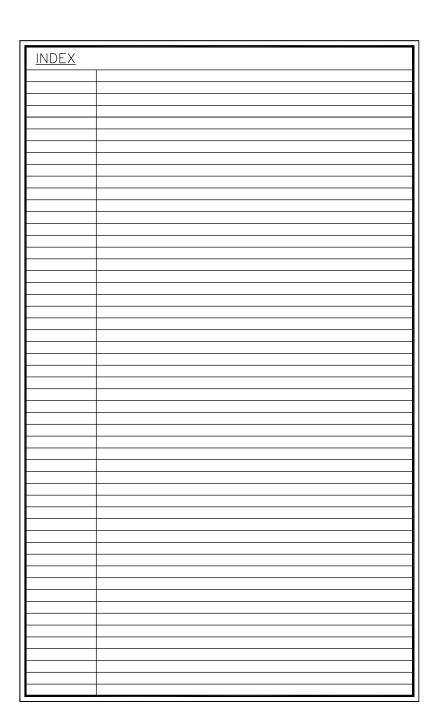
COOPER 3-RALE

RALEIGH - LOT 00.0076 THE FARM AT NEILL'S CREEK

(MODEL# 1777)

ELEVATION 4 - GR

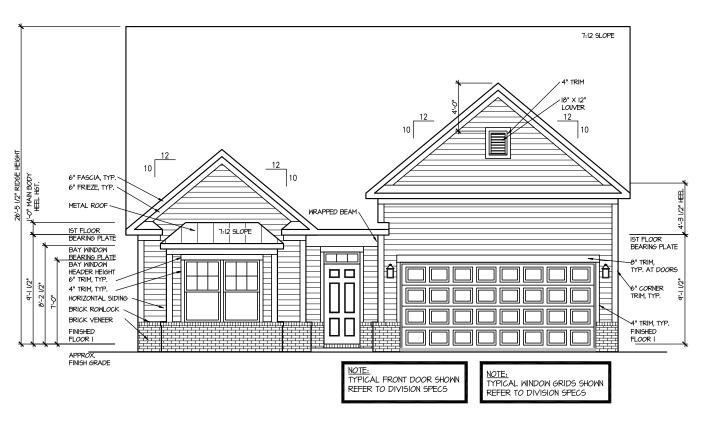




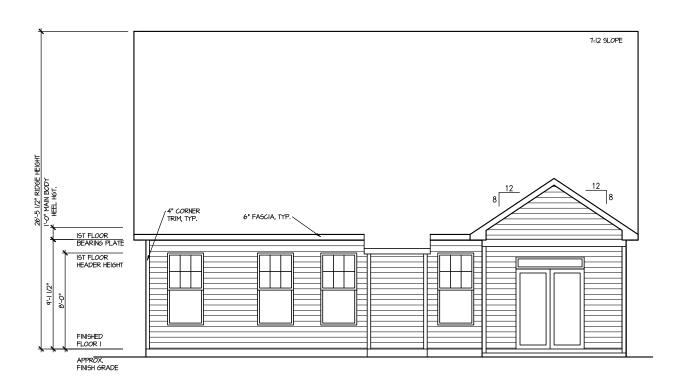
AREA CALCULATIONS ELEVATION 4 FIRST FLOOR GARAGE FRONT PORCH — ELEVATION 4 OPTIONS REAR FIREPLACE 2' GARAGE EXT COVERED PORCH TOTAL TOTAL TOTAL COVERED / UNCOVERED / UNCOVERED UNCOVERED / UNCOVERED UNCOVERED / UNCOVERED UNCOVERED / UNCOVERED / UNCOVERED
OPTIONS REAR FIREPLACE 2' GARAGE EXT COVERED PORCH 120 SF
OPTIONS REAR FIREPLACE 2' GARAGE EXT COVERED PORCH 120 SF
REAR FIREPLACE 2' GARAGE EXT COVERED PORCH 10 SF 40 SF 120 SF
REAR FIREPLACE 2' GARAGE EXT COVERED PORCH 10 SF 40 SF 120 SF
REAR FIREPLACE 10 SF 2' GARAGE EXT 40 SF COVERED PORCH 120 SF
2' GARAGE EXT 40 SF COVERED PORCH 120 SF
COVERED PORCH 120 SF
TOTAL 1806 SF 585 SF
TOTAL 1806 SF 585 SF
101AL 1806 SF 585 SF

241 WINDING CREEK DRIVE

LOT SPECIFIC 1 LOT 00.0076 THE FARM AT NEILL'S CREEK COOPER 3 REV. RALE 4 ELEVATION 4 2 ADDRESS 241 WINDING CREEK DR LILLINGTON, NC 27546	
COOPER 3 REV. RALE 4 ELEVATION 4	
COOPER 3 REV. RALE 4 ELEVATION 4	
2 ADDRESS 241 WINDING CREEK DR LILLINGTON, NC 27546	



