# COOPER 3-RALE

RALEIGH - LOT 00.0184 THE FARM AT NEILL'S CREEK

(MODEL# 1777)

ELEVATION 6 - GL

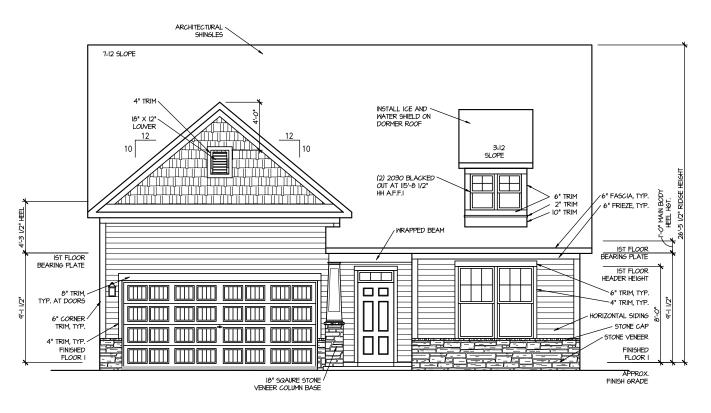


AREA CALCULATIONS ELEVATION 6		HEATED	COVERED / UNHEATED	UNCOVERED
FIRST FLOOR		1777 SF		
GARAGE			394 SF	
FRONT PORCH - ELEVATION 6			37 SF	
OPTIONS				
REAR FIREPLACE		10 SF		
SCREENED PORCH			120 SF	
	TOTAL	1787 SF	551 SF	

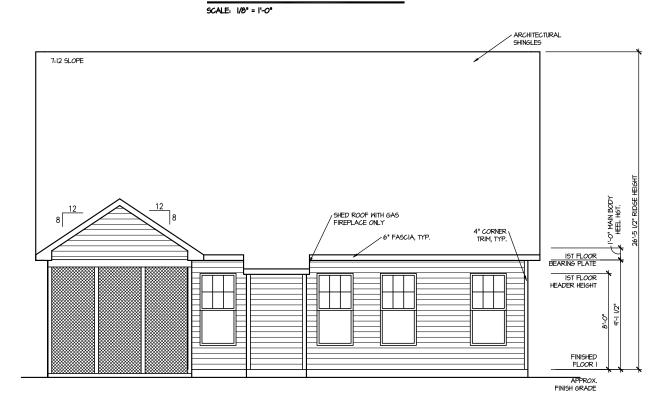
## 102 Appleseed Drive

LOT SPECIFIC				
1	LOT 00.0184			
<u> </u>	20. 00.0104	COOPER 3 REV. RALE 4 ELEVATION 6		
2	ADDRESS	102 APPLESEED DR LILLINGTON, NC 27546		
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### FRONT ELEVATION 6



REAR ELEVATION 6

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

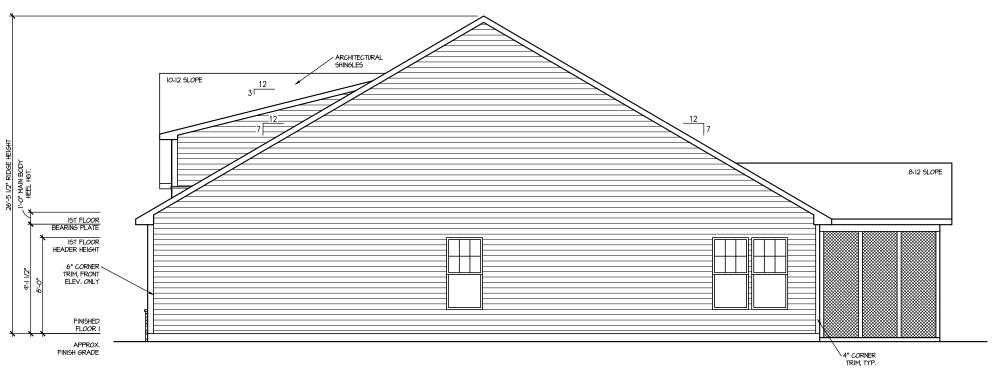
DRAWN BY: DATE: 03/28/2025

PLAN NO. 1777



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HOUSE NAME:
COOPER
DRAWING TITLE



## RIGHT ELEVATION 6 SCALE: 1/8" = 1'-0"

ARCHITECTURAL SHINGLES 10:12 SLOPE 8:12 SLOPE SHED ROOF WITH GAS FIREPLACE ONLY IST FLOOR HEADER HEIGHT 6" CORNER TRIM, FRONT 0 1-1-4 FINISHED FLOOR I

LEFT ELEVATION 6

DRAWN BY: DATE: 03/28/2025 4 PLAN NO. 1777



HOUSE NAME:
COOPER
DRAWING TITLE
RIGHT # LEF

ROOF VENTIL ATION CALCULATIONS:
ROOF MEN. 2019 SO. IT.
ROOF MEN. 2019 SO. IT.
OVERAL REQUIRED VARILATION.
1 TO BOO = 1.712 SO. FT.
1 LINEAR TEST OF SOFFIT X.5.1 SO. IN. - 2.45 SO. FT.
1 LINEAR TEST OF SOFFIT X.5.1 SO. IN. - 2.45 SO. FT.
1 LINEAR TEST OF RIDGE X. ID SO. IN. - 4.65 SO. FT.
1 4.65 SO. FT.
1 TO SOO ALLOWED)
1 TO SOO ALLOWED)
1 TO SOO ALLOWED)

