COOPER 3-RALE

RALEIGH - LOT 00.0026 THE FARM AT NEILL'S CREEK

(MODEL# 1777)

ELEVATION 7 - GR



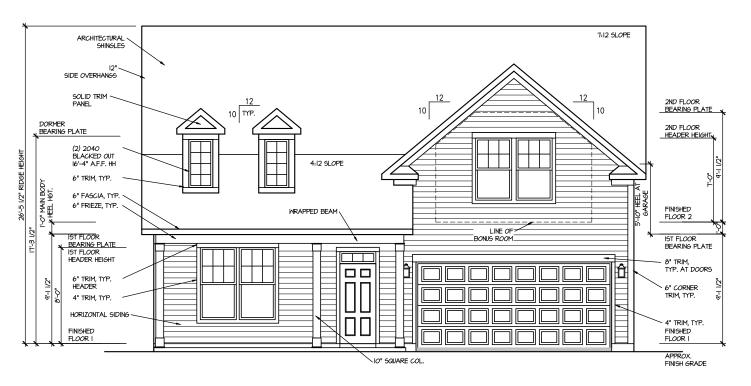
INDEX



_				
1	ADEA CALCULATIONS			
П	AREA CALCULATIONS		001/5050 /	
H		LIEATED	COVERED / UNHEATED	LINIOOV/EDED
H	ELEVATION 7	HEATED	UNHEATED	UNCOVERED
Ц	FIRST FLOOR	1777 SF		
Ц	GARAGE		394 SF	
П	FRONT PORCH - ELEVATION 7		204 SF	
П				
I	OPTIONS			
lŀ	BONUS ROOM	430 SF		
lŀ	COVERED PORCH		120 SF	
H	BEDROOM 4	168 SF	120 31	
H	BEDITOOM 4	100 31		
Ц	TOTAL	2375 SF	718 SF	
Н				
П				
li				
╟				
╟				
╟				
╟				
П				
Ш				
H				
П				
ı				
ı				
lŀ				
╟				
╟				
H				
H				
П				
H				
lĺ				
ľ				
ıŀ				
ıŀ				
ı				
լւ				<u> </u>

284 Peach Grove Way

LOT SPECIFIC				
		THE FARM AT NEILL'S CREEK		
<u> </u>	201 00.0020	COOPER 3 REV. RALE 4 ELEVATION 7		
2	ADDRESS	284 PEACH GROVE WAY LILLINGTON, NC 27546		
	-			
—	 			
	 			
ļ				
	1			
	•			



FRONT ELEVATION 7 SCALE: 1/8" = 1'-0"

ARCHITECTURAL SHINGLES ARCHITECTURAL SHINGLES /4" CORNER TRIM, TYP. 6" FASCIA, TYP. IST FLOOR BEARING PLATE IST FLOOR HEADER HEIGHT FINISHED FLOOR I