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



REAR ELEVATION 4

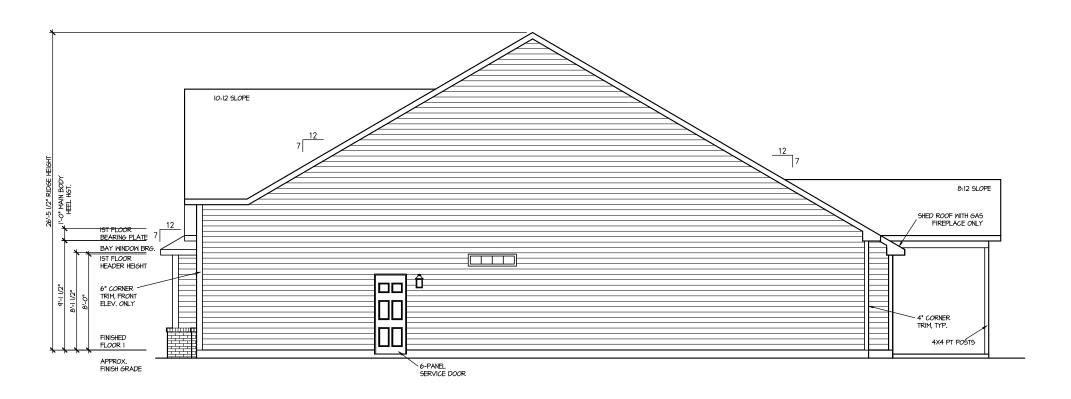
DRAWN BY: DATE: 09/10/2024

PLAN NO. 1777

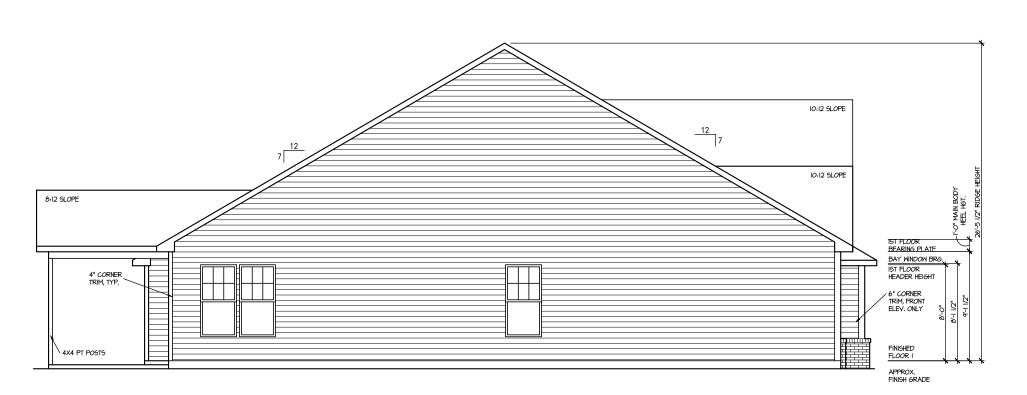


Ш

HOUSE NAME:
COOPER
DRAWING TITLE



RIGHT ELEVATION 4



LEFT ELEVATION 4

DRAWN BY: DATE: 09/10/2024 PLAN NO. 1777

ELEVATIONS HOUSE NAME:
COOPER
DRAWING TITLE
RIGHT & LEF

ROOF VENTILATION CALCULATIONS:
ROOF AREA : 2396 50. FT.
OVERALL REQUIRED VENTILATION:
1 TO 800 = 1.51 50. FT.
1 TO 800 = 1.71 50. FT.
50-60% IN TOP THIRD: 3.84 - 6.23 50. FT. (1 TO 300)
NET FREE AREA OF VENTES DOFFTI = 5.1 50. IN J. LIBEAR FT.
NET FREE AREA OF RIDGE VENTI = 10 50. IN J. LIBEAR FT. LOHER VENTINS. (80110M 2/3 RDS)

T4 INEAS FET OF 50FFIT X 5.1 50. IN. = 2/83 50. FT.

14 INEAS FET OF RIDGE X 16 50. IN. = 4.86 50. FT.

4.86 50. FT. FEDWENS 50. 50%

10 70 ALLONED)

TOTAL ROOP VENTILATION 1.8/1 50. FT. > 1.74 50. FT. (ROD)

8:12 SLOPE 8:12 SLOPE SHED ROOF WITH GAS FIREPLACE - 12" OVERHANG AT REAR (TYP.) APPROX, LOCATION OF RAISED TREY AT FAMILY ROOM I2" OVERHANG [/] AT SIDES (TYP.) 39 LF RIDGE VENT

HVAC PLATFORM

8' X 12' TYP. ATTIC ACCESS PER DIV. SPECS. FIELD VERIFY LOCATION IO:12 SLOPE 10:12 SLOPE IO:12 SLOPE SLOPE 12" OVERHANG [|] AT FRONT (TYP.)

ON BOTH SIDES

DRAWN BY:

DATE: 09/10/2024 PLAN NO. 1777

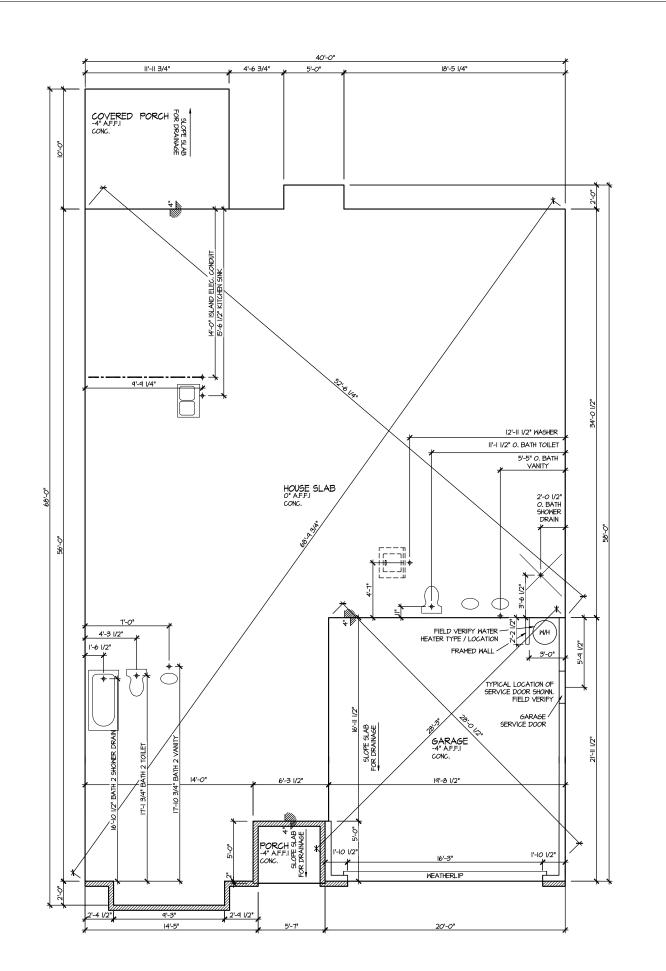


3 HOUSE NAME:
COOPER :
DRAWING TITLE
ROOF PLAN

SHEET No.

ROOF PLAN ELEV. 4

AI.3



	Lu Lu						
	UPDATED DATE	01-16-2023					
MASTER PLAN INFORMATION	DATE	4-RALE 02-24-2022					
MASTER PL	REVISION DATE	4-RALE					
	DRAWN BY: ITS DATE: 09/10/2024						

