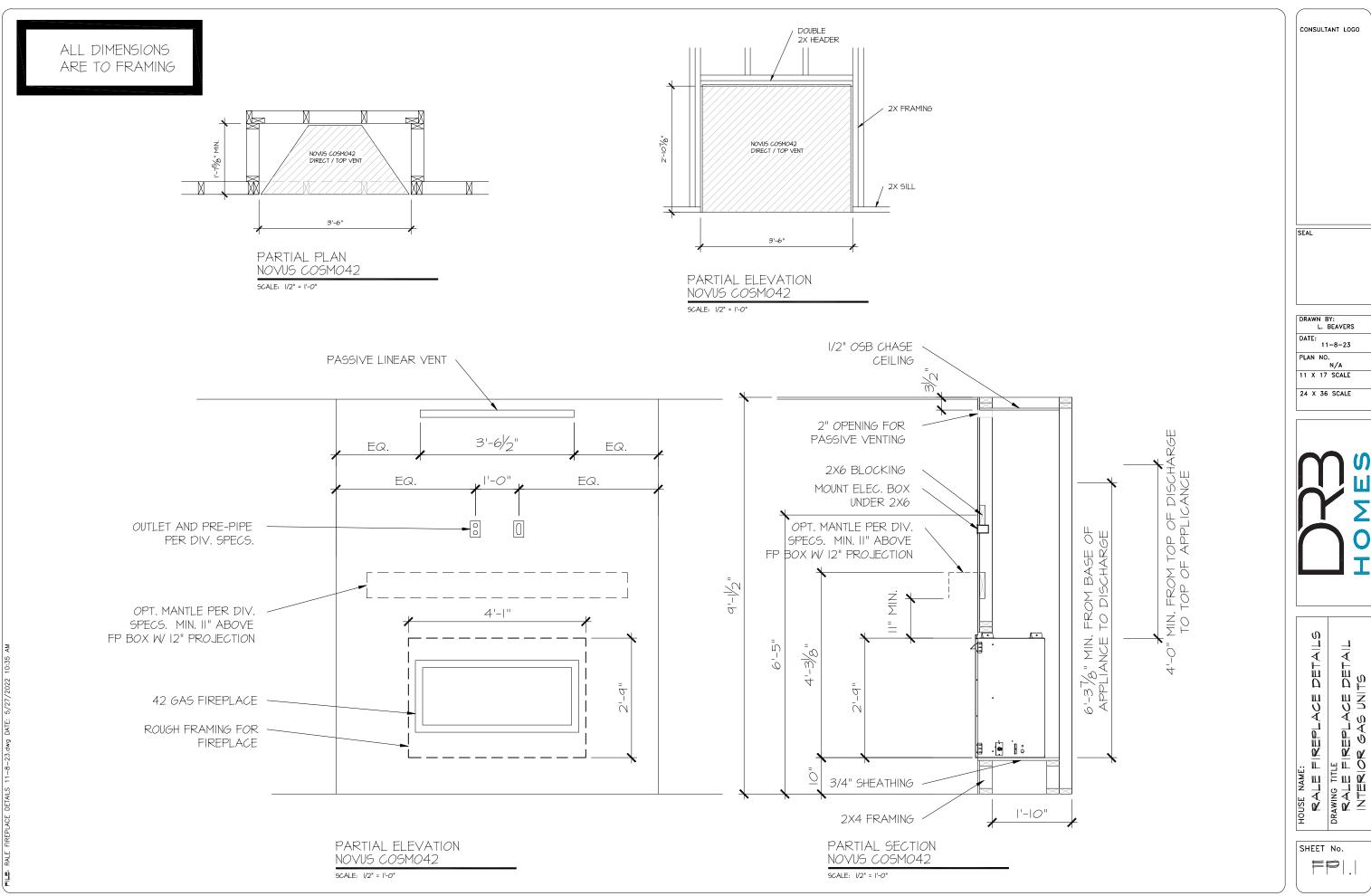
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SECOND FLOOR ELECTRICAL

SHEET No.

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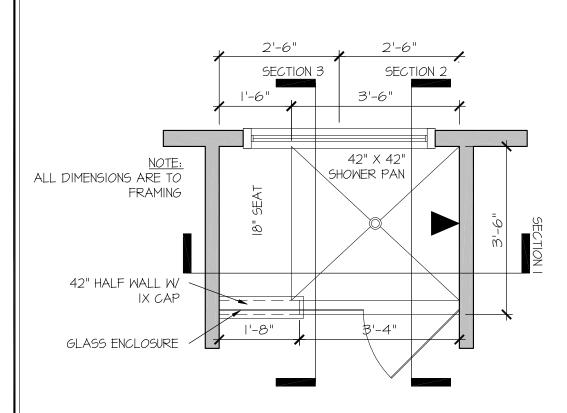
DATE: 10/17/2025 PLAN NO. 2695



CONSULTANT LOGO

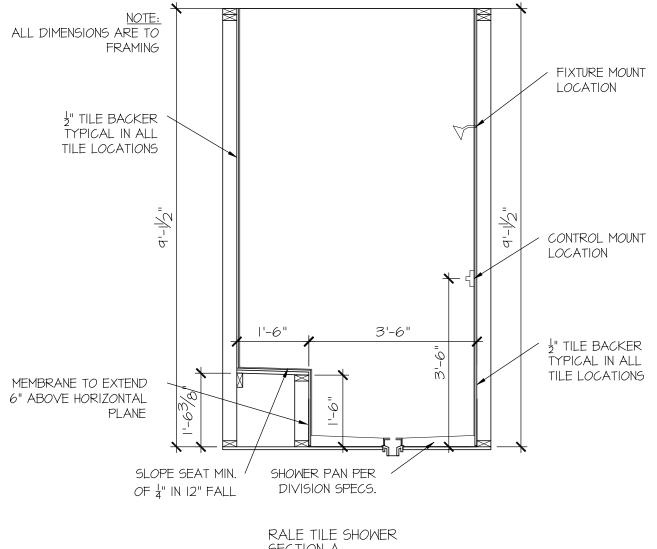
DRAWN BY: L. BEAVERS DATE: 11-8-23 PLAN NO. 11 X 17 SCALE





RALE TILE SHOWER 42" X 42" W 18" SEAT

SCALE: 1/2" = 1'-0"



SECTION A

SCALE: 1/2" = 1'-0"

CONSULTANT LOGO

DRAWN BY: L. BEAVERS DATE: 9/1/22 PLAN NO.

11 X 17 SCALE

24 X 36 SCALE



DETAIL SHOWER RALE



SEAL

DRAWN BY:
L. BEAVERS
DATE: 9/1/22

PLAN NO.