REAR ELEVATION 7

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

DRAWN BY: DATE: 06/25/2025

PLAN NO. 1777

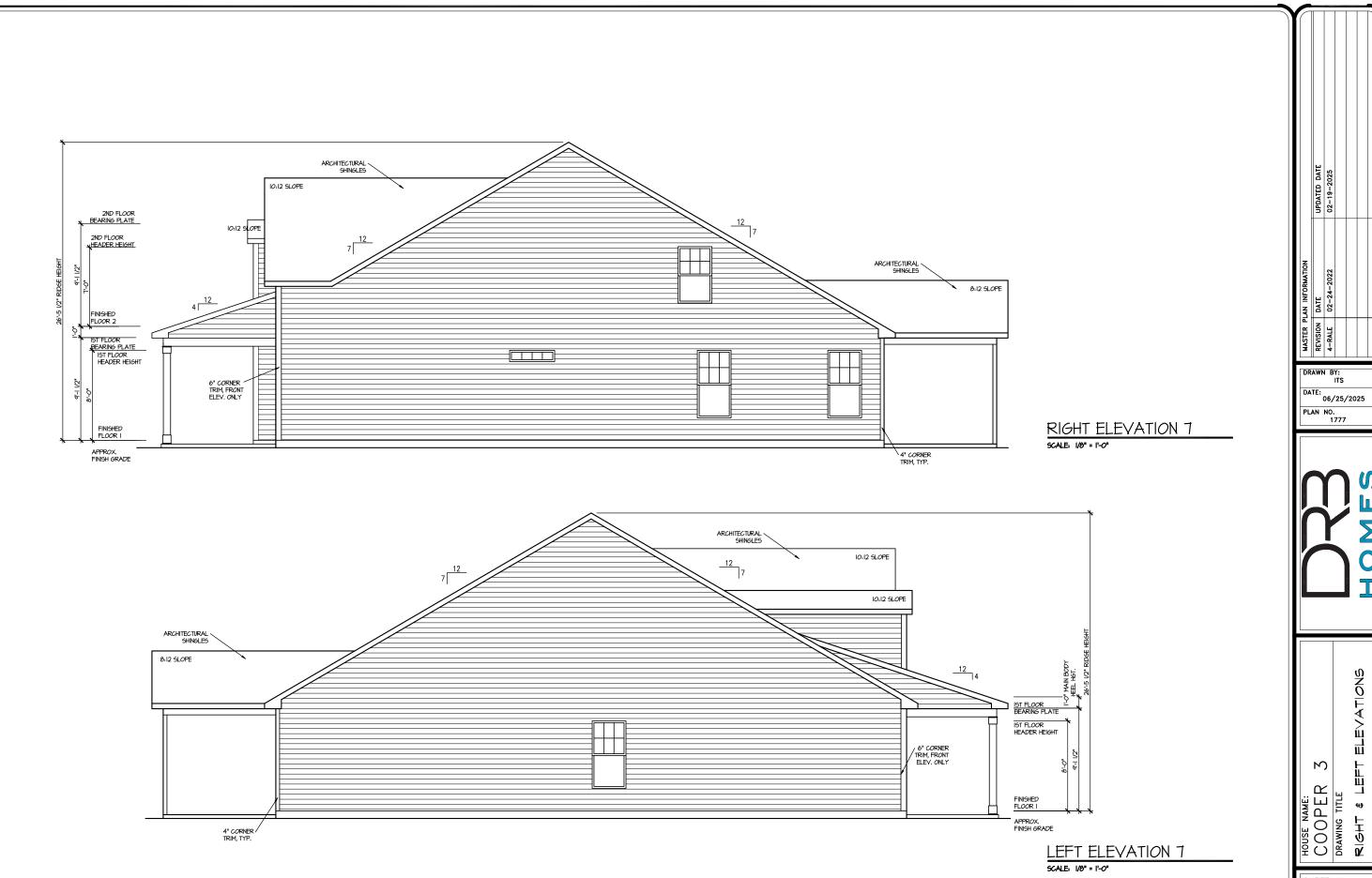


ELEVATIONS HOUSE NAME:
COOPER
DRAWING TITLE

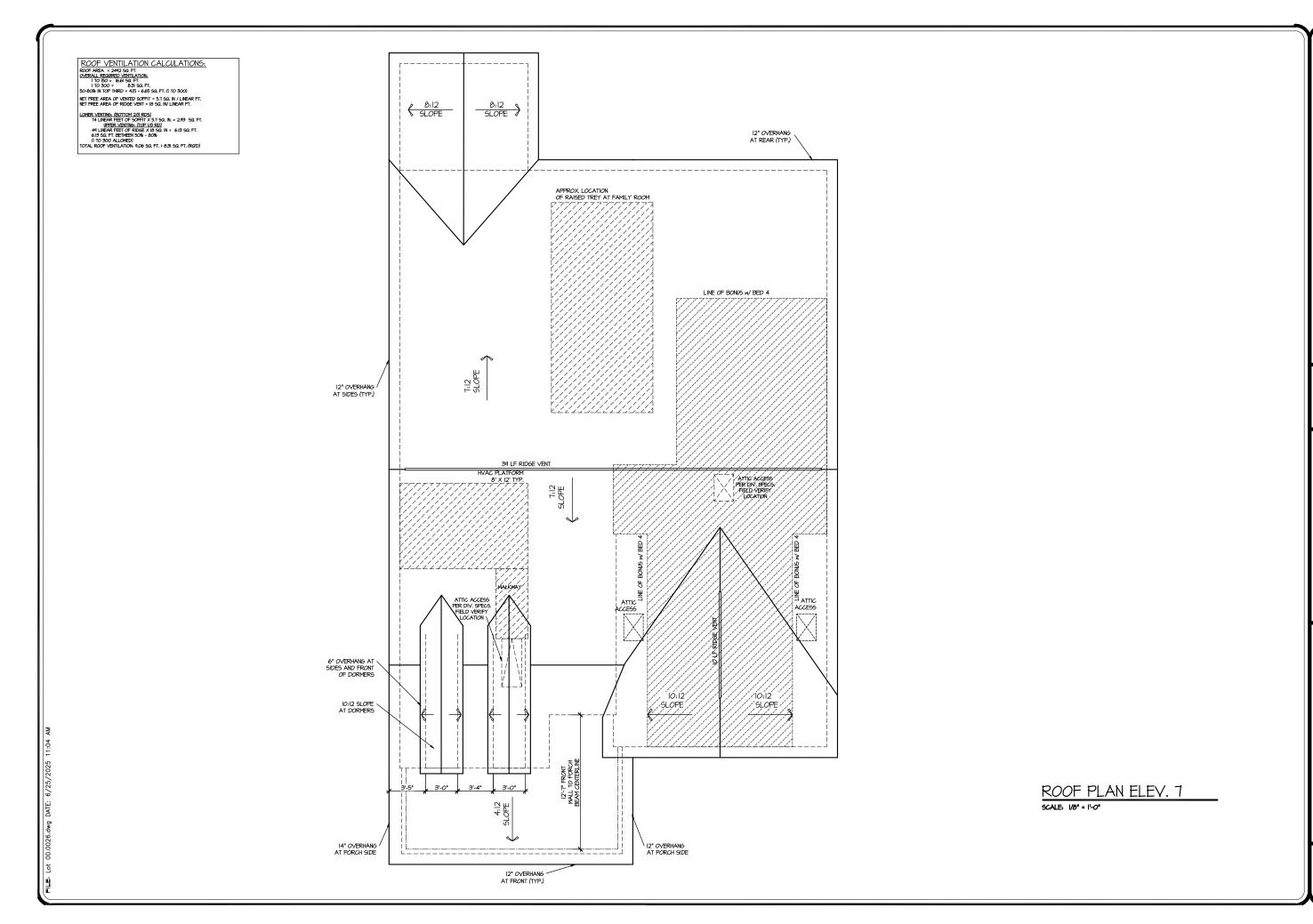
SHEET No.

2

A|.



ELEVATIONS ⊢ ∰ ∏ HOUSE NAME:
COOPER
DRAWING TITLE
RIGHT & LEI



DRAWN BY:

