COOPER 3-RALE

RALEIGH - LOT 00.0059 THE FARM AT NEILL'S CREEK

(MODEL# 1777)

ELEVATION 4 - GL

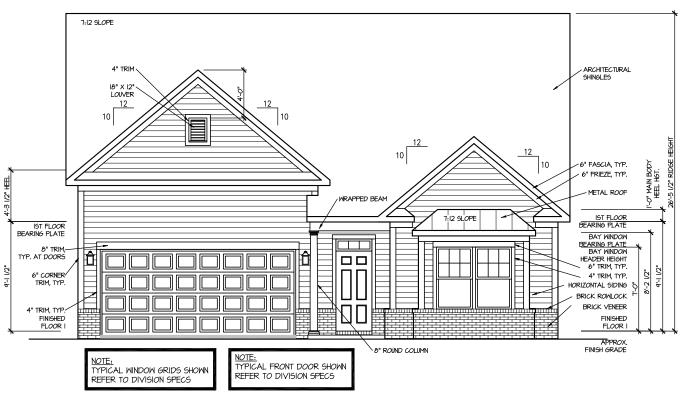


AREA CALCULATIONS ELEVATION 4	HEATED	COVERED / UNHEATED	UNCOVERED
FIRST FLOOR	1796 SF	ONTIE/TIEB	OTTOO VERLED
GARAGE	1790 35	704.05	
		394 SF	
FRONT PORCH - ELEVATION 4		37 SF	
TOTAL	1796 SF	431 SF	

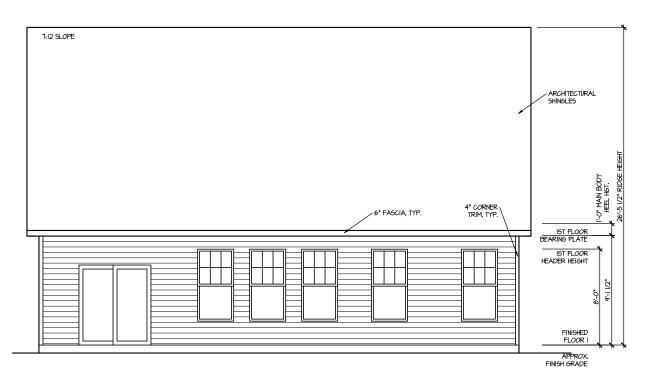
529 WINDING CREEK DRIVE

LOT	SPECIFIC	
1	LOT 00.0059	THE FARM AT NEILL'S CREEK
		COOPER 3 REV. RALE 4 ELEVATION 4
2	ADDRESS	529 WINDING CREEK DR LILLINGTON, NC 27546

<u>INDEX</u>	



FRONT ELEVATION 4
SCALE: 1/8" = 1'-0"