8:12 SLOPE 8:12 SLOPE SHED ROOF WITH GA 12" OVERHANG -AT REAR (TYP.) 7:12 SLOPE 34 LF RIDGE VENT

HVAC PLATFORM
8' X 12' TYP. 7:12 SLOPE

> IO:12 SLOPE

IO:12 SLOPE

12" OVERHANG AT PORCH SIDE ROOF PLAN ELEV. 6

6" OVERHANG AT SIDES OF DORMER

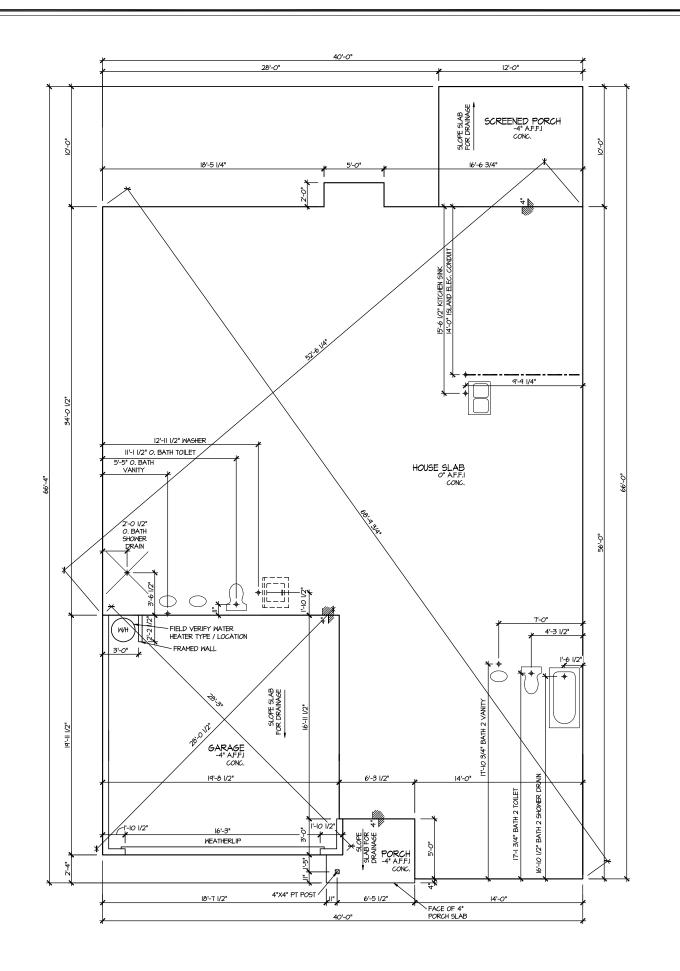
3:12 5LOPE DRAWN BY: ITS DATE: 03/28/2025 PLAN NO. 1777



HOUSE NAME:
COOPER 3
DRAWING TITLE
ROOF PLAN

SHEET No.

A1.3



UPDATED DATE 02-19-2025 DRAWN BY:

DATE: 03/28/2025 PLAN NO. 1777



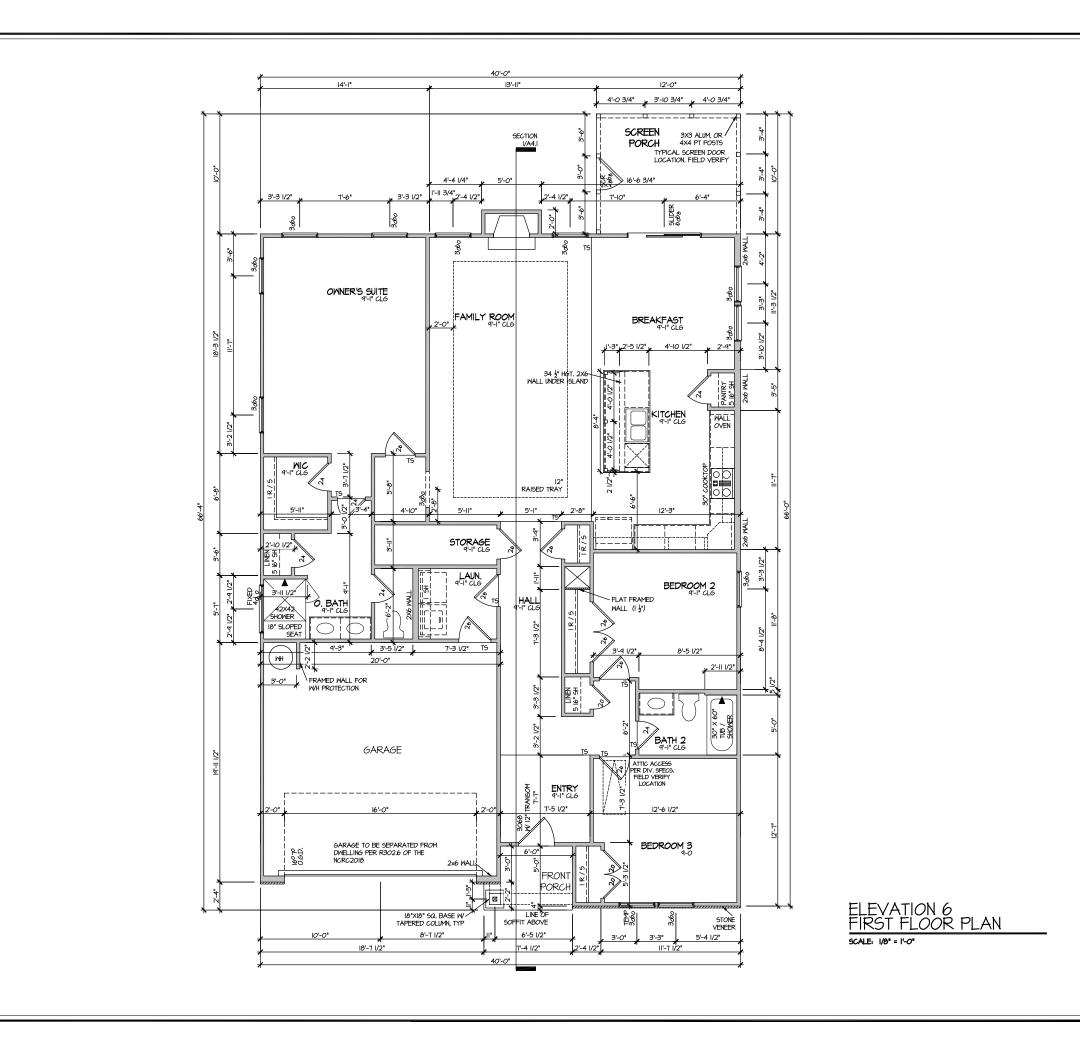
3 HOUSE NAME: COOPER DRAWING TITLE SLAB PLAN

SHEET No.

