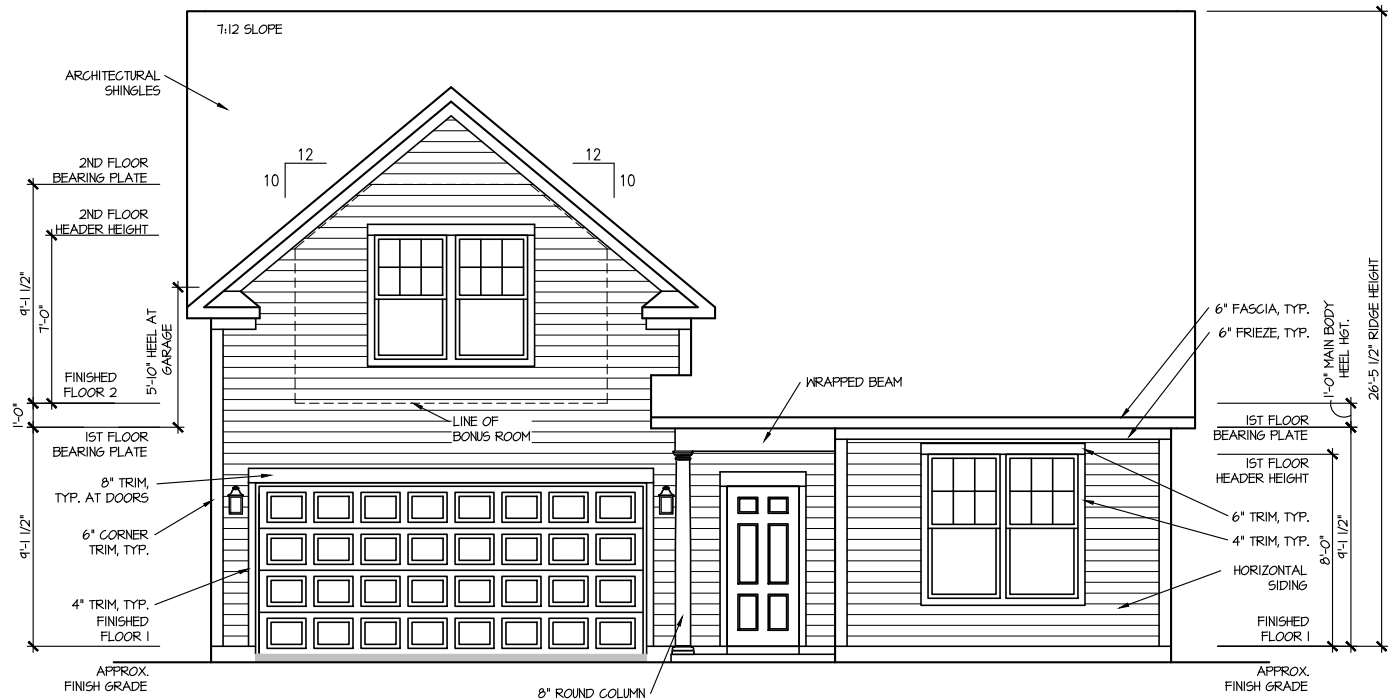


RALEIGH - LOT 00.0174 THE FARM AT NEILL'S CREEK
(MODEL# 1777)

193 Appleseed Drive

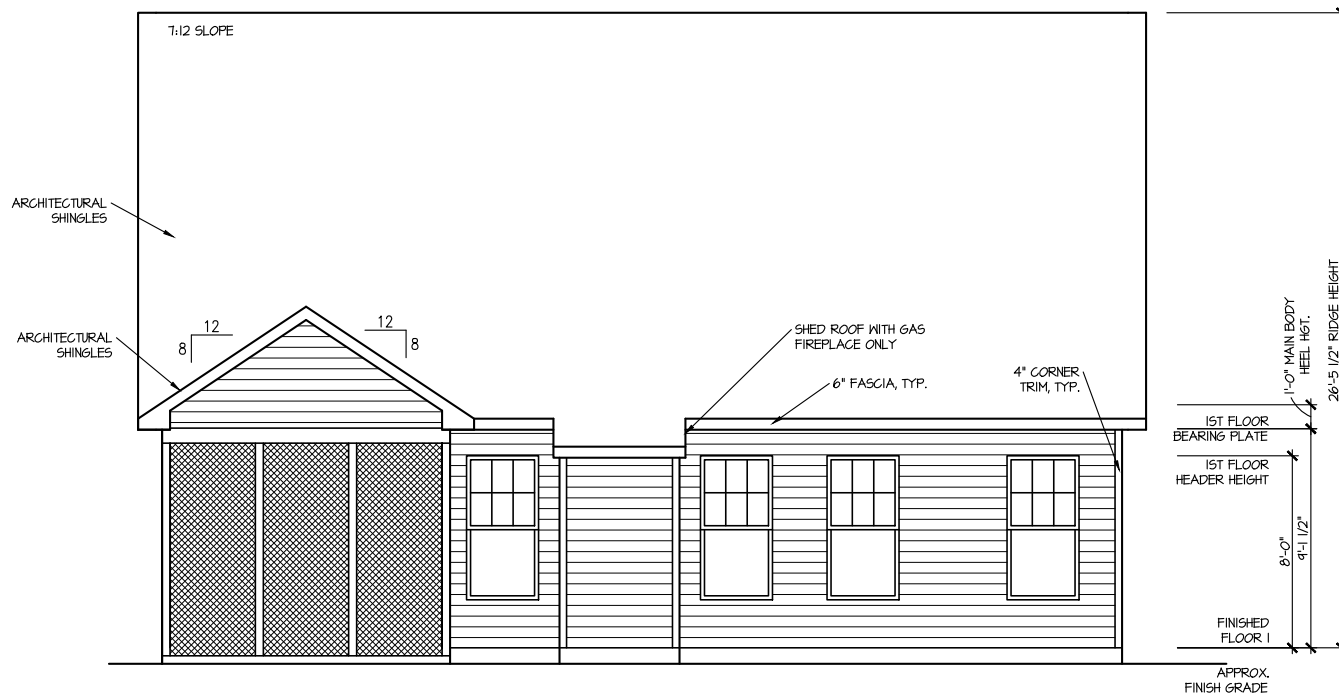
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FRONT ELEVATION I

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



REAR ELEVATION I

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

MASTER PLAN INFORMATION			UPDATED DATE
REVISION	DATE		
4-RALE	02-24-2022		02-19-2025

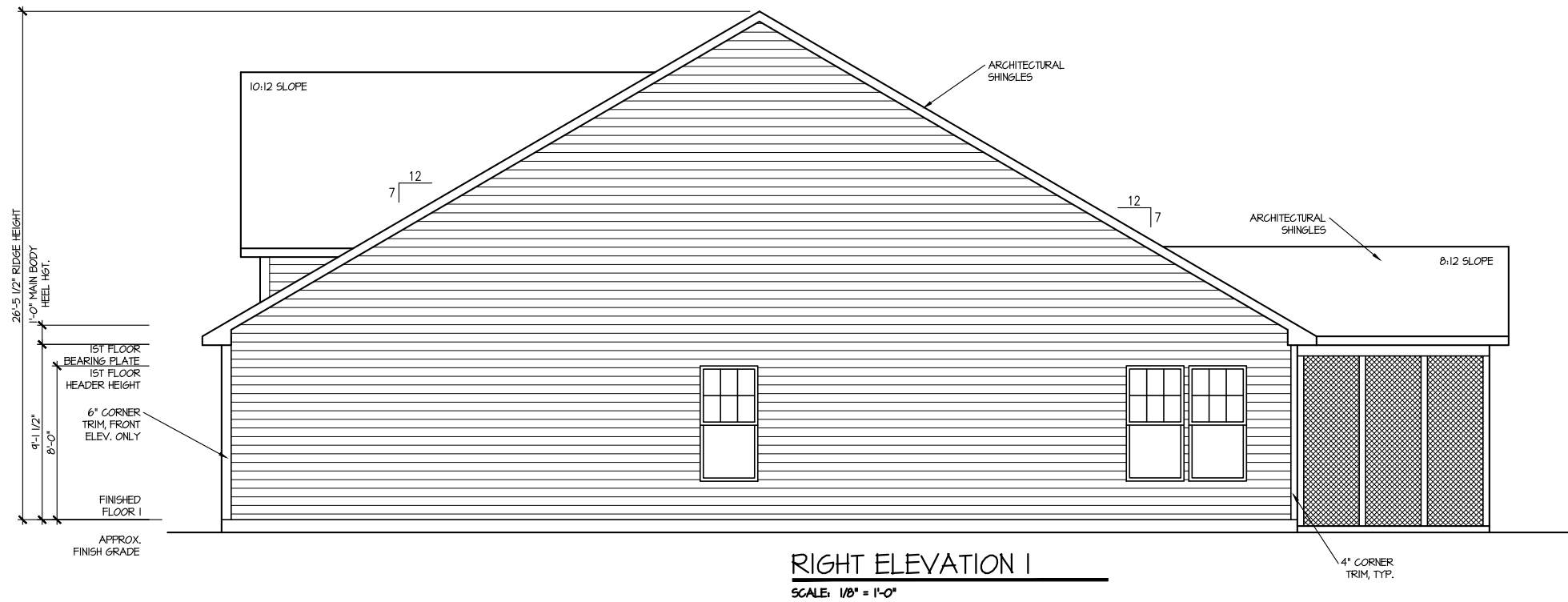
DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777