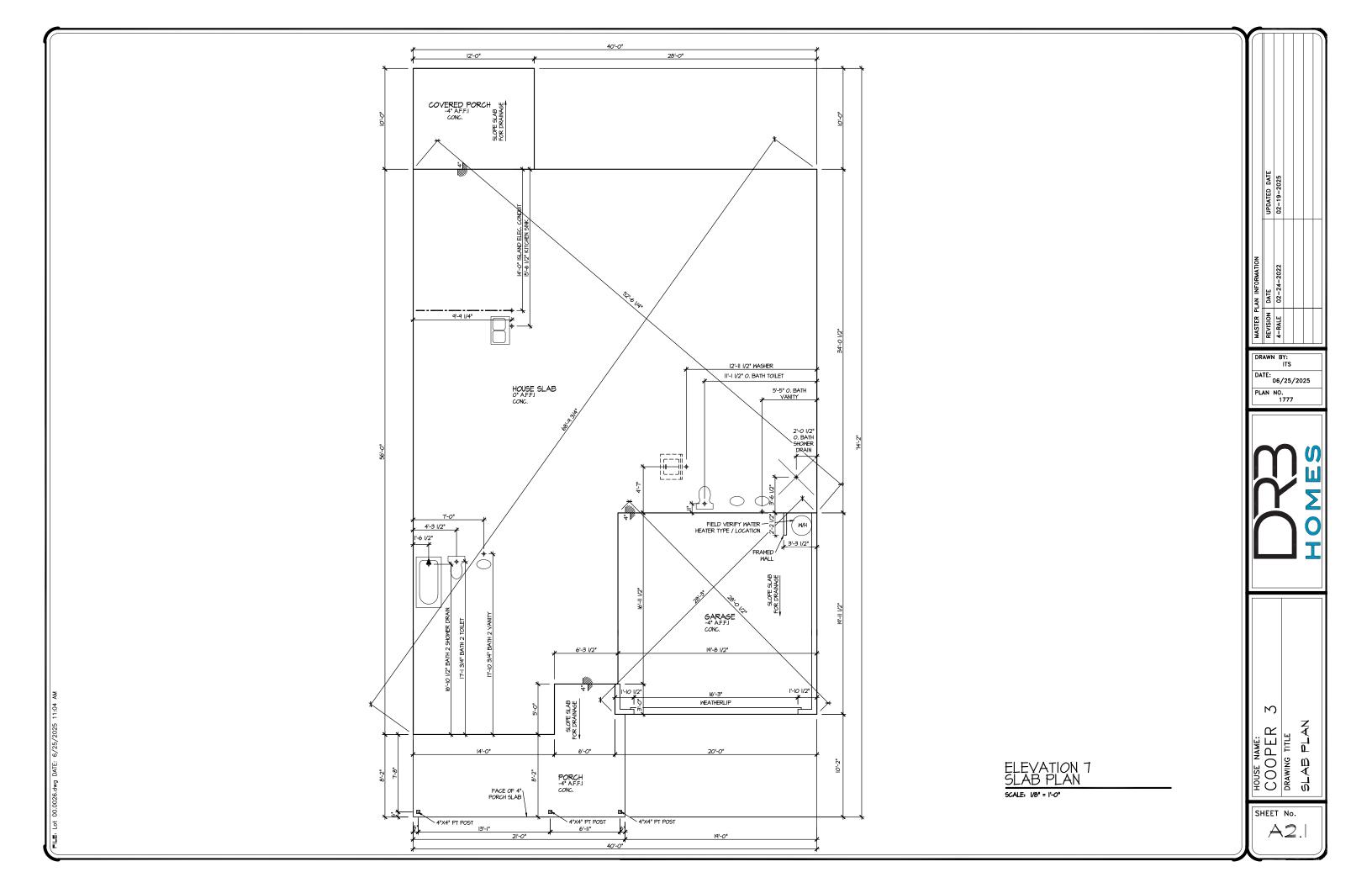
DATE: 06/25/2025 PLAN NO. 1777

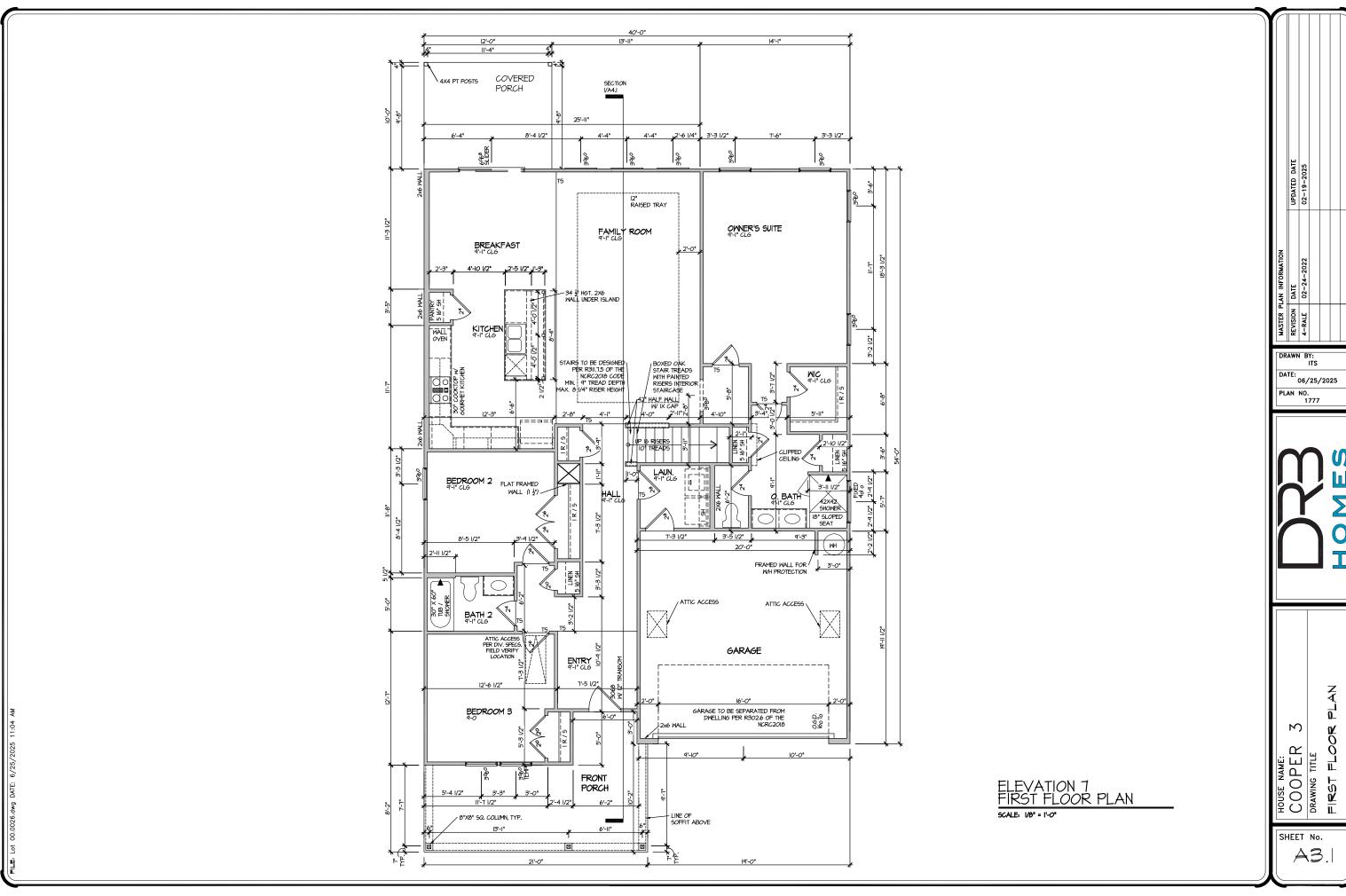


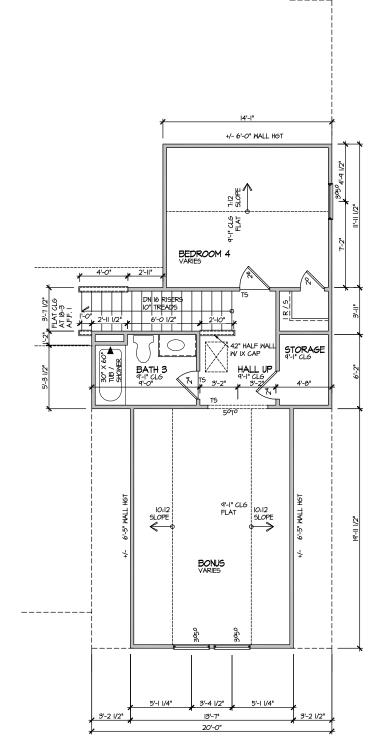
8 HOUSE NAME: COOPER DRAWING TITLE Ø 0 ∏

SHEET No.

AI.3







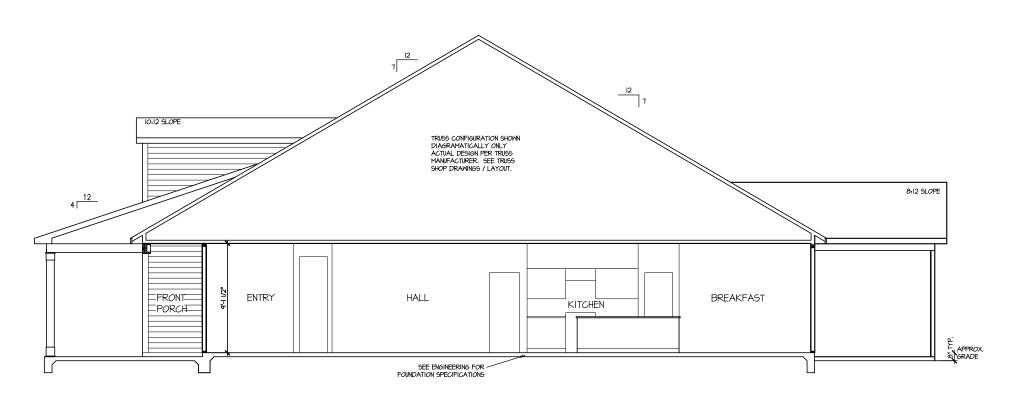
ELEVATION 7 SECOND FLOOR PLAN SCALE 100' = 1'-0' HOUSE NAME:
COOPER 3
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No.