REAR ELEVATION 4

DRAWN BY: ITS DATE: 12/06/2024 PLAN NO. 1777

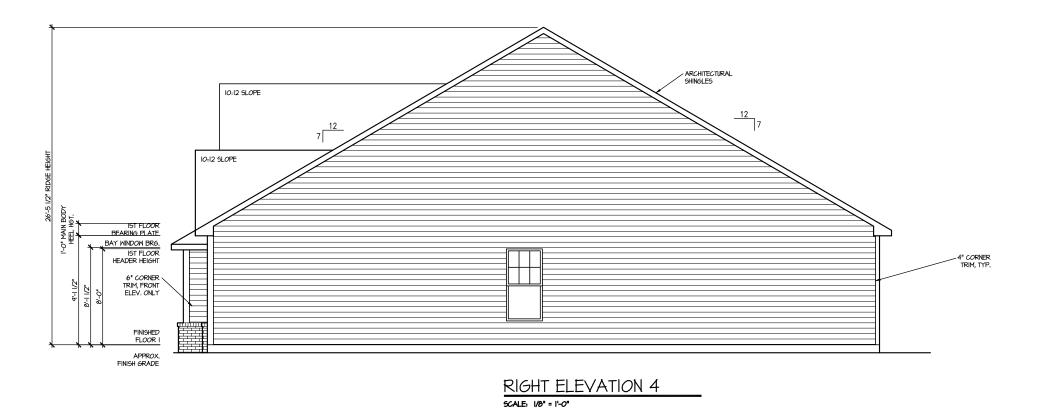


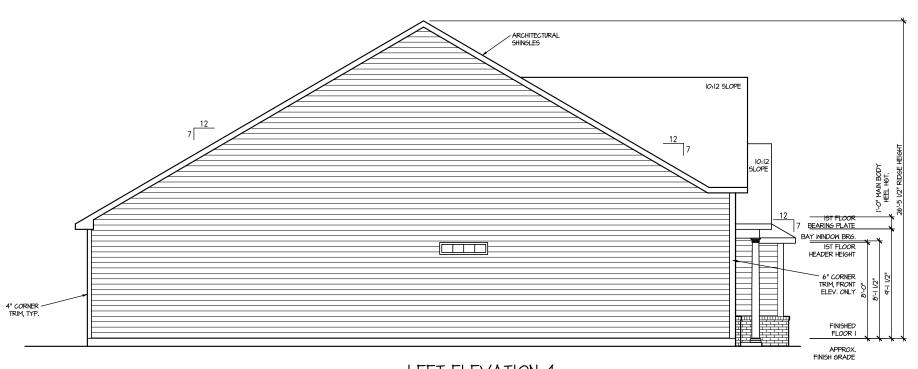
HOUSE NAME:
COOPER 3
DRAWING TITLE
FRONT & REAR ELEVATIONS

SHEET No.

A

E: Lot 00.0059.dwg DATE: 12/6/2024





LEFT ELEVATION 4
SCALE: 1/8" = 1"-0"

DRAWN BY:

DATE: 12/06/2024 PLAN NO. 1777



ELEVATIONS

HOUSE NAME:
COOPER
DRAWING TITLE
RIGHT & LEF

SHEET No.

ROOF VENTILATION CALCULATIONS:
ROOF AREA = 2336 50, FT.
200FEAL BEQUIED VERTILATION.
170 50 = 557 50, FT.
170 500 = 1557 50, FT.
50-60% IN 10°F THRIP = 3,591 - 623 50, FT. (1 TO 300)
NET FREE AREA OF VENTIED SOFFIT = 5,750, IN / LINEAR FT.
NET FREE AREA OF RIDGE VENTIE = 560, IN / LINEAR FT.
LOWER VENTING, (BOTTOM 2/3 RDS)
14 LINEAR FEET OF SOFFIT X 57, 50, IN = 2,438 50, FT.
191 SETE VENTING, (BOTTOM 2/3 RDS)
14 LINEAR FEET OF SOFFIT X 57, 50, IN = 4,86 50, FT.
192 SETE VENTING, (BOTTOM 2/3 RDS)
10 10 30 ON LICOMED) = 5000
10 TO 30 ON LICOMED) = 500, FT. (ROTD)

12" OVERHANG \ AT REAR (TYP.) APPROX, LOCATION OF RAISED TREY AT FAMILY ROOM 12" OVERHANG AT SIDES (TYP.) 39 LF RIDGE VENT HVAC PLATFORM 8' X 12' TYP. IO:12 SLOPE 10:12 SLOPE 10:12 SL*O*PE IO:12 SLOPE 12" OVERHANG -AT PORCH SIDE | | 12" OVERHANG | AT FRONT (TYP.) IO:12 SLOPE / ON BOTH SIDES

| MASTER PLAN INFORMATION | REVISION | DATE | DATE

DRAWN BY: ITS DATE: 12/06/2024 PLAN NO. 1777

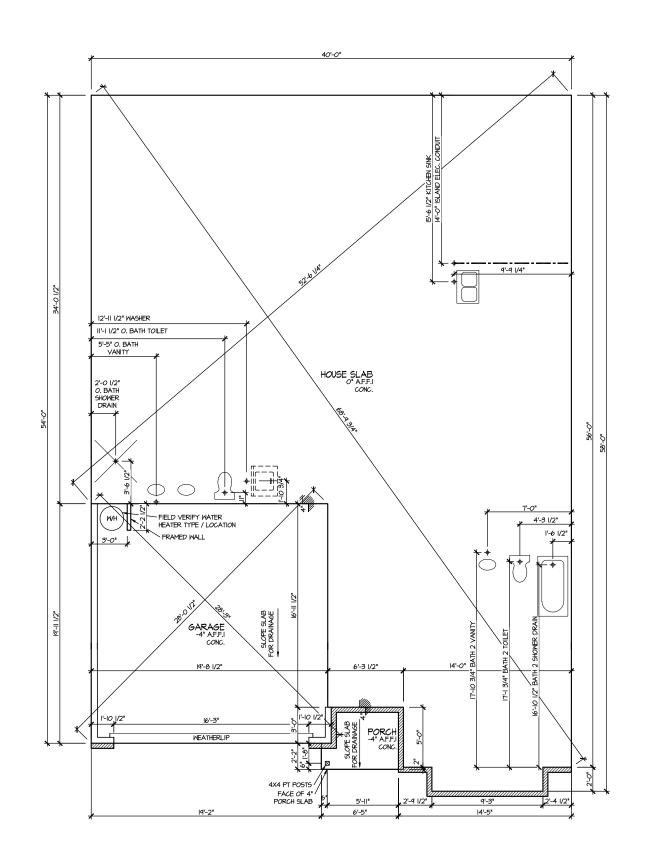


HOUSE NAME:
COOPER 3
DRAWING TITLE
ROOF PLAN

SHEET No.