ELEVATION 6 SLAB PLAN

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

A2.1



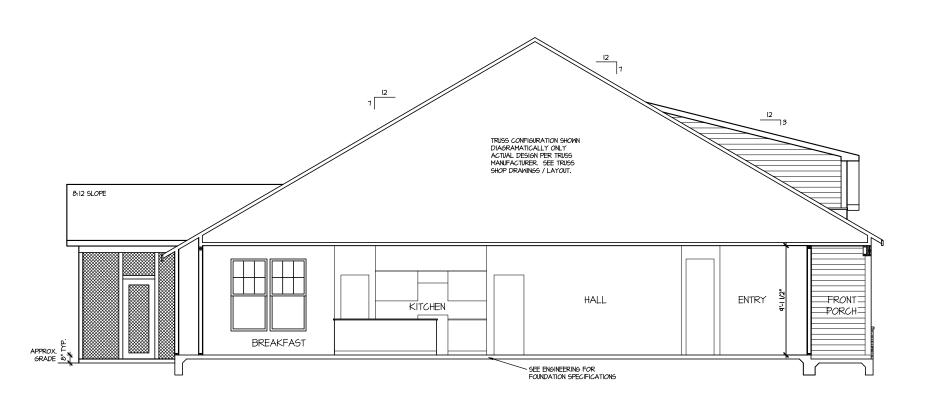
DRAWN BY:

DATE: 03/28/2025 PLAN NO. 1777



2 HOUSE NAME:
COOPER
DRAWING TITLE

SHEET No. A3.1



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

DRAWN BY: DATE: 03/28/2025

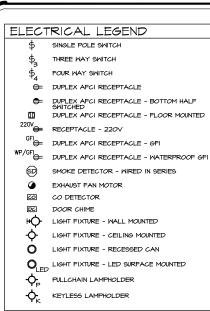
PLAN NO. 1777



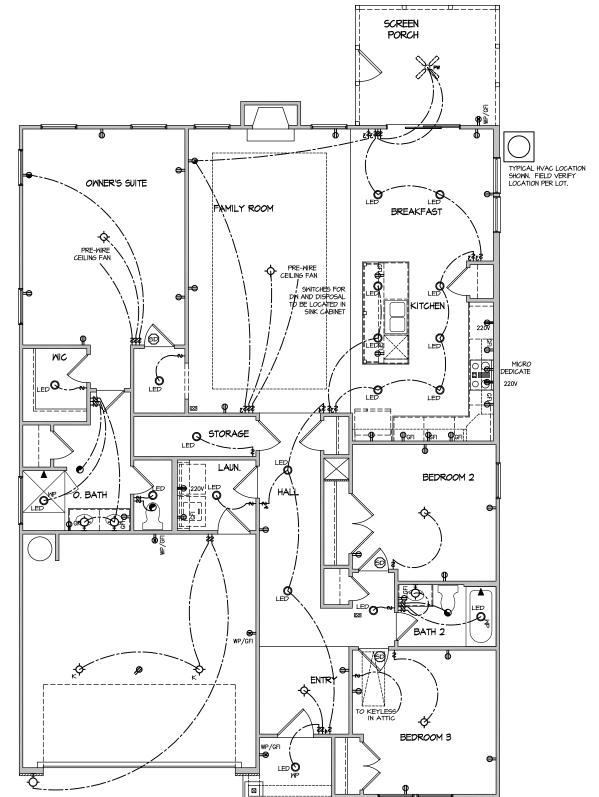
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SHEET No. A4.1

HOUSE NAME:
COOPER
DRAWING TITLE
BUILDING SE



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. 6

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

SHEET No.

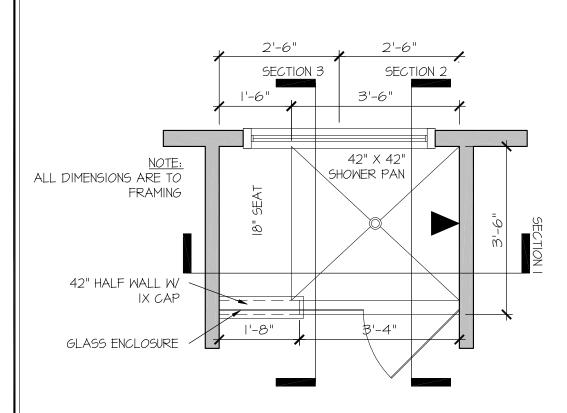
HOUSE NAME:
COOPER
DRAWING TITLE

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DRAWN BY:

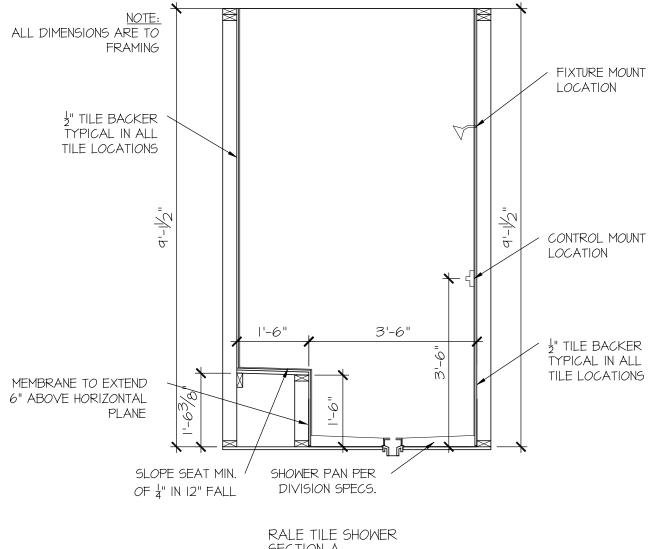
PLAN NO. 1777

DATE: 03/28/2025



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.

