## COOPER 3-RALE

RALEIGH - LOT 00.0087 THE FARM AT NEILL'S CREEK

(MODEL# 1776)

ELEVATION 6 - GL

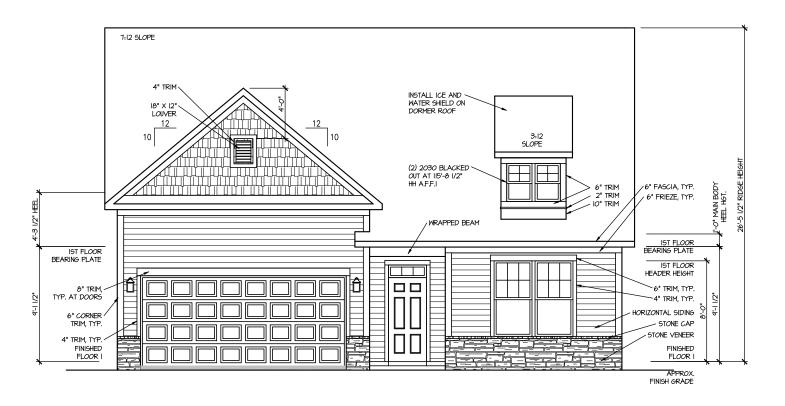
<u>INDEX</u>

# 103 HOMES

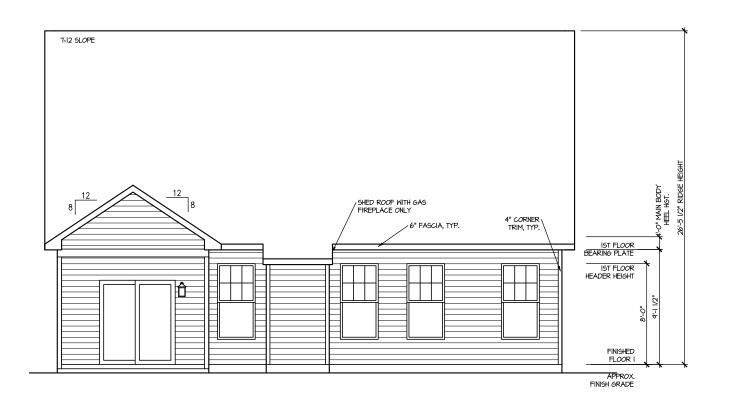
AREA CALCULATIONS  ELEVATION 6	HEATED	COVERED / UNHEATED	UNCOVERED
FIRST FLOOR	1777 SF		
GARAGE		394 SF	
FRONT PORCH - ELEVATION 6		37 SF	
OPTIONS			
COVERED PORCH		120 SF	
2' GARAGE EXT.		40 SF	
REAR FIREPLACE	10 SF		
TOTAL	1787 SF	591 SF	
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### 83 WINDING CREEK DRIVE

	SPECIFIC	
1	LOT 00.0087	THE FARM AT NEILL'S CREEK
		COOPER 3 REV. RALE 4 ELEVATION 6
2	ADDRESS	83 WINDING CREEK DR LILLINGTON, NC 27546
	1	
	1	
	1	
	1	
	1	



## FRONT ELEVATION 6



REAR ELEVATION 6 scale: 1/8" = 1'-0"

FILE: Lot 00.0087.dwg DATE: 5/18/2023 1:40 PM

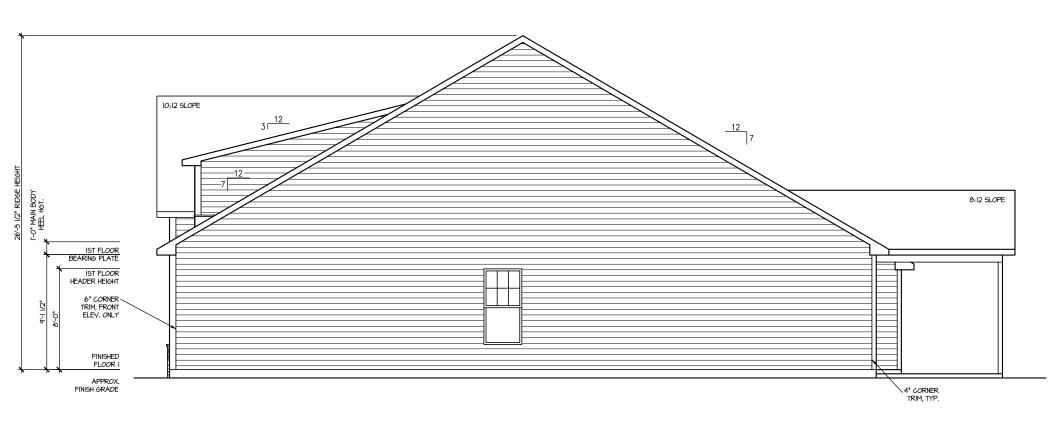
HOM MEN

DRAWN BY:

DATE: 05/18/2023 PLAN NO. 1776

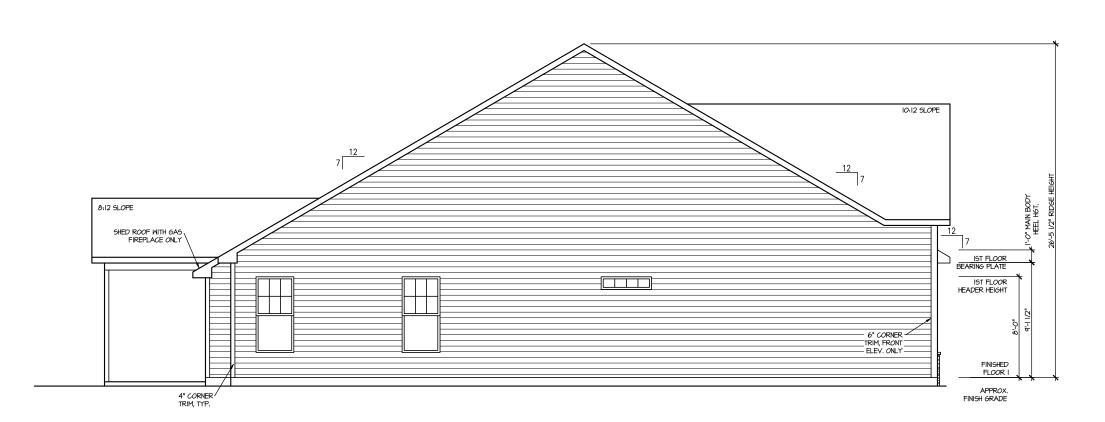
FRONT & REAR ELEVATIONS

HOUSE NAME: COOPER DRAWING TITLE



RIGHT ELEVATION 6

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



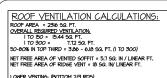
LEFT ELEVATION 6

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

ILE: Lot 00.0087.dwg DATE: 5/18/2023 1:40 PM

DATE: 05/18/2023 PLAN NO. 1776

DRAWING TITLE RIGHT & LEFT ELEVATIONS



LOVER YENTING, (BOTTOM 2/3 RDS)