PLAN NO. 1777



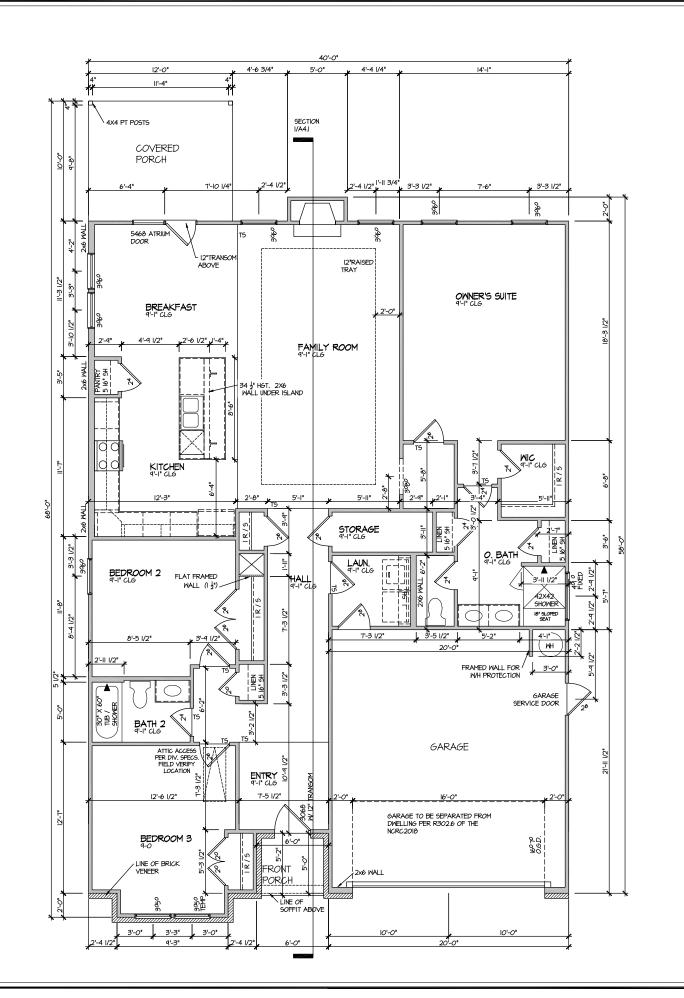
HOUSE NAME:
COOPER
DRAWING TITLE
SLAB PLAN

SHEET No.

ELEVATION 4 SLAB PLAN

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

A2.1



	MASTER PLAN INFORMATION	DATE UPDATED DATE	4-RALE 02-24-2022 01-16-2023			
	AN INF	DATE	02-24			
	MASTER PI	REVISION DATE	4-RALE			
F	DR	AWN				
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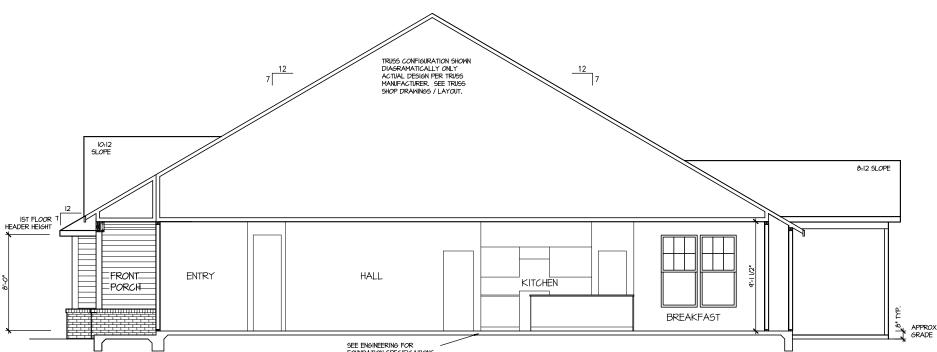
DRAWN BY: ITS DATE: 09/10/2024 PLAN NO. 1777



HOUSE NAME:
COOPER 3
DRAWING TITLE
FIRST FLOOR PLAN

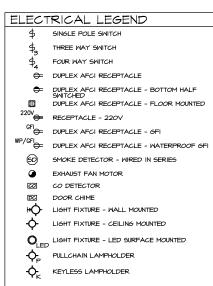
SHEET No.

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

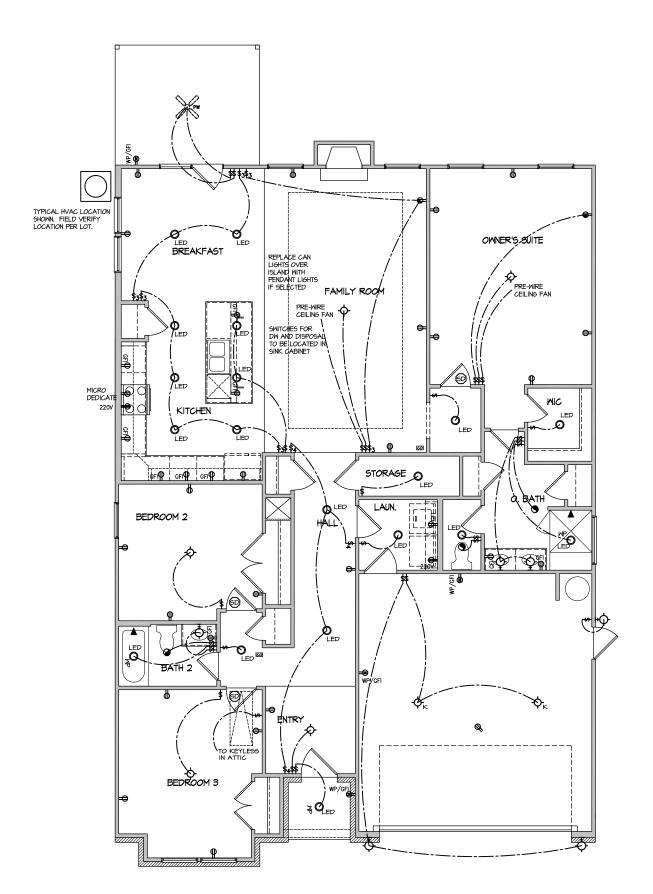


SECTION 1 SCALE: 1/8" = 1'-0"

の間の工 8 HOUSE NAME:
COOPER
DRAWING TITLE
BUILDING SE SHEET No. A4.



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: ITS DATE: 09/10/2024 PLAN NO. 1777



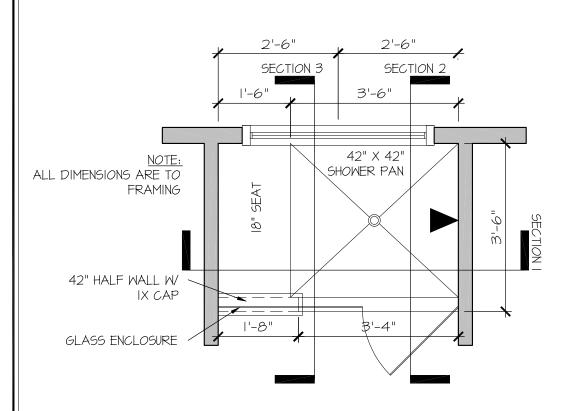
LOOR ELECTRICAL

HOUSE NAME:
COOPER 3
DRAWING TITLE
FIRST FLOOR E

SHEET No.