ROOF PLAN ELEV. 4

A1.3



	UPDATED DATE	-2024			
	UPDATE	06-17-2024			
MASTER PLAN INFORMATION	DATE	02-24-2022			
MASTER	REVISION DATE	4-RALE			
C	RAWN		Y: ITS		
	ATF.		_		ı

DRAWN BY: ITS	
DATE: 12/06/2024	
PLAN NO. 1777	

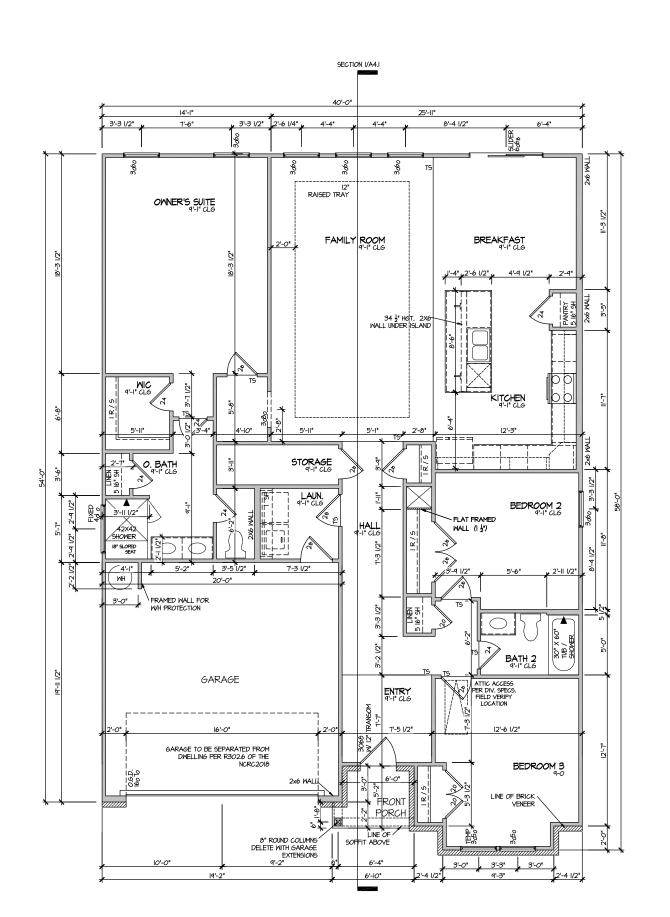


HOUSE NAME:
COOPER 3
DRAWING TITLE
SLAB PLAN

SHEET No.

ELEVATION 4 SLAB PLAN SCALE, 1/8" = 1'-0"

A2.1



DRAWN BY: DATE: 12/06/2024

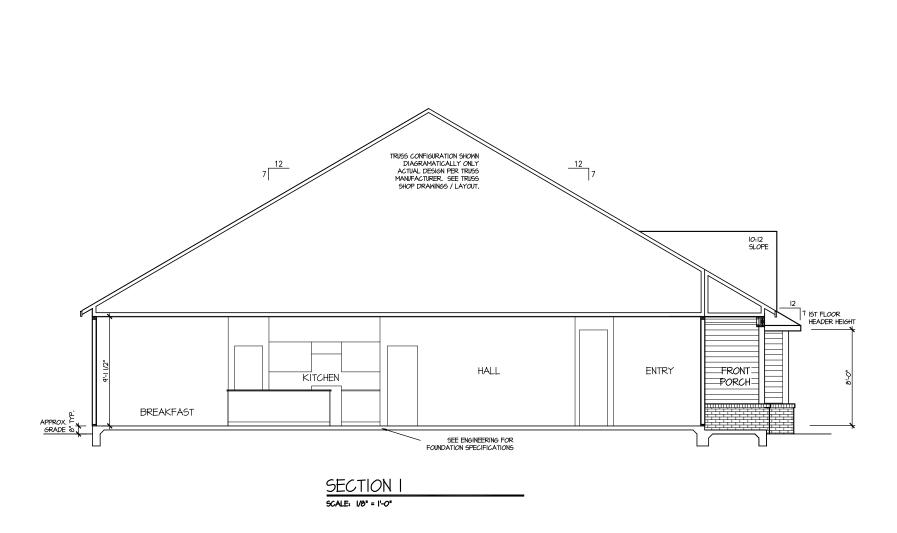
PLAN NO. 1777



2 HOUSE NAME:
COOPER
DRAWING TITLE

SHEET No. A3.1

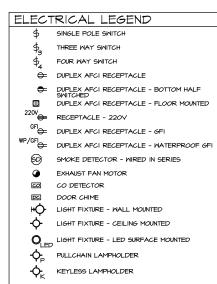
ELEVATION 4 FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"