14 LINEAR FIET OF SOFFIT X 9.1 50, IN. = 2.43 50, FT.

14 LINEAR YENTING, (TOP 2/3 RD)

15 LINEAR FIET OF RIDGE X IB 50, IN. = 4.88 50, FT.

16 LINEAR FIET OF RIDGE X IB 50, IN. = 4.88 50, FT.

10 20 00 ALLOVER)

TOTAL ROOF VENTLATION, TAB 50, FT. > 1.12 50, FT. (RGID)

8:12 SLOPE 8:12 SLOPE SHED ROOF WITH GAS 12" OVERHANG -AT REAR (TYP.) APPROX. LOCATION OF RAISED TREY AT FAMILY ROOM 7:12 5LOPE 12" OVERHANG AT SIDES (TYP.) LINE OF BONUS 39 LF RIDGE VENT HVAC PLATFORM 8' X I2' TYP. ATTIC ACCESS PER DIV. SPECS. FIELD VERIFY LOCATION 10:12 10:12 3:12 5LOPE SLOPE SLOPE

12" OVERHANG AT FRONT (TYP.)

ROOF PLAN ELEV. 6

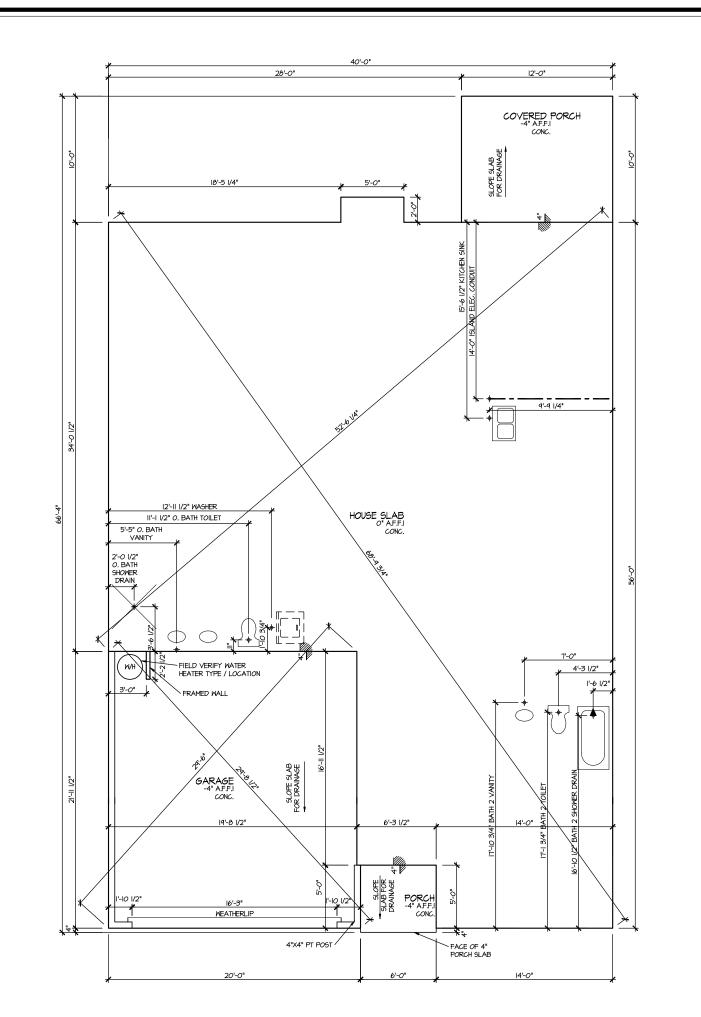
SCALE: 1/8" = 1'-0"

DRAWN BY:

DATE: 05/18/2023 PLAN NO. 1776



3 HOUSE NAME:
COOPER
DRAWING TITLE
ROOF PLAN



ELEVATION 6 SLAB PLAN SCALE: 1/8" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

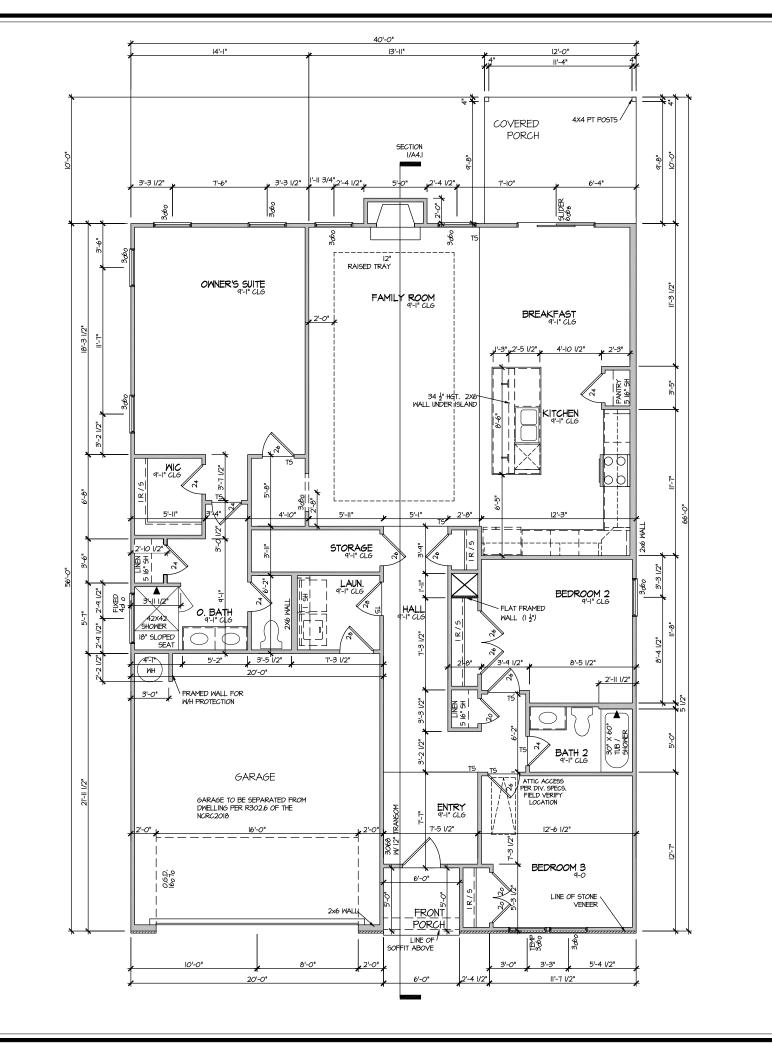
REVISION DATE

02/18/2022

PLAN NO.
11/16

HOME

HOUSE NAME:
COOPER 3
DRAWING TITLE
SLAB PLAN



ELEVATION 6 FIRST FLOOR PLAN scale: 1/8" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION DATE