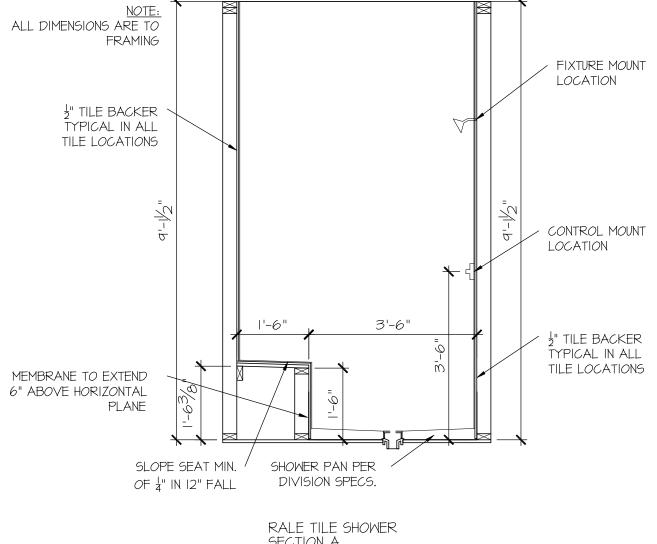
SCALE: 1/8" = 1'-0"

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



SEAL

DRAWN BY:
L. BEAVERS

DATE: 9/1/22
PLAN NO.

11 X 17 SCALE

24 X 36 SCALE

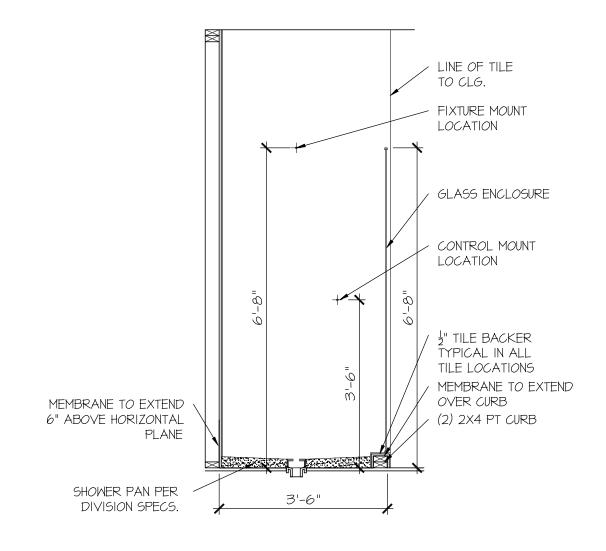


E SHOWER DETAIL

DRAWING TITL

SHEET No.

| | **|**|||.2



TO CLG. GLASS ENCLOSURE 42" HGT. HALF WALL W/ IX CAP BEYOND LINE OF SEAT J" TILE BACKER V BEYOND TYPICAL IN ALL TILE LOCATIONS MEMBRANE TO EXTEND OVER CURB MEMBRANE TO EXTEND (2) 2X4 PT CURB 6" ABOVE HORIZONTAL PLANE SHOWER PAN PER 3'-6" DIVISION SPECS.