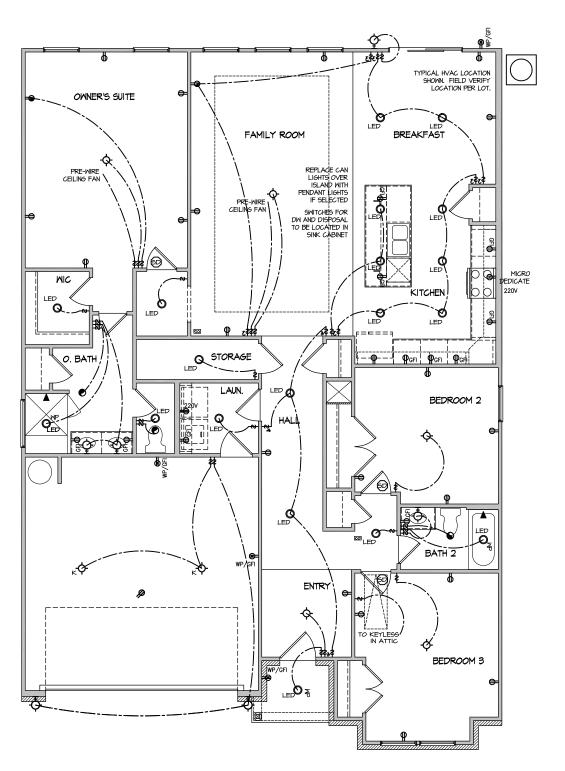
DRAWN BY: DATE: 12/06/2024 PLAN NO. 1777

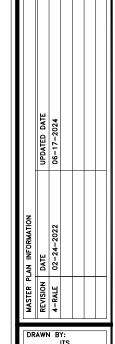
 $\frac{O}{S}$ の間の一 HOUSE NAME:
COOPER
DRAWING TITLE
BUILDING SE

SHEET No. A4.1



MOTE. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADDITED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.





DRAWN BY: ITS DATE: 12/06/2024 PLAN NO. 1777

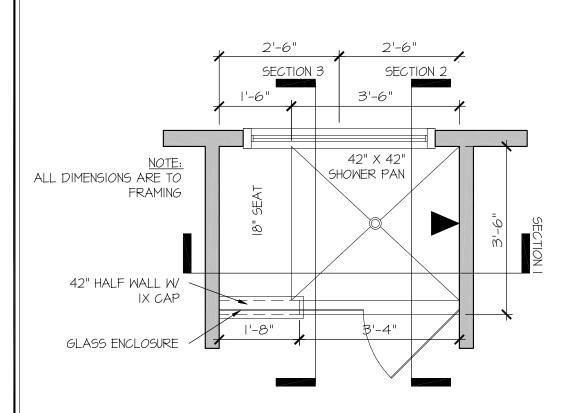


OOR ELECTRICAL

HOUSE NAME:
COOPER 3
DRAWING TITLE
FIRST FLOOR ELE

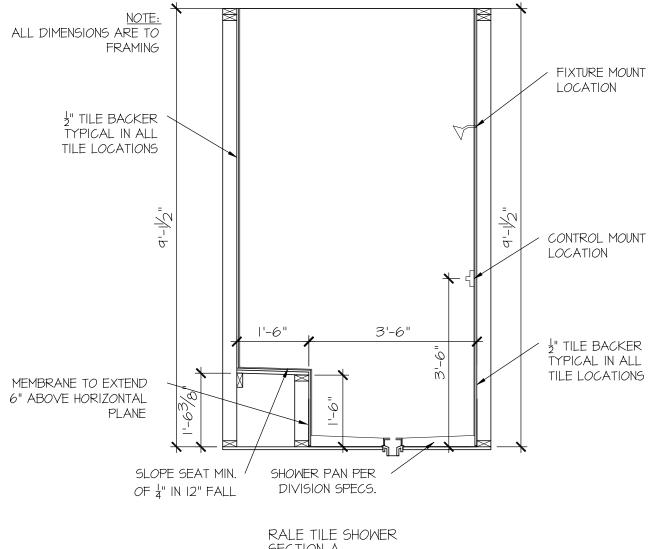
SHEET No.

ELECTRICAL PLAN FIRST FLOOR - ELEV. 4



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

SHEET No.



SEAL

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

PLAN NO.