DRAWN BY:

DATE: 06/25/2025 PLAN NO. 1777

: Lot 00.0026.dwg DATE: 6/25/2025 11:04 /

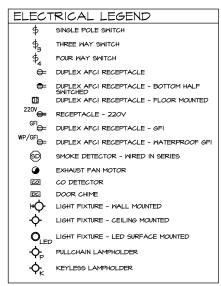


SECTION I SCALE 1/0" = 1'-0" | MASTER PLAN INFORMATION | REVISION | DATE | O2-24-2022 | O2-19-2025 | O2-19-2025

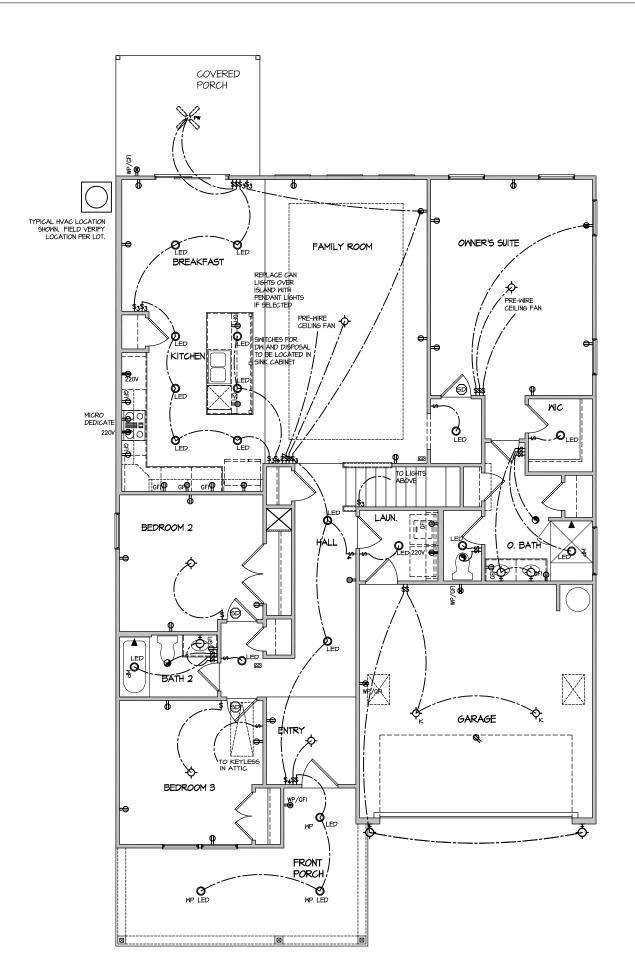
DRAWN BY:
ITS
DATE:
06/25/2025
PLAN NO.
1777

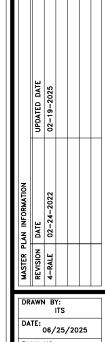


HOUSE NAME:
COOPER 3
DRAWING TITLE
BUILDING SECTION



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.





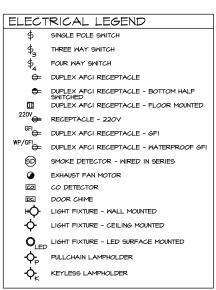
PLAN NO. 1777



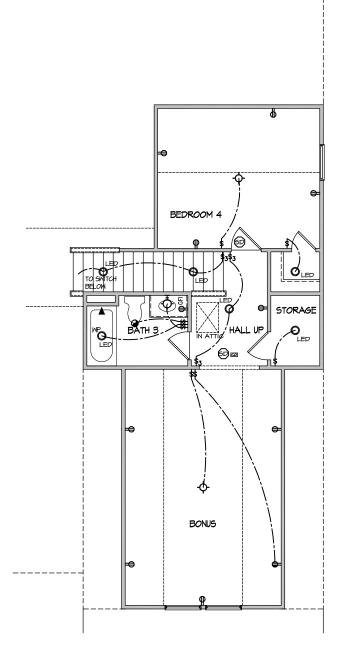
ᇳ

3 HOUSE NAME: COOPER DRAWING TITLE

ELECTRICAL PLAN FIRST FLOOR - ELEV. 7



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



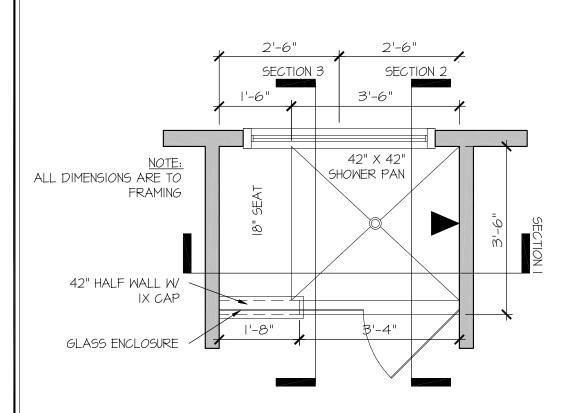
ELECTRICAL PLAN SECOND FLOOR - ELEV. 7 SCALE: 1/8" = 1'-0"

FILE: Lot 00.0026.dwg DATE: 6/25/2025 11:04 AM

HOUSE NAME:
COOPER 3
DRAWING TITLE
SECOND FLOOR ELECTR

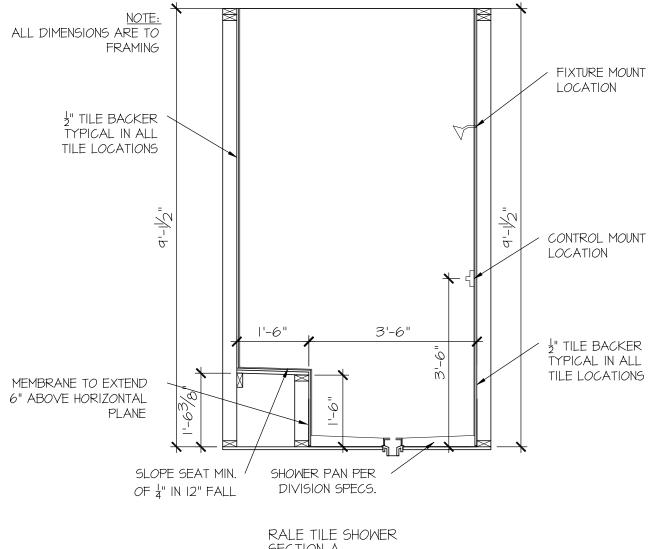
DRAWN BY:

DATE: 06/25/2025 PLAN NO. 1777



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

~ "

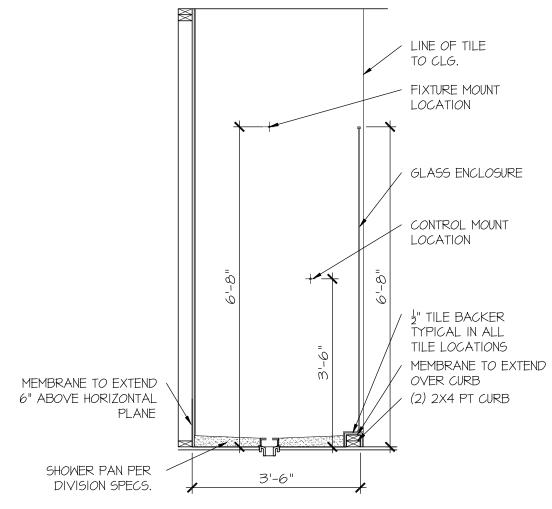


E ILE SHOWER DETAIL

OUSE NAME:

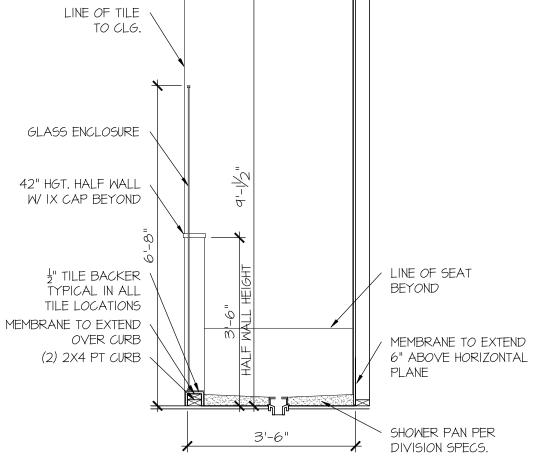
SHEET No.