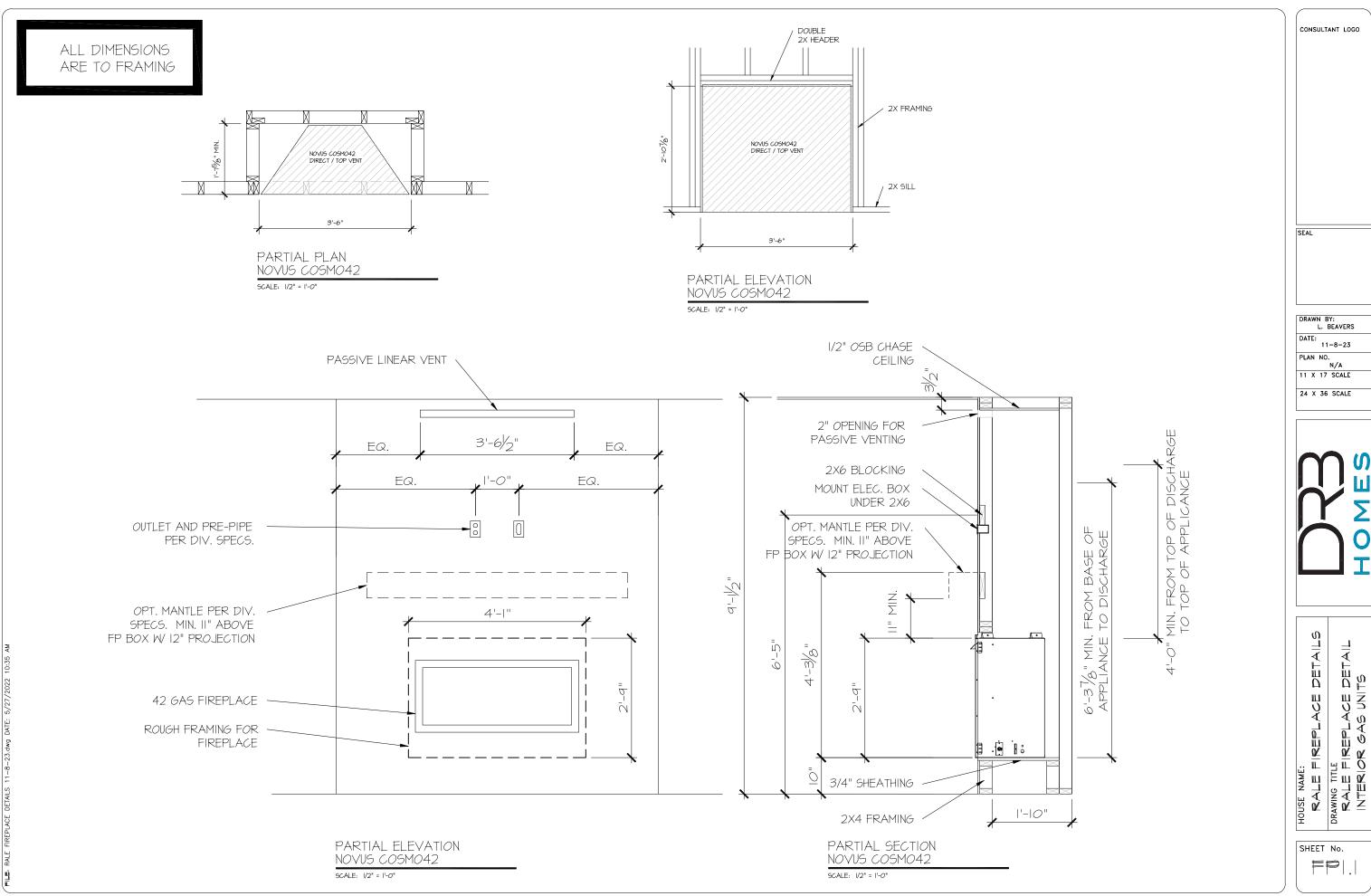
> RALE TILE SHOWER SECTION C

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

LINE OF TILE

RALE TILE SHOWER SECTION B

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



CONSULTANT LOGO

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



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 - LITH 17ING
- 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 IO' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO 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 BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
 - 4,000 psi: FOUNDATION WALLS 2,500 psi: FOOTINGS € INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- . 9' OR IO' 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 IO" CONCRETE
- DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.O. 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 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I.I RATIO), WITH A MAXIMUM OF 1.15 RATIO
- CONTROL JOINTS SHALL <u>NOT</u> BE INSTALLED IN STRUCTURAL
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fim=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 & 530.I.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG PT. PLATE ON TOP OF ALL CRAW 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
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.
- DESIGN LOADS:

DEAD = 1 PSF T.C., 10 PSF B.C. LOAD DURATION FACTOR = 1.25

LIVE = 40 PSE (30 PSE & SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES)

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

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

(ADD'L IO PSF @ TILE)

GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS ALL NAILS SPECIFIED ARE MIN NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL
- * 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 'STUD' GRADE MEMBERS SPACED . 16" O.C. (MAX., U.N.O.)
- . HEADERS IN NON-LOAD BEARING WALLS SHALL BE (1)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). FIGURERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING
- 'LSL' Fb=2325 psi; Fv=3I0 psi; E=I.55xI0^6 psi
- LVL' Fb=2600 psi; Fv=285 psi; E=2.0xl0^6 psi
- PSL' FB=2900 PSI: FV=290 PSI: E=2.0XI0^6 PSI M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES RESULTING FROM OR RELATED TO ANY BUILDING COMPONENT IF TH OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OF
- 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"x31/4" SIMPSON SDS SCREWS (OR 3½" 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 NAIL S/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/2 x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK OF 14" OR GREATER APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREW 2" FROM EDGE. A SOLID 7" BEAM IS 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 NUMBER OF JACK STUDS REQUIRED, U.N.O., ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"X0.I3I"
- IAILS @ 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 OV WOOD PLATES TO TOP ELANGE 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

FLOOR FRAMING

- -JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED 1 /480 LIVE LOAD DEELECTION CRITERIA (EXCLUDES MARBLE FLOORS - CONTACT MEK FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/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 x 0.131 NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD.
- 2 3" × 0120" NAILS @ 4" OC @ PANEL EDGES & @ 8" OC FIELD 2 3" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.
- Õ× 2" MIN. SCREMS @ 6" O.C. @ PANEL EDGES \$ @ 12" O.C. FIELD

ROOF FRAMING

- *BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W SIMPSON H2.5T CLIP (OR APPROVED EQUAL) ${\bf 0}$ 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 WTCA \$ TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO:
 - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS w/ (3) 3"x0.131" NAILS @ 19.2" 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 1 x 0.131 NAILS @ 6"04. @ PANEL EDGES & @ 12" 04. FIELD.
- w/ 2 🖁 × 0,120" NAILS 👁 4"o.c. 👁 PANEL EDGES 🛊 👁 8" O.C. FIELD.
- W/ 2 🖥 x 0.113" NAILS @ 3"O.C. @ PANEL EDGES \$ @ 6" O.C. 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)
→ HD-3	SIMPSON STHD14/14RJ HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN %

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

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.

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

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

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:) MPH WIND IN 2018 NCSBC: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 R301.13 OF THE 2018 NGSBG:RG, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IE THE PARAMETERS OF SECTION R60212 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.I.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 % "XO.II3" NAILS ● 6" O.C. AT EDGES & ● 12" O.C. IN THE PANEL FIELD. TYP, U.N.C
- 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.
- PALT. STAPLE CONNECTION SPEC: 1½" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD.

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 %" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR | %" 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 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

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING, IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- PESIGN ASSUMES I6" 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 SHEARWAL OR 3" O.C. OSB SHEARWALL

INDICATES HOLDOWN BELOW

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	Steel angle size
3'-O"	20 FT. MAX	L3"x3"x/4"
	3 FT. MAX	L3"x3"x¼"
6'-0"	I2 FT. MAX	L4"x3"x¼"
	20 FT. MAX	L5"x3½"x¾"
8'-0"	3 FT. MAX	L4"x4"x¼" *
0-0	I2 FT. MAX	L5"x3½"x¾"
	I6 FT. MAX	L6"x3½"x¾"
4'-6"	I2 FT. MAX	L6"x3½"x¾6"
16'-0"	2 FT. MAX	L7"x4"x½" **
	3 FT. MAX	L8"x4"x½" **

LL SUPPORT 2 %" - 3 ½" VENEER W 40 psf MAXIMUM WEIGHT. SHAI I HAVF 4" MIN PIFARING

SHALL HAVE A SHALL BE AND THE SHALL HAVE A SHALL HAVE BE ASSESSED BY A SHALL HAVE BE FASTIBLED BACK TO HEADER HAVE A SHALL HAVE BE FASTIBLED BACK TO HEADER HAVE A SHALL HAVE BE ASSESSED BY A SHALL HAVE A SHALL HAV

* FOR QUEEN VENEER USE L4x3が、** ** FOR 3½" VENEER ONLY, SEE FLAN FOR VENEER SUPPORT IF VENEER < 3½" THICK

LEGEND

- IIIIIIIIII INTERIOR BEARING WALL
- 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.