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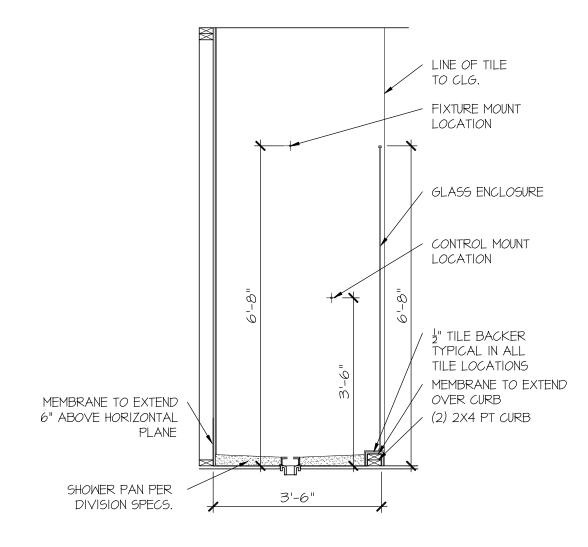
24 X 36 SCALE



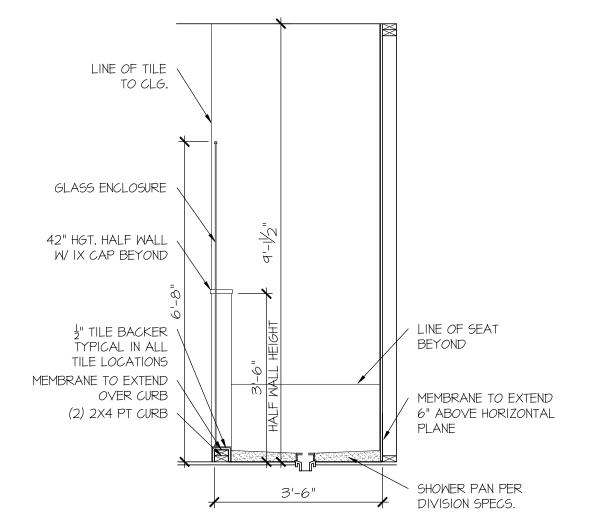
SHOWER DETAIL

RAWING TITLE

SHEET No.



RALE TILE SHOWER
SECTION B
SCALE: 1/2" = 1'-0"



RALE TILE SHOWER SECTION C

SCALE: 1/2" = 1'-0"

WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

**ROOF** 

SOIL

DEAD = 1 PSF T.C., IO PSF B.C. LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) (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" OC (MAX. UNO) . HEADERS IN NON-LOAD BEARING WALLS SHALL BE: (I)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
- "LSL" Fb=2325 psi: Fv=3I0 psi: E=L55xI0^6 psi • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0xl0^6 psi
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XI0^6 PSI
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO MH 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" $\times$ 0.120" NAILS @ 8" O/C OR 2 ROWS %" $\times$ 3%" SIMPSON SDS SCREWS (OR 3%" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCAT TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/2" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF  $\mbox{\it k}^{*}$ "x6" SIMPSON SDS SCREWS (OR 6  $\mbox{\it k}^{*}$ " 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 STILD MINIMIM
- 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 BCS2-2/4 CAP & ABW44Z BASE, U.N.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 M&K FOR MARBLE FLOOR DESIGNS AT I-JOIST FLOORS, PROVIDE I 1/8" 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 8 × 0.120 NAILS 4 O.C. PANEL EDGES € 8 O.C. FIELD. 2 3" × O II3" NAII S @ 3" O C @ PANEL EDGES & @ 6" O C IN FIELD
- #6 x 2" MIN. SCREMS @ 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) H2.51 CLIPS AT 2-PLY GIRDER TRUSSES (3) H25T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.C
- 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 (U.N.O.) FASTENED TO:
  - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-,1015TS) - 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" × 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"o.c. @ PANEL EDGES \$ @ 6" O.C. FIELD.

#### HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN * (%" DIA. ANCHOR)
HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) -OR- MSTC66B3 ALTERNATE
► HD-3	SIMPSON STHDI4/STHDI4RJ

\* <u>UTILIZE THE 95TB24 ANCHOR BOLT</u> • ALL MONOSLAB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS, MINIMUM 24\* MIN. COTING THICKNESS REQUIRED

EPOXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB ONDITIONS ONLY. UTILIZE SIMPSON SET' EPOXY SYSTEM TO FAST THREADED ROD INTO CONCRETE FOUNDATION, PROVIDE 10" (FOR 5/8" DIA.) OR 15" (FOR 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. INSTRUCTIONS, MINIMUM 16" FOOTING THICKNESS REQ'D.

## DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF CONCRETE.

#### LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 0 MPH WIND IN 2018 NCSBC:RC

(120 MPH WIND SPEED IN ASCE 7-10 WIND MAP. PER IRC R301.21.1) 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 NCSBC-RC OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY. CCORDINGLY, 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 R60235& R80211

#### EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 ¾"x0.II3" NAILS @ 6" O.C. AT EDGES & @ I2" O.C. IN THE PANEL FIELD. TYP, U.N.O.
- 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: 1/5" 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 3/4" 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 HEAR 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" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

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

INDICATES HOLDOWN BELOW

#### VENEER LINTEL SCHEDULE

(MAX)	ABOVE LINTEL	SILLE AROLL SIZE	
3'-0"	20 FT. MAX	L3"x3"x/4"	
	3 FT. MAX	L3"x3"x¼"	
6'-0"	I2 FT. MAX	L4"x3"x/4"	
	20 FT. MAX	L5"x3½"x%"	
	3 FT. MAX	L4"x4"x¼" *	
8'-0"	I2 FT. MAX	L5"x3½"x%"	
	I6 FT. MAX	L6"x3½"x¾"	
9'-6"	I2 FT. MAX	L6"x3½"x¾6"	
16'-0"	2 FT. MAX	L7"x4"x½" **	
10-0	3 FT. MAX	L8"x4"x½" **	

#### ALL LINTELS:

- SHALL SUPPORT 2 %" 3½" VENEER w/ 40 psf MAXIMUM WEIGHT. 16' SHALL HAVE 4" MIN. BEARING
- 16' SHALL HAVE 8" MIN. BEARING 16' SHALL NOT BE FASTENED BACK TO HEADER.
- 6' SHALL BE FASTENED BACK TO WOOD HEADER IN WALL #48"04 w/ ½" DIA, x 3 ½" LONG LAG SCREMG IN 2" LONG VERTICALLY SLOTTED HOLES. X. VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE
- OPENING. ALL LINTELS SHALL BE LONG LEG VERTICAL. WHEN SUPPORTING VENEER < 3° WIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 ¼" WIDE OVER THE BEARING LENGTH ONLY, THIS IS TO ALLOW FOR MORTAR JOINT
- FINISHING.
  SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS, FOR ANY LINTEL FASTENED SHACK TO DEAM FASTENEDS SHALL MAINTAIN A 2½ (MINIMA) CLEAR DISTANCE FROM BOTTOM OF BEAM.
- OR QUEEN VENEER USE L4x3¼". FOR 3½" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF

#### 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.

### NON-BEARING HEADER SCHEDULE

SPAN	2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL	
IP TO 3'-0"	(I)2x4 FLAT	(I)2x6 FLAT	
IP TO 6'-0"	(2)2x4	(3)2x4	
IP TO 8'-0"	(2)2x6	(3)2x6	
P TO 12'-0"	(2)2x8	(3)2x8	

#### NOTES:

ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED a 24" O.C. (MAX.)