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.
- FASTEN 2x SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS
- PER PLATE, 12" MAX. FROM PLATE ENDS UTILIZING:
 1/2" DIA. ANCHOR BOLTS 6'-0" O.C., 7" MIN. EMBEDMENT
- (CONC), 15" MIN. EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC.)
- SIMPSON MAB23 ANCHOR STRAPS @ 2'-8" O.C. (CMU) (REFER TO DETAILS FOR 10' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO 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 1eq 000,00
- BASEMENT FOUNDATION WALL DESIGN BASED ON
- 9' OR 10' HEIGHT (AS NOTED ON PLANS)
- TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (9 1/2" FOR 10" THICK WALL). BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE
- CLASSIFICATIONS (SC, ML-CL, OR CL). BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY
- ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK. PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN
- CONCRETE BSMT. FND. WALL WITH 2" CLEAR. REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
- FOR OPENINGS UP TO 36", PROVIDE MINIMUM 10" CONCRETE DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.C
- LARGER OPENINGS SHALL BE PER PLAN. ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
- HAN 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 WINTS 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'-O" OC. (MAXIMIM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I-1 RATIO) WITH A MAXIMUM OF I-15 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 REINFORCEMENT (OR EQUAL) - 9 GA, MINIMUM @ 16" O.C.
- PROVIDE 2x6 (MIN.) x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE FASTENED PER ANCHORAGE SPECIFICATIONS NOTED ABOVE. TOP 2 COURSES (MIN.) OF PIER TO BE GROUTED SOLID (8 COURSE MAX. PIER HEIGHT).
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE. TOP 2 COURSES (MIN.) OF WALL TO BE GROUTED SOLID (8 COURSE MAX, WALL HEIGHT)
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY

GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NOS. "NATIONAL DESIGN

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

LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = IO PSF (I-JOISTS & SOLID SAWN)
IO 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 REQUIREMEN 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, @ 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 OADS & SIZED ACCORDINGLY. CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED MITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX., U.N.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 psl; Fv=3I0 psl; E=1.55xI0^6 psl 'LVL' Fb=2600 psl; Fv=285 psl; E=2.0xI0^6 psl
- '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 INSTALL ATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS ● 8" O/C OR 2 ROWS 1/4"x31/2" SIMPSON SDS SCREWS (OR 31/4" TRUSSLOK SCREWS) @ 16" O/C. USE 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 ½" 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 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTH 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 T" 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" 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 1/2" DIA. BOLTS 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BC52-2/4 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 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 ½" × 0.131" NAILS • 6"o.c. • PANEL EDGES € • 12"o.c. FIELD.
- 2 3 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD.
- 2 👸 × 0.113" NAILS @ 3" O.C. @ PANEL EDGES \$ @ 6" O.C. IN FIELD. #6 x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES \$ @ 12" O.C. FIELD.

ROOF FRAMING

- *BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN FACH POOF TRIES TO TOP PLATE W/ SIMPSON HOST 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.C
- * ERECT AND INSTALL ROOF TRUSSES PER WICA & TPI'S BCSLI-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 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"o.c. @ PANEL EDGES \$ @ 12" O.C. FIELD. -w/2 🖁 x 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

5YMB0L	SPECIFICATION	
► HD-I	SIMPSON HTT4 HOLD-DOWN * (%" DIA. ANCHOR)	
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) -OR- MSTC66B3 ALTERNATE	
► HD-3	SIMPSON STHDI4/STHDI4RJ	

SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN. OOTING THICKNESS REQUIRED

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

LATERAL BRACING & SHEAR WALL 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 IRC R301.211) 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 NGSBG:RG 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 % "XO.II3" 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.
- ALT STAPLE CONNECTION SPEC. I 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 3/4" 16 GA STAPLES (%" CROWN) @ 3" O.C. AT EDGES \$ @ 6" O.C IN FIELD, ALL SHEATHING PANELS SHALL BE DRIENTED 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 JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.

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

- 1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, \$ I-JOISTS: 1/8" DEAD LOAD
- FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)134"xII%" - F	3½"xll%" - F	(3)1¾"x11%" - F	(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F
002	(3)13/4"x113/6" - F	5¼"xll%" - F	(4)1¾"x11%" - F	(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F
003	(2)134"xII%" - F	3½"xll%" - F	(3)1¾"x11%" - F	(2)2xl2 + (1) %"xll以" STEEL FLITCH PLATES - F	WI2xI4 - F
004	(2)1¾"x11 ¼" - D	3½"x ∤" - D	(2)1¾"x11%" - D	(2)2xi0 + (1) 3/5xi1/4" STEEL FLITCH PLATES - D	₩8 XI0 - D

- BEAM NOTATION: "F" INDICATES FLUSH BEAM
- "FT" INDICATES FLUSH TOP BEAM
- "FB" INDICATES FLUSH BOTTOM BEAM
- "D" INDICATES DROPPED BEAM
 "H" INDICATES DROPPED OPENING HEADER

- REFER TO DETAIL D/502.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
 REFER TO DETAIL E/502.0 FOR TYPICAL STEEL BEAM CONNECTIONS
 FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN
- PLATES IN SICCESSION W/ (2) 3"XO 120" NAILS & 8" OC. FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN
 - LEGEND

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

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

NON-BEARING HEADER SCHEDULE

SPAN	2x4 Non-Bearing Partition Wall	2x6 NON-BEARING PARTITION WALL
UP TO 3'-0"	(I)2x4 FLAT	(I)2x6 FLAT
UP TO 6'-0"	(2)2x4	(3)2×4
UP TO 8'-0"	(2)2x6	(3)2x6
JP TO 12'-0"	(2)2x8	(3)2x8

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

ALTERNATE F.J MANUFACTURERS

FLOOR JOISTS BY MANUFACTURER'S OTHER THAN THOSE SHOWN ON I-JOISTS DESIGN AND CONSTRUCTION GUIDE, MINIMUM JOIST PROPERTIES INCLUDING, BUT NOT LIMITED TO, ALLOWABLE SHEAR, ALLOWABLE MOMENT, STRENGTH, AND STIFFNESS, SHALL MEET OR EXCEED THOSE LISTED FOR THE PRI-60 SERIES I-JOISTS. ALL ALLOWABLE HOLES, BEARING STIFFENERS, AND JOIST TO JOIST CONNECTIONS ARE PER THE JOIST MANUFACTURER