NON-BEARING HEADER SCHEDULE

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

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

ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)1¾"x11%" - F	3½"xli⅓" - F	(3)134"x1136" - F	(2)2xl2 + (l) %"xll"," STEEL FLITCH PLATES - F	WI2xI4 - F
002	(3)1¾"x11%" - F	5¼"xII%" - F	(4)1¾"x11%" - F	(2)2xl2 + (l) ¾"xll¼" STEEL FLITCH PLATES - F	WI2xI4 - F
003	(2)134"x1136" - F	3½"xll%" - F	(3)1¾"x11%" - F	(2)2xi2 + (l) %"xi以" STEEL FLITCH PLATES - F	WI2xI4 - F
004	(2)194"x11 ¼" - D	3½"x ¼" - D	(2)194"x1176" - D	(2)2xl0 + (l) %"xll以" STEEL FLITCH PLATES - D	MØXIO - D

- BEAM NOTATION:
 "F" INDIGATES 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"XO.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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rawn by: JA ssue date: 07-09-24

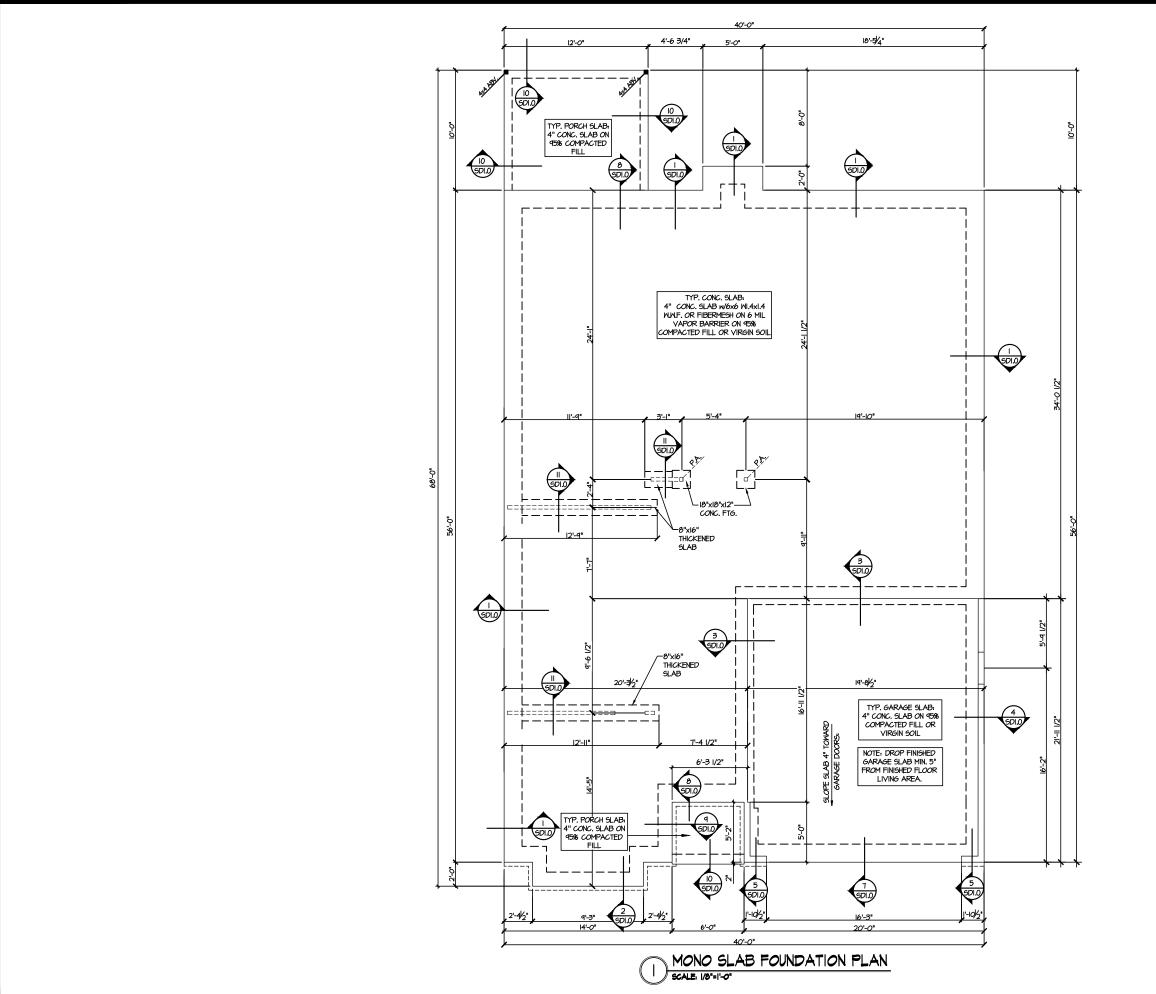
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MULHERN+KULP

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M&K project number: 126-2207