24 X 36 SCALE

~ "

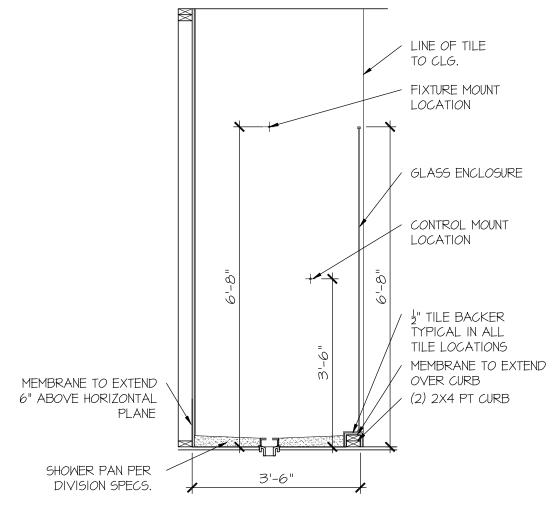


E ILE SHOWER DETAIL

OUSE NAME:

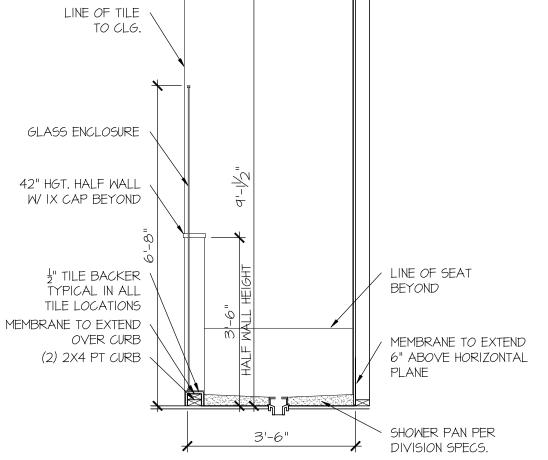
SHEET No.

P||.2

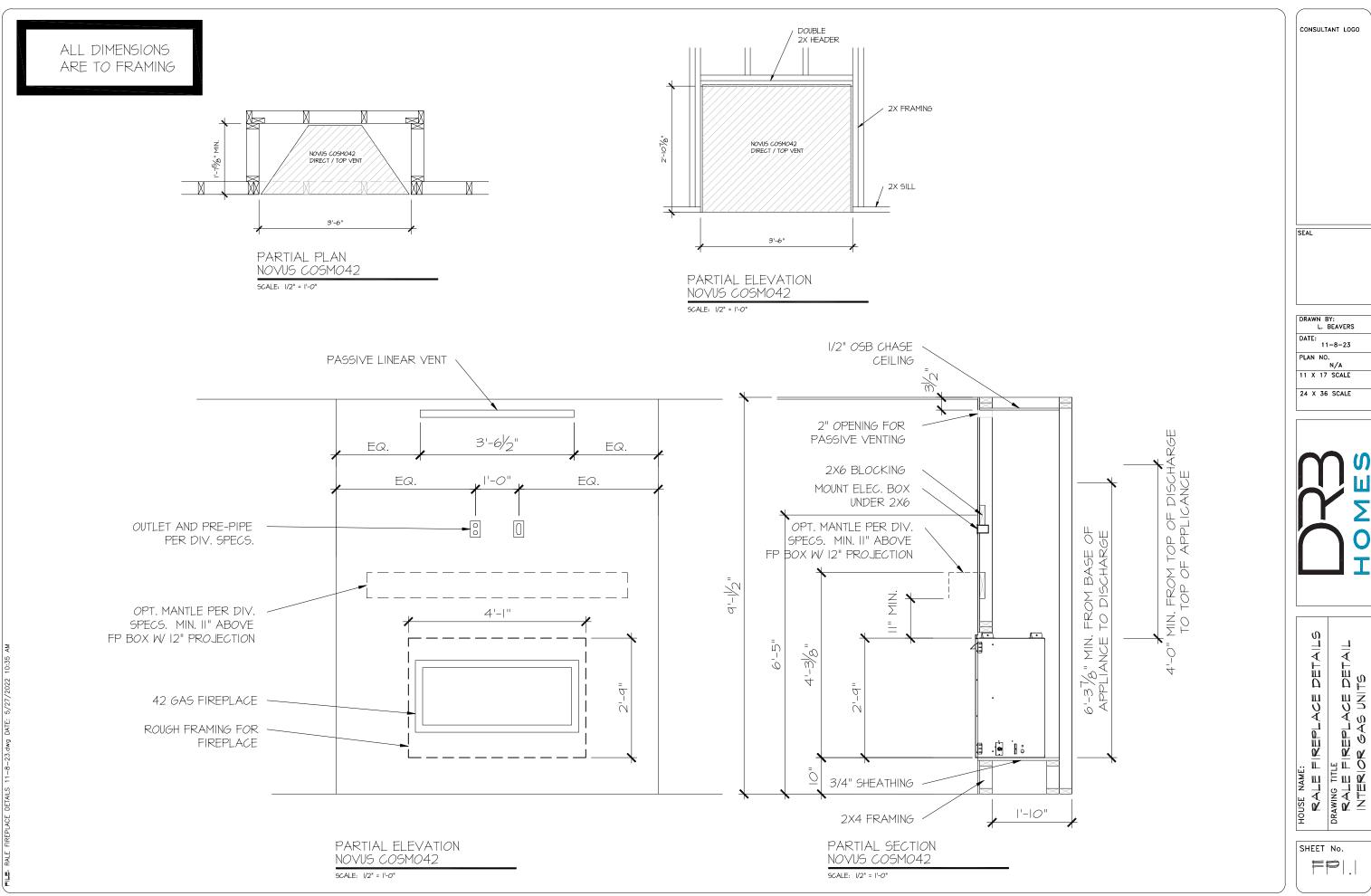


SCALE: 1/2" = 1'-0"





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



CONSULTANT LOGO

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



#### 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 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 VERIEY CORROSION-RESISTANCE COMPATIBILITY OF IARDWARE & 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 ACI 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 PLANS)
- TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (9 ½" 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 ISL FLOOR DECK
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT, FND, WALL WITH 2" CLEAR, REINFORGEMENT 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.C
- LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMEN
- 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
- 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 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.
- CMU 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

#### GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NDS. "NATIONAL DESIGN PECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION
- DESIGN LOADS:

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

LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN) 10 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

#### 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 REQUIREMENT FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(I) FOR ALL CONNECTIONS, TYP, U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS, @ 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, U.N.O. . WALLS OVER 12' TALL SHALL BE PER PLAN
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) 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 'STIJD' GRADE MEMBERS SPACED @ 16" O.C. (MAX., U.N.O.) HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- 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=1.55xI0^6 psi
   'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 psi
- 'PSL' FB=2400 PSI; FV=240 PSI; E=2.0XIO^6 PSI
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES RESULTING FROM OR RELATED TO ANY BUILDING COMPONENT IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALL ATION.
- 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"x31/2" SIMPSON SDS SCREWS (OR 31/3" 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. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 ½" OR 5 ¼" 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 1/4"x6" SIMPSON SDS SCREWS (OR 6 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
- 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 MANUE, 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" × 0.131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD.
- 2 3 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD. 2 🖁 × 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 TRIES TO TOP PLATE W/ SIMPSON H2 ST 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 WICA & TPI'S BOSI 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
  - RIM BOARD W/ (2) 3"x0 131" NAILS @ 16" OC 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" 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 8 × 0.113 NAILS 3 O.C. PANEL EDGES • 6 O.C. FIELD.