24 X 36 SCALE

~ "

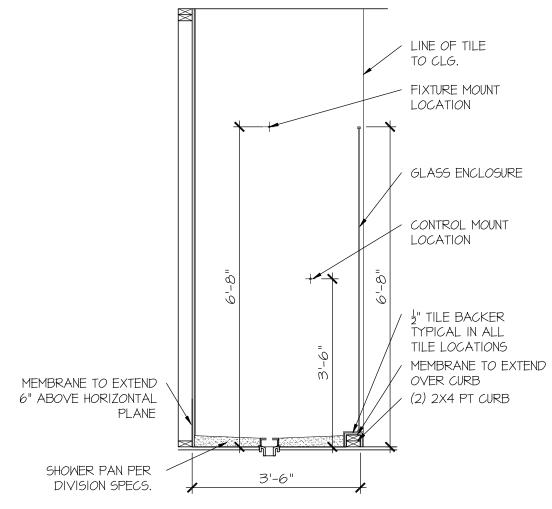


E ILE SHOWER DETAIL

OUSE NAME:

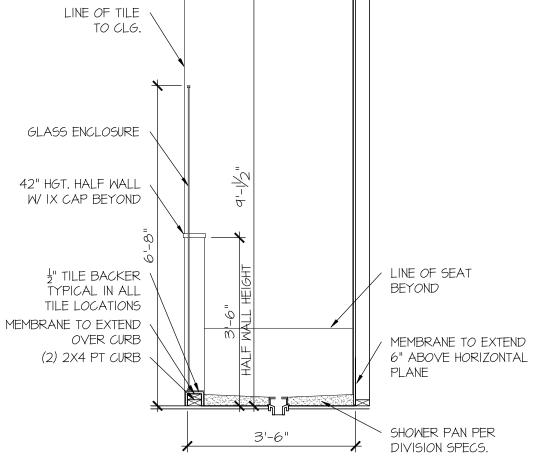
SHEET No.

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.
- 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 HARDWARE & FASTENERS IN CONTACT W PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON 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 SPECIFICATION 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(1) FOR ALL CONNECTIONS, TYP. U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS, ø 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 '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:
- '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 INSTALLATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x31/2" 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 1 × 0.131" NAILS @ 6"0.c. @ PANEL EDGES & @ 12"0.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 HO		SIMPSON HTT4 HOLD-DOWN *
	HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
	▶ нр-з	SIMPSON STHDI4/I4RJ HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: LITILIZE SIMPSON "SET" FROXY SYSTEM TO FASTEN 54

DIA. THREADED ROD INTO CONCRETE FOUNDATION.
PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUE RECOMMENDATIONS DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

LEGEND

- 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)2x4
UP TO 8'-0"	(2)2x6	(3)2×6
UP TO 12'-0"	(2)2x8	(3)2x8

NOTES:

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

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

- 1/16" 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 36" 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%" 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 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 APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWALL INDICATES HOLDOWN BELOW

ADDITIONAL NOTES FOR TRUSS \$ I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED DIFFERENTIAL DEFLECTION CRITERIA BELOW UNLESS

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

- 1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS: /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)

12/23/2 CAR OFESSIO. ENGINE

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

1&K project numbe 126-22076

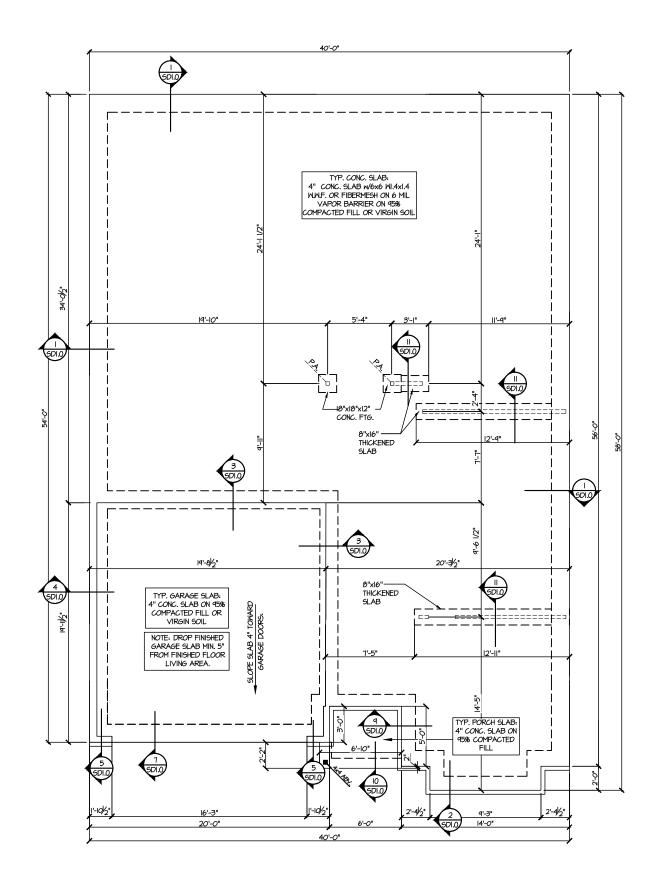
ITE rawn by: KJN ssue date: 12-16-24

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CREEK TRUCTURAL NOT NEIL'S AT