JAC drawn by: issue date: 07-09-24

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A AT NEIL'S CREEK - COOPER 3 - ELEV. 4 H, NC **OUNDATION PLANS**

LEGEND

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

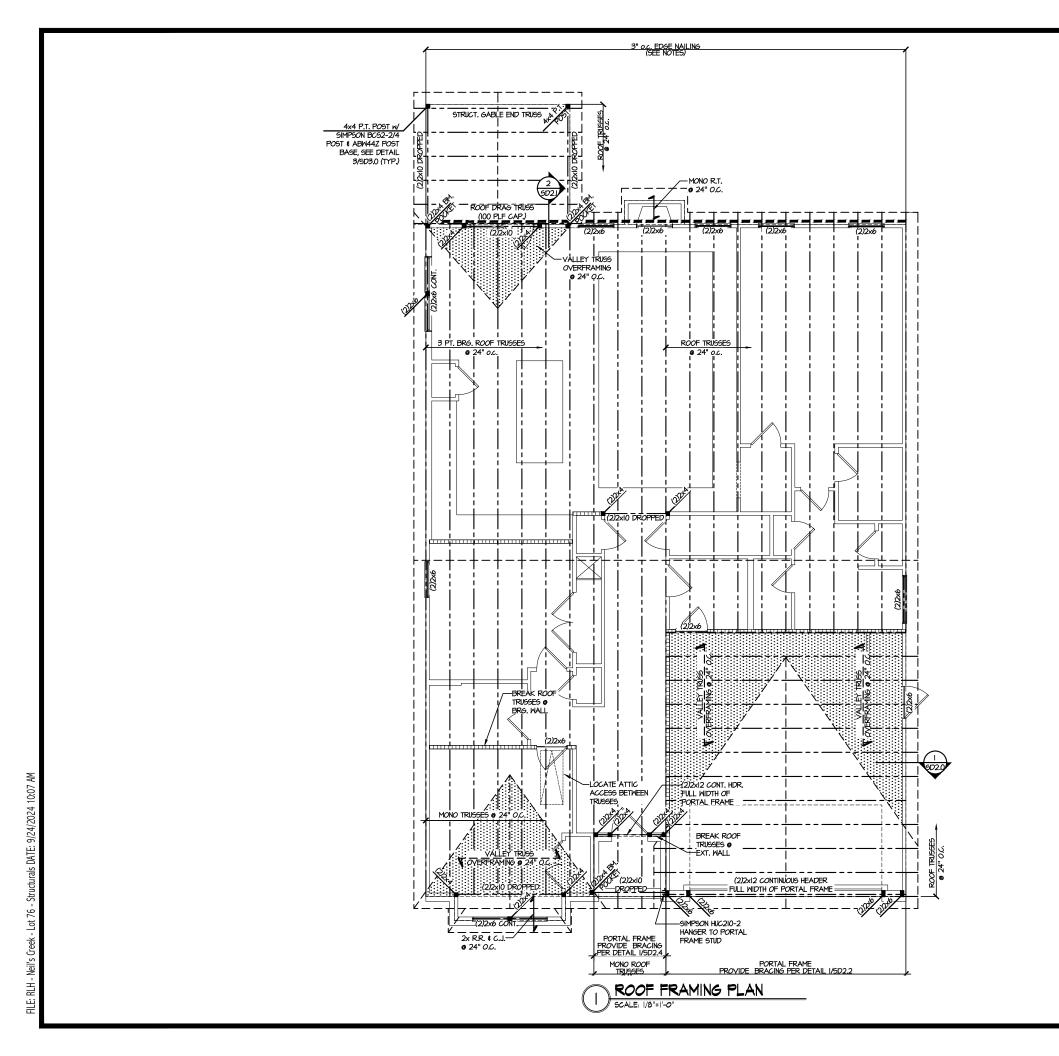
JL METAL HANGER

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

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

S1.0

LOT 76 - C RALEIGH, FARM





MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEER
SOCHWISHEAM, BRIGHT, 4- Author, PA 1990T
\$115-08-06-011 - Authority-Comp.

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M&K project number: 126-2207

drawn by: JAC issue date: 07-09-24

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REVISIONS

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LEGEND

- INTERIOR BEARING WALL
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REFER TO SCHEDULE.

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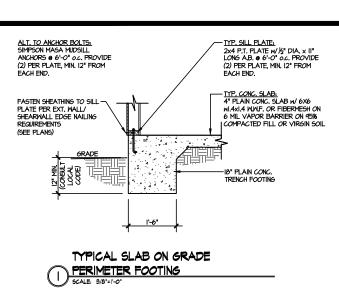
ENGINEERED BEAM MATERIAL SCHEDULE						
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION	
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004	(2)194"xII 1 - D	3½"xII ¼" - D	(2)13/4"x113/6" - D	(2)2xl0 + (l) %"xl以" STEEL FLITCH PLATES - D	W8X10 - D	

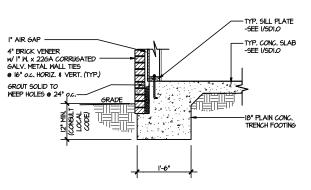
- BEAM NOTATION:

 "F" INDICATES FLUSH BEAM
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 "P" INDICATES DROPPED BEAM
 "H" INDICATES DROPPED DEPLING
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 "FIN SOLITION BEAM CONNECTIONS
 REFER TO DETAIL DEPLING FOR TYPICAL STEEL BEAM CONNECTIONS
 FOR FLUSH TO DETAIL DEPLING FOR TYPICAL STEEL BEAM CONNECTIONS
 FOR FLUSH TO DETAIL BY PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN
 PI ATES IN SUCCESSION W (2) 3 "NO.20" WAILS 9 6" O.C.
- PLATES IN SUCCESSION W (2) 3"XO.120" NAILS @ 8" O.C.
 FOR FLUSH BOTTOM BEAMS PROVIDE 2X STACKED PLATES ATOP BEAM AS REQ'D. FASTEN
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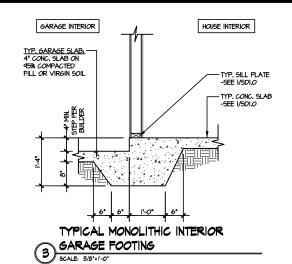
CREEK ELEV. I AT NEIL! COOPER 3 - EI I, NC FARM LOT 76 - C RALEIGH,

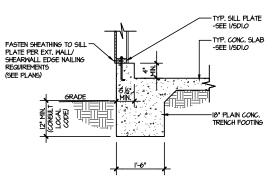




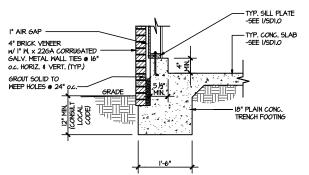




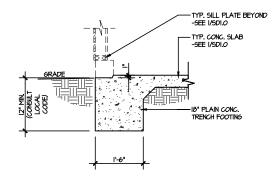




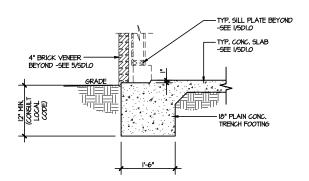




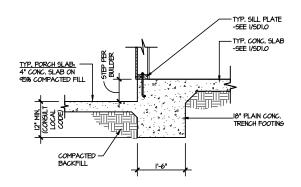




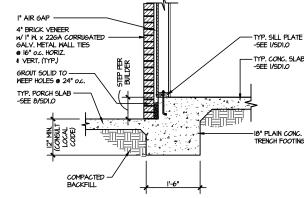
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING
SCALE: 3/8"=1"-0"



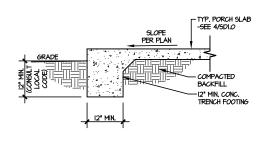
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



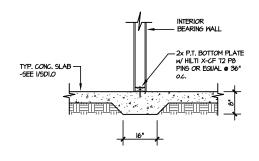
TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO



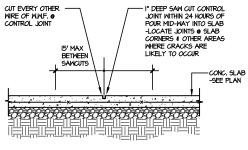
TYPICAL SLAB ON GRADE PERIMETER 9 FOOTING @ PORCH/PATIO



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.

LAT NEIL' COOPER 3 - EI I, NC N O ARM Ō

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M&K project number: 126-2207

issue date: 07-09-24

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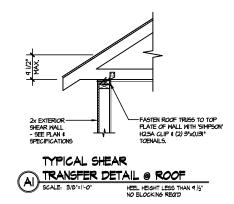
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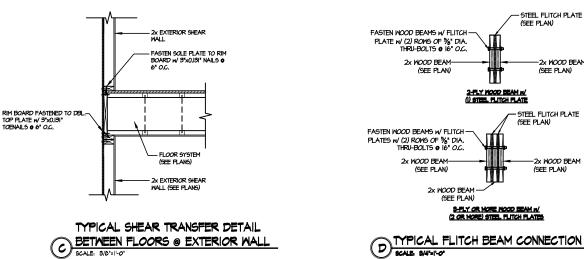
TH CAR