DRB
HOMES

HOUSE NAME:
COOPER 3

DRAWING TITLE
FRONT & REAR ELEVATIONS

SHEET No.
A.1



RIGHT ELEVATION I

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



LEFT ELEVATION I

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

MASTER PLAN INFORMATION			
REVISION	DATE	UPDATED DATE	
4-RALE	02-24-2022	02-19-2025	

DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777

DRB
HOMES

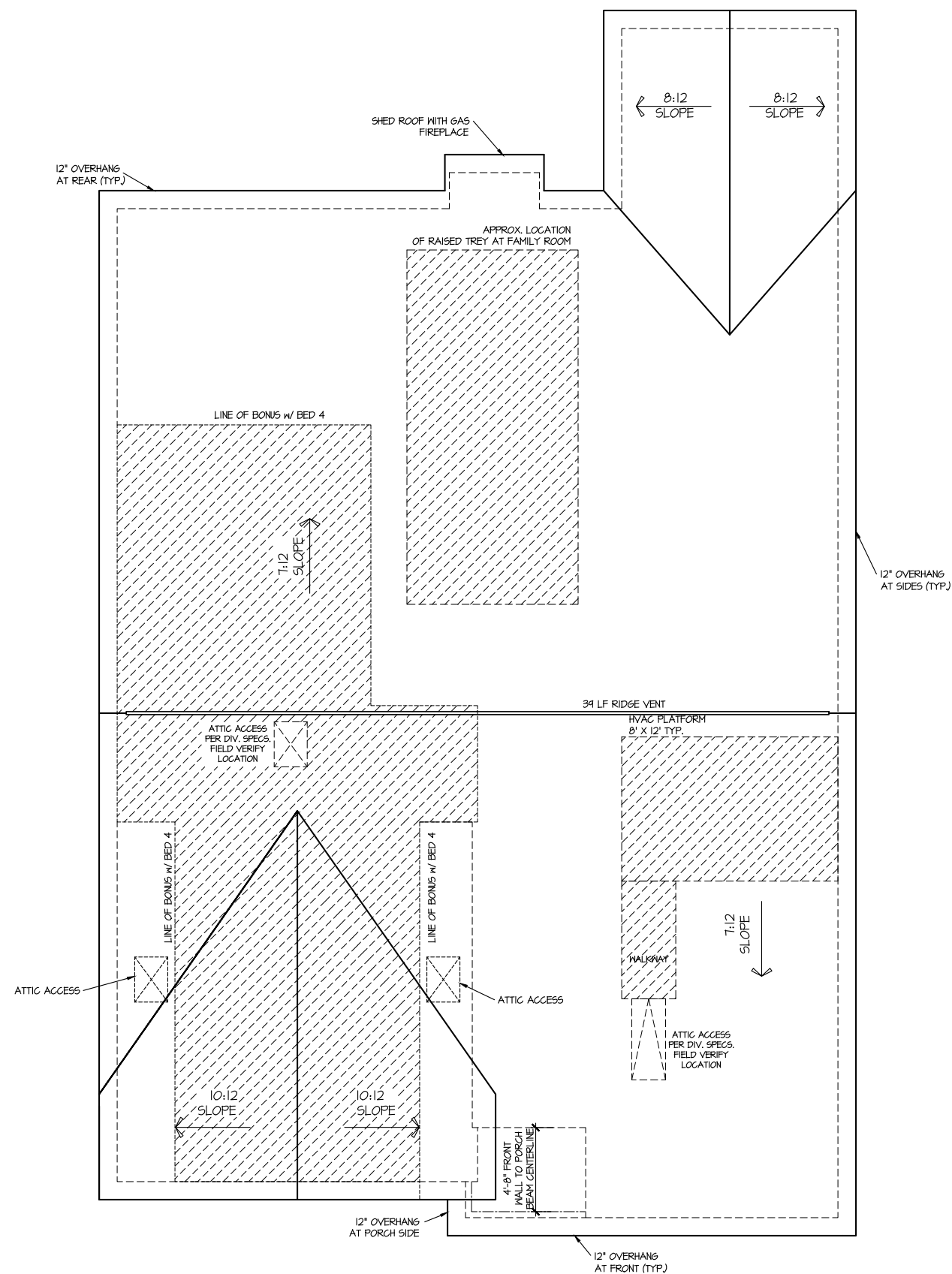
HOUSE NAME:
COOPER 3
DRAWING TITLE
RIGHT & LEFT ELEVATIONS

SHEET No.
A1.2

ROOF AREA = 2396 SQ. FT.
OVERALL REQUIRED VENTILATION:
 1 TO 150 = 15.44 SQ. FT.
 1 TO 300 = 7.72 SQ. FT.
 50-80% IN TOP THIRD = 3.86 - 6.18 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)
 74 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 2.49 SQ. FT.
UPPER VENTING: (TOP 1/3 RDS)
 34 LINEAR FEET OF 2.5 X 8 SQ. IN. = 4.88 SQ. FT.
 4.88 SQ. FT. BETWEEN 50% - 80%
 (1 TO 300 ALLOWED)
 TOTAL ROOF VENTILATION: 7.81 SQ. FT. > 7.72 SQ. FT. (R21D)

NOTE:
ANY REQUIRED PASSIVE ROOF VENTILATION TO MEET THE FOLLOWING:
LOCATED ON THE REAR PLANE OF THE MAIN ROOF LINE
LOCATED IN THE UPPER $\frac{1}{3}$ OF THE ROOF MASSING
BE IN LINE AND EQUALLY SPACED (EACH ROW)



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

[illegible]

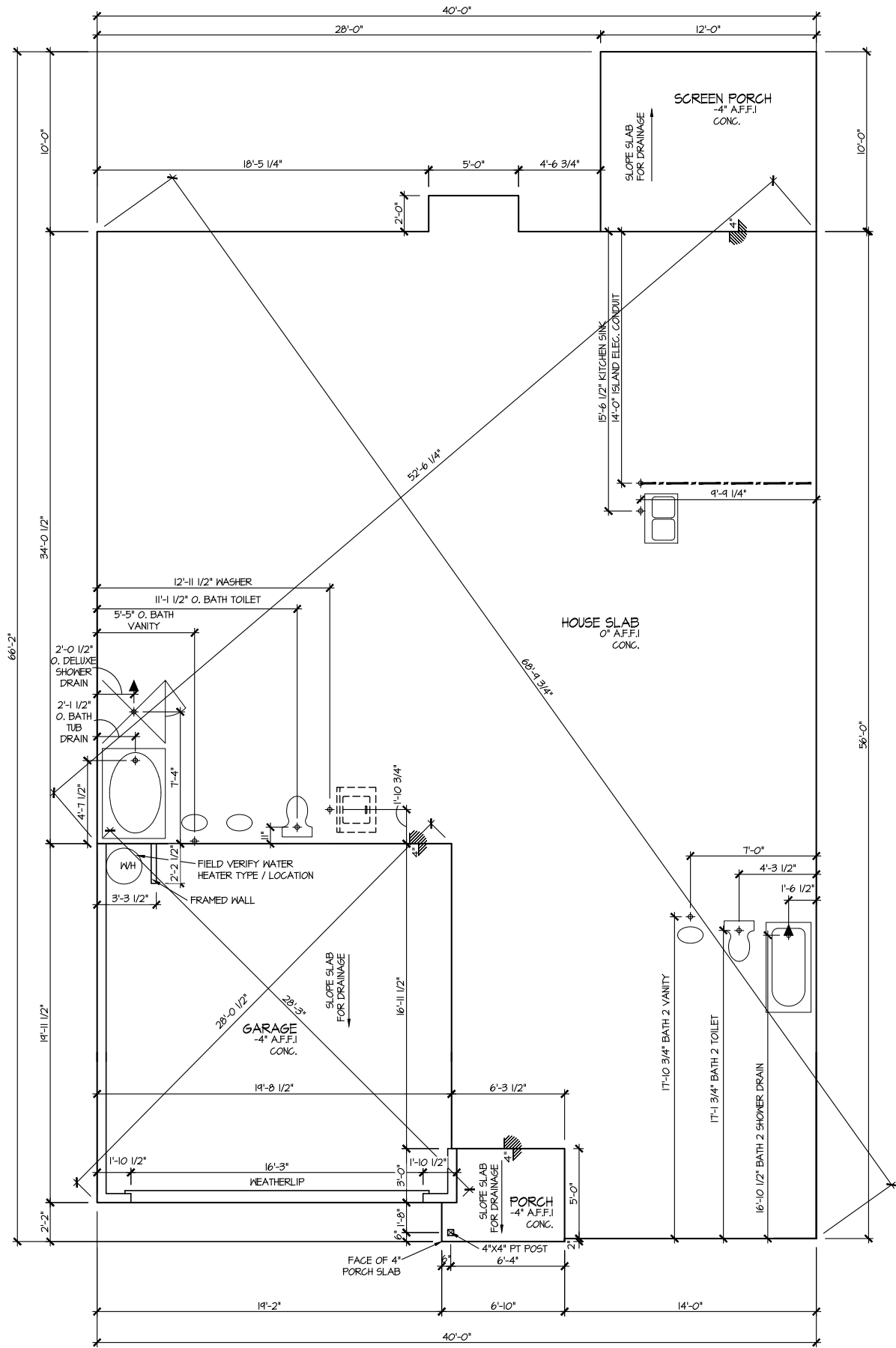
DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777

DRB HOMES

HOUSE NAME:
COOPER 3

DRAWING TITLE
ROOF PLAN

SHEET No. A/3



ELEVATION 1
SLAB PLAN

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

MASTER PLAN INFORMATION			
REVISION	DATE	UPDATED DATE	
4-RALE	02-24-2022	02-19-2025	

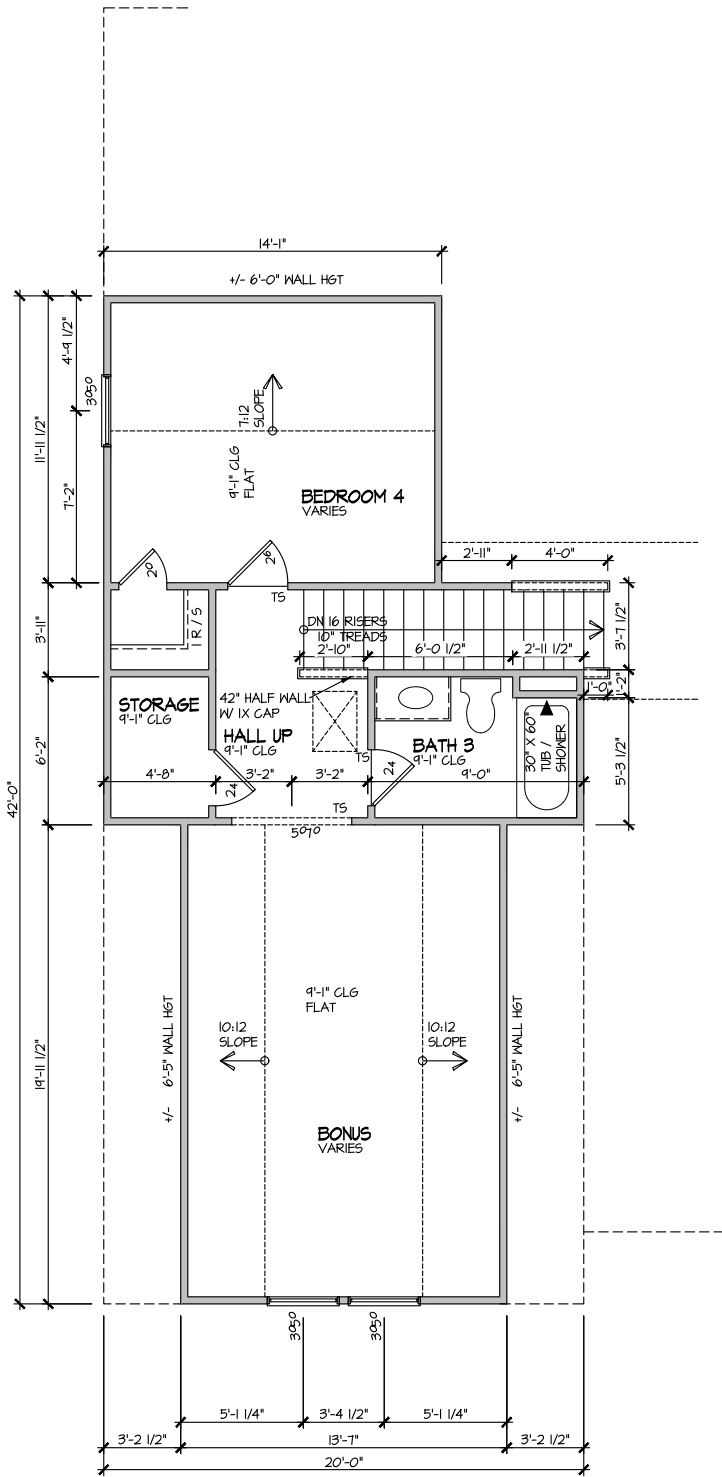
DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777