RM 59 - C ш



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

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINERING

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12/23/24

M&K project number: 126-22076

JTR drawn by: KJN issue date: 12-16-24

REVISIONS:

initial:

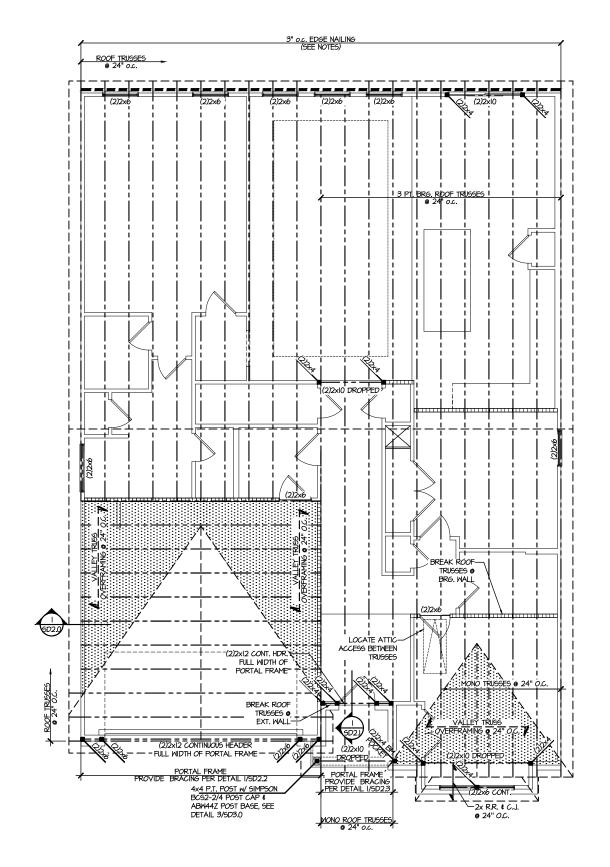
LEGEND

- 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.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES \$ SCHEDULES

FARM AT NEIL'S CREEK LOT 59 - COOPER 4 FOUNDATION PLANS

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12/23/24 "H CAR

MUCHERN+KULP ¥

M&K project number: 126-22076

JTR drawn by: KJN issue date: 12-16-24

REVISIONS:

initial:

FARM AT NEIL'S CREEK
LOT 59 - COOPER 4
RALEIGH, NC

ullet = \blacksquare INDICATES SHEAR WALL & EXTENT

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

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

LEGEND

• INTERIOR BEARING WALL

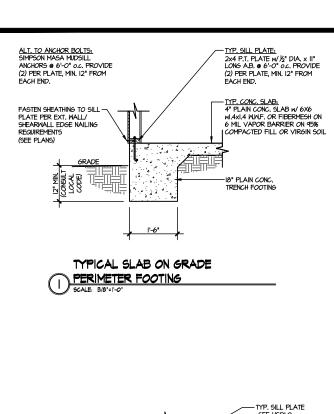
□□□□□ BEARING WALL ABOVE

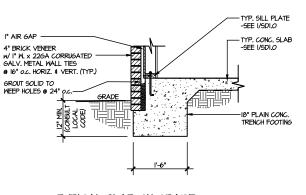
EXTENT OF OVERFRAMING

• --- BEAM / HEADER

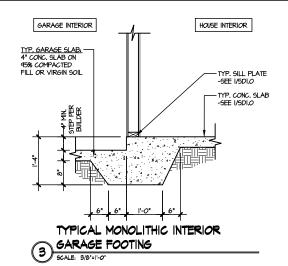
REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES \$ SCHEDULES

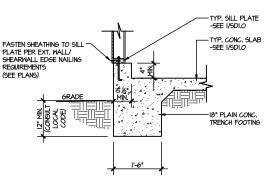
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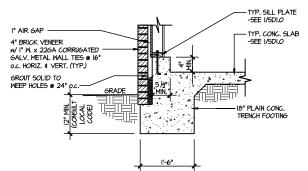