#### 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 2x 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 VERIEY 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, U.N.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 PLAN - TALLER WALLS MUST BE ENGINEERED
- NOMINAL WIDTH (9 1/2" 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 10" CONCRETE
- DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.C LARGER OPENINGS SHALL BE PER PLAN
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
- 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 (I:I RATIO), WITH A MAXIMUM OF I:1.5 RATIO · CONTROL JOINTS SHALL <u>NOT</u> BE INSTALLED IN STRUCTURAL SI ABS
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN COMPRESSIVE STRENGTH OF 1900 psi (F/m=1500 psi), MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 € 530.I. • CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL
- JOINT REINFORCEMENT (OR EQUAL) 9 GA. MINIMUM @ 16" O.C. PROVIDE 2x6 (MIN.) x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE FASTENED PER ANCHORAGE SPECIFICATIONS NOTED ABOVE. TOP 2 COURSES (MIN.) OF PIER TO
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE TOP 2 COURSES (MIN.) OF WALL TO BE GROUTED SOLID (8 COURSE MAX. WALL HEIGHT)
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

BE GROUTED SOLID (8 COURSE MAX. PIER HEIGHT).

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

#### MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY
DETERMINE THE ERECTION PROCEDURES SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF 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 CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENT IN CONTACT WITH FLOOR FRAMING ARE LEVEL NCLUDING, 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.

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

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

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10/27/2

I&K project numbe 126-22076

**JTR** 

rawn hv: JGV sue date: 10-27-25

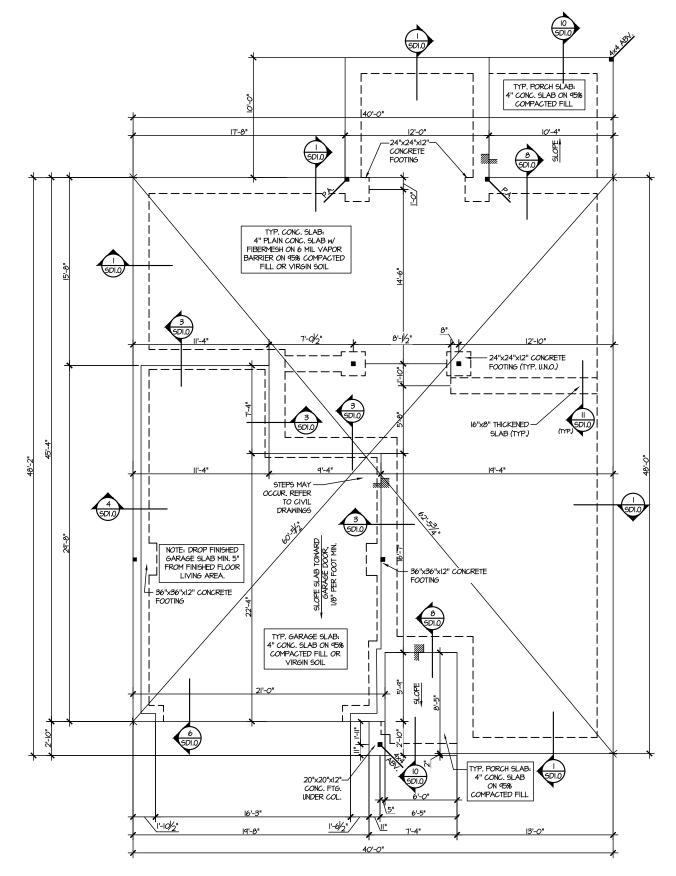
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MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
SOBMACIAL AND BARROWS AND STRUCTURAL ENGINEERING
PARTICULAR PROPERTY OF THE PR

M&K project number: 126-22076

project mgr: JTR
drawn by: JGW
issue date: 1 O-27-25

REVISIONS:

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- 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.

LEGEND

INDICATES HOLD-DOWN OR STRAP.
REFER TO SCHEDULE.

REFER TO SO.O FOR
TYPICAL STRUCTURAL NOTES

\$ SCHEDULES

MONO SLAB FOUNDATION PLAN SCALE: 1/8"=1"-0"

FARM AT NEIL'S CREEK
LOT 52 - DRAYTON 4.1
RALEIGH, NC

**OUNDATION PLANS** 

## 2ND FLOOR FRAMING PLAN

#### REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES

#### ALTERNATE F.J MANUFACTURERS

 FLOOR JOISTS BY MANUFACTURER'S OTHER THAN THOSE SHOWN ON PLAN SHALL CONFORM TO THE APA PERFORMANCE RELATED I-JOISTS DESIGN AND CONSTRUCTION GUIDE. MINIMUM JOIST PROPERTIES INCLUDING, BUT NOT LIMITED TO, ALLOWABLE SHEAR. ALLOWABLE MOMENT, STRENGTH, AND STIFFNESS, SHALL MEET OR EXCEED THOSE LISTED FOR THE PRI-60 SERIES I-JOISTS. ALL ALLOWABLE HOLES, BEARING STIFFENERS, AND JOIST TO JOIST CONNECTIONS ARE PER THE JOIST MANUFACTURER.

#### LEGEND

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

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- \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

# 10/27/2 H CAR

ENGINEERED BEAM MATERIAL SCHEDULE				
LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
(2)13/4"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - FB	WI2xI4 - F
(2)i¾"xi4" - F	3½"x 4" - F	(2)i¾"xi4" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - FB	WI2xI4 - F
(3)134"x18" - FB <i>o</i> r (2)134"x20" - FB	5¼"xl8" - FB	N/A	(3)2xl2 + (2) %"xll4" STEEL FLITCH PLATES - FB	WI2x26 - F
(2)13/4"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - FB	WI2xI4 - F
(2)194"x11%" - H cont.	3½"x11%" - H cont.	(2)134"x11%" - H cont.	(3)2xl2 + (2) ¼"xll¾" STEEL FLITCH PLATES - H cont.	N/A
(3)13/4"×14" - H cont.	5¼"x 4" - H cont.	N/A	(3)2xl2 + (2) ¼"xll¾" STEEL FLITCH PLATES - H cont.	N/A
(I)134"×14" - F	3½"x 4" - F	(2)i¾"xi4" - F	(2)2xl2 + (1) ¼"xl4" STEEL FLITCH PLATES - FB	WI2xI4 - F
(2)1¾"×11%" - D	3½"x11½" - D	(2)1¾"x11¾" - D	(2)2xi2 + (I) ¼"xil¼" STEEL FLITCH PLATES - D	WI0x12 - 17
(2)134"x16" - H cont.	3½"x16" - H cont.	(3)13/4"x16" - H cont.	(3)2xi2 + (2) ½"xil¼" STEEL FLITCH PLATES - H cont.	N/A
(2)134"×94" - F	3½"x9¼" - F	(2)134"×94" - F	(2)2xi0 + (i) ¼"xq¼" STEEL FLITCH PLATES - F	₩8x10 - F
(2)i¾"xi4" - F	3½"x 4" - F	(2)i¾"xi4" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - FB	WI2xI4 - F
(2)13/4"×14" - F	3½"xl4" - F	(2)1 <sup>3</sup> / <sub>4</sub> "x14" - F	(2)2xl2 + (I) 从"xl以" STEEL FLITCH PLATES - FB	WI2xI4 - F