DRB
HOMES

HOUSE NAME:
COOPER 3

DRAWING TITLE
SLAB PLAN

SHEET No.
A2.1

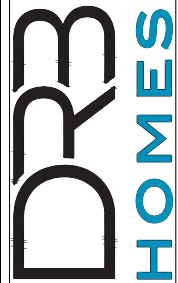


ELEVATION I
SECOND FLOOR PLAN

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

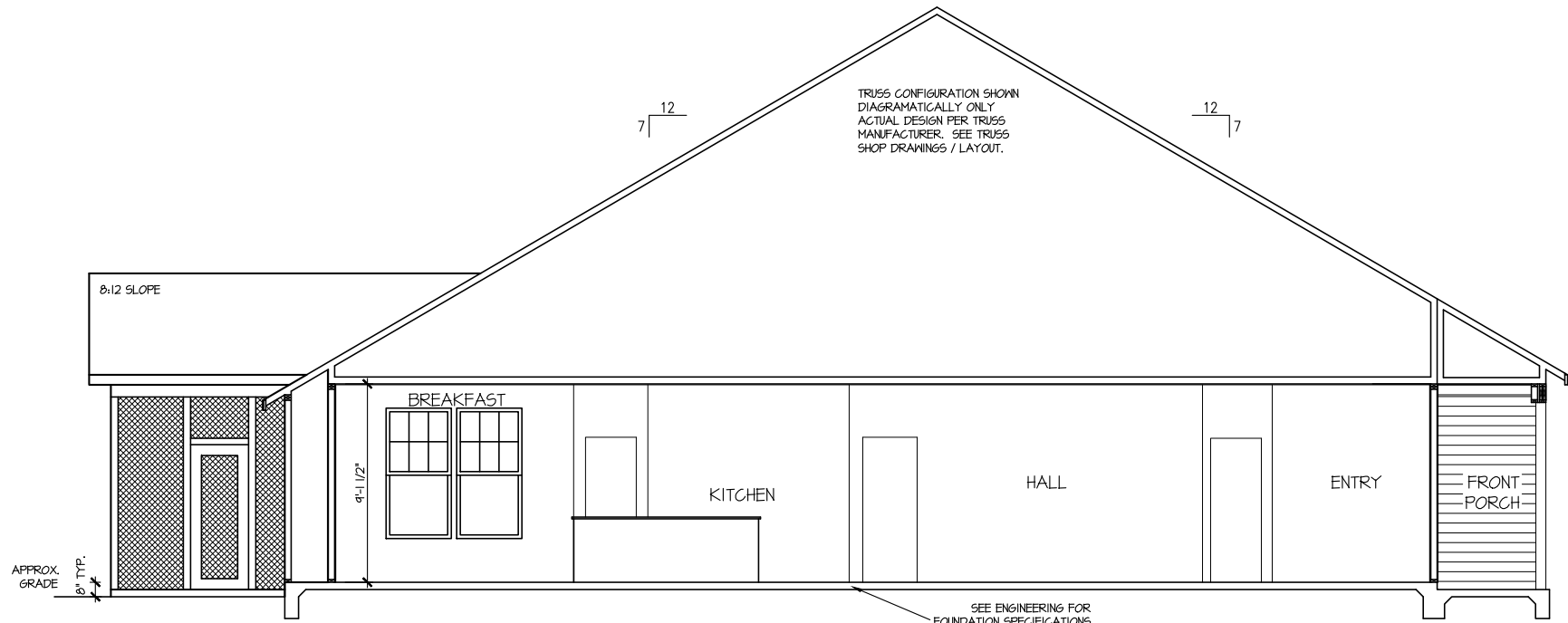
MASTER PLAN INFORMATION			
REVISION	DATE	DATE	UPDATED DATE
4-RALE	02-24-2022		02-19-2025

DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777



HOUSE NAME:	COOPER 3
DRAWING TITLE	SECOND FLOOR PLAN

SHEET No.
A3.2



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

MASTER PLAN INFORMATION			UPDATED DATE
REVISION	DATE		
4-RAL	02-24-2022		02-19-2025

DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777



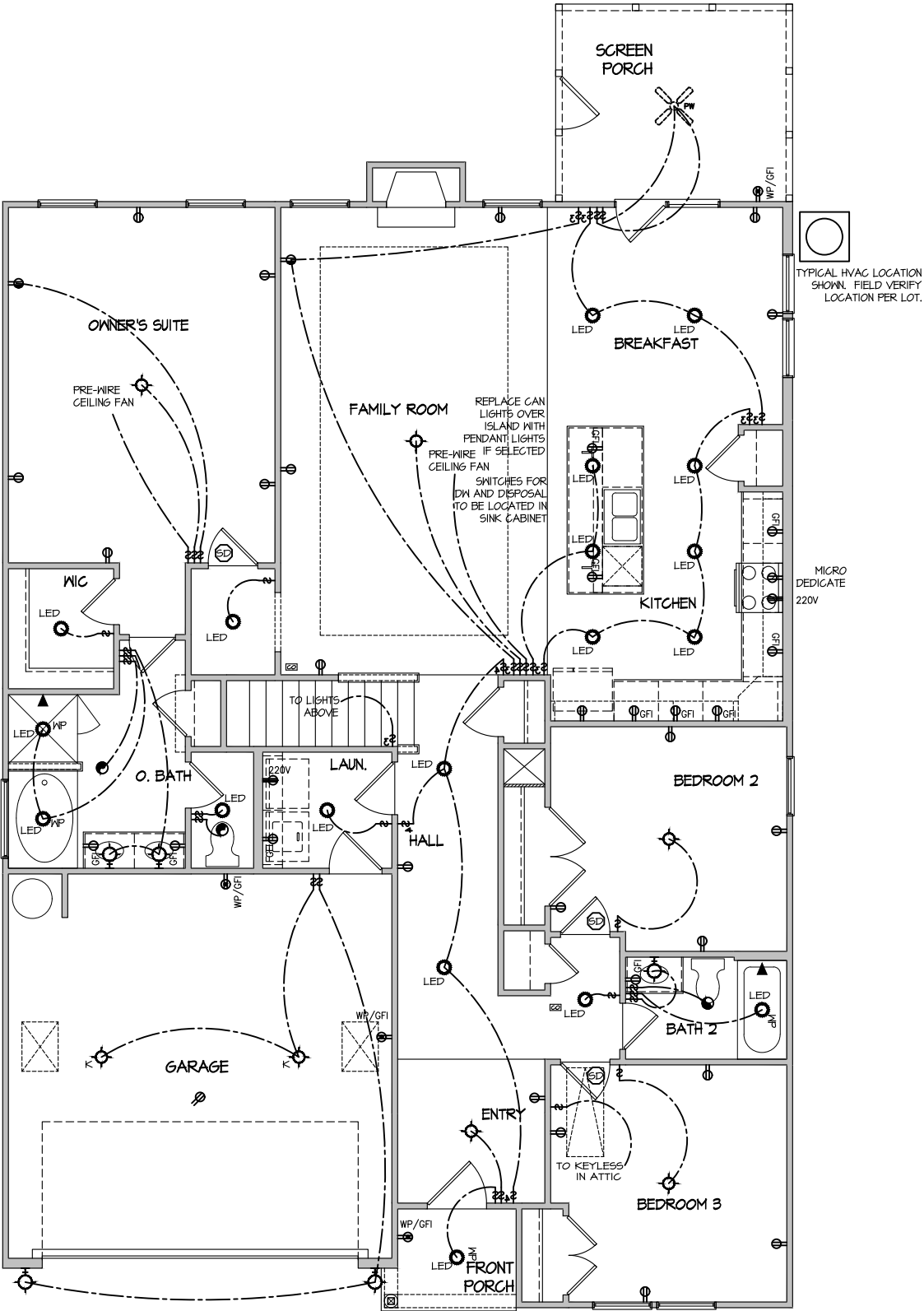
HOUSE NAME:	COOPER 3
DRAWING TITLE	BUILDING SECTION

SHEET No.
A4.1

ELECTRICAL LEGEND

- Ⓢ SINGLE POLE SWITCH
- Ⓢ₃ THREE WAY SWITCH
- Ⓢ₄ FOUR WAY SWITCH
- Ⓢ- DUPLEX AFCI RECEPTACLE
- Ⓢ- DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- Ⓢ- DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- 220V Ⓢ RECEPTACLE - 220V
- GFI Ⓢ DUPLEX AFCI RECEPTACLE - GFI
- WP/GFI Ⓢ DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- Ⓢ- SMOKE DETECTOR - WIRED IN SERIES
- Ⓢ- EXHAUST FAN MOTOR
- Ⓢ- CO DETECTOR
- Ⓢ- DOOR CHIME
- Ⓢ- LIGHT FIXTURE - WALL MOUNTED
- Ⓢ- LIGHT FIXTURE - CEILING MOUNTED
- Ⓢ- LIGHT FIXTURE - RECESSED CAN
- LED Ⓢ LIGHT FIXTURE - LED SURFACE MOUNTED
- Ⓢ- PULLCHAIN LAMPHOLDER
- Ⓢ- KEYLESS LAMPHOLDER

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 REGULATIONS.