CAR OFESSIO ENGINE ERN+KC STREETEN ENGINE

王二 $\mathbf{\Sigma}^{\mathbf{g}}$ Y

1&K project numbe 126-22076

JTF frawn by: GT ssue date: 07-10-2

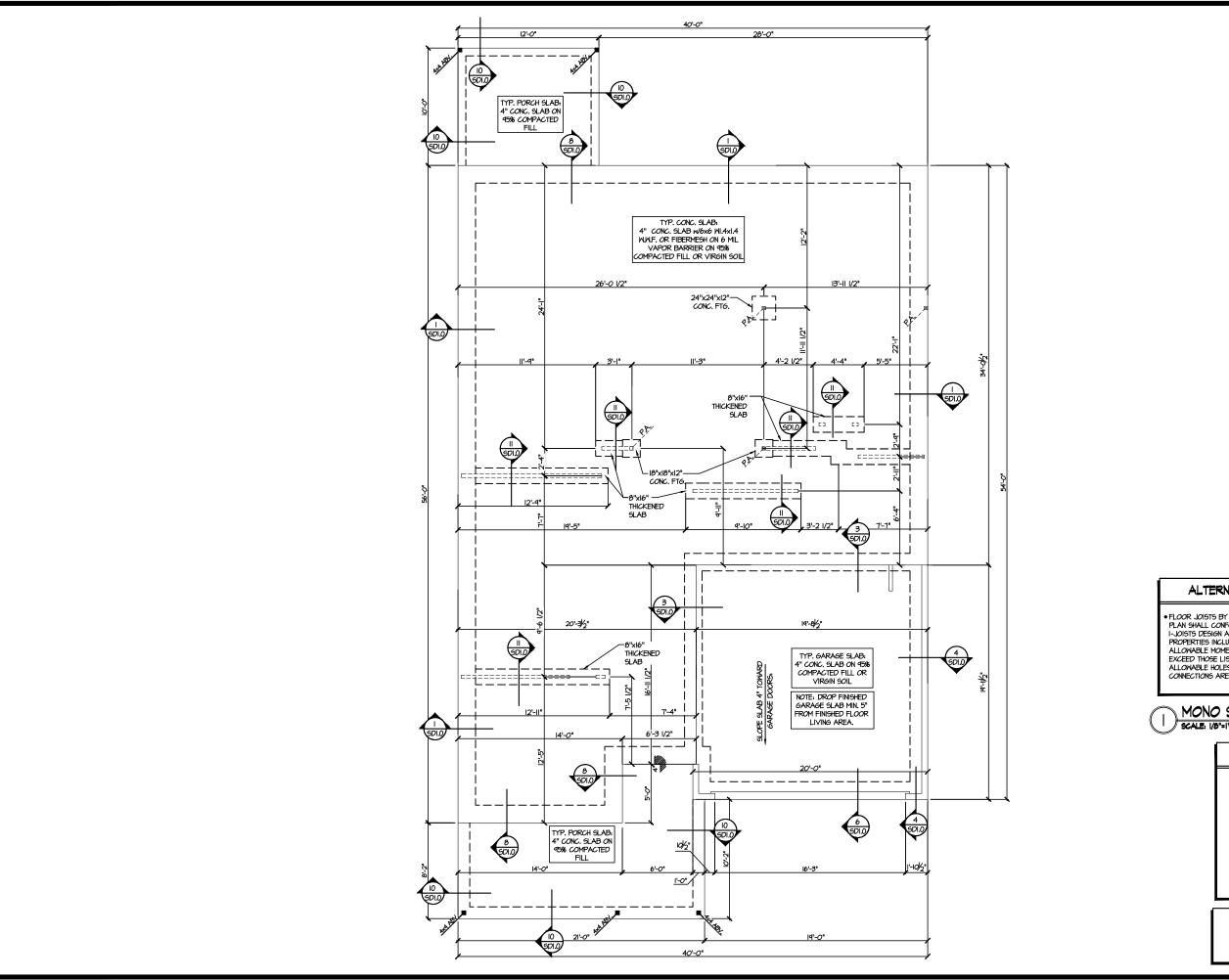
initial:

REVISIONS:



CREEK TRUCTURAL NOT NEIL'S ATRM

ш



ALTERNATE F.J MANUFACTURERS

 FLOOR JOISTS BY MANUFACTURER'S OTHER THAN THOSE SHOWN ON PLAN SHALL CONFORM TO THE APA PERFORMANCE RELATED ILJOISTS DESIGN AND CONSTRUCTION GUIDE. MINIMUM JOIST PROPERTIES INCLUDING, BUT NOT LIMITED TO, ALLOWABLE SHEAR, ALLOWABLE MOMENT, STRENGTH, AND STIFFNESS, SHALL MEET OR EXCEED THOSE LISTED FOR THE PRI-60 SERIES I-JOISTS. ALL ALLOWABLE HOLES, BEARING STIFFNERS, AND JOIST TO JOIST CONNECTIONS ARE PER THE JOIST MANUFACTURER.

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

LEGEND

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

MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERINS

7/10/25

H CAR

Y

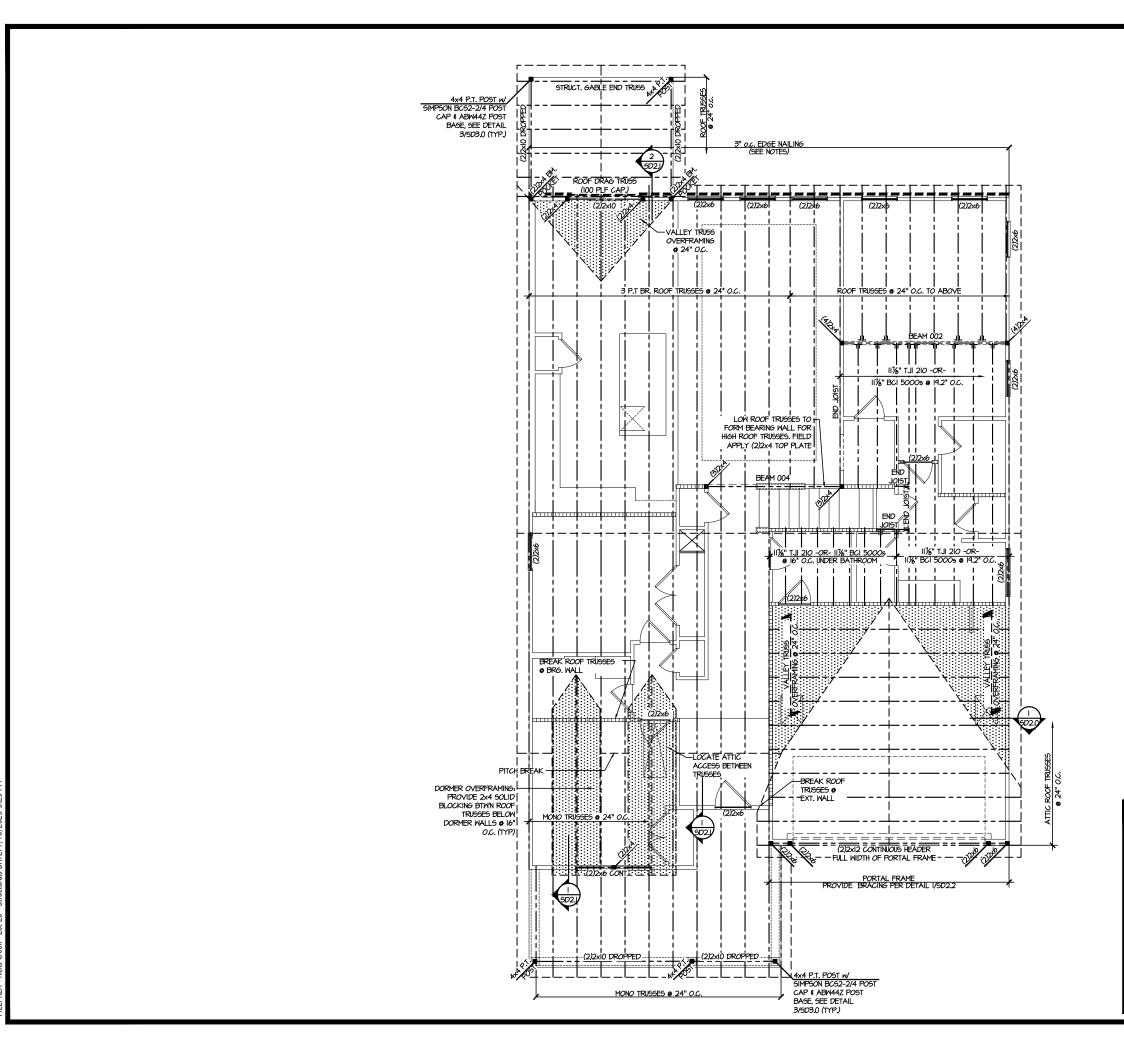
M&K project number: 126-22076

JTR drawn by: GTK ssue date: 07-10-2

initial:

NEIL'S CREEK OUNDATION ATFARM

S1





MULHERN+KULI
RESIDENTIAL STRUCTURAL ENGINEERIN

y M&K project number:

126-22076

ssue date: 07-10-2

REVISIONS:

JTR

GTK

initial:

ALTERNATE F.J MANUFACTURERS

• FLOOR JOISTS BY MANUFACTURER'S OTHER THAN THOSE SHOWN ON PLAN SHALL CONFORM TO THE APA PERFORMANCE RELATED I-JOISTS DESIGN AND CONSTRUCTION GUIDE, MINIMUM JOIST PROPERTIES INCLUDING, BUT NOT LIMITED TO, ALLOWABLE SHEAR, ALLOWABLE MOMENT, STRENGTH, AND STIFFNESS, SHALL MEET OR EXCEED THOSE LISTED FOR THE PRI-60 SERIES I-JOISTS. ALL ALLOWABLE HOLES, BEARING STIFFENERS, AND JOIST TO JOIST CONNECTIONS ARE PER THE JOIST MANUFACTURER.

2ND FLOOR/LOW ROOF FRAMING PLAN

LEGEND

- 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

ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)134"×1136" - F	3½"x11½" - F	(3)134"x1176" - F	(2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F
002	(3)134"x1136" - F	5¼"xll%" - F	(4)1¾"x11%" - F	(2)2xi2 + (i) %"xil¼" STEEL FLITCH PLATES - F	WI2xI4 - F
003	(2)1¾"x11%" - F	3½"xll%" - F	(3)1¾"x11%" - F	(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F
004	(2)134"x 1 ¼" - D	3½"xII ‡" - D	(2)134"x1136" - D	(2)2xi0 + (i) %"xii;" Steel Flitch Plates - D	M8XIO - D

- BEAM NOTATION:

 "F" INDICATES FLUSH BEAM

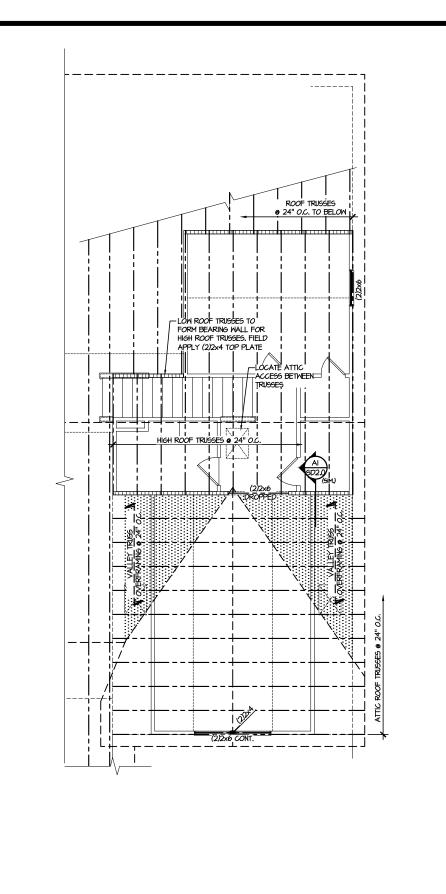
 "FT" INDICATES FLUSH BOTTOM BEAM

 "FD" INDICATES FLUSH BOTTOM BEAM

 "D" INDICATES DROPPED OPENING HEADER
 REFER TO DETAIL D'SD20 FOR TYPICAL FLITCH BEAM CONNECTIONS
 REFER TO DETAIL D'SD20 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*YOLD' NAILS @ 8" O.C.
- PLATES IN SUCCESSION W (2) 3"X0.120" NAILS @ 0" 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.

CREEK NEIL'S AT FARM LOT

S2.



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

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.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINERING
SUBmodale Ava Balling 1- Avalue, IN 1982
PZIS-SERRIT - Avalue, IN 1982 Y

7/10/25

H CAR

M&K project number: 126-22076

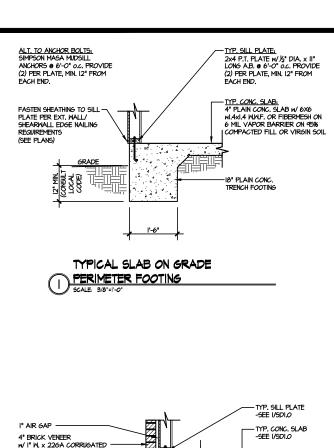
JTR drawn by: GTK issue date: 07-10-25

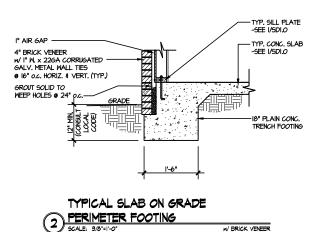
REVISIONS:

initial:

FARM AT NEIL'S CREEK Lot 26 - cooper 7 raleigh, nc ROOF FRAMING PLANS

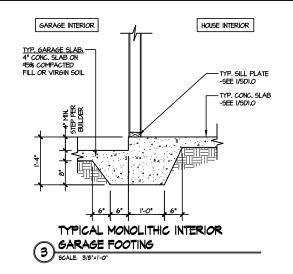
S3.0

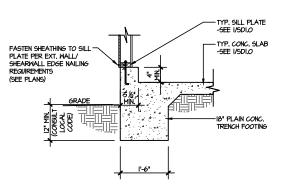




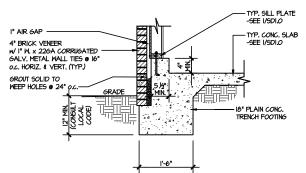
SCALE: 3/8"=1"-0"

w/ BRICK VENEER

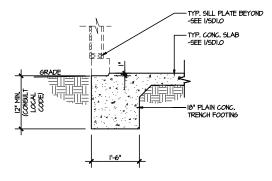




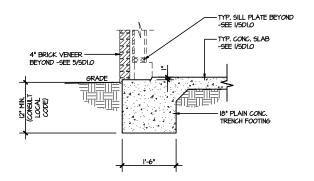




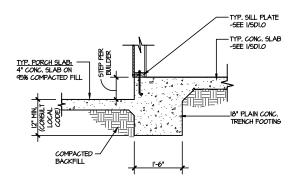




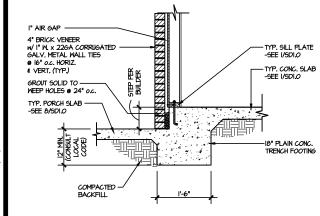
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING



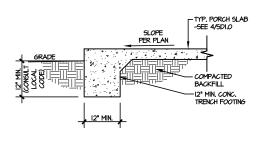




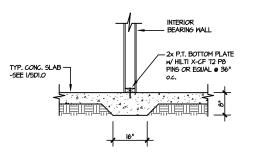
TYPICAL SLAB ON GRADE PERIMETER B FOOTING @ PORCH/PATIO



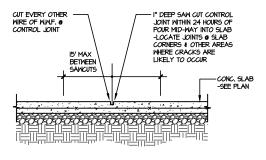
TYPICAL SLAB ON GRADE PERIMETER POOTING @ PORCH/PATIO



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL





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

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

CREEK

NEIL'S

AT

FARM

COOPER

LOT

oundation Detail

7/10/2

ERN+KU

Z

Y

M&K project number 126-22076

ssue date: 07-10-2

frawn by:

REVISIONS:

JTF

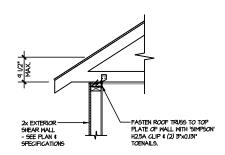
GTK

initial:

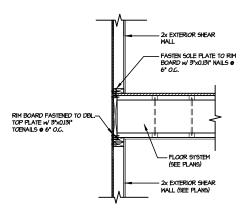
CAR

OFESSIO

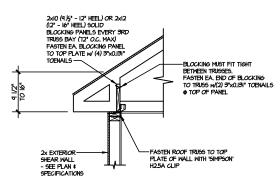
ENGINE SEPH T. R



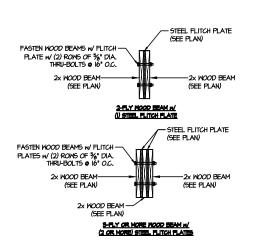
TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/8"=1"-0" HEEL HEIGHT LESS THA HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D



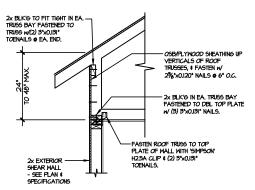




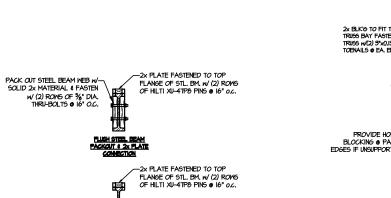




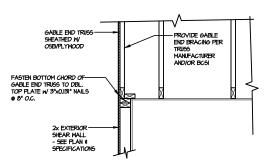
TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE SATING



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS

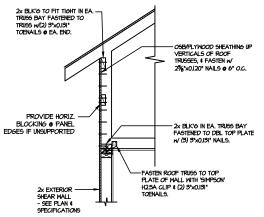


TYPICAL STEEL BEAM CONNECTION DETAIL SCALE SUPPLY



TYPICAL GABLE END DETAIL

SCALE: 9/8'=1'-0'



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS

7/10/2

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERINS

Y

M&K project number:

drawn by:

REVISIONS:

126-22076

ssue date: 07-10-2

JTR

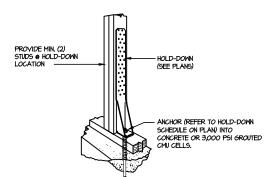
GTK

initial:

H CAR

ENGINE

SEPHT. RI



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

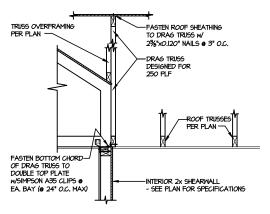
LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

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

CREEK AT NEIL'S RAMING DETAIL COOPER 7 FARM, LOT

SD2.0

SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL



SHEAR TRANSFER DETAIL

AT INTERIOR SHEARWALL BELOW

8CALE 944-11-0*

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.

MUCHERNAL STRUCTURAL ENGINEERING Y

7/10/25

H CAR

SEPH T. RI

M&K project number: 126-22076

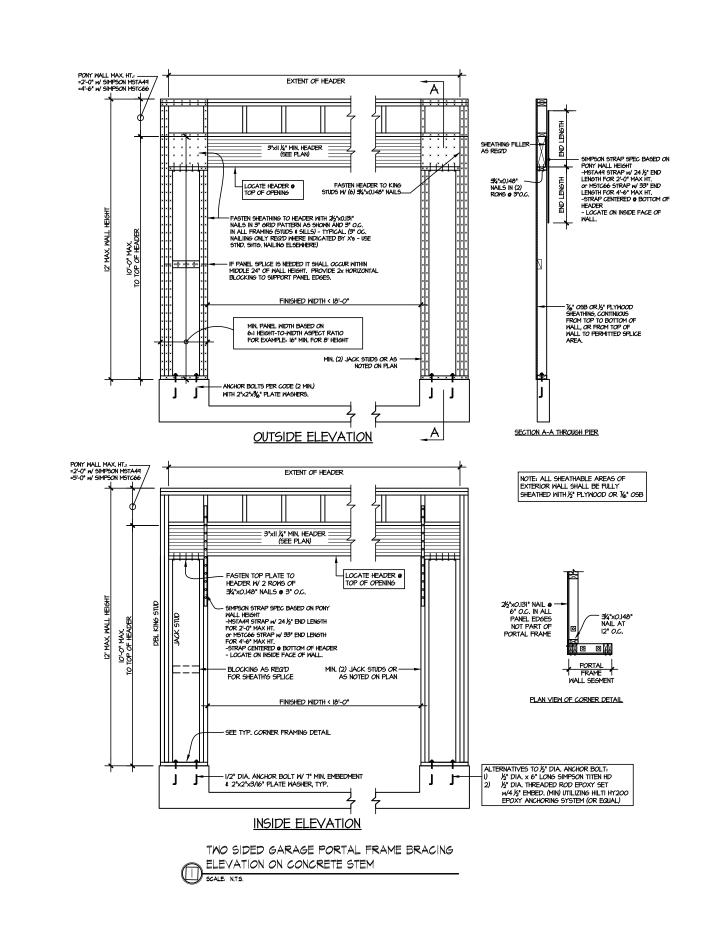
initial:

JTR GTK drawn by: ssue date: 07-10-2

REVISIONS:

FARM AT NEIL'S CREEK LOT 26 - COOPER 7 RALEIGH, NC FRAMING DETAILS

SD2



MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING Y

7/10/25

"H CAR

SEPH T. RI

M&K project number: 126-22076

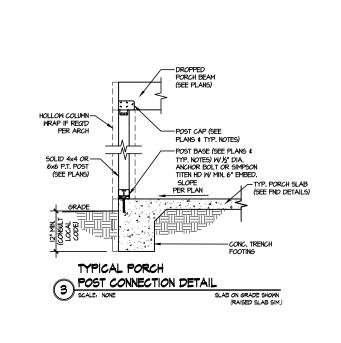
JTR drawn by: GTK ssue date: 07-10-2

REVISIONS:

initial:

FARM AT NEIL'S CREEK

FRAMING DETAILS LOT 26 - C RALEIGH,



7/10/25 "A CAR

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

M&K project number: 126-22076

project mgr: JTR drawn by: GTK issue date: 07-10-25

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 26 - COOPER 7

SD3.0