A-RALE 2-24-2022

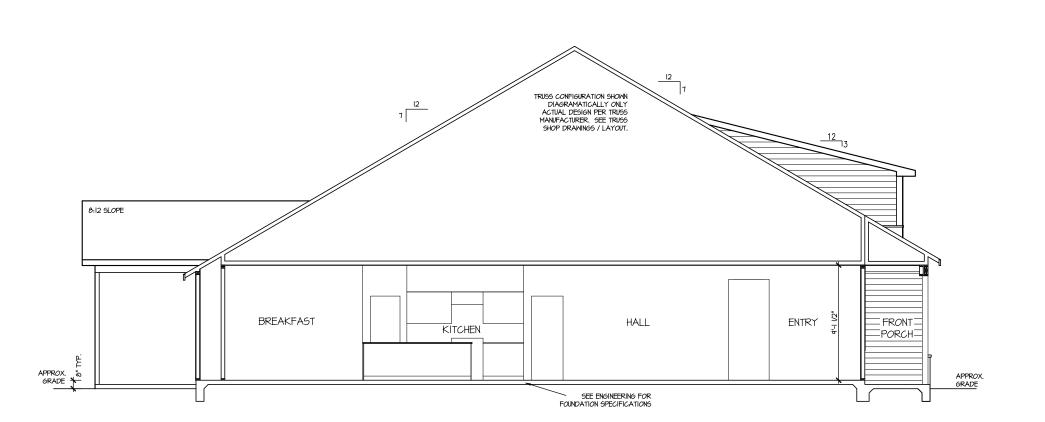
A-20-2022

A-20-2022

HOMES

HOUSE NAME:
COOPER 3
DRAWING TITLE
FIRST FLOOR PLAN

SHEET No. A3.1

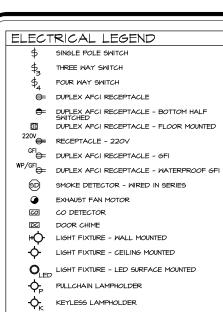


SECTION | SCALE: 1/8" = 1'-0"

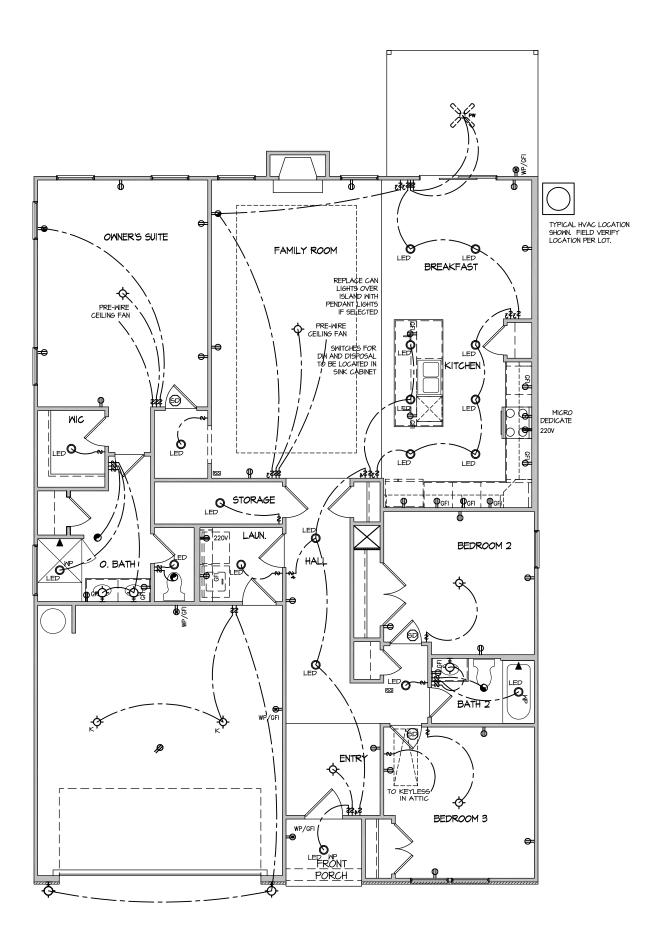
DRAWN BY: DATE: 05/18/2023 PLAN NO. 1776

HOUSE NAME:
COOPER 3
DRAWING TITLE
BUILDING SECTION

SHEET No. A4.I



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.