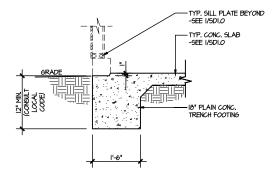




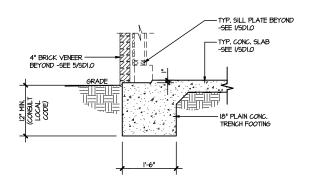




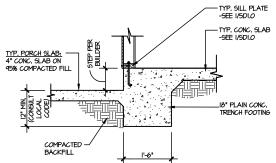




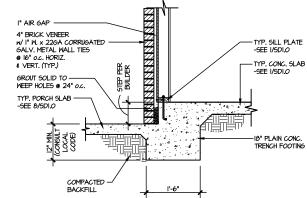
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING



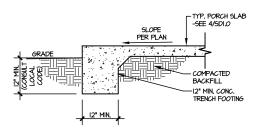
TYPICAL SLAB ON GRADE GARAGE PENTRY @ PERIMETER FOOTING



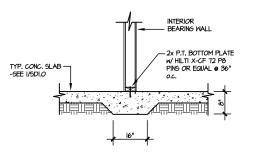
TYPICAL SLAB ON GRADE PERIMETER (8) FOOTING @ PORCH/PATIO



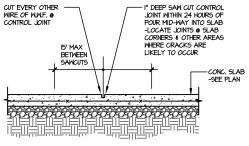
TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL



A SCALE: 3/8"=1"-0" LOCATE @ 15'-O" 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.

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

CREEK OUNDATION DETAILS NEIL'S COOPER ATFARM LOT

12/23/2

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M&K project number 126-22076

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REVISIONS:

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ssue date: 12-16-24

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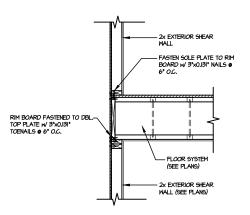
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SEPH T. R

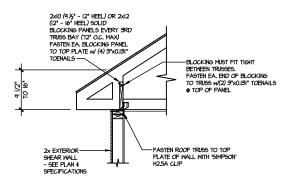
TYPICAL SHEAR

TRANSFER DETAIL @ ROOF SCALE: 3/8"=1"-0" HEEL HEIGHT LESS THAN

HEEL HEIGHT LESS THAN 9 ½" NO BLOCKING REQ'D



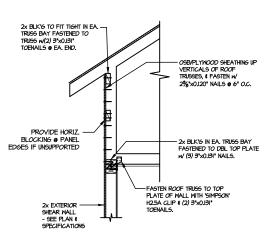
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 9/8'=1'-0'



TYPICAL SHEAR

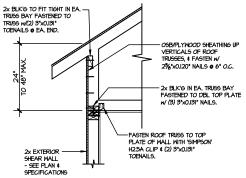
TRANSFER DETAIL @ ROOF

SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQD

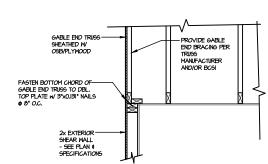


TYPICAL SHEAR TRANSFER

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°

M&K project number: 126-22076

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12/23/24

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SEPH T. RI

JTR drawn by: KJN issue date: 12-16-24

REVISIONS:

initial:

CREEK FRAMING DETAILS
FARM AT NEIL'S CI
LOT 59 - COOPER 4
RALEIGH, NC

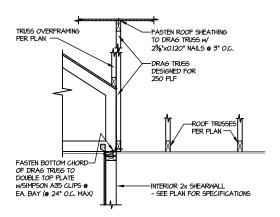
SD2.0

NUMBERED DETAILS ARE PLAN

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

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

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"

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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OSEPH T. RI MUCHERN+KULP ¥