(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - D

WI0x12 - D

BEAM NOTATION: - "F" INDICATES FLUSH BEAM

(2)134"x11%" - D

- FINDICATES FLUSH TOP BEAM
   "FB" INDICATES FLUSH BOTTOM BEAM
   "D" INDICATES DROPPED BEAM
- "I" 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

3½"x11%" - D

FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W (2) 3"XOLIZO" NAILS • 8" O.C.
FOR FLUSH BOTTOM BEAMS PROVIDE 2X STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W (2) 3"XOLIZO" NAILS • 8" O.C.

(2)134"x1136" - D

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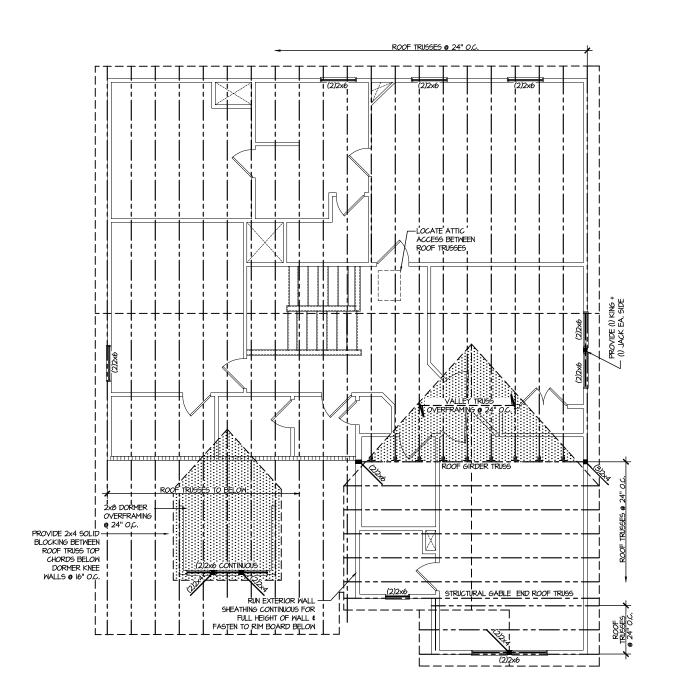
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**JTR** issue date: 10-27-25

REVISIONS: initial:

CREEK NEILS MAT NI DRAYTON 4 FARM LOT 52 - DR RALEIGH, N

**S2.0** 



ROOF FRAMING PLAN

10/27/25 H CAR

MULHERN+KULP

RESIDENTIAL STRUCTURAL ENSINEERING

STRUCTURAL FARING AND THE STRUCTURAL ENSINEERING

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M&K project number: 126-22076

JTR JGW drawn by: issue date: 10-27-25

REVISIONS:

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RAMING PLANS FARM AT NEIL'S (LOT 52 - DRAYTON 4.1)
RALEIGH, NC

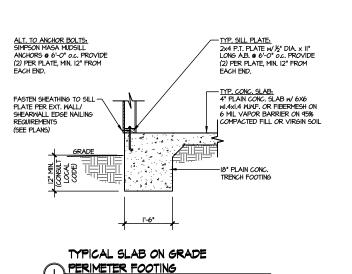
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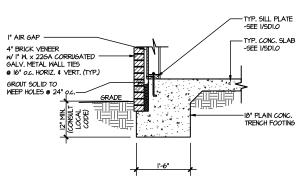
REFER TO SO.O FOR

TYPICAL STRUCTURAL NOTES # SCHEDULES

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
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- = = INDICATES SHEAR WALL & EXTENT
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- INDICATES HOLD-DOWN OR STRAP.
  REFER TO SCHEDULE.

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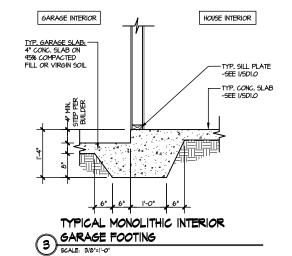


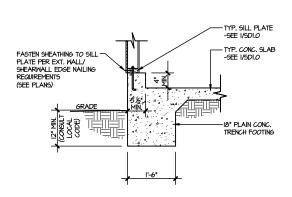


w/ BRICK VENEER

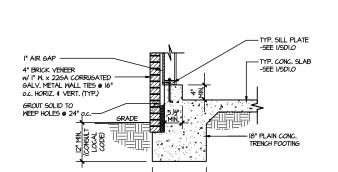
TYPICAL SLAB ON GRADE

PERIMETER FOOTING





TYPICAL SLAB ON GRADE GARAGE 4 PERIMETER FOOTING

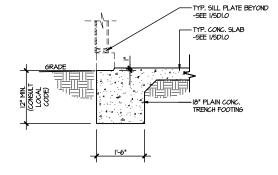


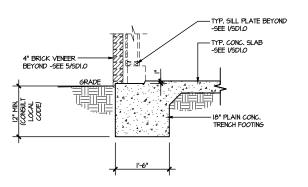
1'-6"

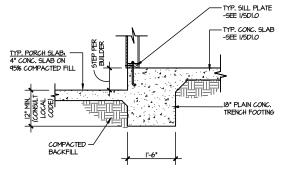
w/ BRICK VENEER

TYPICAL SLAB ON GRADE GARAGE

5 PERIMETER FOOTING



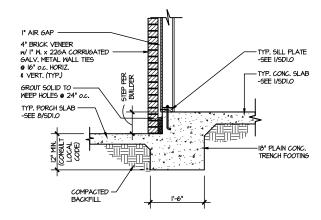


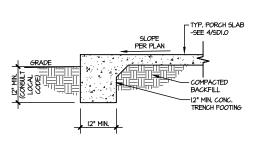


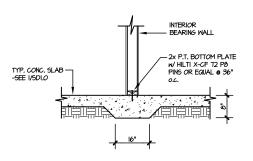


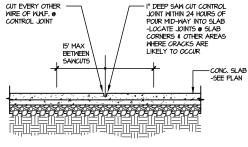
TYPICAL SLAB ON GRADE GARAGE T ENTRY @ PERIMETER FOOTING
SCALE: 3/8"=1"-0" w

TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO









TYPICAL FOOTING @ PORCH SLAB

TYPICAL CONTROL JOINT

SCALE: 8/8'=1'-0' LOCATE & 15'-O" o.c. MAX. OR CORNERS WHERE CRACKS LIKELY TO DEVELOP

TYPICAL SLAB ON GRADE PERIMETER

TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

DRAYTON ATARM LOT

REEK

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NEIL

NO

10/27/2

ERN+KUI

M&K project number 126-22076

issue date: 10-27-25

drawn by:

REVISIONS:

**JTR** 

JGV

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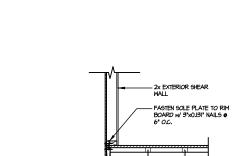
"H CAR OFESSIO

SEPH T. R

#### TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 3/0'=1'-0' HEEL HEIGHT LESS THAY

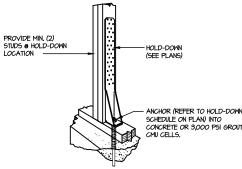


RIM BOARD FASTENED TO DBL. TOP PLATE w/ 3"x0.131" TOENAILS @ 6" O.C.

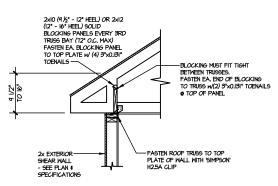
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 3/8'=1'-0'

FLOOR SYSTEM

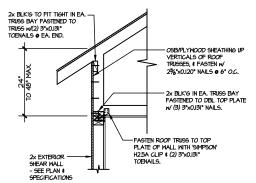
- 2x Exterior shear



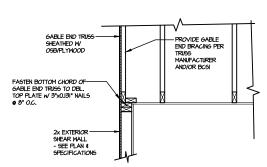
TYPICAL HOLD DOWN INSTALLATION SCALE: NT.S.



#### TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/6"=1"-0" HEEL HEIGHT DETNEEN 9/2 HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQで

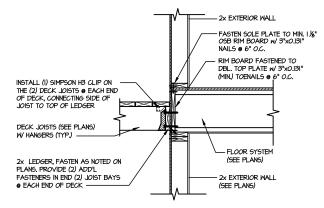


### TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS SCALE: 3/8/=1/-01



TYPICAL GABLE END DETAIL

SCALE: 9/8"=1"-0"



DECK CONNECTION DETAIL

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.

DETAILS FARM AT NEIL'S (LOT 52 - DRAYTON 4.1 OUNDATION

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10/27/2

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M&K project number 126-22076

issue date: 10-27-25

drawn by:

REVISIONS:

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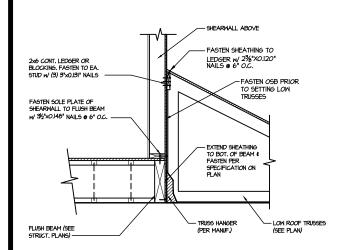
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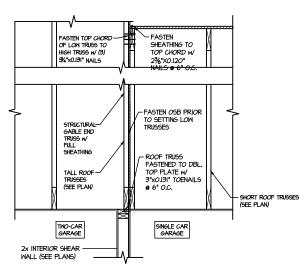
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PROVIDE MIN. (2) STUDS @ HOLD-DOWN LOCATION — - ANCHOR (REFER TO HOLD-DOWN SCHEDULE ON PLAN) INTO CONCRETE OR 3,000 PSI GROUTED CMU CELLS.

# SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW 5CALE: 5/4'=1'-0' PARALLEL FRAMING



# SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE SCALE: 5/4\*=1\*-0\*



# TYPICAL SHEAR TRANSFER DETAIL BETWEEN GARAGE BAYS SCALE: \$4'=1'-0'

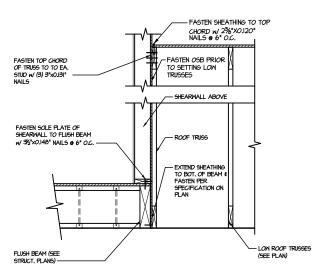
FASTEN SOLE PLATE OF
SHEARMALL THRU
FLOOR SHEATHING TO
OCSP RIM w/ 3½ 'XO140'
NAILS @ 3' O.C.

I-LOISTS
I-LOISTS
III
III
III

FASTEN OSB RIM TO DBL. TOP
PLATE w/(I) SIMPSON A35 CLIP @
EACH JOIST BAY (PERP, FRMG.)
OR @ 16' O.C. (PARALLEL FRMG.)

SHEARWALL BELOW

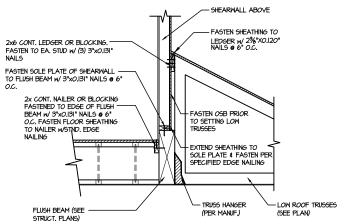
# SHEAR TRANSFER DETAIL @ INT. SHEARWALL ABOVE & BELOW SCALE: 3/4"=1"-0"



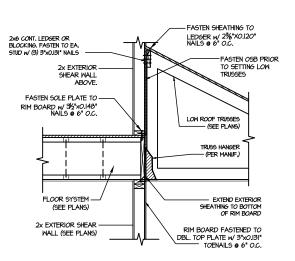
SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

SOALE: 3/4\*=1-0\*



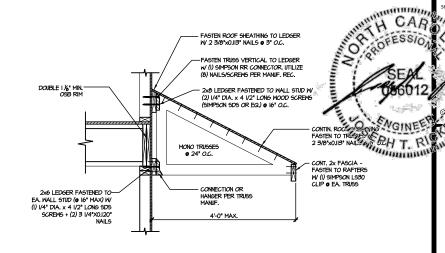
# SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE SCALE: 9/4'=1'-0'

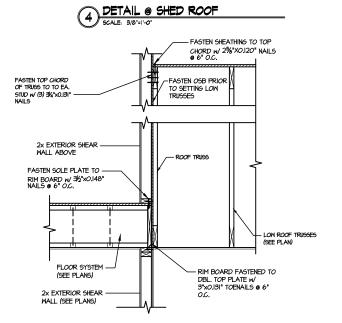


TYPICAL SHEAR TRANSFER DETAIL

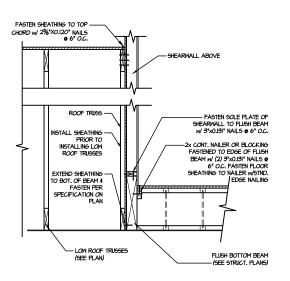
DETWEEN FLOORS @ INTERIOR WALL

SCALE: 9/4"=1"-0"





# TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL SCALE: 3/4\*1-1-0\*



SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

SCALE 844-1-0\*

:: RLH - Neils Creek - Lot 52 - Structurals DATE: 10/27/2025 1:24 PM

FRAMING DETA
FARM AT NEIL'
LOT 52 - DRAYTON 4.1
RALEIGH, NC

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10/27/25

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M&K project number

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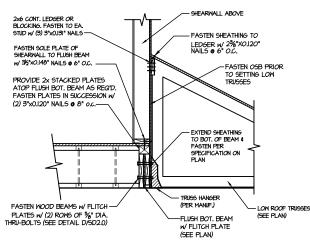
issue date: 10-27-25

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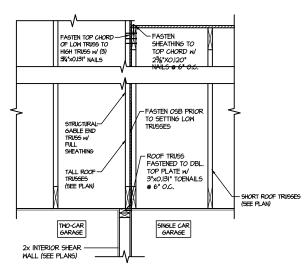
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SD2.1A

### SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW



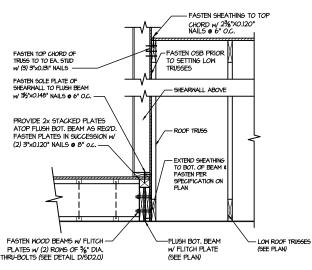
### SHEAR TRANSFER DETAIL @ 5 EXTERIOR SHEARWALL ABOVE



### TYPICAL SHEAR TRANSFER DETAIL 9 BETWEEN GARAGE BAYS

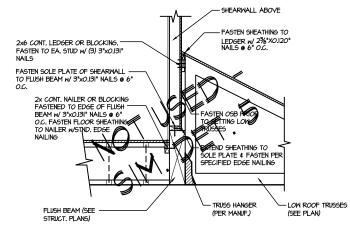
FASTEN SOLE PLATE OF -SHEARWALL THRU FLOOR SHEATHING TO 05B RIM w/ 31/2"x0.148" NAILS @ 3" O.C. -SEE PLANS FASTEN OSB RIM TO DBI. TOP PLATE w/(1) SIMPSON A35 CLIP & EACH JOIST BAY (PERP. FRMG.) OR @ 16" O.C. (PARALLEL FRMG.) SHEARWALL BELOW

### SHEAR TRANSFER DETAIL @ INT. SHEARWALL ABOVE & BELOW SCALE: 8/4"=1"-0"

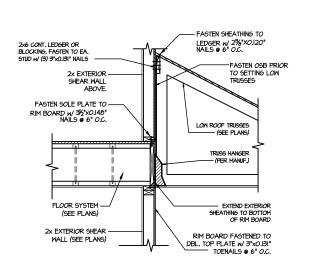


SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

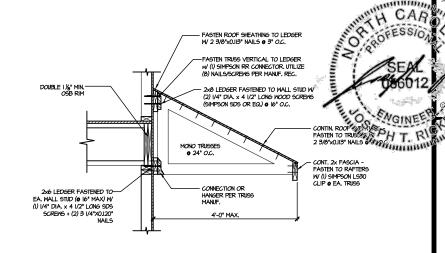
SCALE: 3/4'=1'-0'

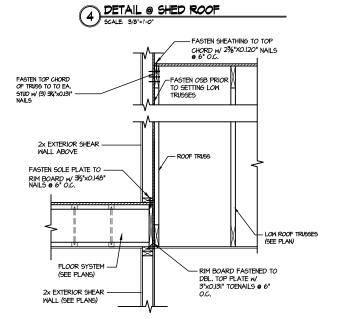


### SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE

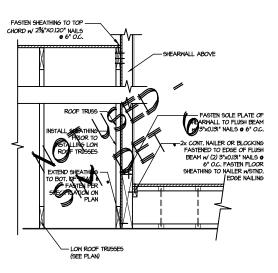


TYPICAL SHEAR TRANSFER DETAIL 1 BETWEEN FLOORS @ INTERIOR WALL





TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

LOT SD2.1B

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AT

ARM

DRAYTON

10/27/25

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4&K project number

REVISIONS

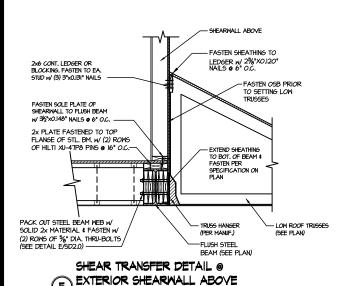
126-22076

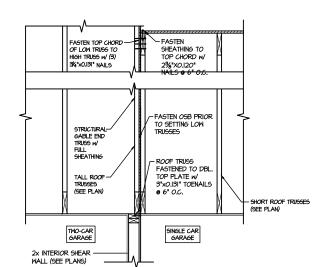
issue date: 10-27-25

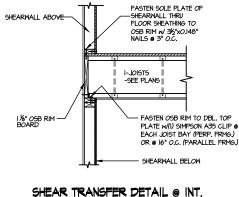
**JTR** 

initial:

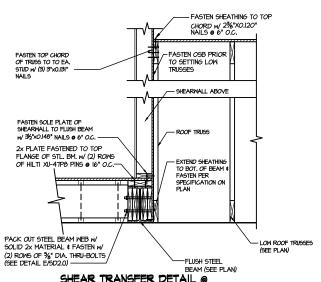
### SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 9/4"=1"-0" PAF



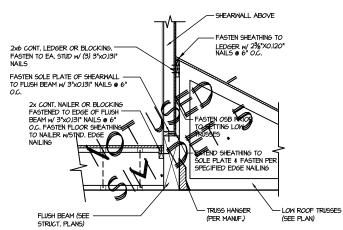




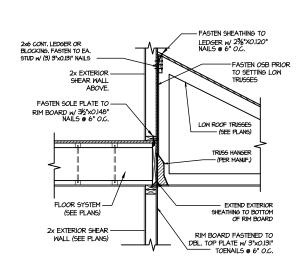
# SHEARWALL ABOVE & BELOW SCALE: 3/4'=1'-0'



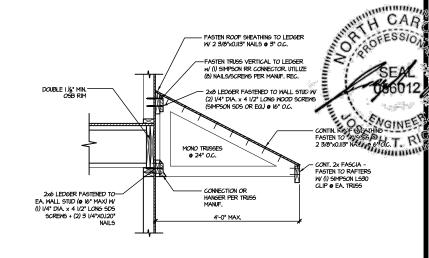
SHEAR TRANSFER DETAIL @ 6 EXTERIOR SHEARWALL ABOVE



### SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



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4&K project number

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issue date: 10-27-25

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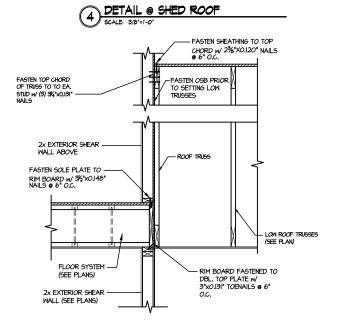
OT 52 - 1 ALEIGH,

LOT

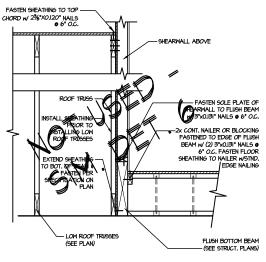
**JTR** 

JGV

initial:



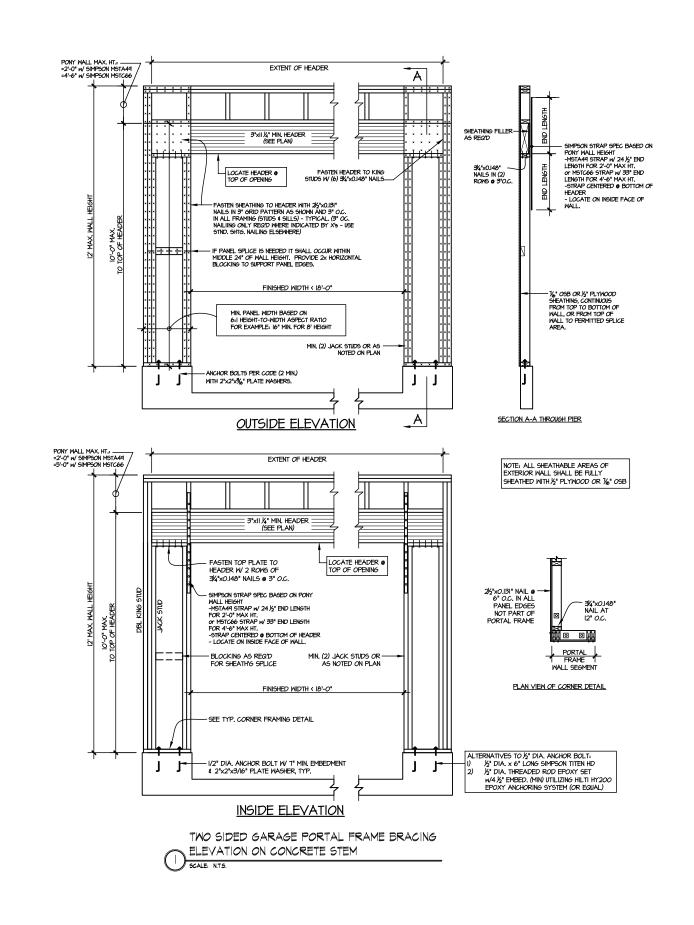
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

TYPICAL SHEAR TRANSFER DETAIL BETWEEN GARAGE BAYS
SCALE: 3/4'=1'-0'

SD2.1C



10/27/25 TH CAR SEPH T. RI

MULHERNHKULP RESIDENTIAL STRUCTURAL ENGINEERINS 300 Incepted And Building 14 Forbite, PA 19802 **y** 

M&K project number 126-22076

**JTR** drawn by: JGW issue date: 10-27-25

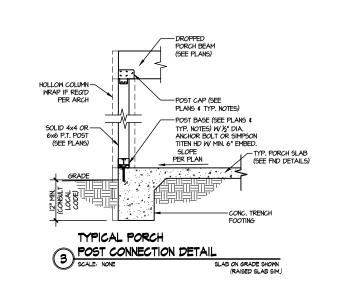
REVISIONS:

initial:

CREE DETAILS

NEIL'S FARM AT NE Lot 52 - Drayton 4 Raleigh, nc RAMING

**SD2.2** 



10/27/25 H CAR OSEPH T. RI

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RESIDENTIAL STRUCTURAL ENGINEERING

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M&K project number:

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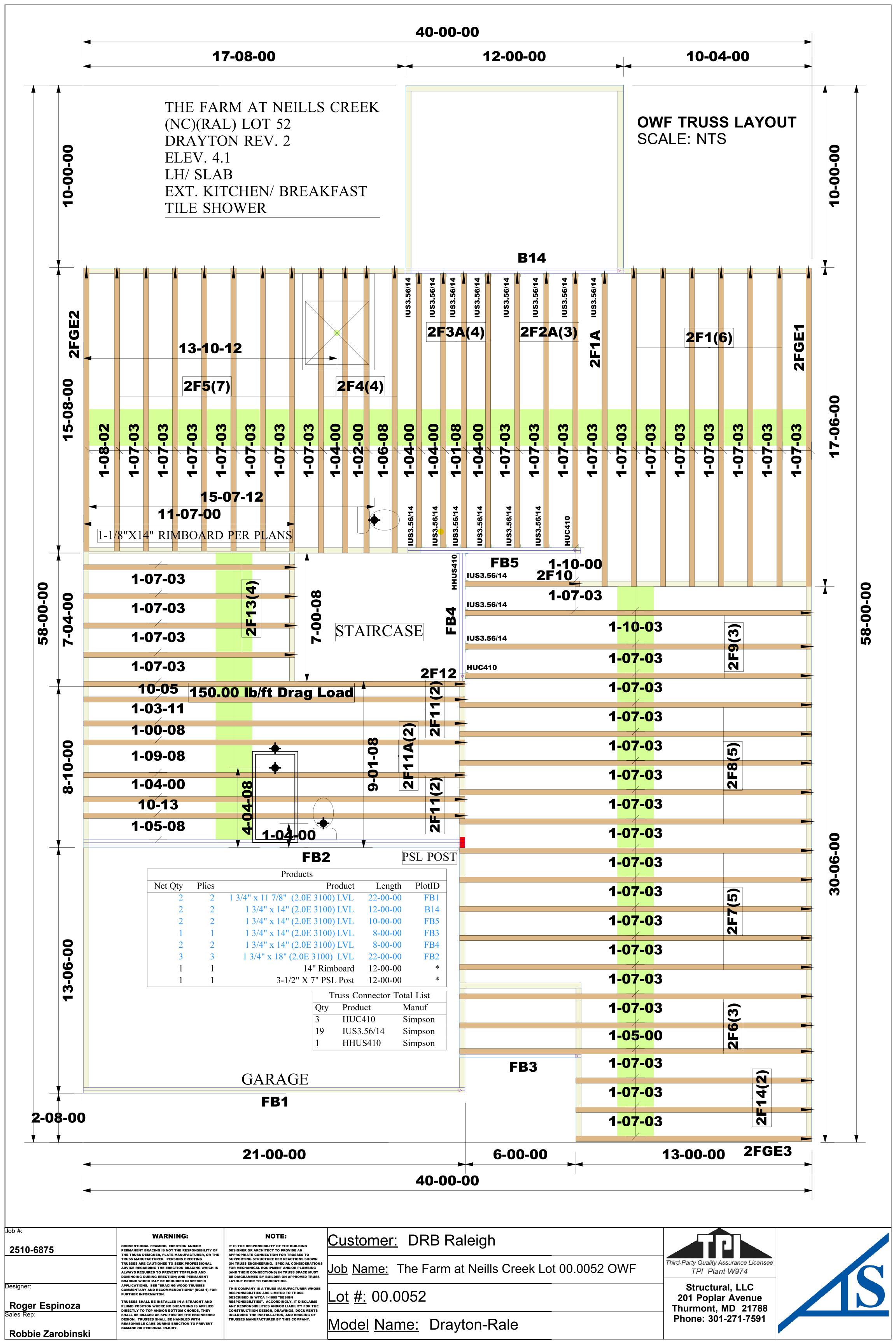
project mgr: JTR drawn by: JGW issue date: 10-27-25

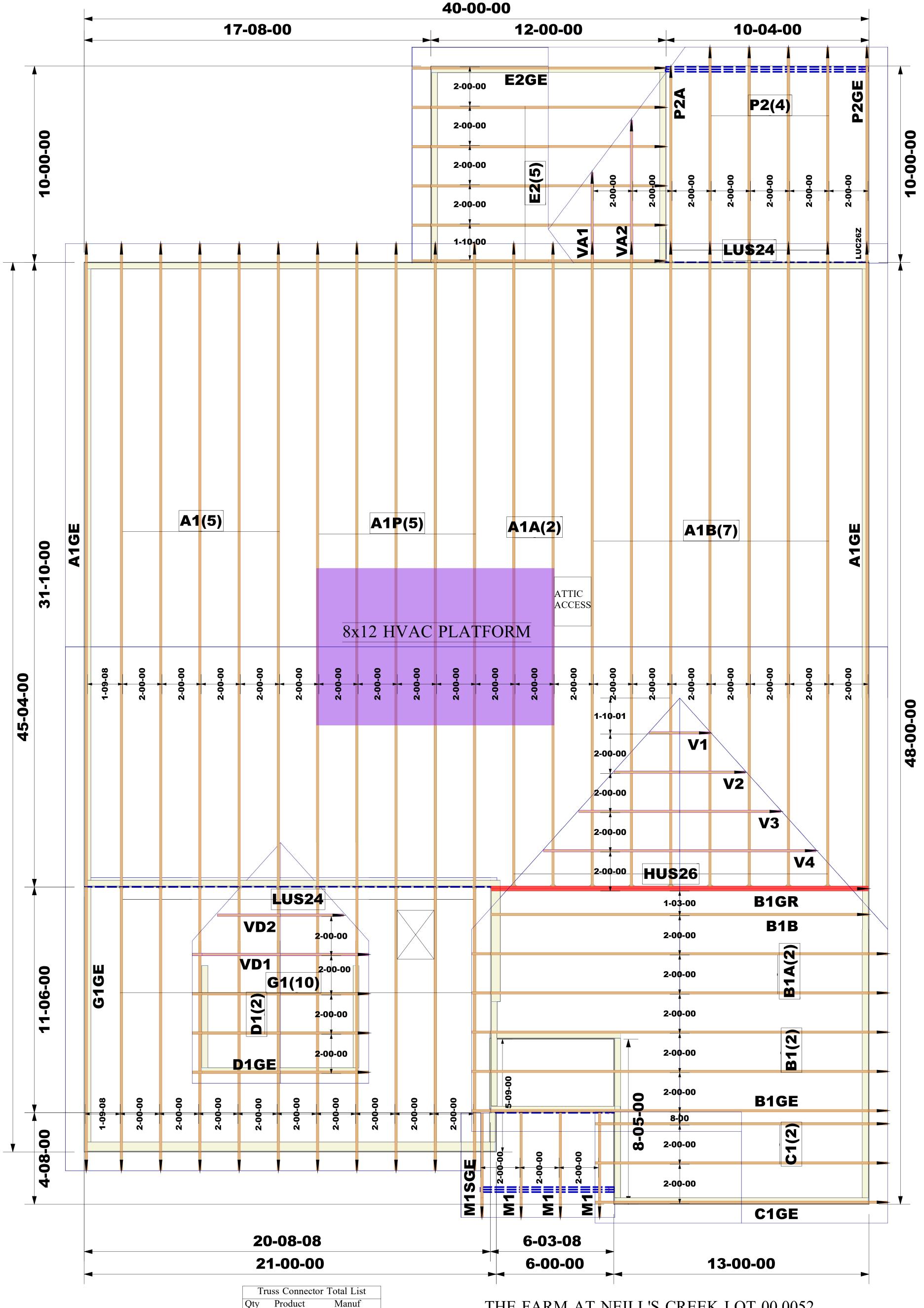
REVISIONS:

initial:

FARM AT NEIL'S CREEK
LOT 52 - DRAYTON 4.1
RALEIGH, NC

SD3.0





\*EXTERIOR DIMENSIONS ARE TO SHEATHING. \*TOE-NAIL CONNECTIONS U.N.O.

HUS26

LUC26Z

LUS24

Simpson

Simpson

Simpson

One H2.5A Simpson

\*TRUSSES @ 2' O/C U.N.O. \*INSTALL H2.5A ANCHOR AT EACH BEARING POINT.

\*SEE PROFILE DWGS. FOR TRUSS ORIENTATION BEFORE INSTALLATION.

THE FARM AT NEILL'S CREEK LOT 00.0052 (NC)(RAL)
DRAYTON REV.2
EL. 4.1

EXTENDED BREAKFAST GARAGE LEFT

COVERED PORCH

Job #: **WARNING: NOTE:** Customer: DRB Raleigh CONVENTIONAL FRAMING, ERECTION AND/OR IT IS THE RESPONSIBILITY OF THE BUILDING 2510-6899 PERMANENT BRACING IS NOT THE RESPONSIBILITY OF DESIGNER OR ARCHITECT TO PROVIDE AN Job Name: The Farm at Neills Creek Lot THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN TRUSS MANUFACTURER. PERSONS ERECTING Third-Party Quality Assurance Licensee ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS TPI Plant W974 00.0052 Roof ALWAYS REQUIRED TO PREVENT TOPPLING AND (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION. DOMINOING DURING ERECTION; AND PERMANENT **BRACING WHICH MAY BE REQUIRED IN SPECIFIC** Structural, LLC APPLICATIONS. SEE "BRACING WOOD TRUSSES Designer: THIS COMPANY IS A TRUSS MANUFACTURER WHOSE <u>ot #:</u> 00.0052 RESPONSIBILITIES ARE LIMITED TO THOSE 201 Poplar Avenue DESCRIBED IN WTCA 1-1995 "DESIGN TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS Priyanka Santra Sales Rep: Thurmont, MD 21788 PLUMB POSITION WHERE NO SHEATHING IS APPLIED ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE DIRECTLY TO TOP AND/OR BOTTOM CHORDS. THEY CONSTRUCTION DESIGN. DRAWINGS. DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED Phone: 301-271-7591 DESIGN. TRUSSES SHALL BE HANDLED WITH TRUSSES MANUFACTURED BY THIS COMPANY. Model Name: Drayton Rev 2 REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY. **Robbie Zarobinski**