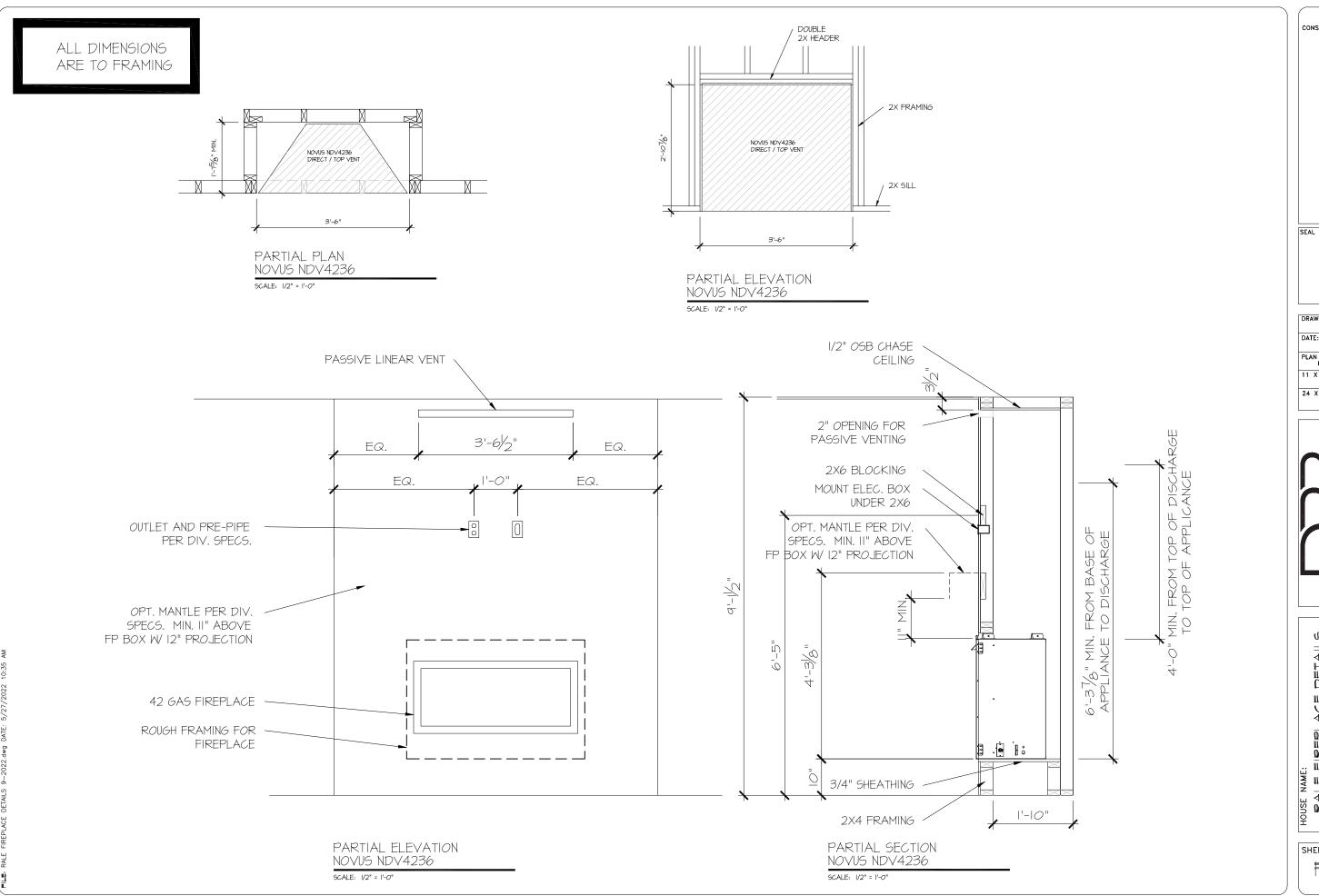
DRAWN BY: DATE: 05/18/2023

PLAN NO. 1776



ELECTRICAL 2 FLOOR

HOUSE NAME: COOPER DRAWING TITLE



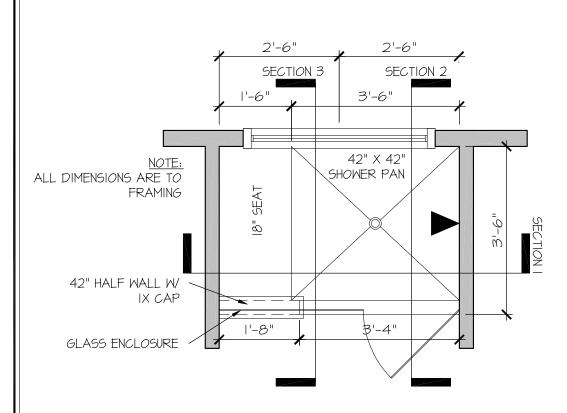
CONSULTANT LOGO

DRAWN BY: DATE:

PLAN NO. L. BEAVERS 11 X 17 SCALE 9-8-22 24 X 36 SCALE

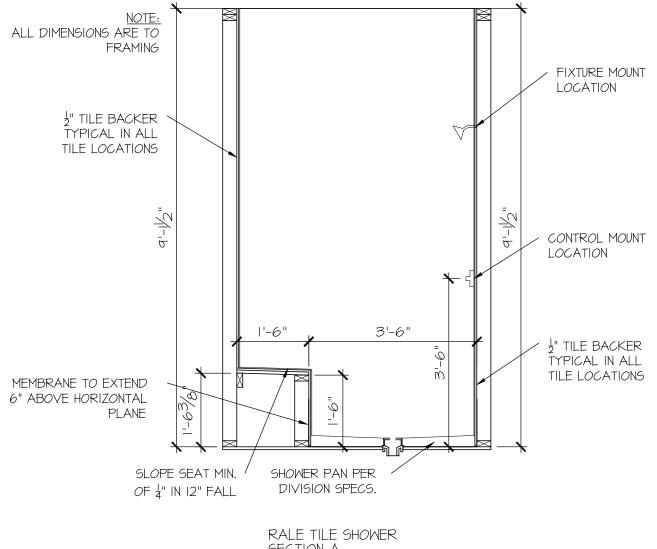
N/A

HOUSE NAME:
RALE FIREPLACE DETAILS
DRAWING TITLE
RALE FIREPLACE DETAIL
INTERIOR GAS UNITS



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

~ "

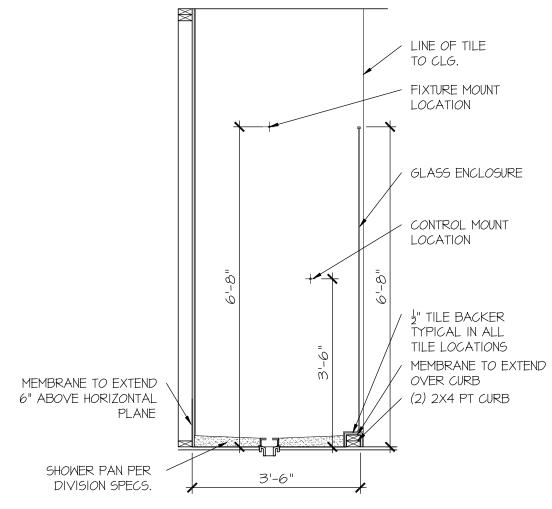


E ILE SHOWER DETAIL

OUSE NAME:

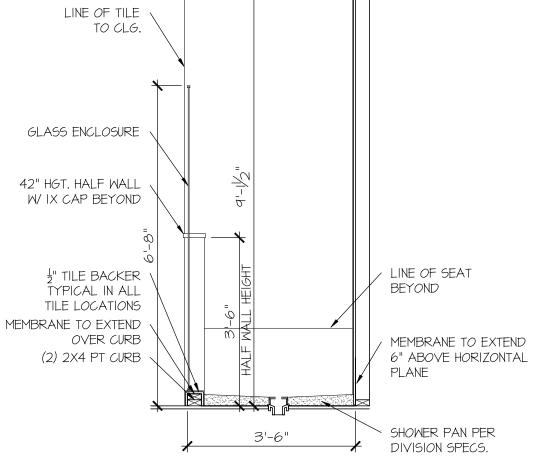
SHEET No.

P||.2



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





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

#### 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.
- I/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 MEATHER OR IN CONTACT W CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDMARE & 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.
- 2,500 psi: ...... FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: ...... GARAGE & EXTERIOR SLABS ON GRADE fu = 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 BOMT, FIND. 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, UN.C.
- LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR
   GSM 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 NOT BE INSTALLED IN STRUCTURAL SLABS
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi). MORTAR SHALL BE ASTM C210, TYPE S. CMU DESIGN PER ACI 530 & 530.1.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORGEMENT (OR FOUAL) - 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.
- $\bullet$  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 SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.
- DESIGN LOAD

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 (1-10/ISTS & SOLID SANN)
10 PSF T.C., 5 PSF B.C. (TRUSSES)
(ADD'L 10 PSF @ TILE)

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

DIL 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 MODIAMETER 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 FRANTING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP, UN.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 I2" TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRICTURAL MEMBERS SHALL BE SPRICE-PINE-FIR \$2 (SPF) OR SOUTHERN PINE \$2 (SYP) LIMBER, OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY. CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED ● 16" O.C. (MAX., UN.O.)
   HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (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:
- 'L9L' Fb=2325 psi; Fv=3I0 psi; E=I.55xI0^6 psi
   'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 psi
- LVL' H0=2000 psi; FV=205 psi; E=2.0XIO 6 psi
   'PSL' FB=2900 PSi; FV=290 PSi; E=2.0XIO^6 PSi
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES
  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
  INSTALLATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROMS OF 3'x0.120" NAILS 8" O/C OR 2 ROMS ¼"x3½" SIMPSON SDS SCRENS (OR 3½" TRUSSLOK SCRENS) 16" O/C. USE A MINIMUM OF 3 ROMS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCRENS 2" FROM EDGE. SOLID 3 ½" OR 5 ½" BEAMS ARE ACCEPTABLE. USE 2 ROMS OF NAILS FOR 2x6 € 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROMS OF ½"x6" SIMPSON SDS SCYENS (OR 6 ½"). TRUSSLOK SCREINS 0 16" O/C. USE A MINIMUM OF 4 ROMS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREINS). LOCATE TOP AND BOTTOM SCREINS 2" FROM EDGE. A SOLID T" BEAM 15 ACCEPTABLE.
- ◆ ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD € (1)2x KING STUD, MINIMUM.

   THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES TH 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
- 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 1/2" DIA. BOLTS 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABM44Z BASE, UN.O.

#### FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT MIK FOR MARBLE FLOOR DESIGNS)
- \* AT I-JOIST FLOORS, PROVIDE I I/6" 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 MY GLUE AND
- FROOVE EDGES. FASTEN TO FRAMING MEMBERS W/GLUE AND - 2 ⅓" x 0.131" NAILS @ 6"0,∠, @ PANEL EDGES & @ 12"0,∠, FIELD.
- 2 \$ × 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 × 2" MIN. SCREMS 6" O.C. PANEL EDGES \$ 12" O.C. FIELD.

#### ROOF FRAMING

- BAY MINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6
  RAFTERS & CEILING JOISTS 16/24" O.C.
- FASTEN EACH ROOF TRUGS TO TOP PLATE W SIMPSON H25T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H25T CLIPS AT 2-PLY GIRDER TRUGSES, (3) H25T CLIPS AT 3-PLY GIRDER TRUGSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, UN.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08
   "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- \* SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX T' SPAN) w/ 2x4 LEDGER FASTENED TO:
  - RIM BOARD W (2) 3"X0.131" NAILS 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS W (3) 3"X0.131" NAILS • 14.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16
   EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- W/2 ½" × 0.131" NAILS @ 6"0.c. @ PANEL EDGES \$ @ 12" O.C. FIELD. - W/2 ½" × 0.120" NAILS @ 4"0.c. @ PANEL EDGES \$ @ 8" O.C. FIELD.
- -w/2 §" x 0.120" NAIL5 @ 4"0&. @ PANEL EDGES \$ @ 8" 0&. FIELD -w/2 §" x 0.113" NAIL5 @ 3"0&. @ PANEL EDGES \$ @ 6" 0&. FIELD.

#### HOLD-DOWN SCHEDULE

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

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION:

"UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN "S"
DIA. THREADED ROD INTO CONCRETE FOUNDATION.
PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE.
INSTALL PER MANUF. RECOMMENDATIONS. DO NOT
LOCATE ANCHORS WITHIN I 3%" OF EDGE OF FOUNDATION

#### LEGEND

- INTERIOR BEARING WALL
- ==== BEARING WALL ABOVE
- BEAM / HEADER
   BEAM / HEADER
   BEAM / HEADER
- EXTENT OF OVERFRAMING
- terananan
- \* 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)2x4
UP TO 8'-0"	(2)2x6	(3)2x6

#### NOTES:

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

## LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

- THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
- 120 MPH WIND IN 2018 NCSBC:RC (120 MPH WIND SPEED IN ASCE T-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 T-IO, AS PERMITTED BY R301.3 OF THE 2016 NCSBC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC.RC SECTION R802.II.II. THIS MODEL HAS BEEN DETAILED WHERE REGUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.358 R802.II.

#### EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W 2 ¾"XO.113" NAILS ● 6" O.C. AT EDGES € ● 12" O.C. IN THE PANEL FIELD. TYP, UN.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.
- PALT. STAPLE CONNECTION SPEC: 1 ½" 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% \* X 0.13" NALLS 6 6" O.C. AT ALL PANEL EDGE AND 12" O.C. IN THE PANEL FIELD OR 13% 16 GA STAPLES (%" CROWN) 6" 3" O.C. AT EDGES 6" 6" O.C. IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2% HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES 6 EDGE FASTENING.

#### 3" O.C. EDGE NAILING

• AT DESIGNATED AREAS - FASTEN PANEL EDGES OF MOOD STRUCTURAL WALL SHEATHING TO FRAMING W 80 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, 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. (THRI) ONE SIDE ONLY)

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

TRUSGES/JOISTS SHALL BE DESIGNED SO THAT
DIFFERENTIAL DEFLECTION BETWEEN ADJACENT
PARALLEL TRUSGES/JOISTS OR GIRDER TRUSGES/FLUSH
BEAMS DO NOT EXCEED THE FOLLOWING:
A. ROOF TRUSGES.

- 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" DEAD LOAD, (NOT DIFFERENTIAL DEFLECTION)

SEAL GEORGIA G

MULHERN+KU
RESIDENTIAL STRUCTURAL ENGINE
STREETING AN EDIGE AT - Marker, PA 19002

18K project number:

project mgr: JTR drawn by: RPF issue date: 05-25-2

REVISIONS:

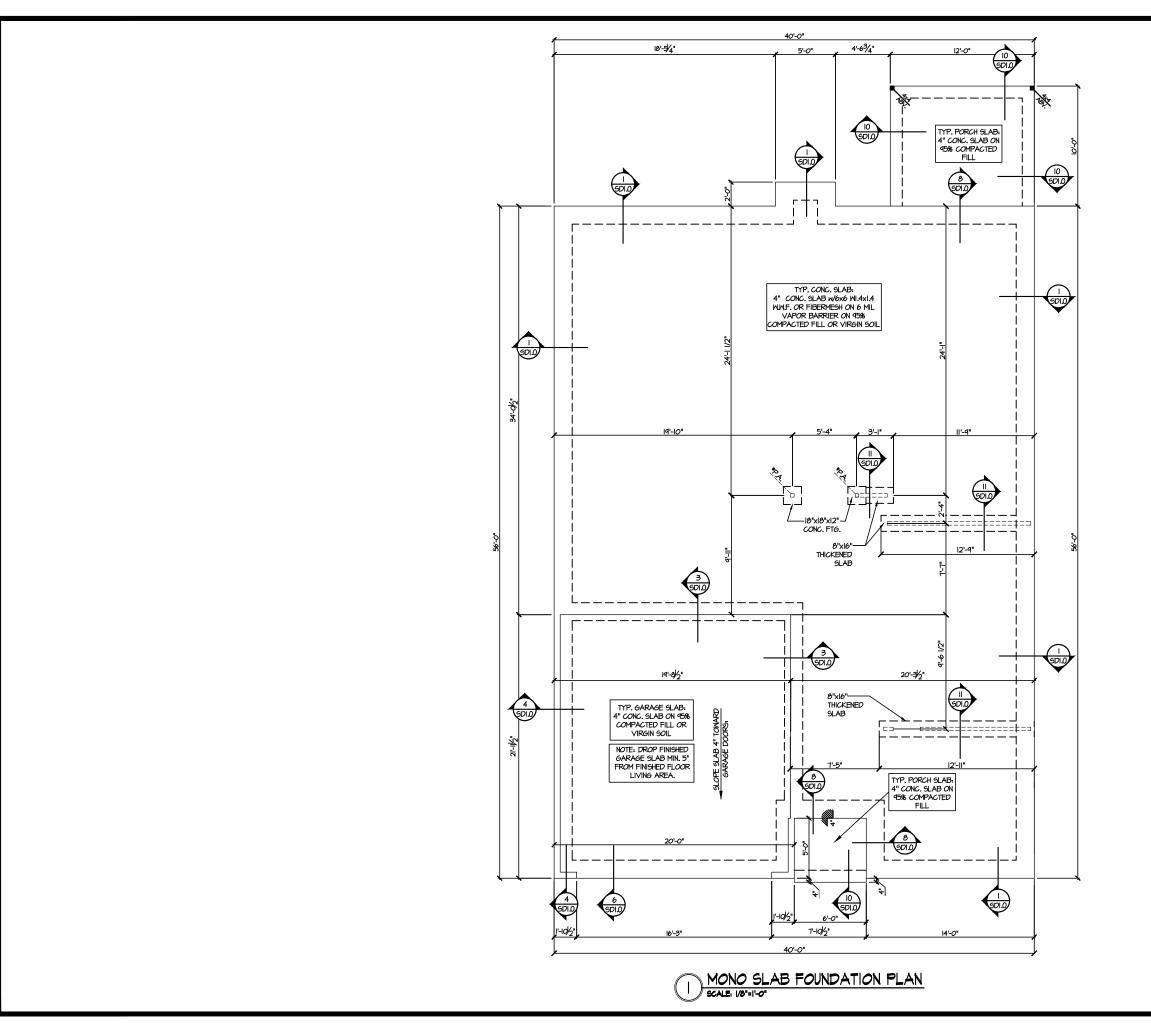
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CAN ES

RUCTURAL NOTES
RM AT NEIL'S CREEK

so.(

FAR LOT 87



SEPH T. RIG MULHERN+KULP ¥

H CAR

M&K project number: 126-22076

5/25/25

JTR RPP drawn by: ssue date: 05-25-23

REVISIONS:

initial:

AT NEIL'S CREEK FOUNDATION PLANS

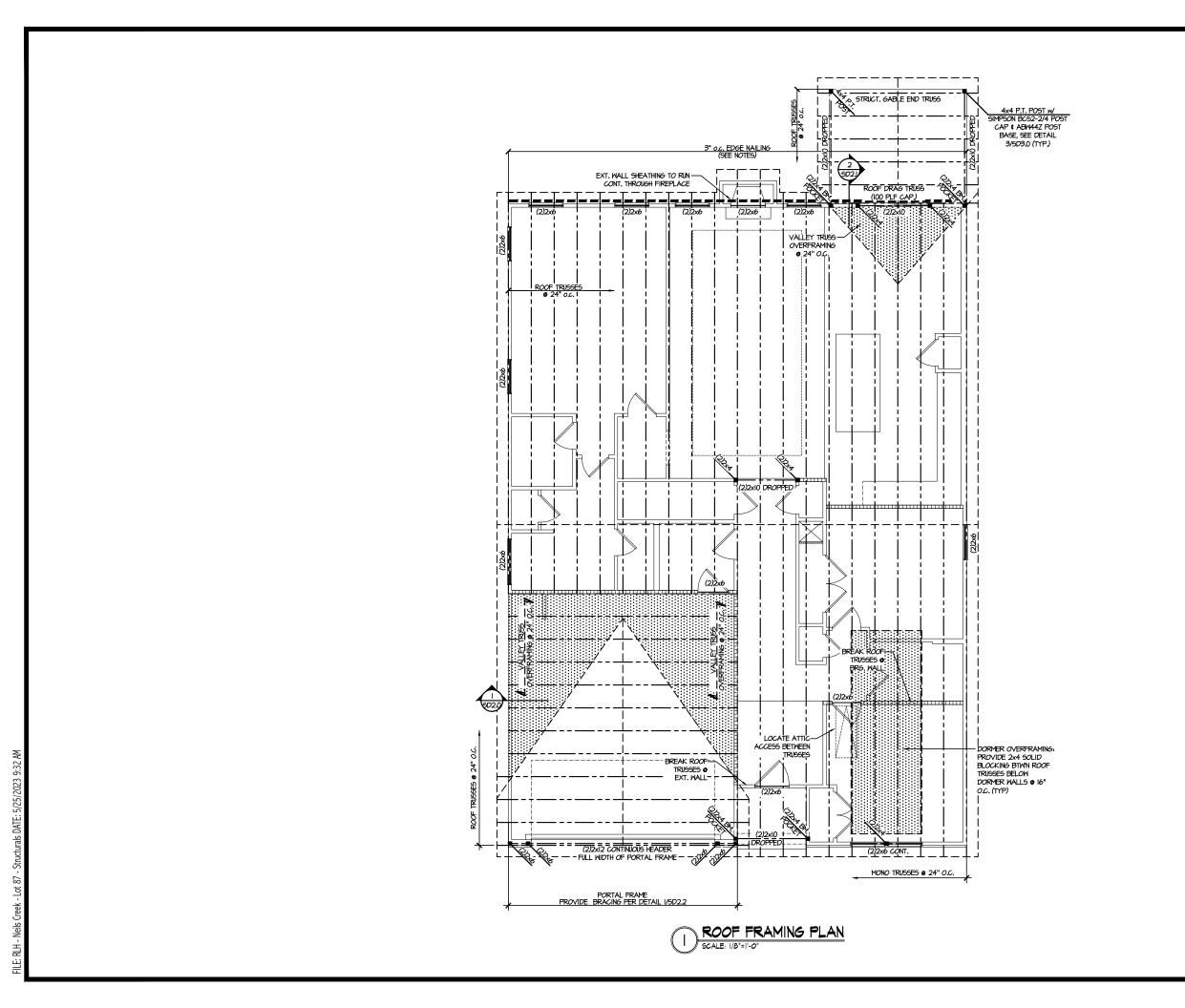
#### LEGEND

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

TYPICAL STRUCTURAL NOTES & SCHEDULES

REFER TO SO.O FOR

FARM / LOT 87 - CC



5/25/25 "H CAR SEPH T. RIG

MULHERN+KULP ¥

M&K project number: 126-22076

JTR RPP drawn by: ssue date: 05-25-23

REVISIONS:

initial:

FARM AT NEIL'S CREEK Lot 87 - Cooper 6 Raleigh, nc ROOF FRAMING PLANS

 EXTENT OF OVERFRAMING \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

LEGEND

• = = INDICATES SHEAR WALL & EXTENT

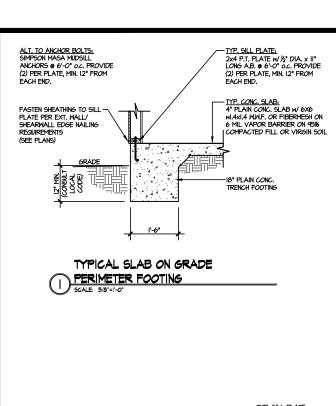
INTERIOR BEARING WALL

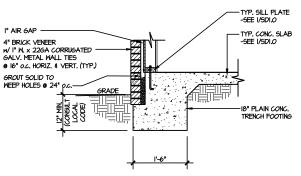
● □===□ BEARING WALL ABOVE • --- BEAM / HEADER

TYPICAL STRUCTURAL NOTES & SCHEDULES

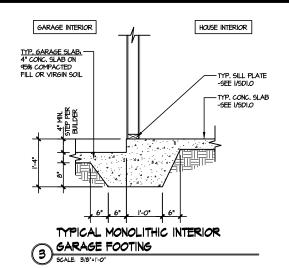
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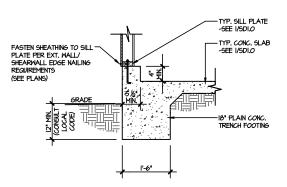
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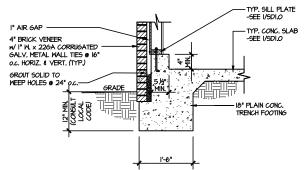




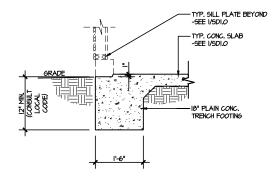




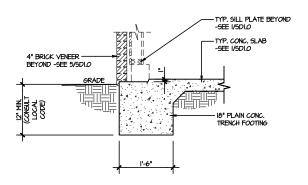




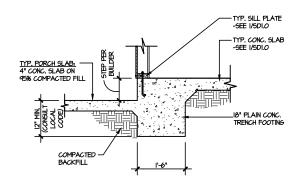




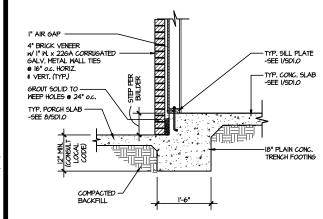
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING



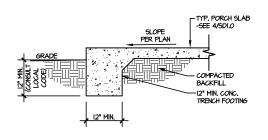
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



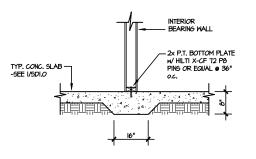
TYPICAL SLAB ON GRADE PERIMETER B FOOTING @ PORCH/PATIO



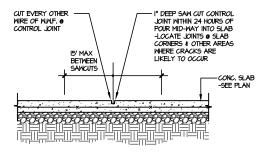
TYPICAL SLAB ON GRADE PERIMETER POOTING @ PORCH/PATIO



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.

CREEK

NEIL'S

AT

FARM

87 LOT

oundation Detail

5/25/2

STRUCTURAL ENGINEER

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Y

M&K project number 126-22076

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REVISIONS:

JTR

RPF

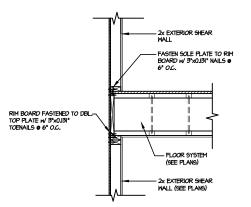
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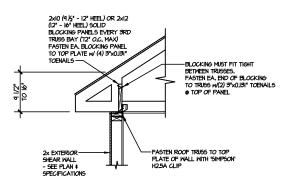
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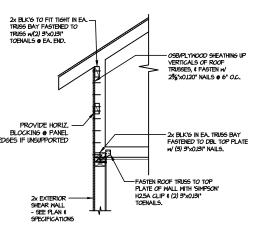
ENGINE EPH T. R



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

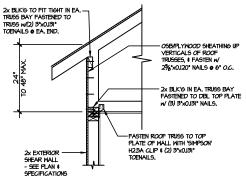


#### TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D

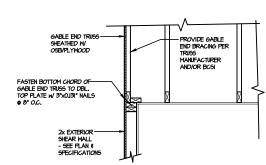


#### TYPICAL SHEAR TRANSFER

#### HEEL HEIGHT GREATER THAN 48"



#### TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS SCALE: 3/8"="-0" HEEL HEIGHT UP TO 48" MAX.



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

Y M&K project number: 126-22076

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

5/25/2

TH CAR

EPH T. RIG

JTR RPF drawn by: ssue date: 05-25-23

REVISIONS:

initial:

CREEK FARM AT NEIL'S C LOT 87 - COOPER 6 RALEIGH, NC

FRAMING DETAILS

NUMBERED DETAILS ARE PLAN

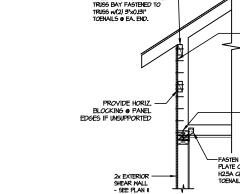
SPECIFIC AND ARE ONLY REQUIRED

WHERE SPECIFICALLY INDICATED

("CUT") ON THE PLANS.

**SD2.0** 

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



## DETAIL @ RAISED HEEL TRUSS

SHEAR TRANSFER DETAIL @
BREAK IN TRUSSES OVER SHEAR WALL
SCALE 844-1-0" - 22564
9,69-1-0" - 1647

FASTEN ROOF SHEATHING
TO DRAG TRUSS W
2% XO.I.20" NAILS © 3" O.C.

DRAG TRUSS OF
DESIGNED FOR
250 PLF

ROOF TRUSSES
PER PLAN

FASTEN BOTTOM CHORD
OF DRAG TRUSS 10
250 PLF

INTERIOR 2x SHEARMALL
- SEE PLAN FOR SPECIFICATIONS

SHEAR TRANSFER DETAIL

AT INTERIOR SHEARMALL BELOW

SCALE 344-1-0"

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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RESIDENTIAL STRUCTURAL ENGINEERING