12/23/24

TH CAR

M&K project number: 126-22076

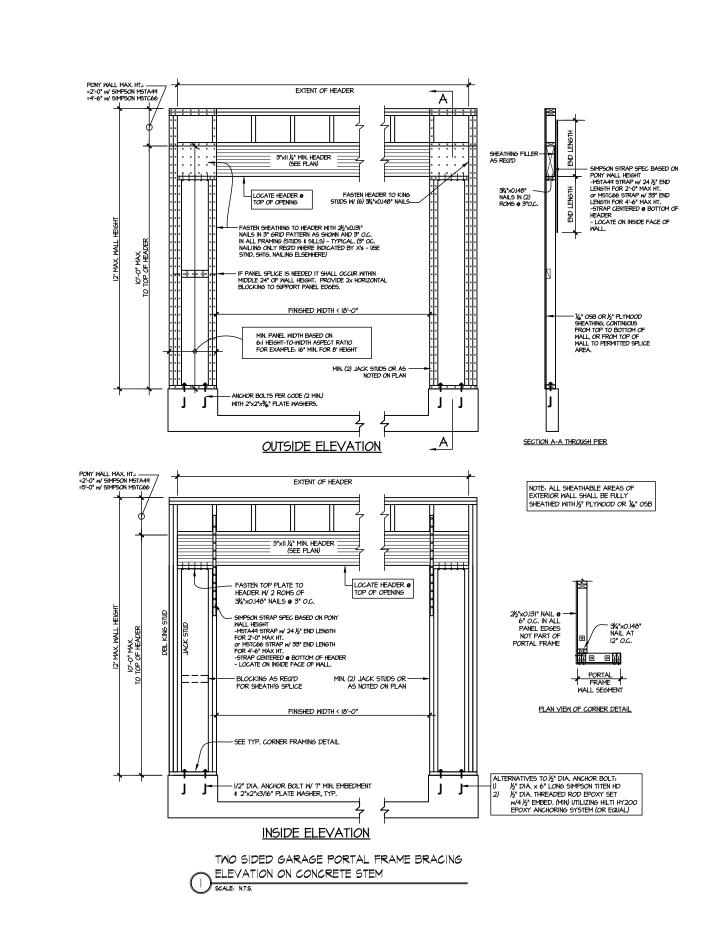
JTR drawn by: KJN issue date: 12-16-24

REVISIONS:

initial:

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 59 - COOPER 4
RALEIGH, NC

SD2.



MULHERN+KULP ¥ M&K project number: 126-22076 JTR

12/23/24

TH CAR

SEPH T. RI

drawn by: KJN issue date: 12-16-24

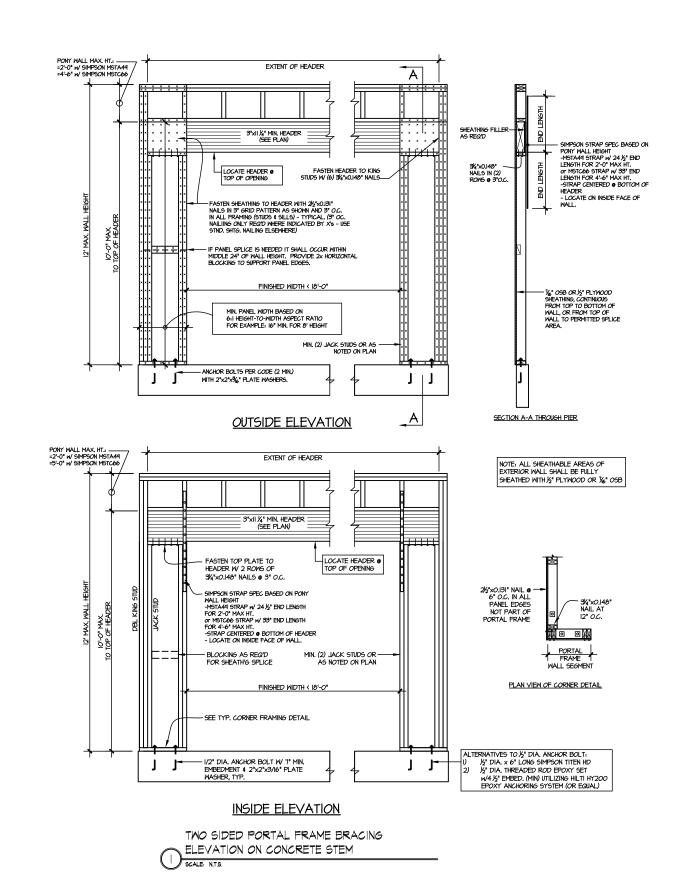
REVISIONS:

initial:

FRAMING DETAILS

FARM AT NEIL'S C LOT 59 - COOPER 4 RALEIGH, NC

SD2.2



TH CAR SEPH T. RI MULHERN+KULP

12/23/24

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M&K project number: 126-22076

JTR drawn by: KJN issue date: 12-16-24

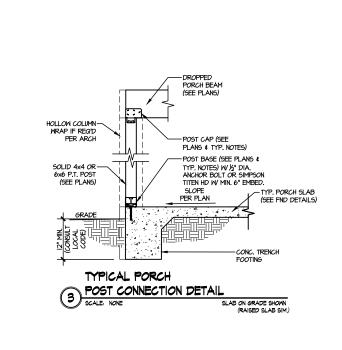
REVISIONS:

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FRAMING DETAILS

FARM AT NEIL'S C LOT 59 - COOPER 4 RALEIGH, NC

SD2.3



12/23/24 H CAR OSEPH T. RI MULHERN+KULP

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M&K project number: 126-22076

JTR KJN drawn by: KJN issue date: 12-16-24

REVISIONS:

FARM AT NEIL'S CREEK LOT 59 - COOPER 4

SD3.0