ELECTRICAL PLAN
FIRST FLOOR - ELEV. 1

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

MASTER PLAN INFORMATION		
REVISION	DATE	UPDATED DATE
4-RALE	02-24-2022	02-19-2025

DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777

DRB
HOMES

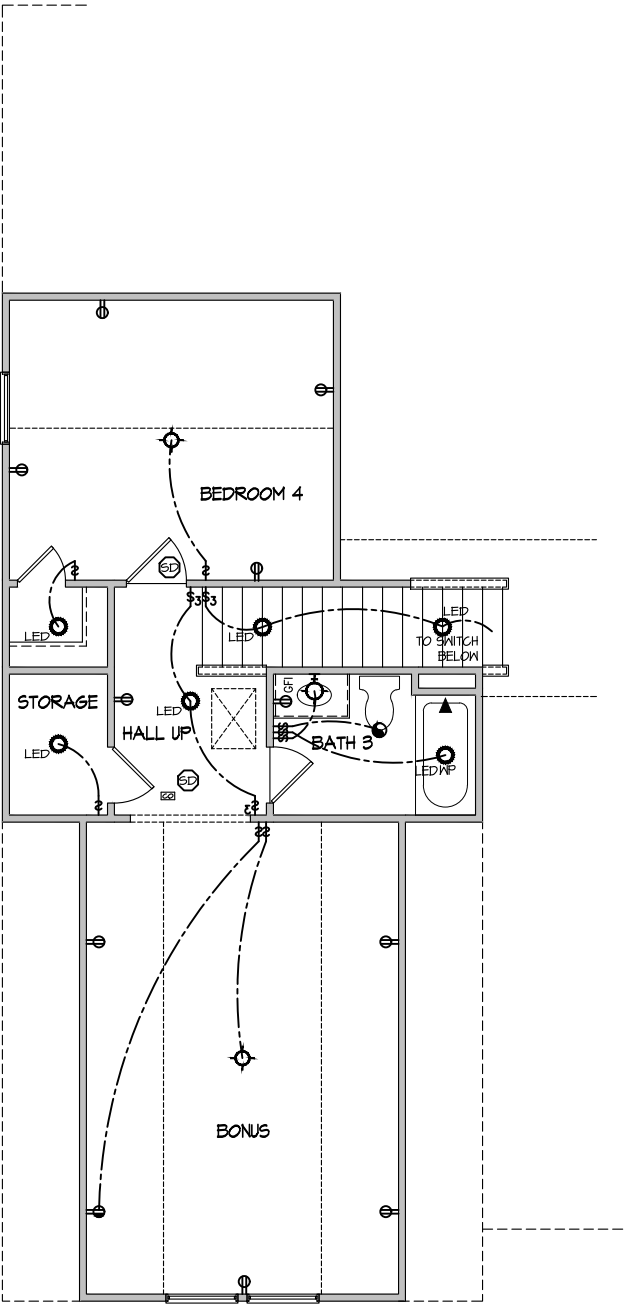
HOUSE NAME:
COOPER 3
DRAWING TITLE
FIRST FLOOR ELECTRICAL

SHEET No.
11.1

ELECTRICAL LEGEND

- SINGLE POLE SWITCH
- THREE WAY SWITCH
- FOUR WAY SWITCH
- DUPLEX AFCI RECEPTACLE
- DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- RECEPTACLE - 220V
- DUPLEX AFCI RECEPTACLE - GFI
- DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- SMOKE DETECTOR - WIRED IN SERIES
- EXHAUST FAN MOTOR
- CO DETECTOR
- DOOR CHIME
- LIGHT FIXTURE - WALL MOUNTED
- LIGHT FIXTURE - CEILING MOUNTED
- LIGHT FIXTURE - RECESSED CAN
- LIGHT FIXTURE - LED SURFACE MOUNTED
- PULLCHAIN LAMPHOLDER
- KEYLESS LAMPHOLDER

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 REGULATIONS.



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

MASTER PLAN INFORMATION		
REVISION	DATE	UPDATED DATE
4-RALE	02-24-2022	02-19-2025

DRAWN BY:	ITS
DATE:	11/26/2025
PLAN NO.	1777

DRB
HOMES

HOUSE NAME:	COOPER 3
DRAWING TITLE	SECOND FLOOR ELECTRICAL

SHEET No.	1.2
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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 10' 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 GRADE WALLS SHALL BE 2x6 @ 16" O.C. SFF OR SYP, "STUD" GRADE OR BETTER.

• CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, UNO.:

f _c =	4,000 psi:	FOUNDATION WALLS
	2,500 psi:	FOOTINGS & INTERIOR SLABS ON GRADE
	3,000 psi:	GARAGE & EXTERIOR SLABS ON GRADE
f _y =	60,000 psi		

• BASEMENT FOUNDATION WALL DESIGN BASED ON:

- 9' OR 10' HEIGHT (AS NOTED ON PLANS)
- 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, UNO.
- LARGER OPENINGS SHALL BE PER PLAN.

• ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 1% 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 (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
- CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS

• 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 & 530.1.

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

• 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.

• 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.

GENERAL STRUCTURAL NOTES

GENERAL FRAMING

• DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL 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. LIVE = 16 PSF LOAD DURATION FACTOR = 1.25
FLOOR	LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAMN) 10 PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L 10 PSF @ TILE)
LATERAL	120 MPH, EXPOSURE B. SEISMIC A/B.
SOIL	2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

FLOOR FRAMING

• I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT MK& FOR MARBLE FLOOR DESIGNS)

• AT I-JOIST FLOORS, PROVIDE 1 1/8" MIN. OSB RIM BOARD.

• METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, UNO.

• FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C, EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND

- 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES @ 12" O.C. FIELD.
- 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 8" O.C. FIELD.
- 2 3/8" 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 EACH 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, UNO.

• ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BC51 1-08 "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 (UNO.) FASTENED TO:

- RIM BOARD W/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS)
- TRUSS VERTICALS W/ (3) 3"x0.131" NAILS @ 14.2" O.C. MAX. (FLOOR TRUSSES)

• ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS

- W/ 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES @ 12" O.C. FIELD.
- W/ 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 8" O.C. FIELD.
- W/ 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. FIELD.

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

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

120 MPH WIND IN 2018 NCSCBC:RC

(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 R301.1.3 OF THE 2018 NCSCBC: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 NCSCBC:RC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5.4 R802.11.

EXT. WALL SHEATHING SPECIFICATION

• 7/16" OSB OR 15/32" PLYWOOD:

FASTEN SHEATHING W/ 2 3/8"x0.113" NAILS @ 6" O.C. AT EDGES @ 12" O.C. IN THE PANEL FIELD. TYP, UNO.

• 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 1/2" 16 GA STAPLES (1/16" CROWN) @ 3" O.C. AT EDGES @ 6" O.C. IN FIELD.

BLOCKED PANEL EDGES

• AT DESIGNATED AREAS - FASTEN SHEATHING W/ 2 3/8" 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 (1/16" 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 OF 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, UNO.

• 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 SHEARNWALL OR 3" O.C. OSB SHEARNWALL.

▶ INDICATES HOLDDOWN BELOW

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/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING:

A. ROOF TRUSSES:
1/4" DEAD LOAD

B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
1/8" DEAD LOAD

C. FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS:
LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

ENGINEERED BEAM MATERIAL SCHEDULE					
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x11 1/8" - F	3/2"x11 1/8" - F	(3)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
002	(3)3/4"x11 1/8" - F	5/4"x11 1/8" - F	(4)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
003	(2)3/4"x11 1/8" - F	3/2"x11 1/8" - F	(3)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
004	(2)3/4"x11 1/4" - D	3/2"x11 1/4" - D	(2)3/4"x11 1/8" - D	(2)2x10 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - D	W8x10 - D
<div><div>• BEAM NOTATION:</div><div>- "F" INDICATES FLUSH BEAM</div><div>- "FT" INDICATES FLUSH TOP BEAM</div><div>- "FB" INDICATES FLUSH BOTTOM BEAM</div><div>- "D" INDICATES DROPPED BEAM</div><div>- "H" INDICATES DROPPED OPENING HEADER</div><div>• REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS</div><div>• REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS</div><div>• 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.</div><div>• 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.</div></div>					

LEGEND

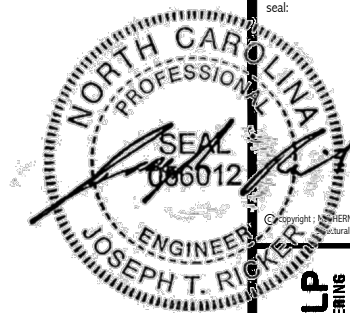
- [Symbol] INTERIOR BEARING WALL
- [Symbol] BEARING WALL ABOVE
- [Symbol] BEAM / HEADER
- [Symbol] INDICATES SHEAR WALL & EXTENT
- [Symbol] EXTENT OF OVERFRAMING

1L METAL HANGER

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

▶ INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

NON-BEARING HEADER SCHEDULE		
SPAN	2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL
UP TO 3'-0"	(1)2x4 FLAT	(1)2x6 FLAT
UP TO 6'-0"	(2)2x4	(3)2x4
UP TO 8'-0"	(2)2x6	(3)2x6
UP TO 12'-0"	(2)2x8	(3)2x8
<div><div>NOTES:</div><div>• ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x STUD" GRADE MEMBERS SPACED @ 24" O.C. (MAX.)</div></div>		



MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING

300 Dunsmuir Ave., Building 4 - Asheville, NC 28802

p 753-545-8881 • mulhern+kulp.com

NC LICENSE #C-3825

M&K project number:

126-22076

project mgr:

JTR

drawn by:

GTK

issue date:

06-11-25

REVISIONS:

date:

initial:

11-10-25

JAD

12-01-25

RPB

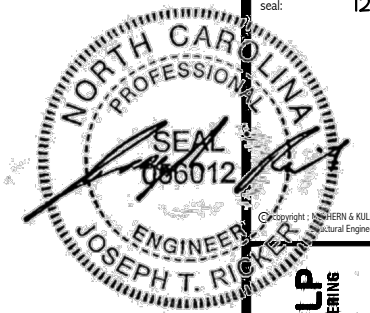


STRUCTURAL NOTES

FARM AT NEIL'S CREEK

LOT 174 - COOPER I

RALEIGH, NC



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Bankside Ave, Building 4 • Ardmore, PA 19002
P 215-676-0001 • mulhern@mkp.com
NC LICENSE #C-3825



&K project number:
126-22076

Project mgr: JTR
Drawn by: GTK
Issue date: 06-11-25

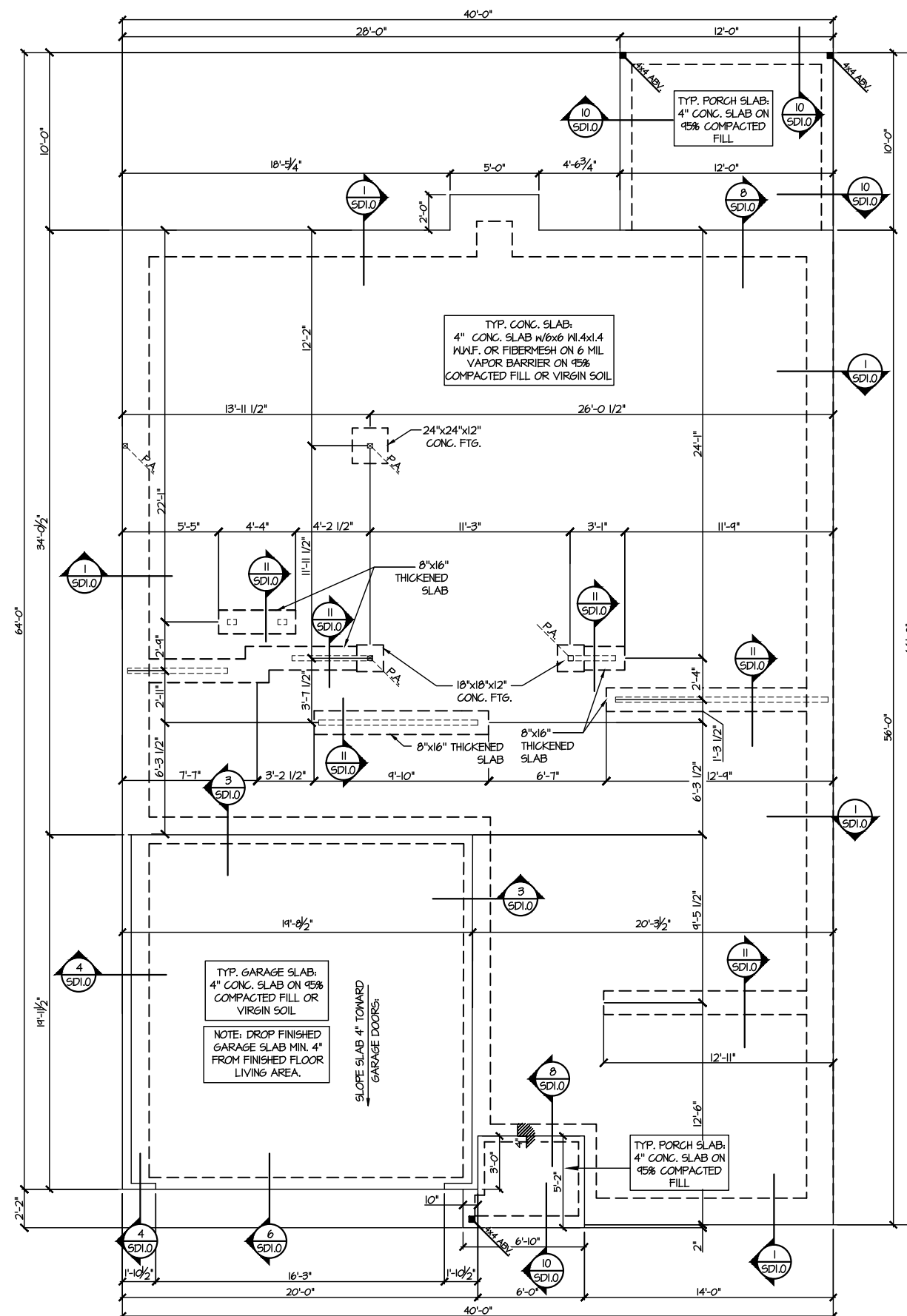
EVALUATIONS:	
date:	initial:
1-10-25	IAD
2-01-25	RPP



FOUNDATION PLANS
FARM AT NEIL'S CREEK
LOT 174 - COOPER I
RALEIGH, NC






meet:

\$1.0




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

LEGEND

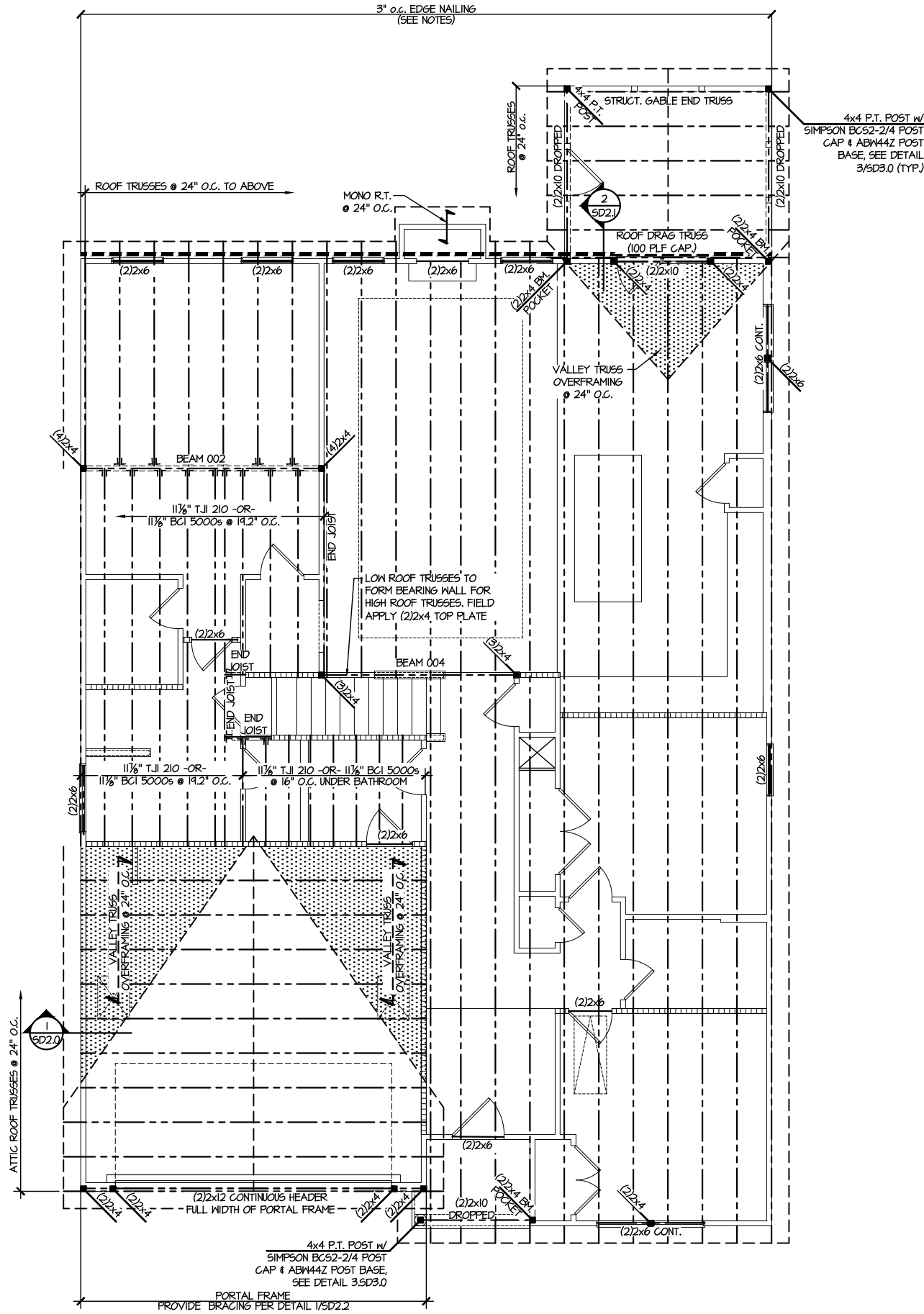
-  INTERIOR BEARING WALL
-  BEARING WALL ABOVE
-  BEAM / HEADER
-  INDICATES SHEAR WALL & EXTENT
-  EXTENT OF OVERFRAMING

11. 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



2ND FLOOR/LOW ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

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 FRI-60 SERIES I-JOISTS. ALL ALLOWABLE HOLES, BEARING STIFFENERS, AND JOIST TO JOIST CONNECTIONS ARE PER THE JOIST MANUFACTURER.

LEGEND

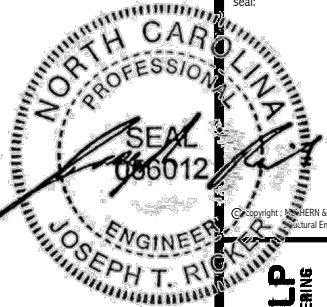
- INTERIOR BEARING WALL
- BEARING WALL ABOVE
- BEAM / HEADER
- INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- 1L METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

**REFER TO SO.0 FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES**

ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL. OPTION	PSL. OPTION	LSL. OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x11 1/8" - F	3/2"x11 1/8" - F	(3)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
002	(3)3/4"x11 1/8" - F	5/4"x11 1/8" - F	(4)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
003	(2)3/4"x11 1/8" - F	3/2"x11 1/8" - F	(3)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
004	(2)3/4"x11 1/4" - D	3/2"x11 1/4" - D	(2)3/4"x11 1/8" - D	(2)2x10 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - D	W8x10 - D

- 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.



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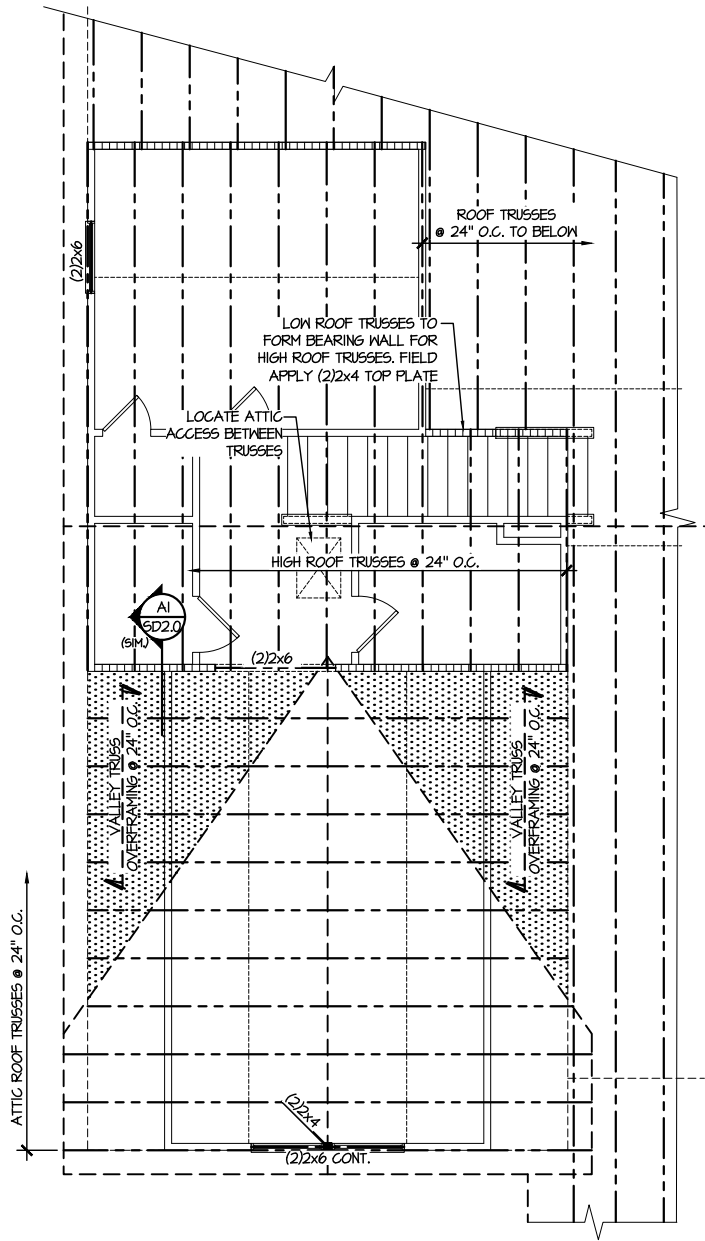
M&K project number: 126-22076
project mgr: JTR
drawn by: GTK
issue date: 06-11-25

REVISIONS:	
date:	initial:
11-10-25	JAD
12-01-25	RPP

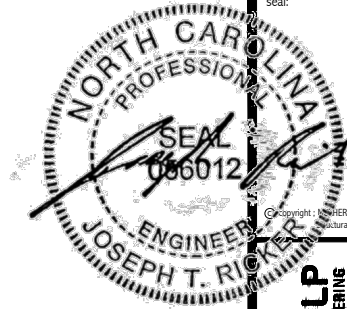
DRB HOMES

ROOF FRAMING PLANS
FARM AT NEILS CREEK
LOT 174 - COOPER I
RALEIGH, NC

sheet:
S2.0



1 ATTIC ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



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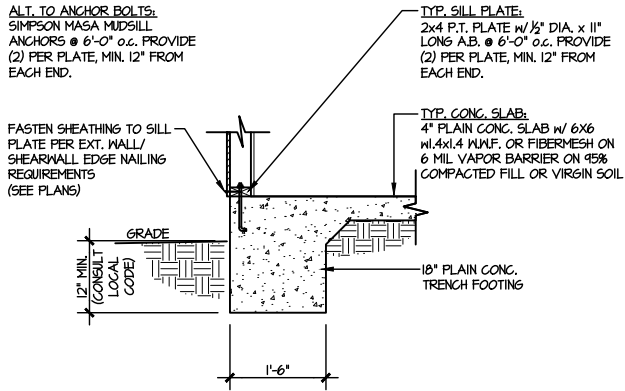
ROOF FRAMING PLANS
FARM AT NEIL'S CREEK
LOT 174 - COOPER I
RALEIGH, NC

sheet:
S3.0

LEGEND

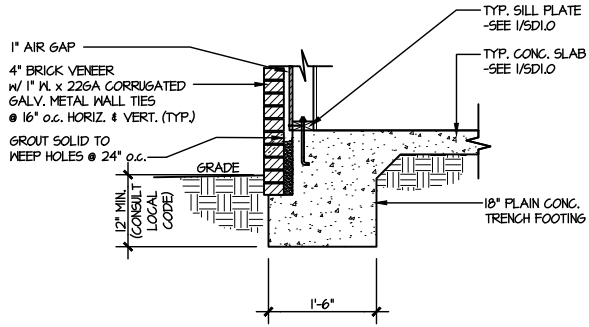
- [hatched pattern] INTERIOR BEARING WALL
- [dashed pattern] BEARING WALL ABOVE
- [solid line] BEAM / HEADER
- [dashed line] INDICATES SHEAR WALL & EXTENT
- [hatched pattern] EXTENT OF OVERFRAMING
- [triangle symbol] 1L METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- [triangle symbol] INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO S.O. FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES



1 TYPICAL SLAB ON GRADE PERIMETER FOOTING

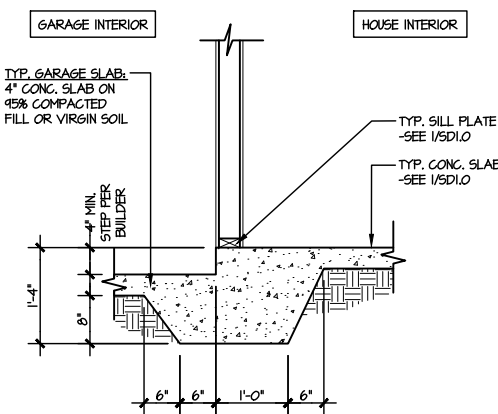
SCALE: 3/8"=1'-0"



2 TYPICAL SLAB ON GRADE PERIMETER FOOTING

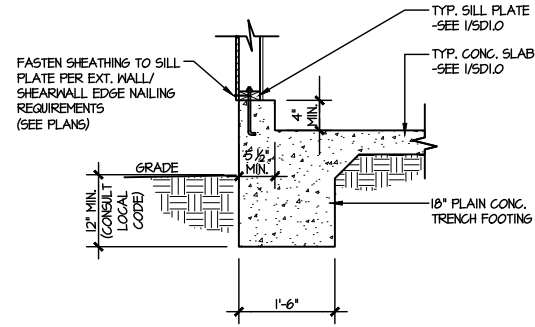
SCALE: 3/8"=1'-0"

N/ BRICK VENEER



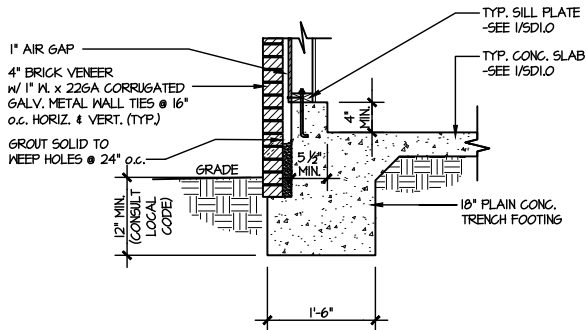
3 TYPICAL MONOLITHIC INTERIOR GARAGE FOOTING

SCALE: 3/8"=1'-0"



4 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

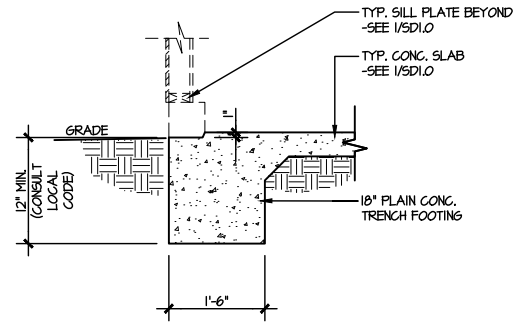
SCALE: 3/8"=1'-0"



5 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

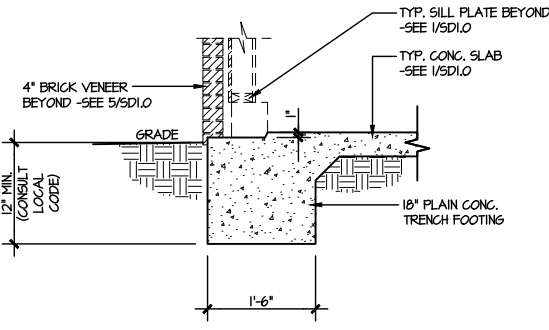
SCALE: 3/8"=1'-0"

N/ BRICK VENEER



6 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING

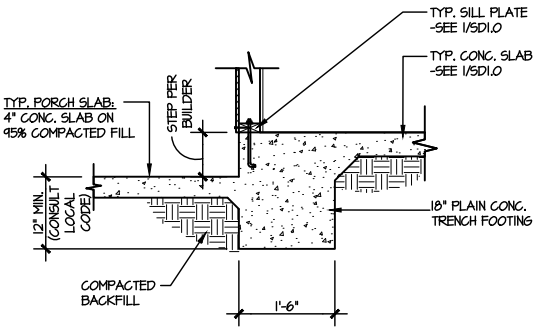
SCALE: 3/8"=1'-0"



7 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING

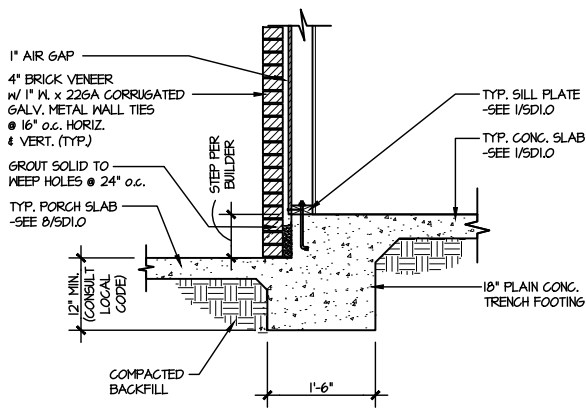
SCALE: 3/8"=1'-0"

N/ BRICK VENEER



8 TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO

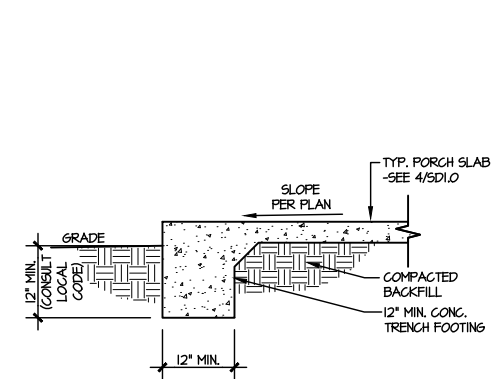
SCALE: 3/8"=1'-0"



9 TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO

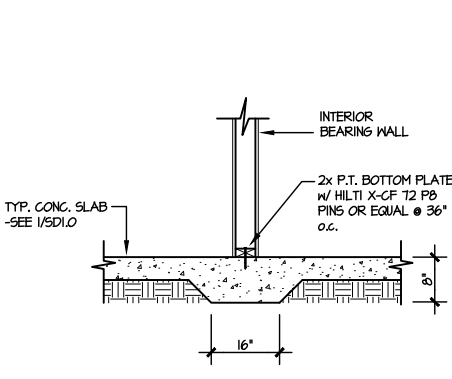
SCALE: 3/8"=1'-0"

N/ BRICK VENEER



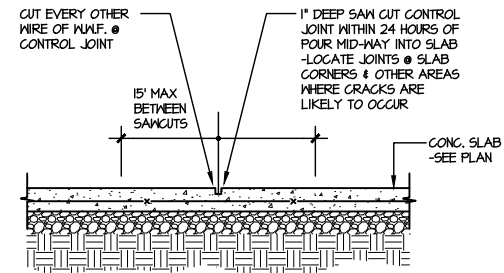
10 TYPICAL FOOTING @ PORCH SLAB

SCALE: 3/8"=1'-0"



11 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

SCALE: 3/8"=1'-0"



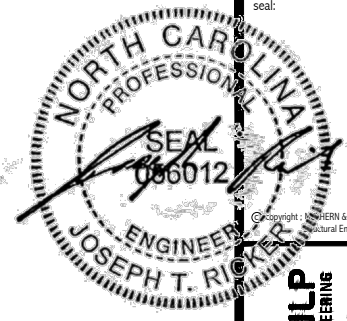
A TYPICAL CONTROL JOINT

SCALE: 3/8"=1'-0"

LOCATE @ 15'-0" o.c. MAX.
OR CORNERS WHERE CRACKS
LIKELY TO DEVELOP

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

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DRB
HOMES

FOUNDATION DETAILS

FARM AT NEILS CREEK

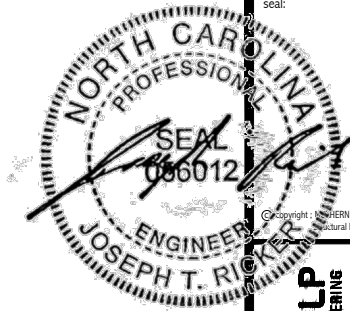
LOT 174 - COOPER I

RALEIGH, NC

sheet:

SD1.0

12/1/25



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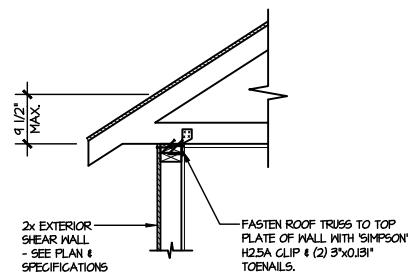
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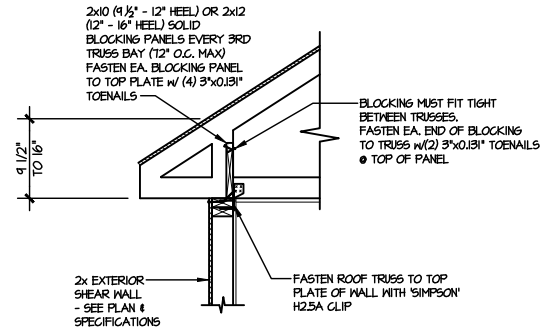
DRB HOMES

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 174 - COOPER I
RALEIGH, NC

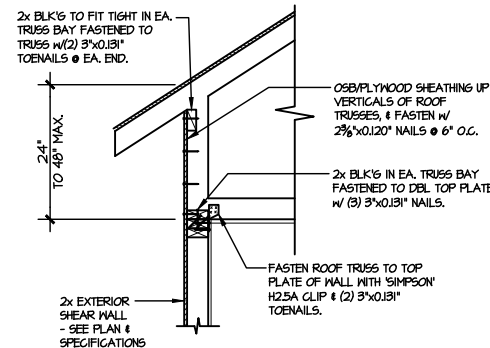
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SD2.0



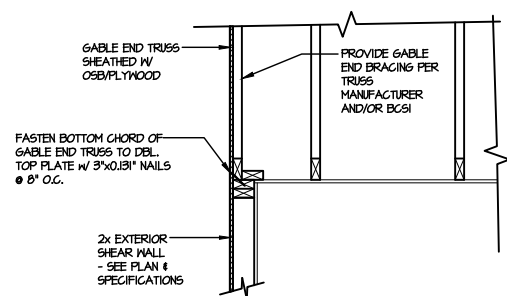
**TYPICAL SHEAR
TRANSFER DETAIL @ ROOF**
(A1) SCALE: 3/8"=1'-0" HEEL HEIGHT LESS THAN 9 1/2"
NO BLOCKING REQ'D



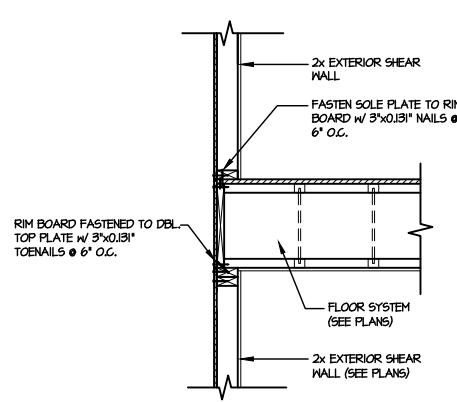
**TYPICAL SHEAR
TRANSFER DETAIL @ ROOF**
(A2) SCALE: 3/8"=1'-0" HEEL HEIGHT BETWEEN 9 1/2" - 16"
BLOCKING REQ'D



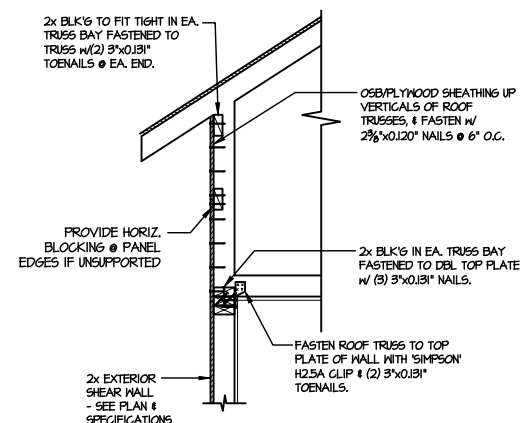
**TYPICAL SHEAR TRANSFER
DETAIL @ RAISED HEEL TRUSS**
(A3) SCALE: 3/8"=1'-0" HEEL HEIGHT UP TO 48" MAX.



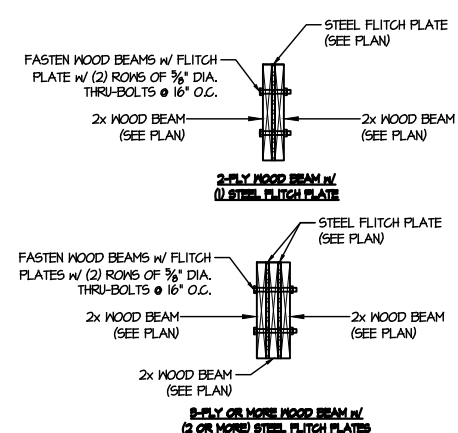
TYPICAL GABLE END DETAIL
(B) SCALE: 3/8"=1'-0"



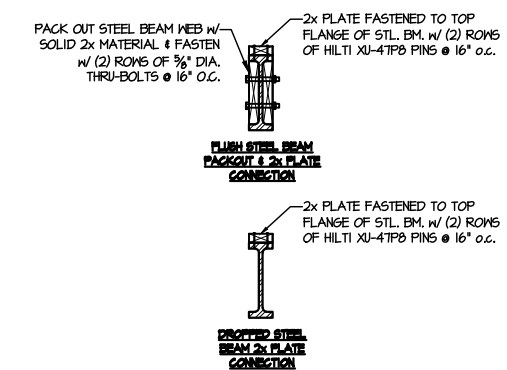
**TYPICAL SHEAR TRANSFER DETAIL
BETWEEN FLOORS @ EXTERIOR WALL**
(C) SCALE: 3/8"=1'-0"



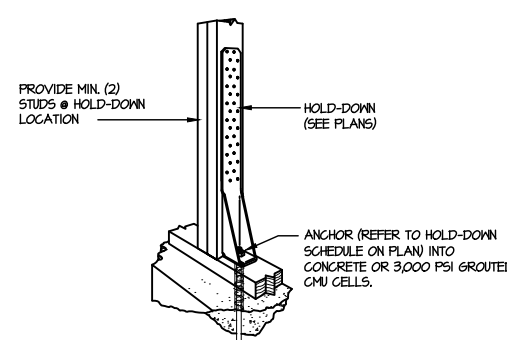
**TYPICAL SHEAR TRANSFER
DETAIL @ RAISED HEEL TRUSS**
(I) SCALE: 3/8"=1'-0" HEEL HEIGHT GREATER THAN 48"



TYPICAL FLITCH BEAM CONNECTION DETAIL
(D) SCALE: 3/4"=1'-0"



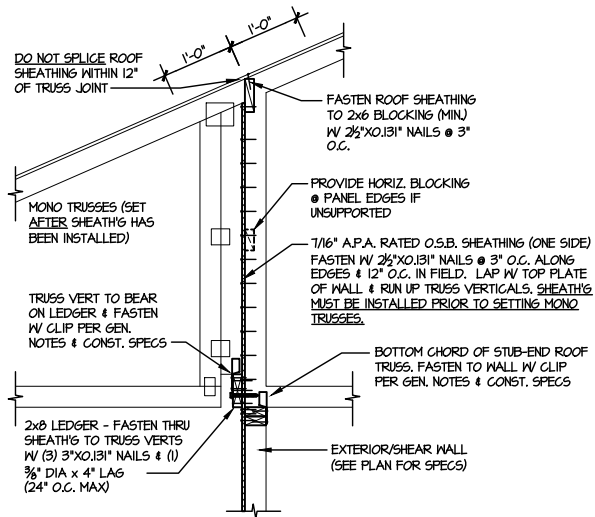
TYPICAL STEEL BEAM CONNECTION DETAIL
(E) SCALE: 3/4"=1'-0"



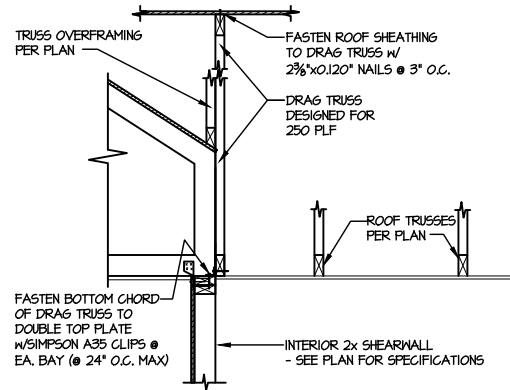
TYPICAL HOLD DOWN INSTALLATION
(FI) SCALE: N.T.S.

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

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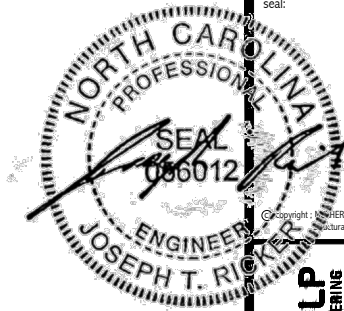
1 SHEAR TRANSFER DETAIL @
BREAK IN TRUSSES OVER SHEAR WALL
SCALE: 3/4"=1'-0" - 22-04
3/8"=1'-0" - 11x7



2 SHEAR TRANSFER DETAIL
AT INTERIOR SHEARWALL BELOW
SCALE: 3/4"=1'-0"

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seal: 12/1/25

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M&K project number:
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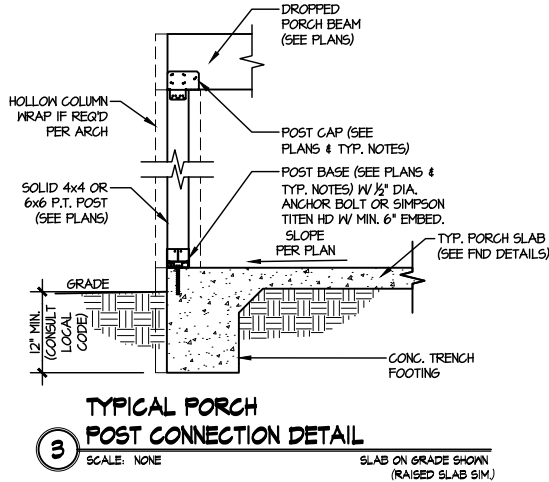
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12-01-25	RPP



FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 174 - COOPER I
RALEIGH, NC

sheet:
SD2.1



seal:

12/1/25

SEAL

086012

ENGINEER

JOSEPH T. RICKER

MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING

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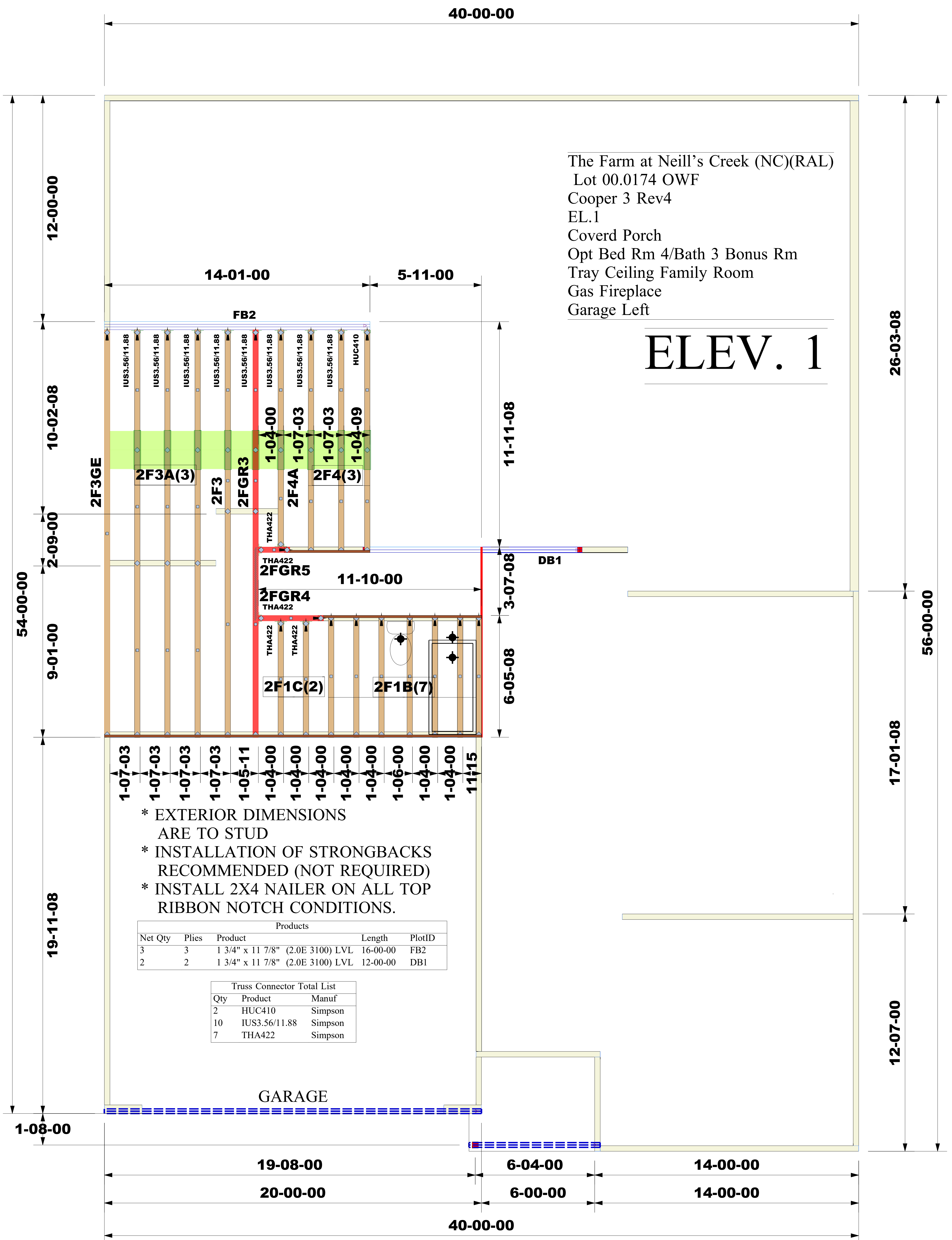
FRAMING DETAILS

FARM AT NEIL'S CREEK

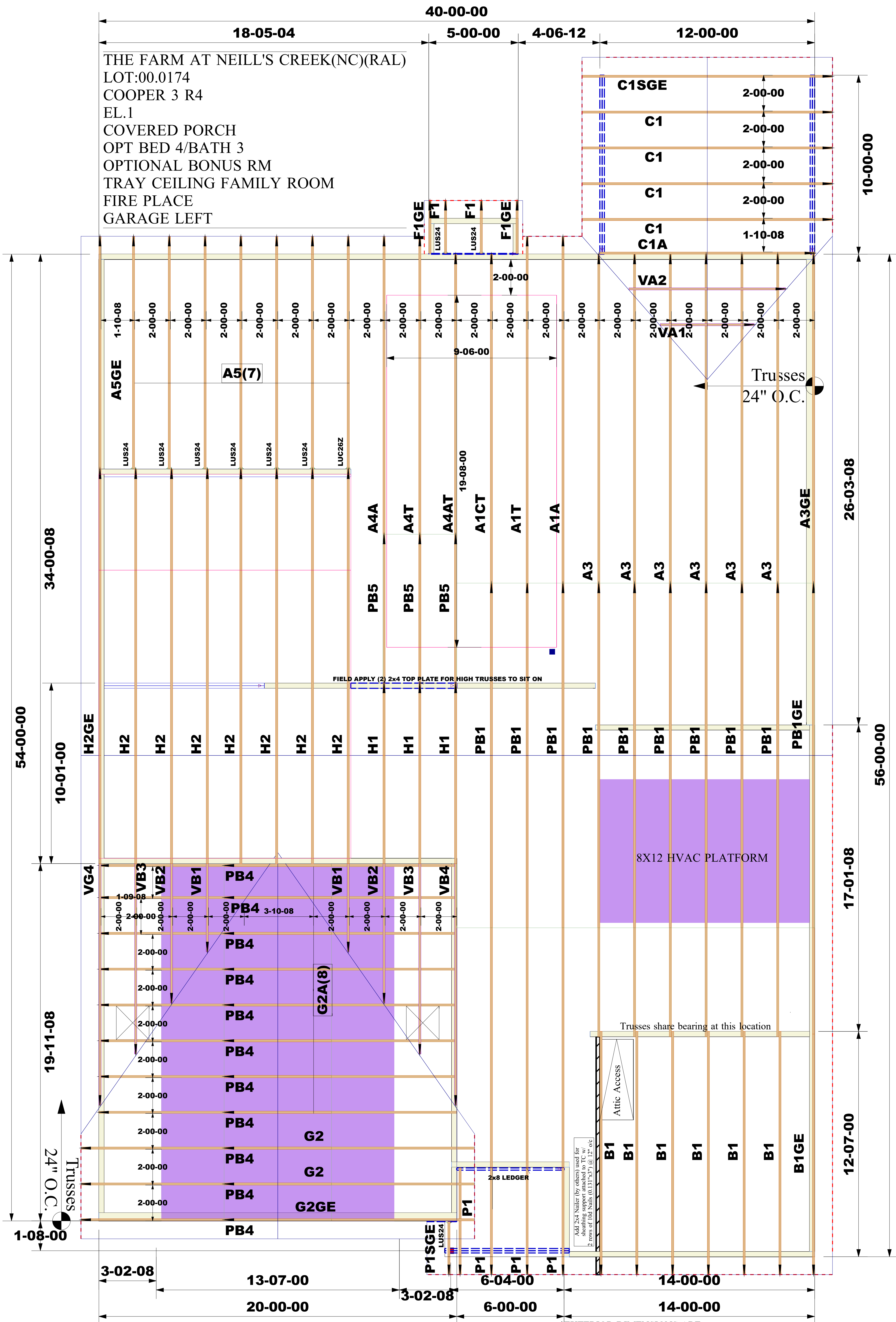
LOT 174 - COOPER I

RALEIGH, NC

SD3.0





THE FARM AT NEILL'S CREEK(NC)(RAL)
LOT:00.0174
COOPER 3 R4
EL.1
COVERED PORCH
OPT BED 4/BATH 3
OPTIONAL BONUS RM
TRAY CEILING FAMILY ROOM
FIRE PLACE
GARAGE LEFT



Truss Connector Total List		
Qty	Product	Manuf
1	LUC26Z	Simpson
11	LUS24	Simpson
145	One H2.5A	Simpson

*EXTERIOR DIMENSIONS ARE
TO STUD.
*TOE-NAIL CONNECTIONS U.N.O.
*TRUSSES @ 2' O/C U.N.O.
*SEE PROFILE DWGS. FOR TRUSS
ORIENTATION BEFORE INSTALLATION.

Job #:	2505-7782	<p>WARNING:</p> <p>CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINIONS DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMATION.</p> <p>TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY SHALL BE BRACED AS SPECIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.</p>	<p>NOTE:</p> <p>IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.</p> <p>"THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WYCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY."</p>	<p>Customer: DRB Raleigh</p> <p>Job Name: The Farm at Neill's Creek Lot 00.0174 Roof</p> <p>Lot #: 00.0174</p> <p>Model Name: COOPER 3</p>	 <p>Third-Party Quality Assurance Licensee TPI Plant W974</p> <p>Structural, LLC 201 Poplar Avenue Thurmont, MD 21788 Phone: 301-271-7591</p> 
Designer:	Rajkumar yadav				
Sales Rep:	Robbie Zarobinski				