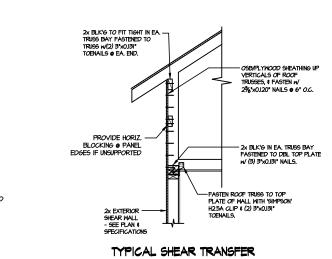
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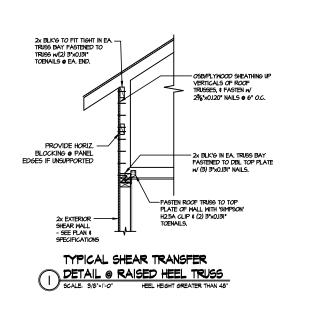
ENGINE

SEPH T. R









2x10 (9/½" - 12" HEEL) OR 2x12 (12" - 16" HEEL) SOLID BLOCKING PANELS EVERY 3RD TRUSS BAY (12" O.C. MAX) FASTEN EA. BLOCKING PANEL TO TOP PLATE w/ (4) 3"x0.13"

—BLOCKING MUST FIT TIGHT BETWEEN TRUSSES. FASTEN EA. END OF BLOCKING TO TRUSS W(2) 3"X0.13" TOENAILS ● TOP OF PANEL

— Fasten R*oo*f Truss t*o* Top Plate of Wall With 'Simpson' H2.5a Clip

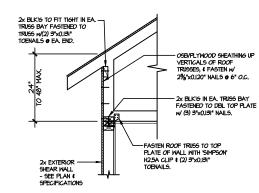
HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D

TOENAILS -

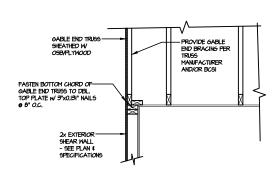
2x EXTERIOR— SHEAR WALL - SEE PLAN & SPECIFICATIONS

TYPICAL SHEAR

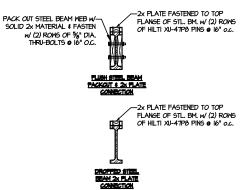
TRANSFER DETAIL @ ROOF
SCALE: 9/8'=1'-0" HEEL HEIGHT BETWEEN 9/9











TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 9/41-1-07

CREEK **ETAILS** ELEV. COOPER 3 - EI Ŋ LOT 76 - C RALEIGH, ARM

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M&K project number:

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09-24-24

126-2207

issue date: 07-09-24

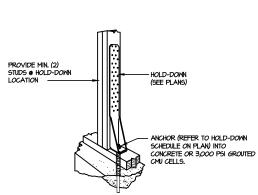
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ENGINE SEPH T. R

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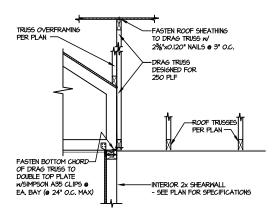
TYPICAL HOLD DOWN INSTALLATION
SCALE: N.T.S.

TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE SAT-1-0"

SHEAR TRANSFER DETAIL @

BREAK IN TRUSSES OVER SHEAR WALL

SCALE SKA-1-0- 2204
36-1-0- 1007



SHEAR TRANSFER DETAIL

AT INTERIOR SHEARWALL BELOW

SCALE 844-1-0*

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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MULHERN+KULP

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M&K project number: 126-22076

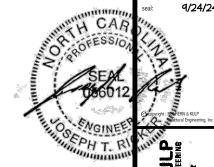
drawn by: JAC issue date: 07-09-24

REVISIONS:

09-24-24 JAD

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 76 - COOPER 3 - ELEV. 4
RALEIGH, NC

SD2.1



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
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M&K project number: 126-2207

drawn by: issue date: 07-09-24

09-24-24 JAD

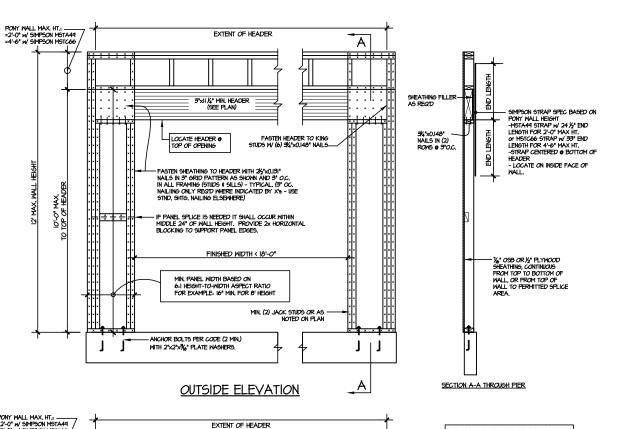
AT NEIL'S CREEK COOPER 3 - ELEV. 4 I, NC FARM LOT 76 - C RALEIGH, 1

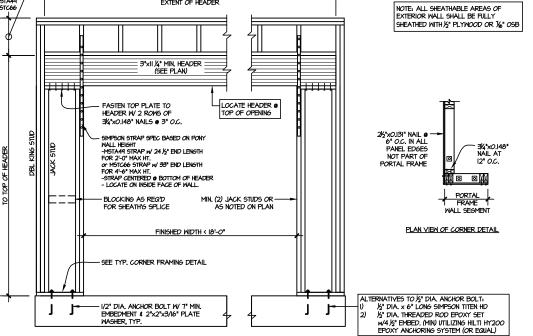
NUMBERED DETAILS ARE PLAN ("CUT") ON THE PLANS.

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ALL APPLICABLE AREAS. THESE

SD2.2





ELEVATION ON CONCRETE STEM

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RESIDENTIAL STRUCTURAL ENGINEERING

SUBMiddle And Delight + Ander PA 19922

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M&K project number:

126-2207

drawn by: JAC issue date: 07-09-24

REVISIONS:

09-24-24 JAD

AT NEIL'S CREEK COOPER 3 - ELEV. 4 . NC DETAILS FARM LOT 76 - C RALEIGH, 1

SD2.4

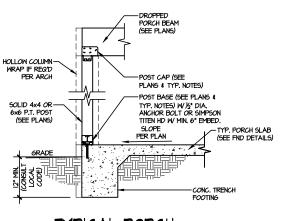
9/24/24 OSEPH T. R MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINERING

STRUCTURAL FAMILE IN 1990

\$175 SERVIN : AMERICAN IN 1990

\$175 SERVIN : AMER



TYPICAL PORCH
POST CONNECTION DETAIL
SCALE: NONE SLAB ON GRADE SHOW SLAB ON GRADE SHOWN (SIM. @ CRAWL & BSMT.)

> ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

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FARM AT NEIL'S CREEK Lot 76 - Cooper 3 - Elev. 4 raleigh, nc FRAMING DETAILS

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M&K project number: 126-2207

issue date: 07-09-24

JAC

drawn by:

09-24-24

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