#### HOLD-DOWN SCHEDULE

	SYMBOL	SPECIFICATION
HD-I SIMPSON HTT4 HC		SIMPSON HTT4 HOLD-DOWN * (%" DIA. ANCHOR)
	► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) -OR- MSTC66B3 ALTERNATE
	<b>►</b> HD-3	SIMPSON STHD14/STHD14RJ

\* UTILIZE THE SSTB24 ANCHOR BOLT ● ALL MONOSLAB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN. OOTING THICKNESS REQUIRED

POXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 10" (FOR 5/8" DIA.) OR 5" (FOR 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE. NSTALL PER MANUE. INSTRUCTIONS, MINIMUM 16" FOOTING THICKNESS REQ'D. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF CONCRETE.

#### LEGEND

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

- \* 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"	(I)2x4 FLAT	(I)2x6 FLAT
UP TO 6'-0"	(2)2x4	(3)2×4
UP TO 8'-0"	(2)2x6	(3)2×6
UP TO 12'-0"	(2)2x8	(3)2×8

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

#### LATERAL BRACING & SHEAR MALL SHEATHING SPECIFICATIONS

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

20 MPH WIND IN 2018 NCSBC:RC (120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRG 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 R301.1.3 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 R602.3.5¢ R802.II.

#### EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W 2 3/8"XO.II3" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD, TYP, U.N.O.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS <u>NOT</u> 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 K" 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 3/8" 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 √ 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 ADDITIONAL CAPACITY IS REQUIRED BY DESIGN. T WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX, STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT, OSB SHEARWALL INDICATES HOLDOWN 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 AD JACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUS BEAMS DO NOT EXCEED THE FOLLOWING: ROOF TRUSSES:

- I/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" DEAL LOAD. (NOT DIFFERENTIAL DEFLECTION)

CAR OFESSIO. ENGINE

ERN+KUI 五  $\mathbf{\Sigma}^{\mathbf{g}}$ Y

1&K project numbe 126-22076

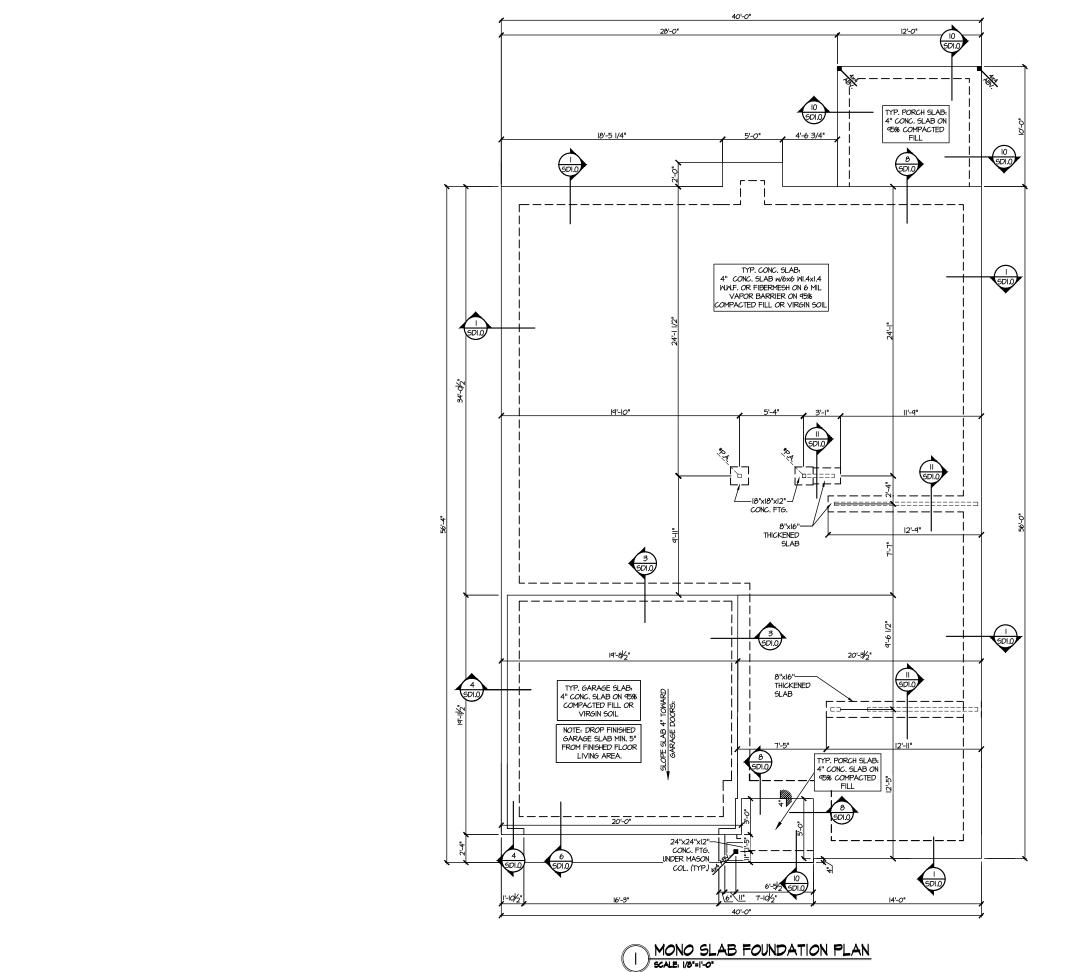
ITE rawn by: KJN ssue date: 04-02-2

REVISIONS:

initial:

CREEK TRUCTURAL NOTE NEIL'S  $\triangleleft$ 

RM  $\triangleleft$  $\mathbb{H}$ 



H CAR SEPH T. RI

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINERING ¥

M&K project number: 126-22076

JTR drawn by: KJN issue date: 04-02-25

REVISIONS:

initial:

A AT NEIL'S CREEK
- COOPER 6 FOUNDATION PLANS

FARM AT I

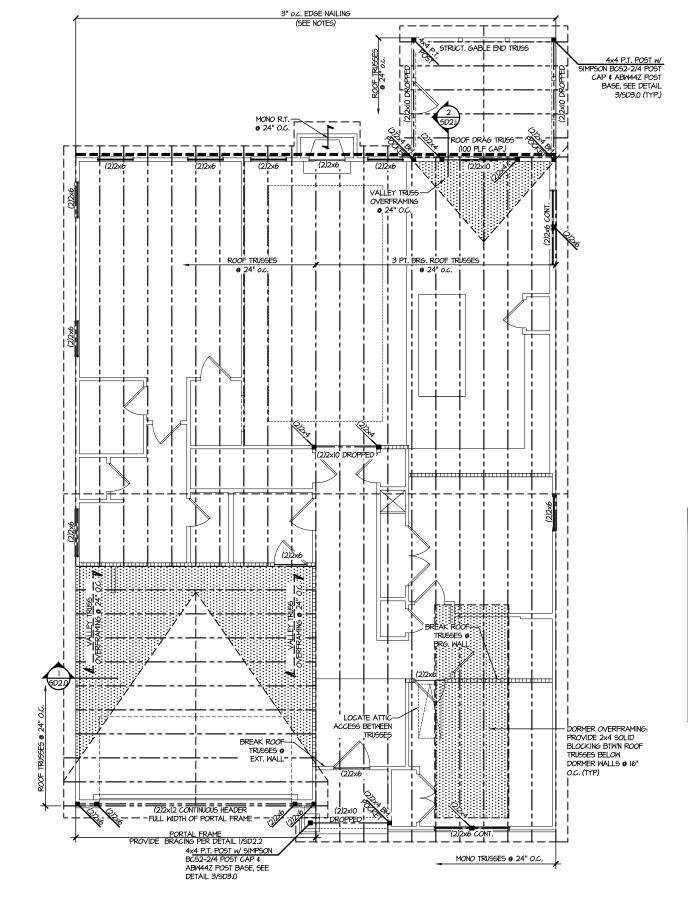
#### LEGEND

- IIIIIII INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE
- --- BEAM / HEADER
- ullet =  $\blacksquare$  INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- \* INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP.
  REFER TO SCHEDULE.

TYPICAL STRUCTURAL NOTES \$ SCHEDULES

REFER TO SO.O FOR

**S**1



MUCHERN+KULP
RESIDENTIAL STRUCTURAL ENSINEERING Y

4/4/25

H CAR

M&K project number: 126-22076

JTR frawn by: KJN ssue date: 04-02-2

REVISIONS:

initial:

CREEK

1 AT NEIL'S ( - COOPER 6

ROOF FRAMING

STEEL OPTION

WI2xI4 - F

WI2xI4 - F

WI2xI4 - F

WBXIO - D

#### (2)13/4"x11 1/2" - D

(2)13/4"x113/4" - F

(3)1¾"x11%" - F

(2)134"x1136" - F

BEAM LVL OPTION

001

002

003

004

- BEAM NOTATION:
   "F" INDICATES FLUSH BEAM
   "FT" INDICATES FLUSH TOP BEAM
   "FD" INDICATES FLUSH BOTTOM BEAM
   "D" INDICATES DROPPED BEAM

PSL OPTION

3%"xII%" - F

5¼"xII%" - F

3½"xII%" - F

3½"xII ‡" - D

- 'D' INJICALES DROHTED SEAM 'H' INDICATES DROPED OPENING HEADER REFER TO DETAIL D/5020 FOR TYPICAL FILITCH BEAM CONNECTIONS REFER TO DETAIL E-5020 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"X0120" NAILS & 8" O.C. FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN

ENGINEERED BEAM MATERIAL SCHEDULE

LSL OPTION

(3)134"x1136" - F

(4)13/4"×117/6" - F

(3)1¾"x11½" - F

(2)134"x1136" - D

PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" O.C.

#### LEGEND

FLITCH OPTION (2)2x12 + (1) %"x114" STEEL FLITCH PLATES - F

(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES -

(2)2xl2 + (l) %"xll\" STEEL FLITCH PLATES - F

(2)2xl0 + (I) %"xlK" STEEL FLITCH PLATES - D

- INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE
- --- BEAM / HEADER
- ullet INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- \* INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

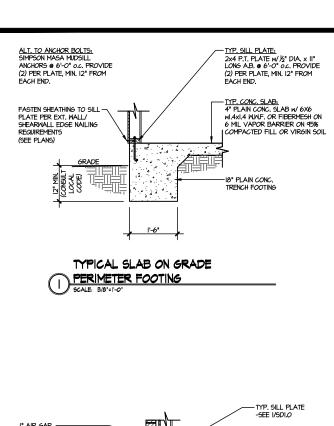
TYPICAL STRUCTURAL NOTES & SCHEDULES

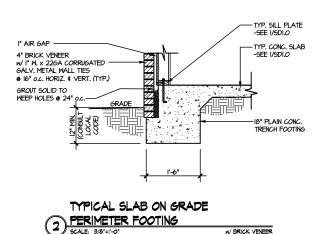
ROOF FRAMING PLAN SCALE: 1/8"=1'-0"

REFER TO SO.O FOR

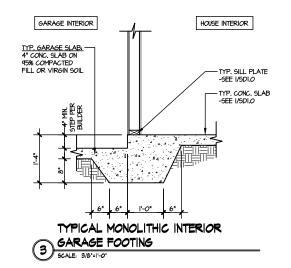
**S2.0** 

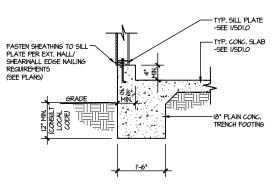
FARM LOT 184 - C RALEIGH, N



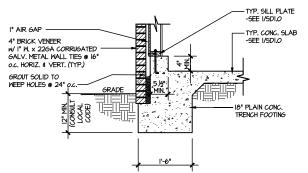


w/ BRICK VENEER

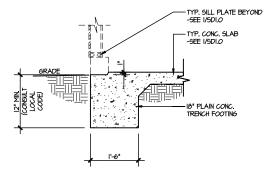




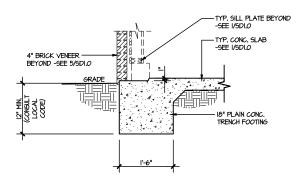




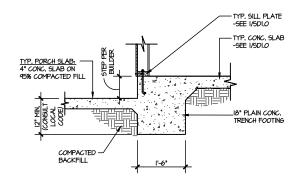




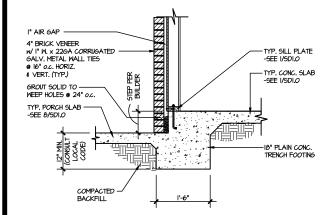
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING



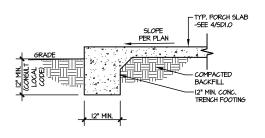
TYPICAL SLAB ON GRADE GARAGE PENTRY @ PERIMETER FOOTING



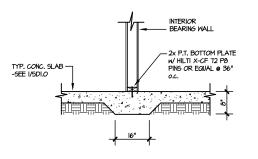
TYPICAL SLAB ON GRADE PERIMETER (8) FOOTING @ PORCH/PATIO



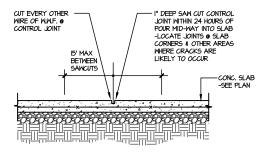
TYPICAL SLAB ON GRADE PERIMETER POOTING @ PORCH/PATIO



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL





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.

OUNDATION DETAILS I AT NEIL'S (
COOPER 6 FARM LOT

CREEK

4/4/2

STRUCTURAL ENGINEER

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M&K project number 126-22076

frawn by:

REVISIONS:

JTF

KJN

initial:

ssue date: 04-02-2

CAR

OFESSIO.

ENGINE

SEPH T. RI

#### TYPICAL SHEAR

TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT LESS THAN HEEL HEIGHT LESS THAN 9 ½" NO BLOCKING REQ'D

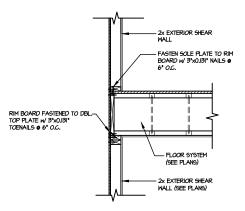


#### TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D

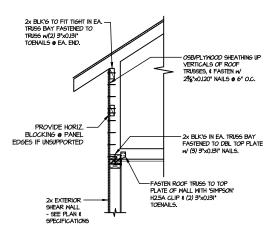
SHEAR WALL - SEE PLAN & SPECIFICATIONS

2xIO (4 ½\* - 12\* HEEL.) OR 2xI2 (12\* - 16\* HEEL.) OR DUID BLOCKING PANELS EVERY 3RD TRUSS BAY (12\* O.C. MAX) FASTEN EA BLOCKING PANEL TO TOP PLATE W (4) 3\*x0,131\* TOENAILS

-BLOCKING MUST FIT TIGHT
BETWEEN TRUGSES.
FASTEN EA. END OF BLOCKING
TO TRUSS W(2) 3"XO.131" TOENAILS
O TOP OF PANEL

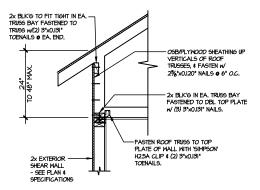


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 9/8'=1'-0'

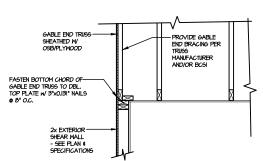


#### TYPICAL SHEAR TRANSFER

DETAIL @ RAISED HEEL TRUSS HEEL HEIGHT GREATER THAN 48"



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS
SCALE: 3/8'=1'-0" HEEL LECTRIC TO THE L



TYPICAL GABLE END DETAIL SCALE: 3/8°=1-0°

**y** M&K project number: 126-22076

MULHERN+KULP

4/4/25

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SEPH T. RI

JTR drawn by: KJN ssue date: 04-02-2

REVISIONS:

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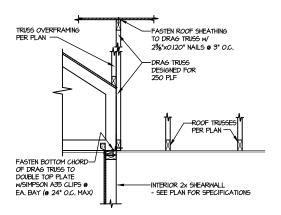
CREEK FRAMING DETAILS
FARM AT NEIL'S CI
LOT 184 - COOPER 6
RALEIGH, NC

NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED

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

WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS. **SD2.0** 

SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL SCALE 9/4"-11-0" - 22:34 9/6"-11-0" - 10:47



SHEAR TRANSFER DETAIL

AT INTERIOR SHEARMALL BELOW

SCALE 344-1-0"

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OSEPH T. RI MUCHERN+KULP ¥ M&K project number:

4/4/25

TH CAR

126-22076

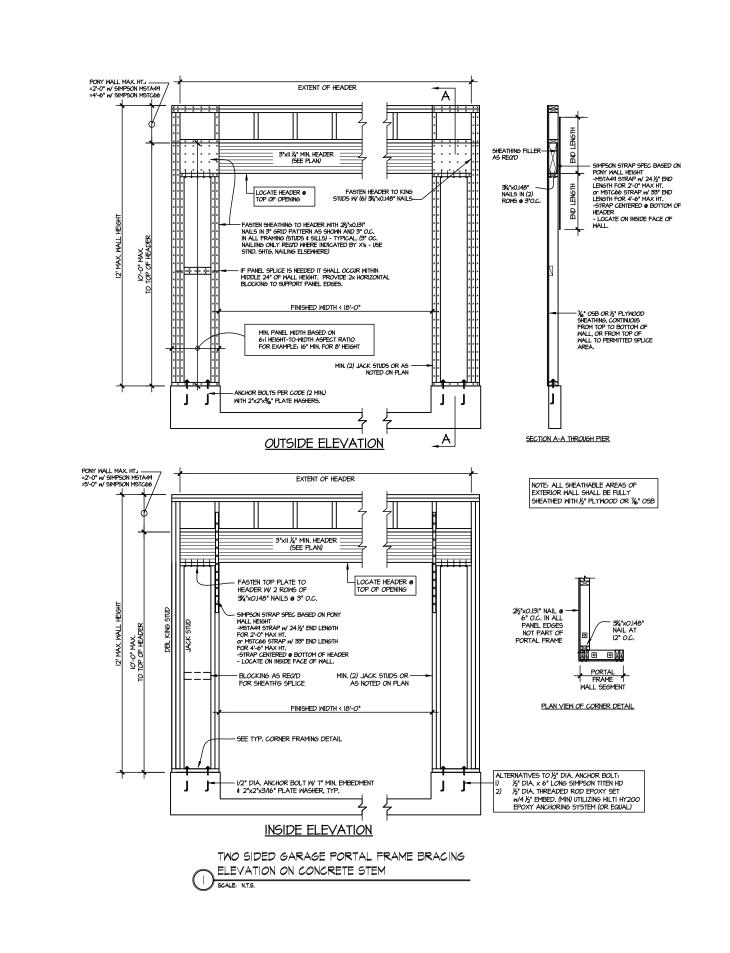
JTR drawn by: KJN issue date: 04-02-25

REVISIONS:

initial:

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 184 - COOPER 6
RALEIGH, NC

SD2



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4/4/25

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M&K project number: 126-22076

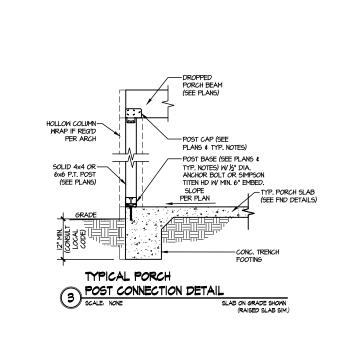
JTR drawn by: KJN ssue date: 04-02-2

REVISIONS:

initial:

FRAMING DETAILS FARM AT NEIL'S (LOT 184 - COOPER 6
RALEIGH, NC

**SD2.2** 



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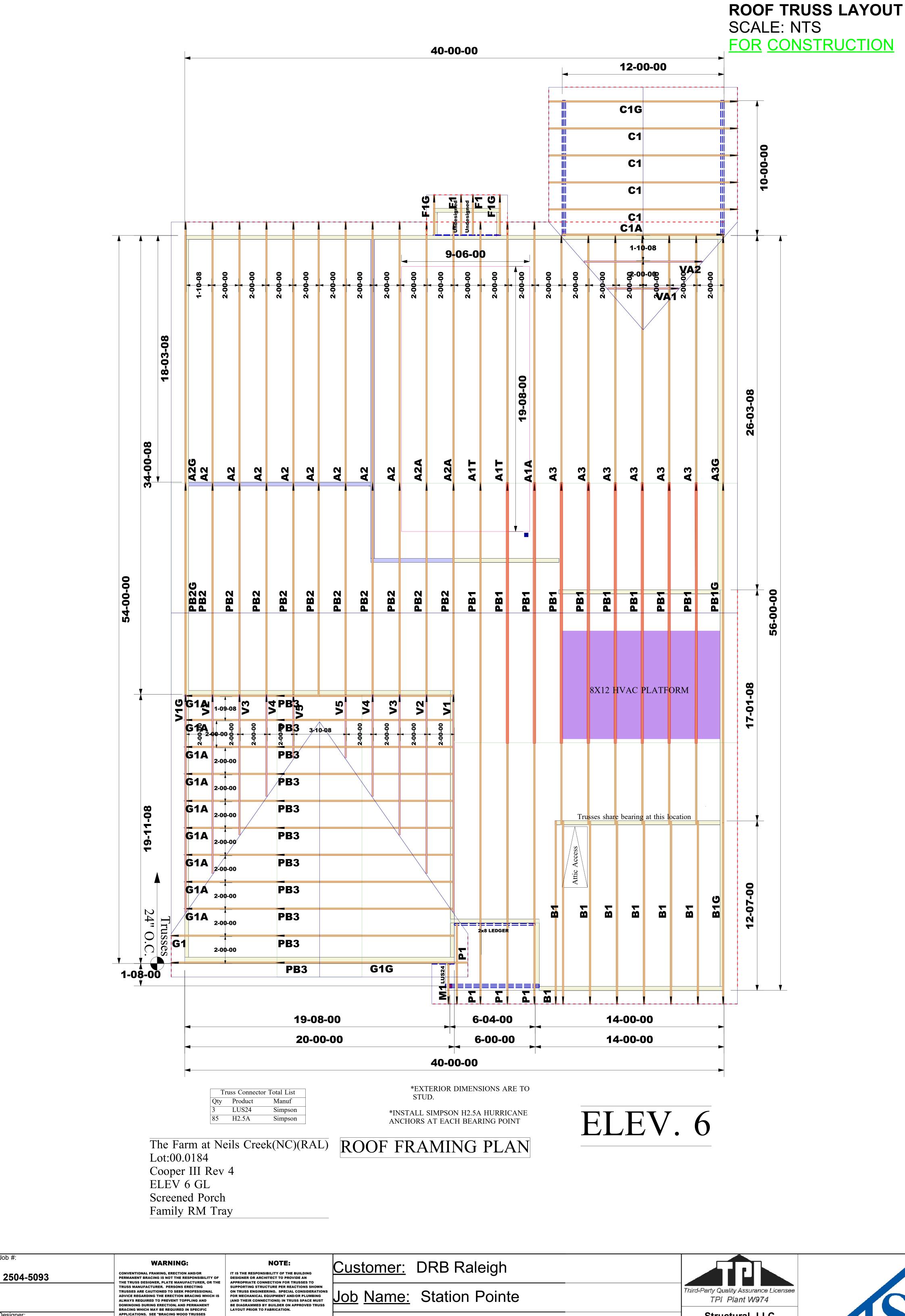
M&K project number: 126-22076

project mgr: JTR drawn by: KJN issue date: 04-02-25

REVISIONS:

FARM AT NEIL'S CREEK LOT 184 - COOPER 6

SD3.0



Job #:

Designer:

**Bharath Charles** 

**Robbie Zarobinski** 

THIS COMPANY IS A TRUSS MANUFACTURER WHOSE

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.

RESPONSIBILITIES ARE LIMITED TO THOSE

DESCRIBED IN WTCA 1-1995 "DESIGN

TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND

PLUMB POSITION WHERE NO SHEATHING IS APPLIED

DIRECTLY TO TOP AND/OR BOTTOM CHORDS. THEY

REASONABLE CARE DURING ERECTION TO PREVENT

DESIGN. TRUSSES SHALL BE HANDLED WITH

DAMAGE OR PERSONAL INJURY.

SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED

<u>ot #:</u> Lot 00.01840172

ot 00.0184 Roof

Model Name: Cooper 3The Farm at Neills Creek

Structural, LLC 201 Poplar Avenue Thurmont, MD 21788 Phone: 301-271-7591