SEPREMICH AN BAILEGET + Araber, PA 1990

PERSONNER PERSONNER PROPERTY | 1990

PERSONNER PERSONNER | 1990

5/25/25

TH CAR

OSEPH T. RI

M&K project number: 126-22076

project mgr: JTR
drawn by: RPP
issue date: 05-25-23

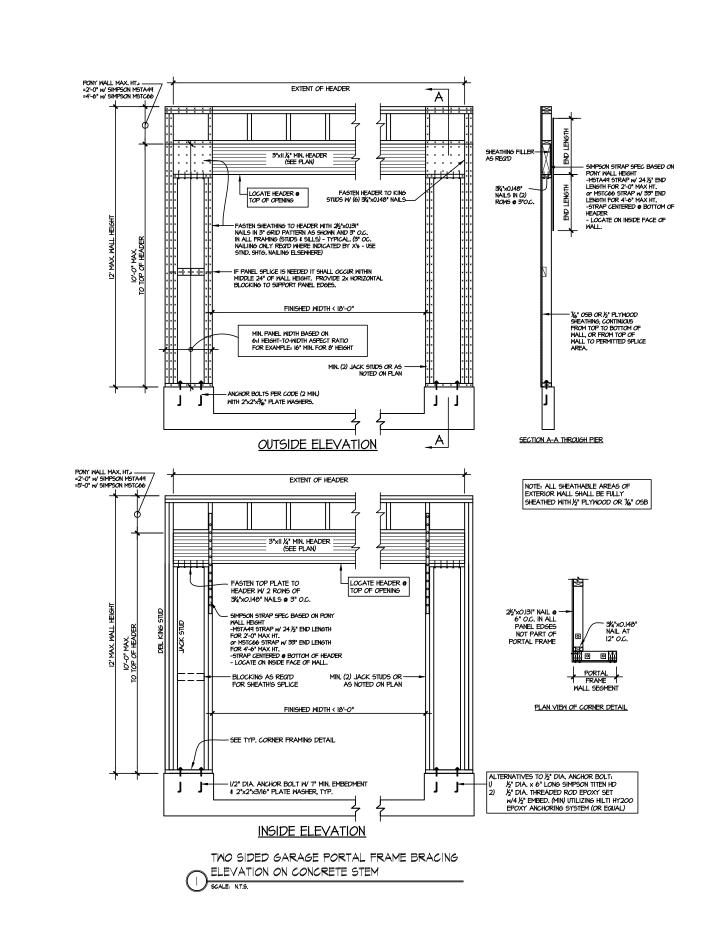
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FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 87 - COOPER 6
RALEIGH, NC

sheet: SD2.1



MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING Y

5/25/2

TH CAR

OSEPH T. RI

M&K project number:

126-22076 JTR

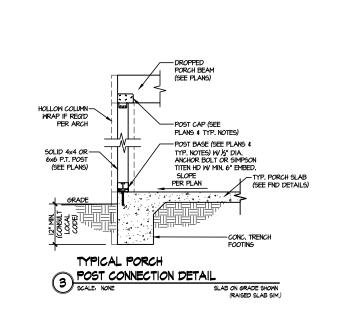
RPP drawn by: ssue date: 05-25-23

REVISIONS:

initial:

FARM AT NEIL'S CREEK Lot 87 - cooper 6 raleigh, nc FRAMING DETAILS

**SD2.2** 



5/25/23 H CAR MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING

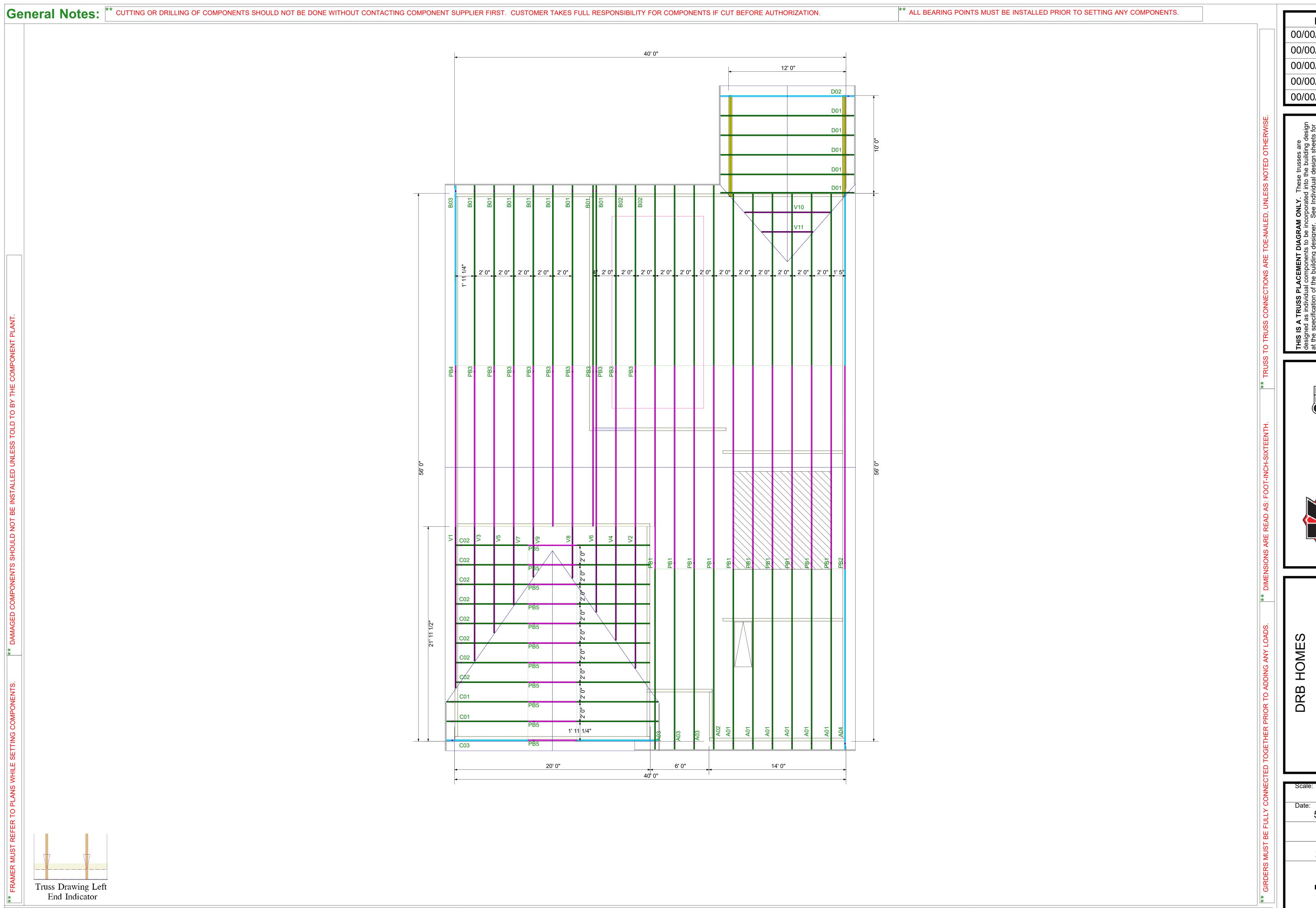
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M&K project number: 126-22076

project mgr: JTR drawn by: RPP issue date: 05-25-23

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 87 - COOPER 6

SD3.0



Revisions 00/00/00 Name 00/00/00 Name 00/00/00 Name 00/00/00 Name

00/00/00 Name

5/19/2023 Designer: ND Project Number: 22090052

Sheet Number: