

FILE: Lot\_00.001.4.dwg DATE: 10/30/2024 11:16 AM

MASTER PLAN INFORMATION	
REVISION	DATE
4-RALE	02-24-2022
UPDATED DATE	01-16-2023

DRAWN BY: ITS  
DATE: 10/30/2024  
PLAN NO. 1777



HOUSE NAME: COOPER 3  
DRAWING TITLE: FRONT & REAR ELEVATIONS

SHEET No. A.1



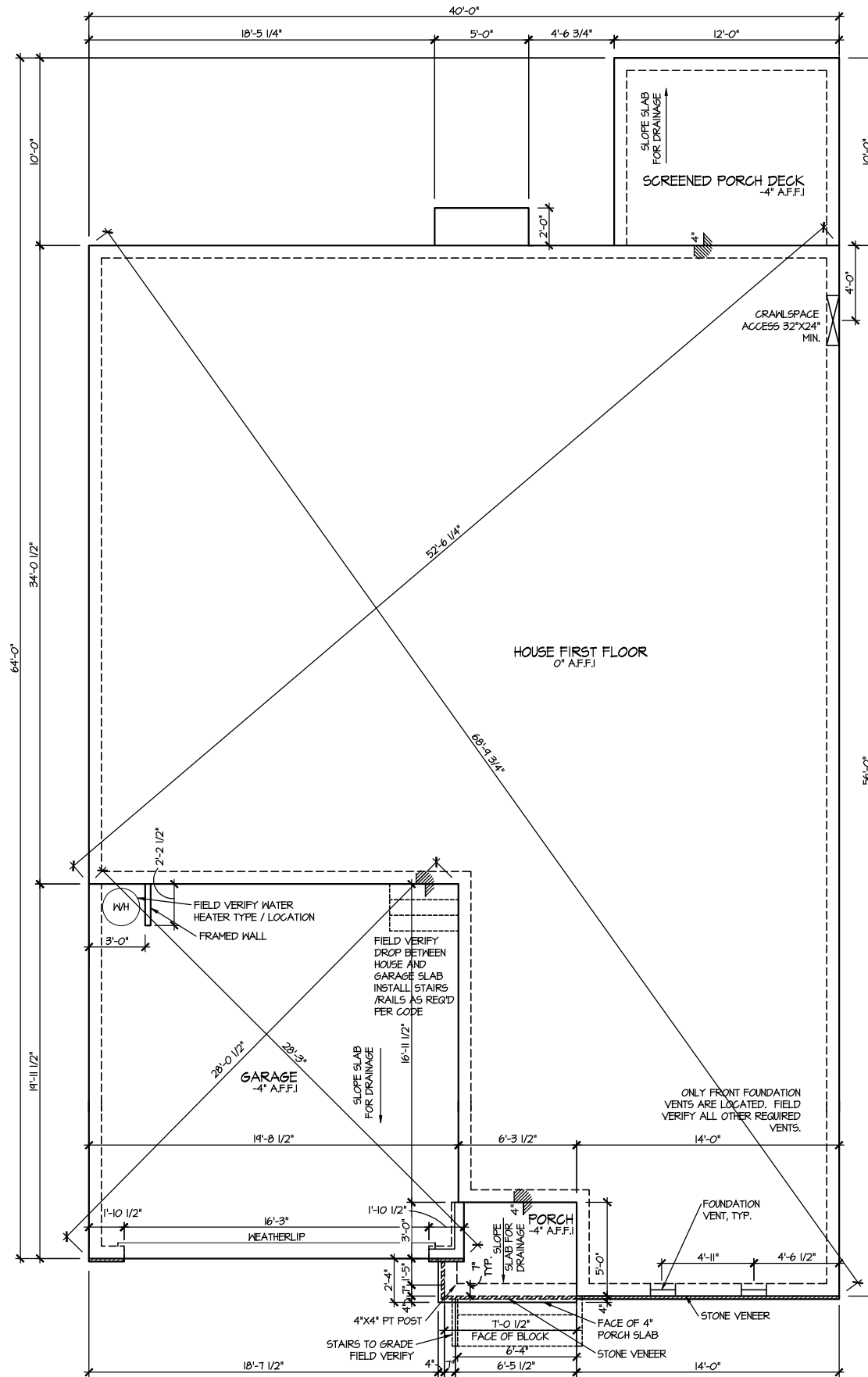


**CRAWLSPACE VENT CALCULATIONS ALL ELEVATIONS**  
 CRAWL AREA = 1776 SQ. FT.  
**OVERALL REQUIRED VENTILATION:**  
 1 SQ. IN. PER 1 SQ. FT. = 1776 SQ. IN.

NET FREE AREA OF VENT = 72 SQ. IN. PER VENT  
 WITH AN AUTOMATIC VENT OAL-1 OR EQUAL

**VENTING REQUIREMENT:**  
 1776 SQ. IN. / 72 SQ. IN. = 24.7 VENTS = 25 VENTS

ONLY VENTS ON THE FRONT ELEVATION ARE SHOWN. ALL  
 OTHERS TO BE FIELD LOCATED.  
**VENTS SHALL BE INSTALLED PER R322.2.2 - R322.2.2.1**  
 MIN. (2) VENTS PER ENCLOSED SPACE  
 VENTS TO BE INSTALLED ON MIN. OF (2) WALLS PER  
 ENCLOSED SPACE  
 BOTTOM OF VENTS INSTALLED MAX. OF 12" ABOVE FIN.  
 EXTERIOR GRADE



**ELEVATION 6**  
**CRAWL SPACE PLAN**  
 SCALE: 1/8" = 1'-0"

FILE: Lot\_00.0014.dwg DATE: 10/30/2024 11:16 AM

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REVISION	DATE
4-RALE	02-24-2022
UPDATED DATE	01-16-2023

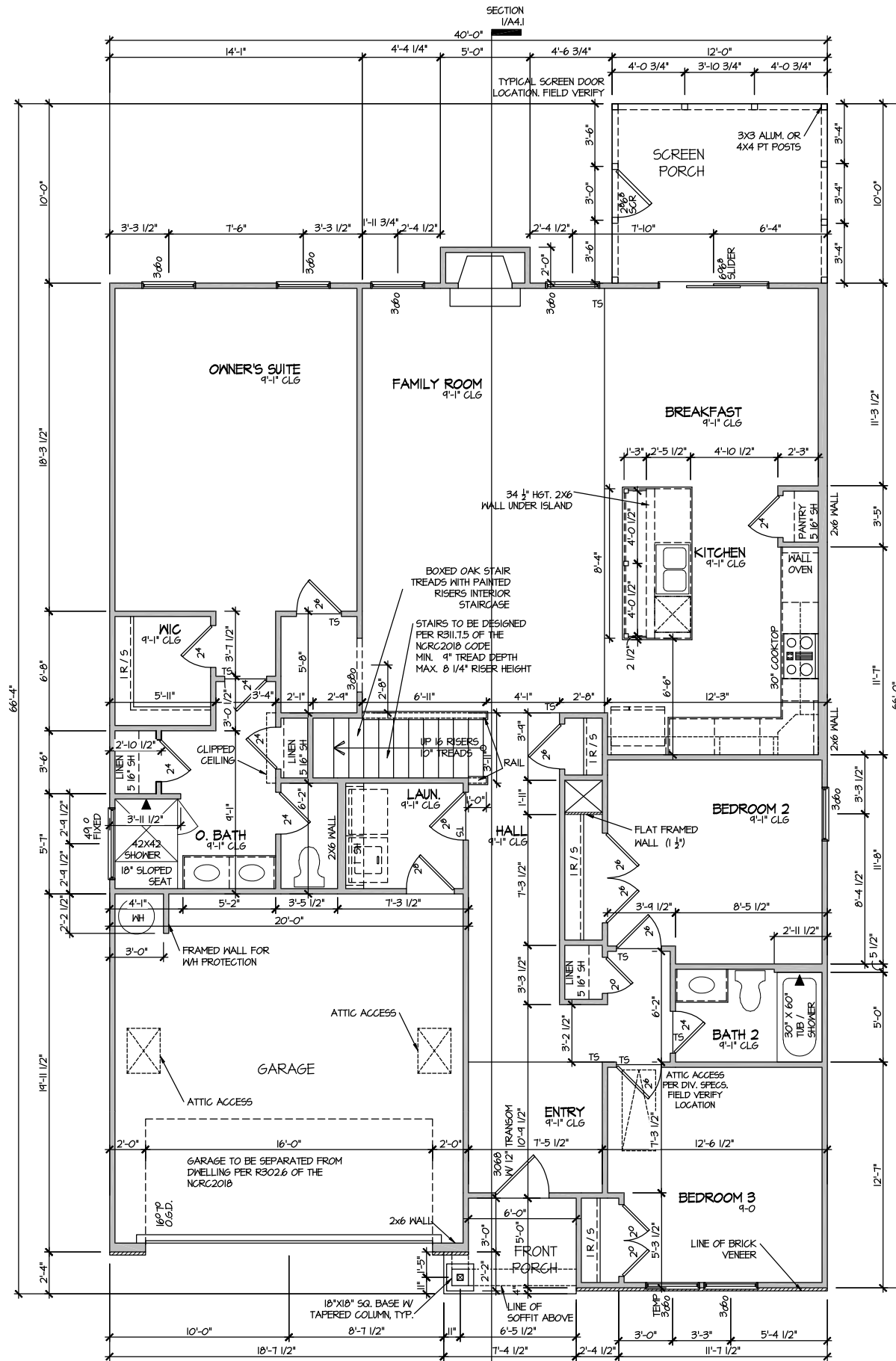
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PLAN NO.	1777



HOUSE NAME:  
**COOPER 3**

DRAWING TITLE  
**CRAWL SPACE PLAN**

SHEET No.  
**A2.1**

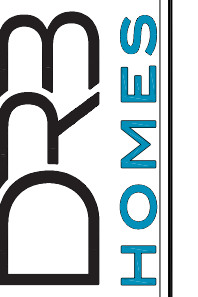


ELEVATION 6  
FIRST FLOOR PLAN

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

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HOUSE NAME:  
**COOPER 3**  
DRAWING TITLE  
**FIRST FLOOR PLAN**

SHEET No.  
**A3.1**



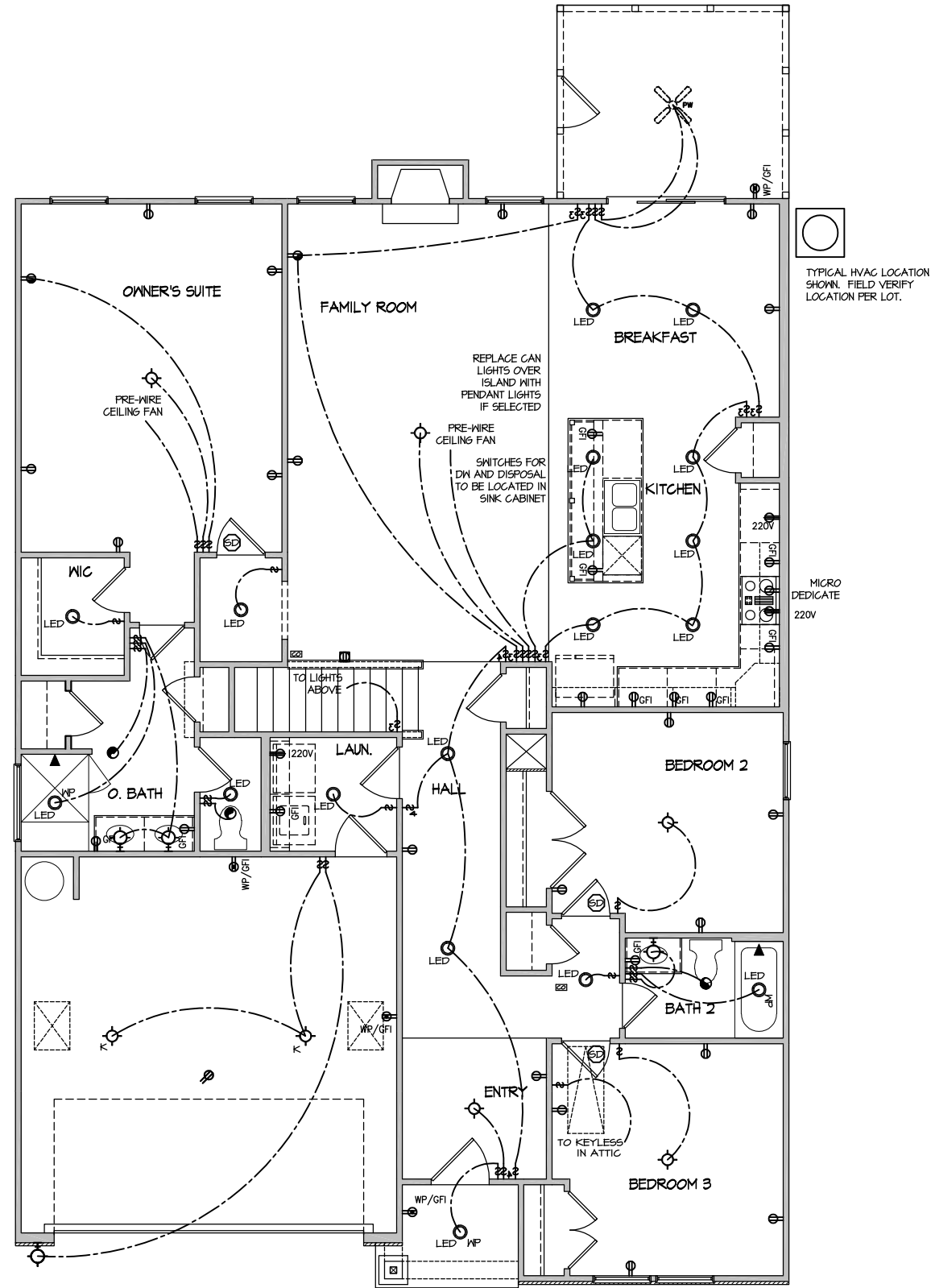




**ELECTRICAL LEGEND**

- ⊕ SINGLE POLE SWITCH
- ⊕<sub>3</sub> THREE WAY SWITCH
- ⊕<sub>4</sub> FOUR WAY SWITCH
- ⊕<sub>2</sub> DUPLEX AFCI RECEPTACLE
- ⊕<sub>2</sub> DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- ⊕<sub>2</sub> DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- ⊕<sub>2</sub> RECEPTACLE - 220V
- ⊕<sub>2</sub> GFI DUPLEX AFCI RECEPTACLE - GFI
- ⊕<sub>2</sub> WP/GFI DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- ⊕<sub>2</sub> SMOKE DETECTOR - WIRED IN SERIES
- ⊕<sub>2</sub> EXHAUST FAN MOTOR
- ⊕<sub>2</sub> CO DETECTOR
- ⊕<sub>2</sub> DOOR CHIME
- ⊕<sub>2</sub> LIGHT FIXTURE - WALL MOUNTED
- ⊕<sub>2</sub> LIGHT FIXTURE - CEILING MOUNTED
- ⊕<sub>2</sub> LIGHT FIXTURE - RECESSED CAN
- ⊕<sub>2</sub> LED LIGHT FIXTURE - LED SURFACE MOUNTED
- ⊕<sub>2</sub> P FULLCHAIN LAMPHOLDER
- ⊕<sub>2</sub> K KEYLESS LAMPHOLDER

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



**ELECTRICAL PLAN**  
**FIRST FLOOR - ELEV. 6**

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

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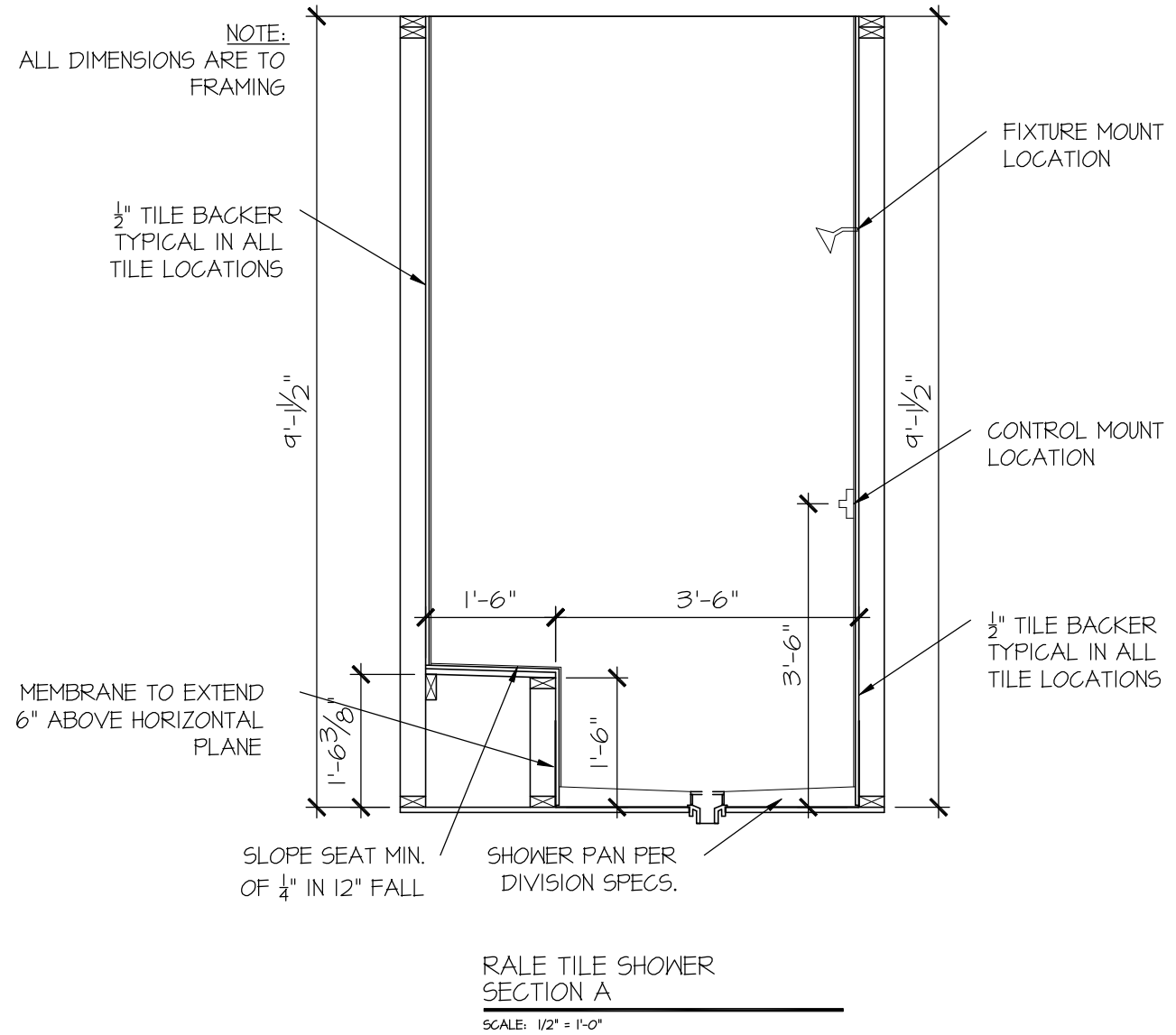
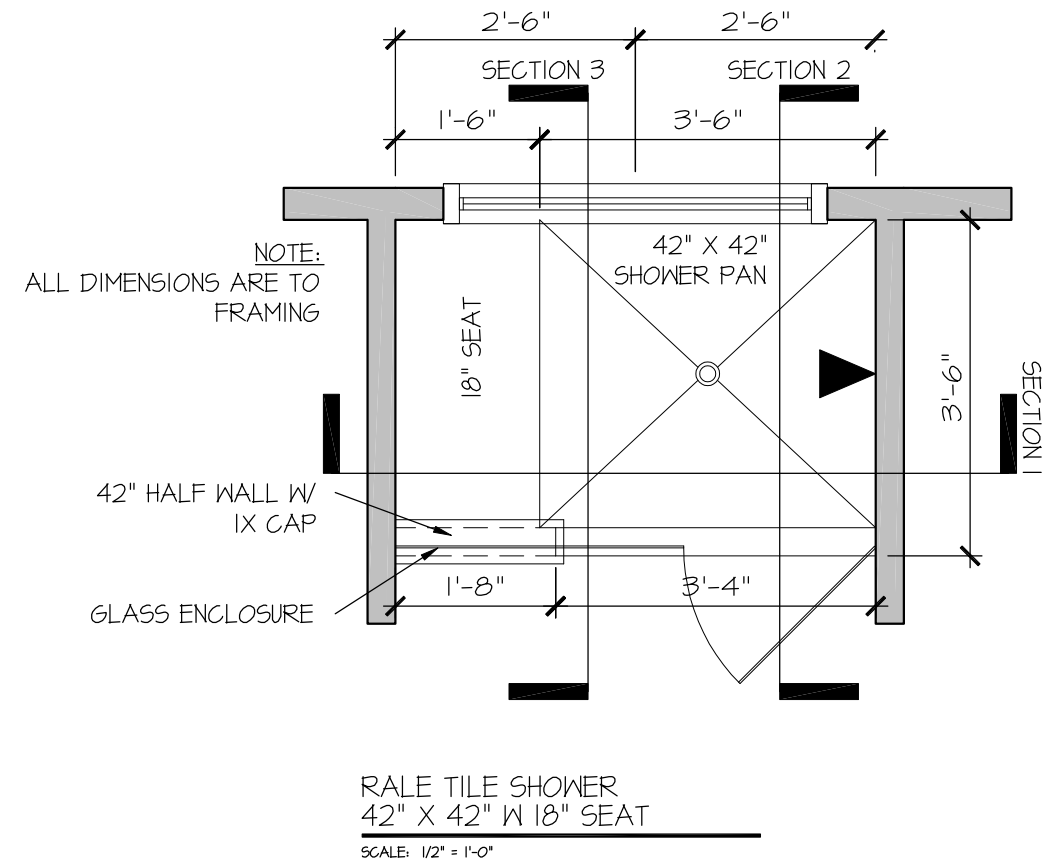


HOUSE NAME:  
**COOPER 3**

DRAWING TITLE  
**FIRST FLOOR ELECTRICAL**

SHEET No.  
**1**



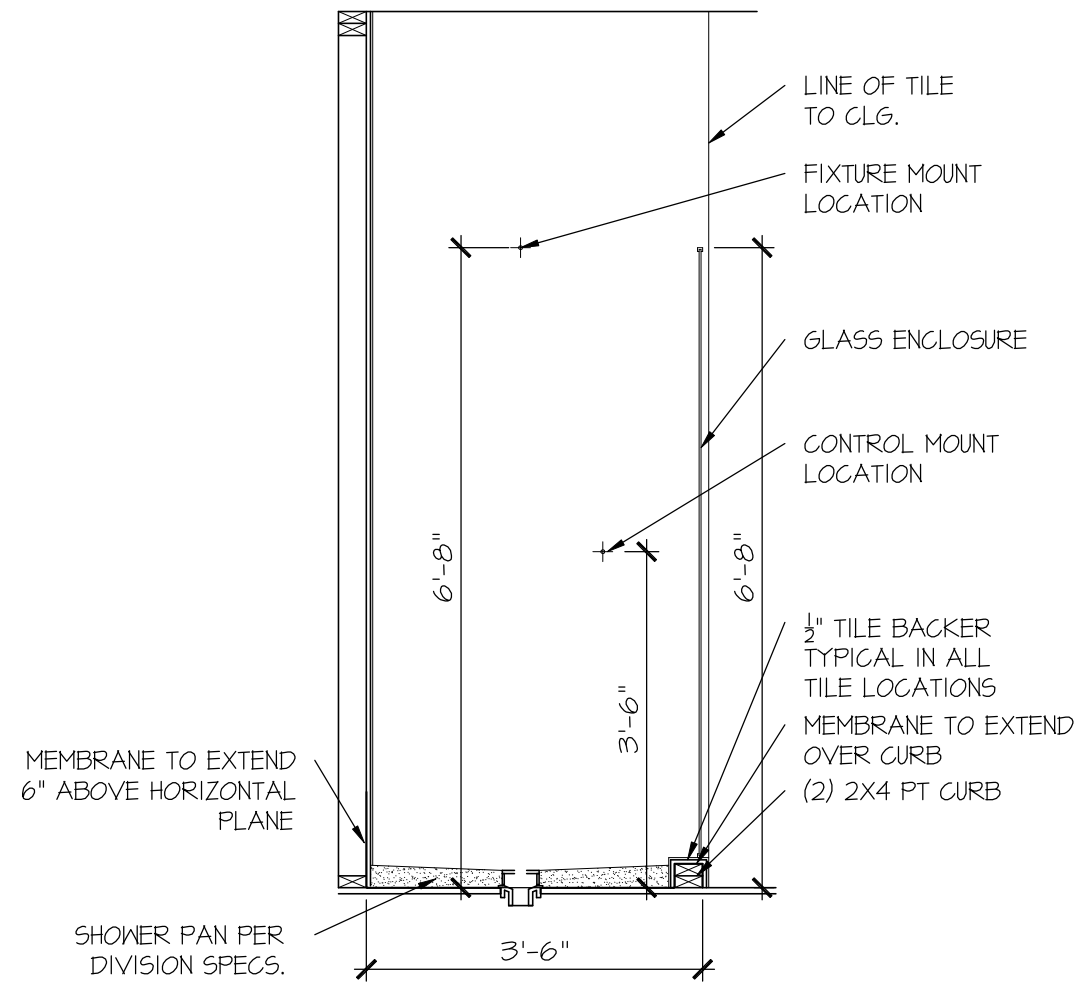


DRAWN BY:  
L. BEAVERS  
DATE: 9/1/22  
PLAN NO.  
11 X 17 SCALE  
24 X 36 SCALE

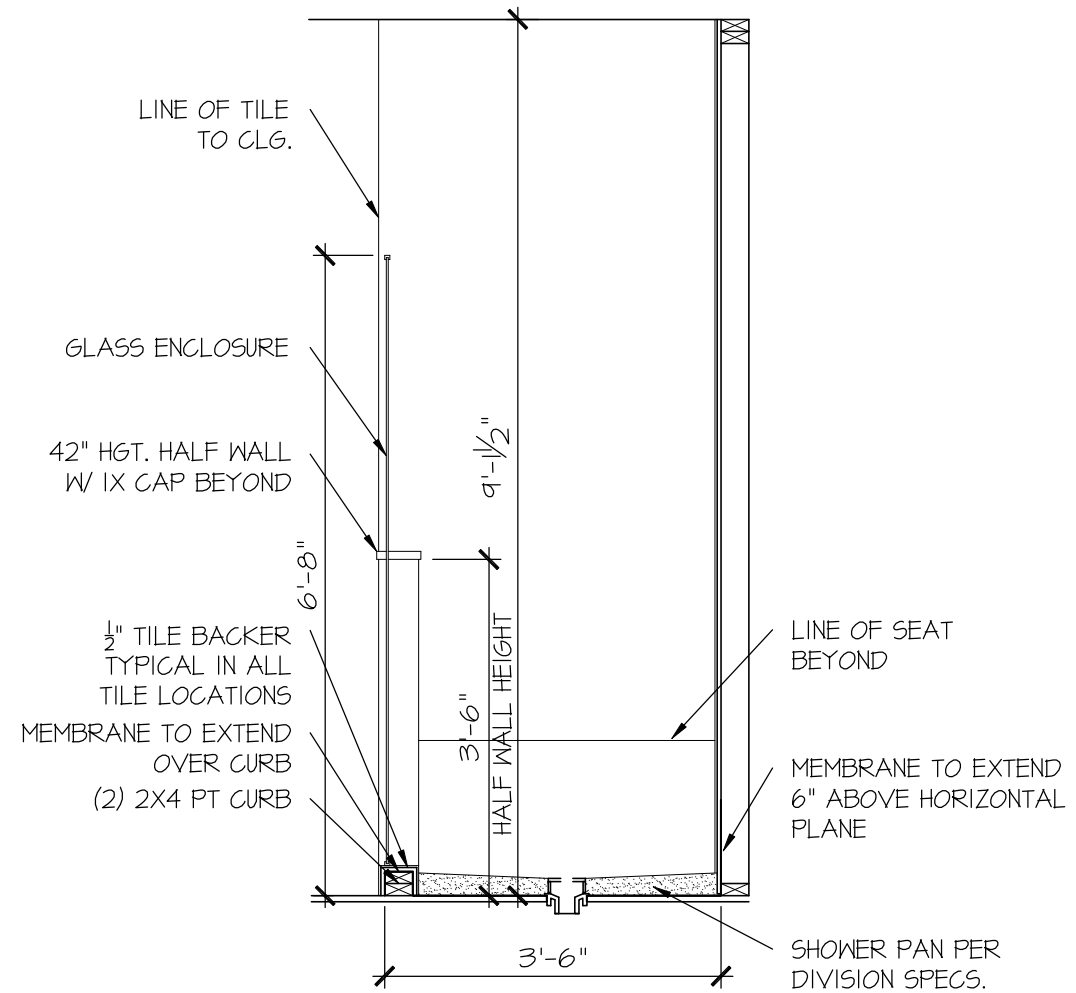


HOUSE NAME:  
DRAWING TITLE  
RALE TILE SHOWER DETAIL

SHEET No.  
01.12



RALE TILE SHOWER  
SECTION B  
SCALE: 1/2" = 1'-0"



RALE TILE SHOWER  
SECTION C  
SCALE: 1/2" = 1'-0"

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

Table with 3 columns: DESCRIPTION OF BLDG. ELEMENT, 3"x0.131" NAILS, 3"x0.120" NAILS. Rows include JOIST TO SOLE PLATE, SOLE PLATE TO JOIST/BLK'G, STUD TO SOLE PLATE, etc.

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: ROOF DEAD = 7 PSF T.C., 10 PSF B.C. LIVE = 16 PSF LOAD DURATION FACTOR = 1.25
FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) 10 PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L 10 PSF @ TILE)
LATERAL 120 MPH, EXPOSURE B. SEISMIC A/B.
SOIL 2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

FLOOR FRAMING

- 1-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT MKR FOR MARBLE FLOOR DESIGNS)
AT 1-JOIST FLOORS, PROVIDE 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 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND - 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.
- 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD.
- 2 3/8" x 0.119" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.
- 1/6" 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 EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H25T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H25T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H25T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.

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 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 CONNECTIONS, TYP. U.N.O.
EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SFF OR 5/8" 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 (SPY) 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).
ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
• LSL - Fb=2325 psi; Fv=310 psi; E=1.55x10^6 psi
• LVL - Fb=2600 psi; Fv=285 psi; E=2.0x10^6 psi
• PSL - Fb=2400 psi; Fv=240 psi; E=2.0x10^6 psi
MK 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 MK FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.
FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLYS TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/8" SIMPSON SDS SCREWS (OR 3/8" 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 3/4" OR 5/4" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8 MEMBERS.
FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLYS 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 1" 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"x0.131" 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 (MILT'I' 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.

HOLD-DOWN SCHEDULE

Table with 2 columns: SYMBOL, SPECIFICATION. Rows include HD-1 SIMPSON HT4 HOLD-DOWN, HD-2 SIMPSON MSTC66 STRAP TIE, HD-3 SIMPSON STDH14/14R HOLD-DOWN.

ALTERNATIVE TO S5TB24 ANCHOR BOLT SPECIFICATION:
\* UTILIZE SIMPSON '9ET' EPOXY SYSTEM TO FASTEN 3/4" DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN 1/4" OF EDGE OF FOUNDATION.

VENEER LINTEL SCHEDULE

Table with 3 columns: SPAN (MAX), HEIGHT OF VENEER ABOVE LINTEL, STEEL ANGLE SIZE. Rows include 3'-0", 6'-0", 8'-0", 9'-6", 16'-0" spans.

ALL LINTELS:
- SHALL SUPPORT 2 3/4" - 3 1/2" VENEER W/ 40 psf MAXIMUM WEIGHT.
- 1/2" SHALL HAVE 4" MIN BEARING
- 1/2" SHALL HAVE 8" MIN BEARING
- 1/2" SHALL NOT BE FASTENED BACK TO HEADER.
- 1/2" SHALL BE FASTENED BACK TO WOOD HEADER IN WALL @ 48" O.C. W/ 1/2" DIA. x 3 1/2" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.
- MAX VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
- ALL LINTELS SHALL BE LONG LEG VERTICAL.
- WHEN SUPPORTING VENEER @ 3" NIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3/4" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT FINISHING.
- SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS.
- FOR GREEN VENEER USE L4x3/4".
- FOR 3/2" VENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER @ 3/2" THICK.

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
120 MPH WIND IN 2018 NCSEB: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 1604) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NCSEB:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREIN, 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 NCSEB:RC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.11.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:
FASTEN SHEATHING W/ 2 3/8"x0.119" 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 NOT 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 1/2" 16 GA STAPLES (1/8" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

BLOCKED PANEL EDGES

- AT DESIGNATED AREAS - FASTEN SHEATHING W/ 2 3/8" x 0.119" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 3/4" 16 GA STAPLES (1/8" 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 STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

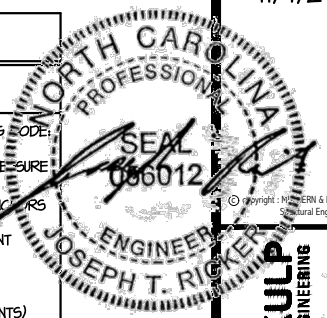
INDICATES EXTENT OF INT. OSB SHEARWALL OR 3" O.C. OSB SHEARWALL
INDICATES HOLD-DOWN BELOW

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., 1" 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 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. SFF OR 5/8" STUD GRADE OR BETTER.
CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
fc = 4,000 psi: FOUNDATION WALLS
2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE
3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE
fy = 60,000 psi
BASEMENT FOUNDATION WALL DESIGN BASED ON:
• 9' OR 10' HEIGHT (AS NOTED ON PLANS)
- TALLER WALLS MUST BE ENGINEERED.
• NOMINAL WIDTH (1 1/2" FOR 10' THICK WALL).
BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC, ML-CI, 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.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 15% 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 (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
• CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS
CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 @ 530J.
CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (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.

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS



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300 Danville Ave., Building 4 - Aachen, PA 15022
P: 724-998-0000 • mulhern+kulp.com
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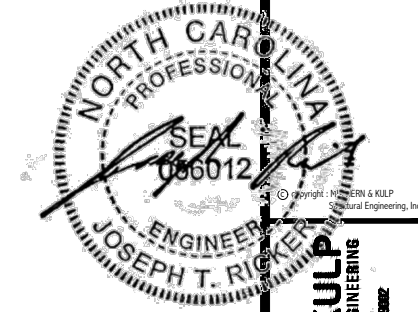
M&K project number: 126-24045
project mgr: JTR
drawn by: KJN
issue date: 11-07-24

REVISIONS:
date: initial:

DRB HOMES

GENERAL NOTES
CAMPBELL RIDGE
LOT 14 - COOPER 3 - 6
RALEIGH, NC

sheet: S0.0



**MULHERN+KULP**  
RESIDENTIAL STRUCTURAL ENGINEERING  
300 Duneside Ave., Building 4 - Asheville, PA 15822  
P: 715-698-8081 • mulhern+kulp.com  
NC LICENSE #C-3825

M&K project number:  
126-24045  
project mgr: JTR  
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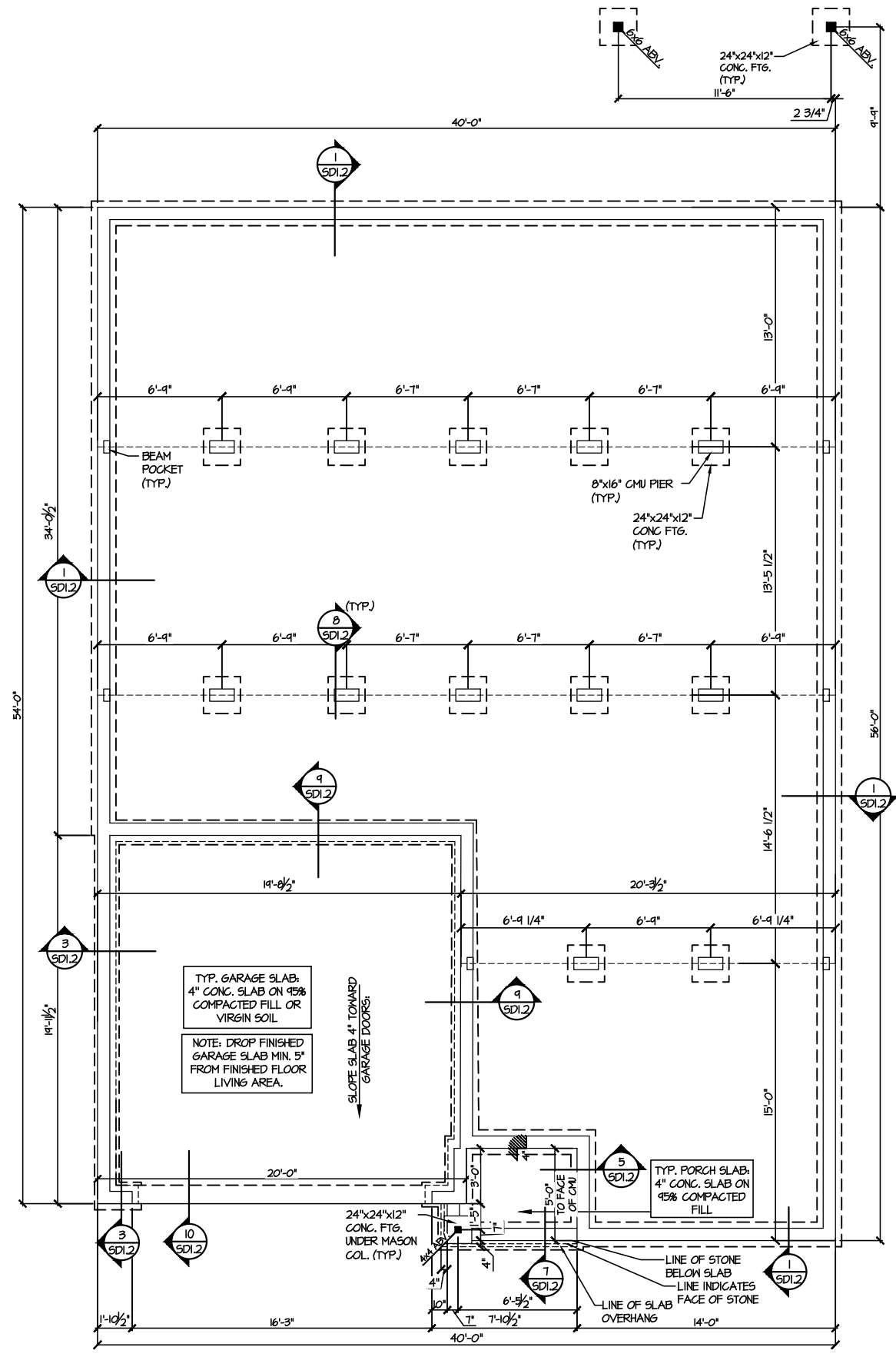
REVISIONS:

date:	initial:



FOUNDATION PLANS  
CAMPBELL RIDGE  
LOT 14 - COOPER 3 - 6  
RALEIGH, NC

sheet:  
**S1.0**



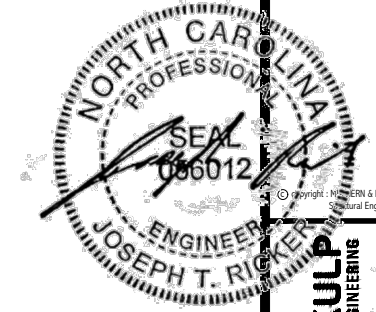
**1 CRAWLSPACE FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"

HOLD-DOWN SCHEDULE	
SYMBOL	SPECIFICATION
▶ HD-1	SIMPSON HTT4 HOLD-DOWN * SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UNQ.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
▶ HD-2	SIMPSON 5THD14/14RJ HOLD-DOWN

ALTERNATIVE TO 55TB24 ANCHOR BOLT SPECIFICATION:  
\* UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN 3/8" DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN 1 3/4" OF EDGE OF FOUNDATION.

LEGEND	
• (dashed line)	INTERIOR BEARING WALL
• (dotted line)	BEARING WALL ABOVE
• (solid line)	BEAM / HEADER
• (dash-dot line)	INDICATES SHEAR WALL & EXTENT
• (stippled area)	EXTENT OF OVERFRAMING
• (circle with cross)	1L METAL HANGER
• (circle with dot)	INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
▶	INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES



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NC LICENSE #C-3825

M&K project number:  
126-24045  
project mgr: JTR  
drawn by: KJN  
issue date: 11-07-24

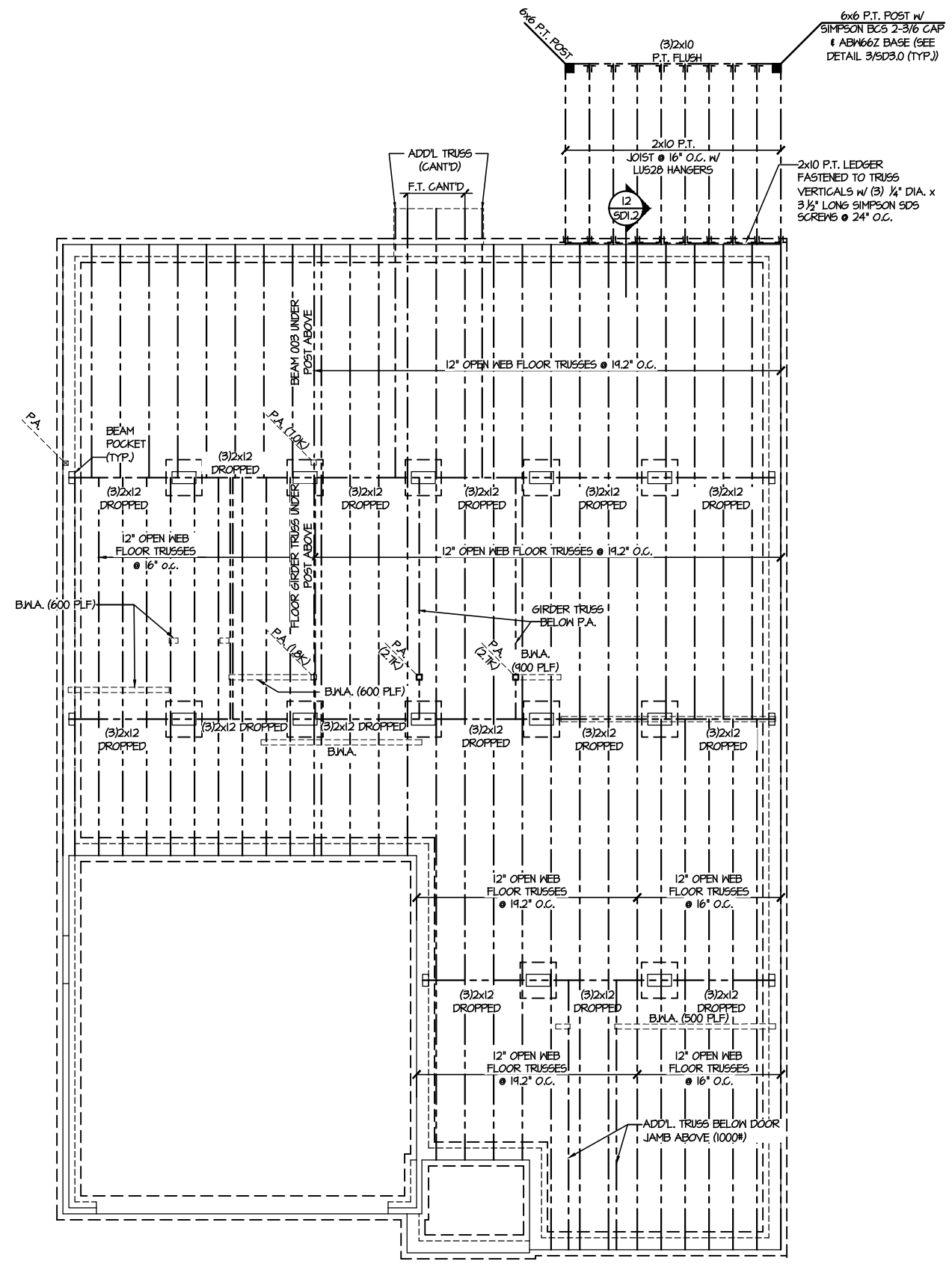
REVISIONS:

date:	initial:



FLOOR FRAMING PLANS  
CAMPBELL RIDGE  
LOT 14 - COOPER 3 - 6  
RALEIGH, NC

sheet:  
**S2.0**



**LEGEND**

- [Symbol] INTERIOR BEARING WALL
- [Symbol] BEARING WALL ABOVE
- [Symbol] BEAM / HEADER
- [Symbol] INDICATES SHEAR WALL & EXTENT
- [Symbol] EXTENT OF OVERFRAMING
- [Symbol] 1L METAL HANGER
- [Symbol] INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- [Symbol] INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

**REFER TO 50.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES**

**ENGINEERED BEAM MATERIAL SCHEDULE**

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x11/8" - F	3/2"x11/8" - F	(3)3/4"x11/8" - F	(2)2x12 + (1) 3/4"x11/8" STEEL FLITCH PLATES - F	M2x14 - F
002	(3)3/4"x11/8" - F	3/2"x11/8" - F	(4)3/4"x11/8" - F	(2)2x12 + (1) 3/4"x11/8" STEEL FLITCH PLATES - F	M2x14 - F
003	(2)3/4"x11/8" - F	3/2"x11/8" - F	(3)3/4"x11/8" - F	(2)2x12 + (1) 3/4"x11/8" STEEL FLITCH PLATES - F	M2x14 - F
004	(2)3/4"x11 1/4" - D	3/2"x11 1/4" - D	(2)3/4"x11/8" - D	(2)2x10 + (1) 3/4"x11/8" STEEL FLITCH PLATES - D	M8x10 - D

**BEAM NOTATION:**

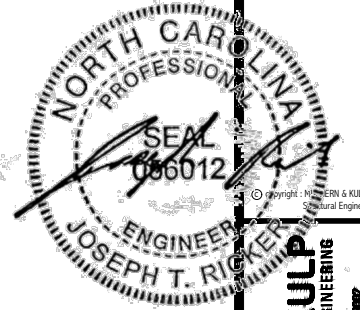
- "F" INDICATES FLUSH BEAM
- "FT" INDICATES FLUSH TOP BEAM
- "FB" INDICATES FLUSH BOTTOM BEAM
- "D" INDICATES DROPPED BEAM
- "H" INDICATES DROPPED OPENING HEADER

• REFER TO DETAIL D/S22.0 FOR TYPICAL FLITCH BEAM CONNECTIONS  
 • REFER TO DETAIL E/S22.0 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"x0.120" 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.

**1st FLOOR FRAMING PLAN**  
SCALE: 1/8"=1'-0"







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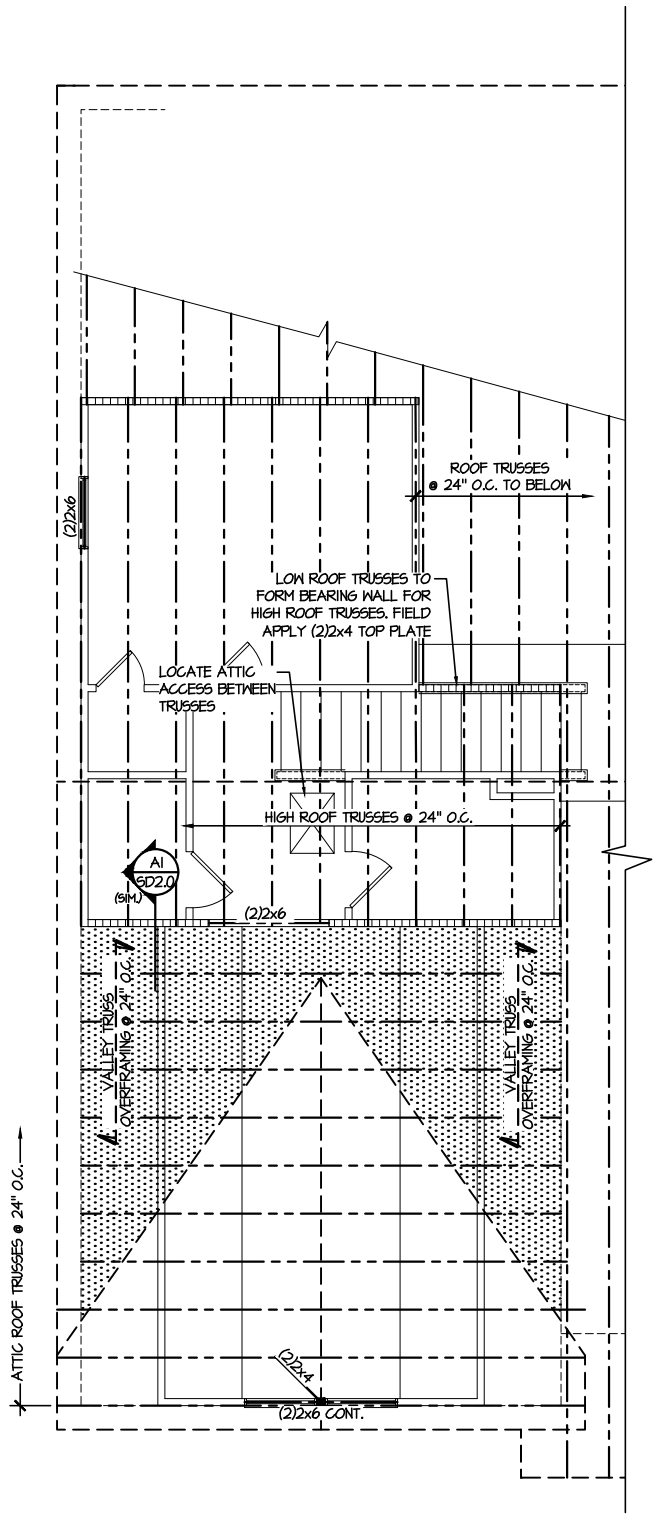
M&K project number:  
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 project mgr: JTR  
 drawn by: KJN  
 issue date: 11-07-24

REVISIONS:  
 date: initial:



ROOF FRAMING PLANS  
 CAMPBELL RIDGE  
 LOT 14 - COOPER 3 - 6  
 RALEIGH, NC

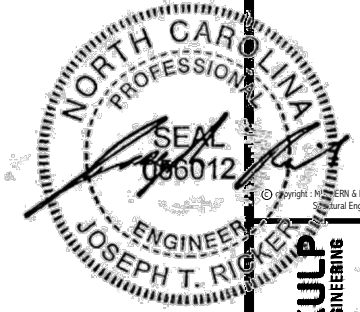
sheet:  
**S4.0**



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

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 S0.0 FOR  
 TYPICAL STRUCTURAL NOTES  
 & SCHEDULES



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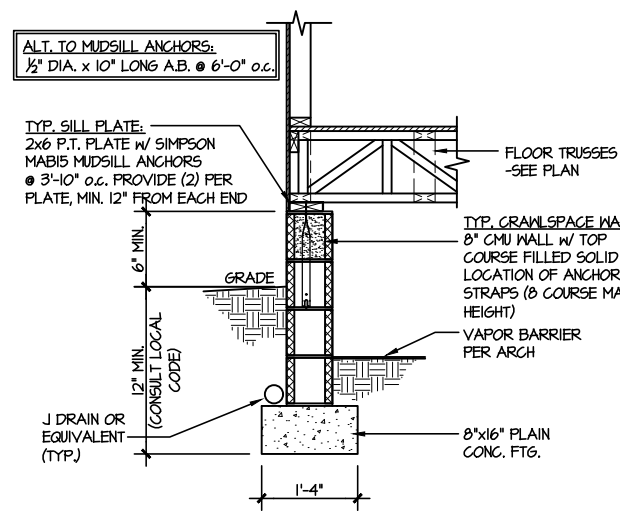
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drawn by: KJN  
issue date: 11-07-24

REVISIONS:  
date: initial:

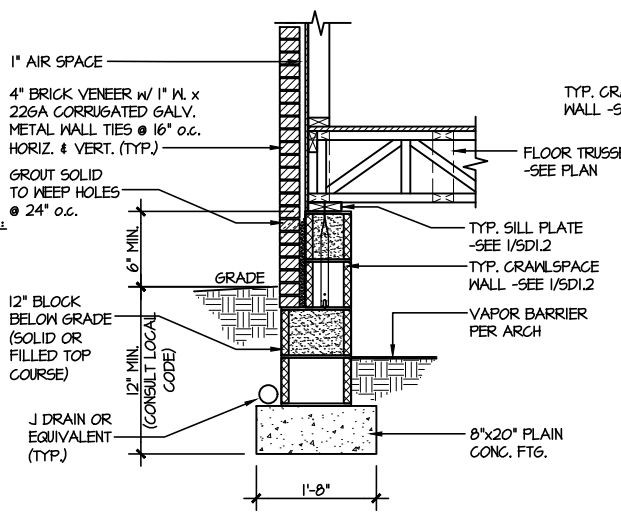


FOUNDATION DETAILS  
CAMPBELL RIDGE  
LOT 14 - COOPER 3 - 6  
RALEIGH, NC

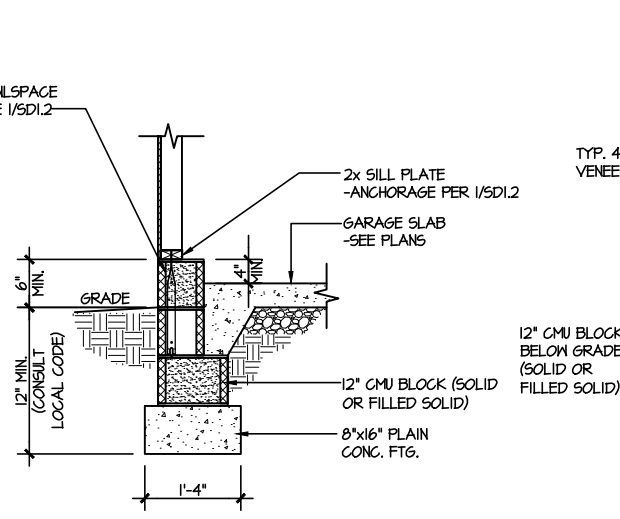
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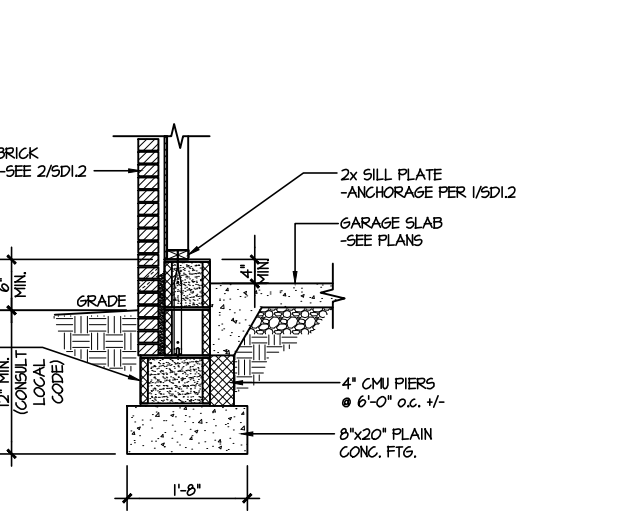
1 TYPICAL CRAWLSPACE FOUNDATION  
SCALE: 3/8\"/>



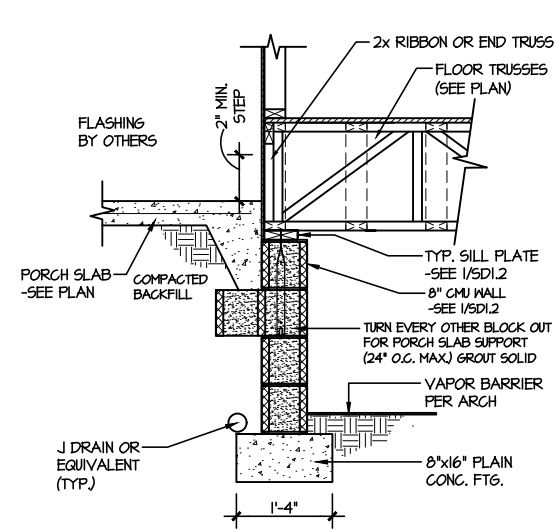
2 TYPICAL CRAWLSPACE FOUNDATION  
SCALE: 3/8\"/>



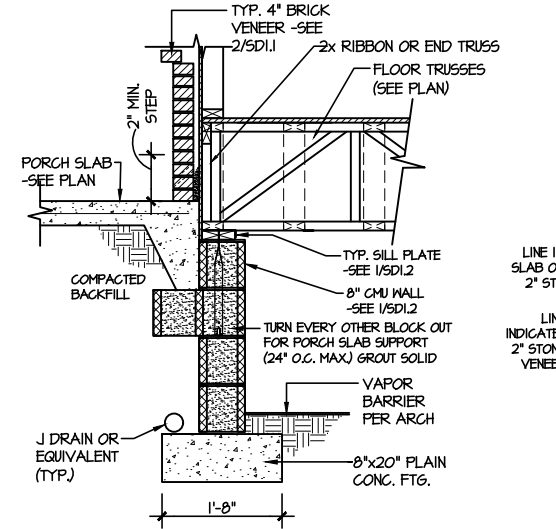
3 TYPICAL GARAGE FOUNDATION  
SCALE: 3/8\"/>



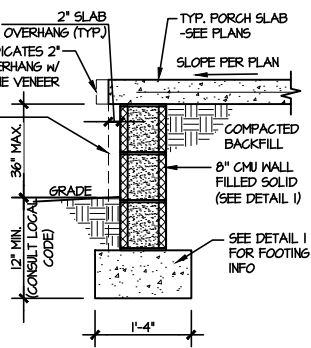
4 TYPICAL GARAGE FOUNDATION  
SCALE: 3/8\"/>



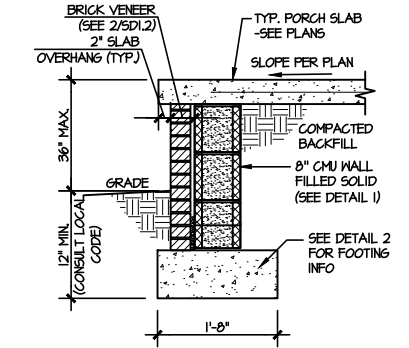
5 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB  
SCALE: 3/8\"/>



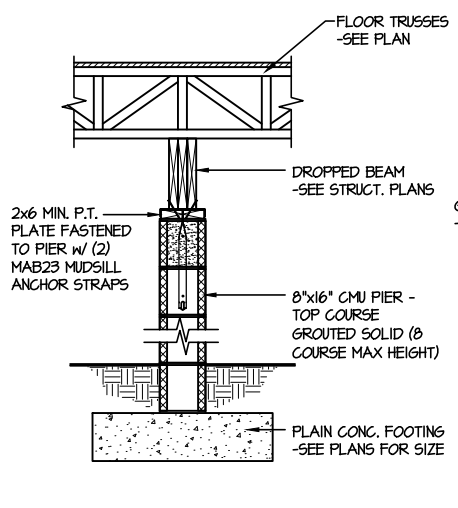
6 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB  
SCALE: 3/8\"/>



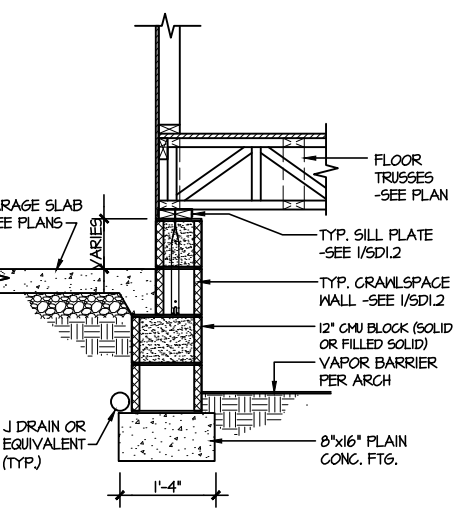
7A TYP. FOOTING @ PORCH SLAB  
SCALE: 3/8\"/>



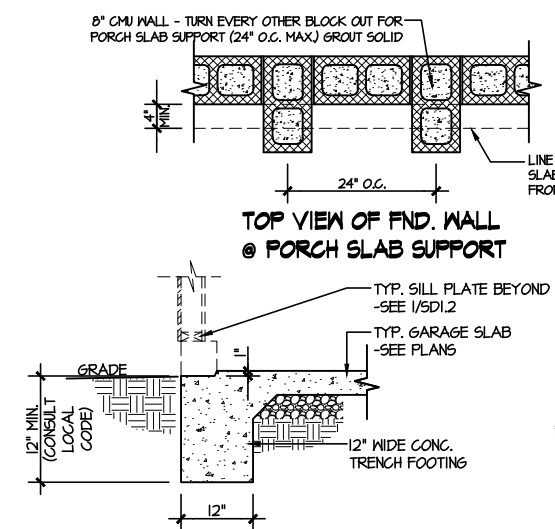
7B TYP. FOOTING @ PORCH SLAB  
SCALE: 3/8\"/>



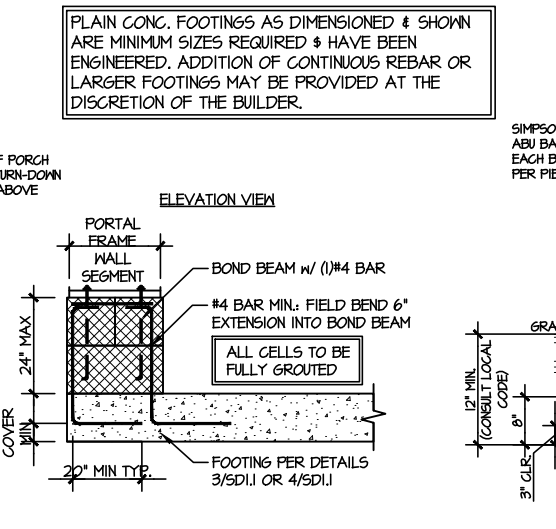
8 TYPICAL CRAWLSPACE FND. @ INTERIOR PIER  
SCALE: 3/8\"/>



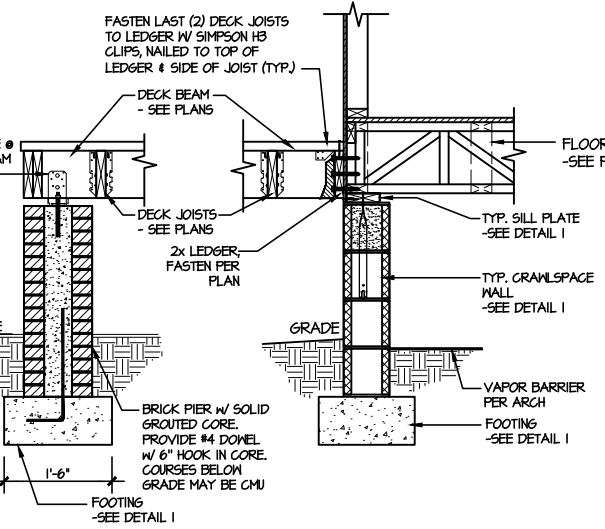
9 TYPICAL CRAWLSPACE FOUNDATION @ GARAGE  
SCALE: 3/8\"/>



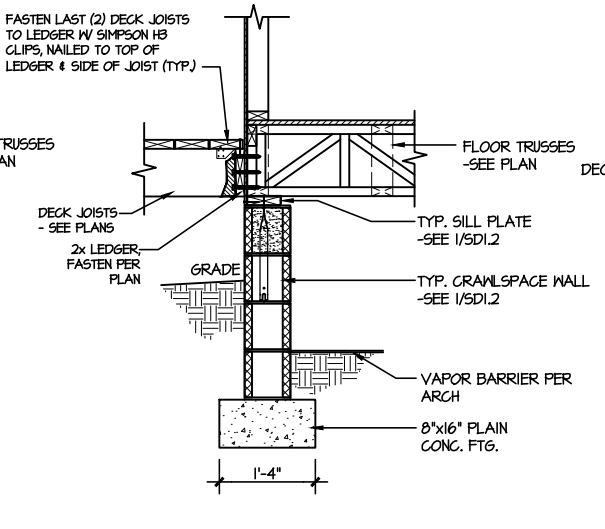
10 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING  
SCALE: 3/8\"/>



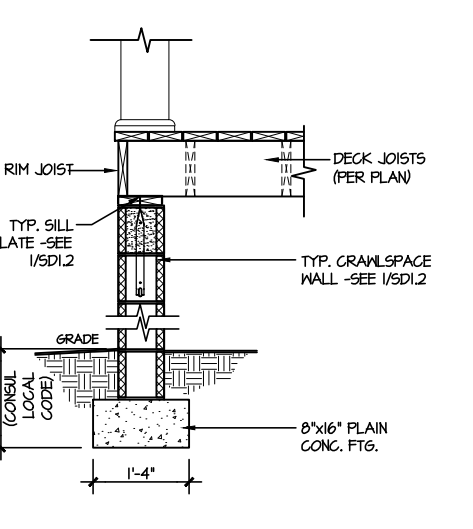
A GARAGE PORTAL FRAME STEM WALL REINFORCEMENT  
SCALE: 3/8\"/>



11 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK w/ PIERS  
SCALE: 3/8\"/>

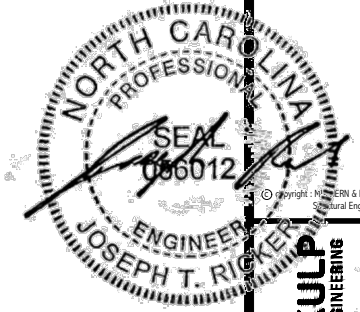


12 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK  
SCALE: 3/8\"/>



13 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK PERIMETER  
SCALE: 3/8\"/>

FILE: RLH - Campbell Ridge - Lot 14 - Structural DATE: 11/7/2024 10:51 AM



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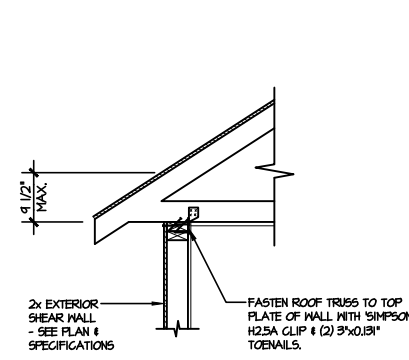
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126-24045  
project mgr: JTR  
drawn by: KJN  
issue date: 11-07-24

REVISIONS:  
date: initial:

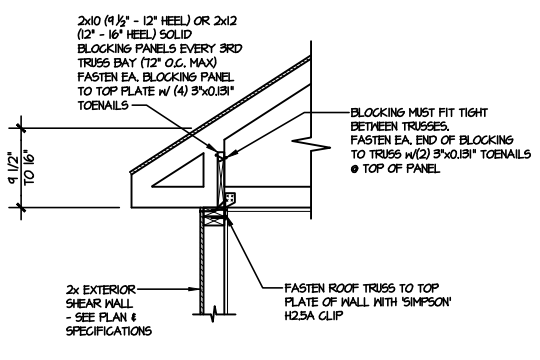
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HOMES

FRAMING DETAILS  
CAMPBELL RIDGE  
LOT 14 - COOPER 3 - 6  
RALEIGH, NC

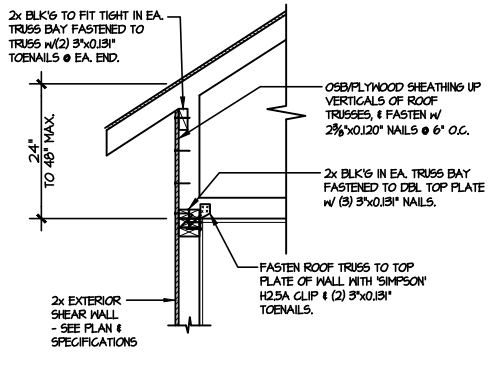
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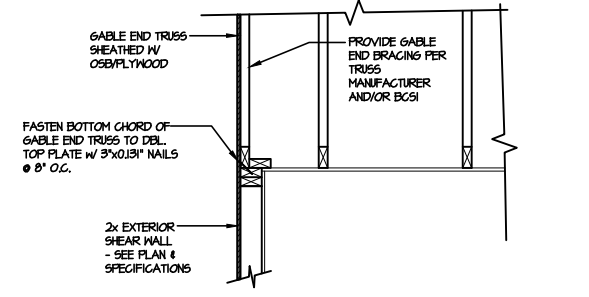
**(A1) TYPICAL SHEAR TRANSFER DETAIL @ ROOF**  
SCALE: 3/8"=1'-0"  
HEEL HEIGHT LESS THAN 4 1/2"  
NO BLOCKING REQ'D



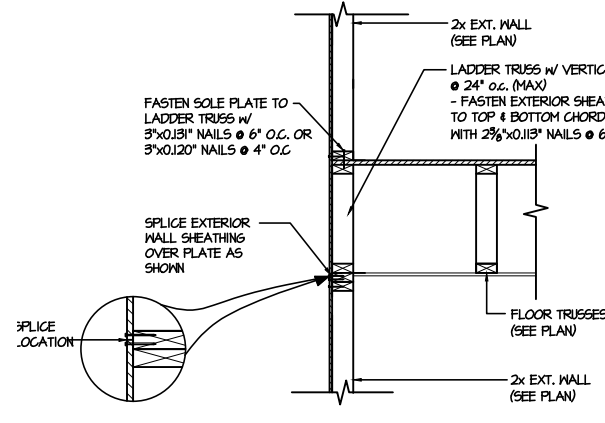
**(A2) TYPICAL SHEAR TRANSFER DETAIL @ ROOF**  
SCALE: 3/8"=1'-0"  
HEEL HEIGHT BETWEEN 4 1/2" - 16"  
BLOCKING REQ'D



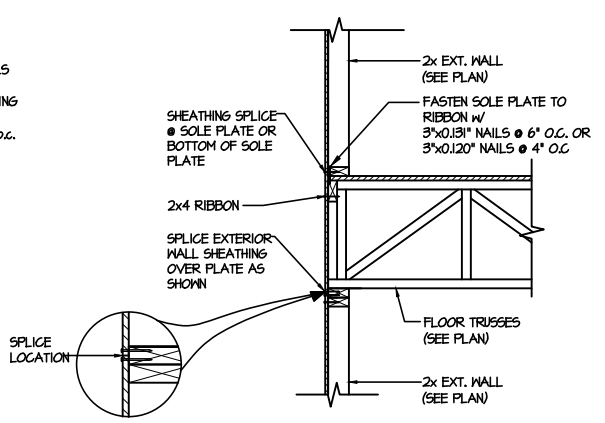
**(A3) TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS**  
SCALE: 3/8"=1'-0"  
HEEL HEIGHT UP TO 48" MAX.



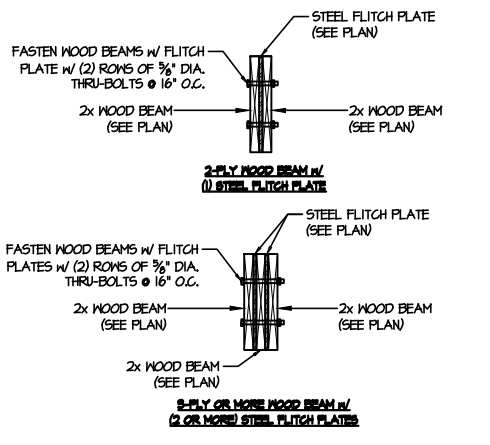
**(B) TYPICAL GABLE END DETAIL**  
SCALE: 3/8"=1'-0"



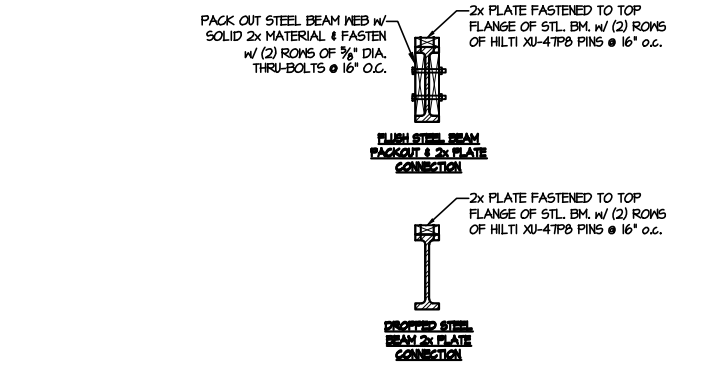
**(C1) TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL**  
SCALE: 3/8"=1'-0"  
PARALLEL FRMS



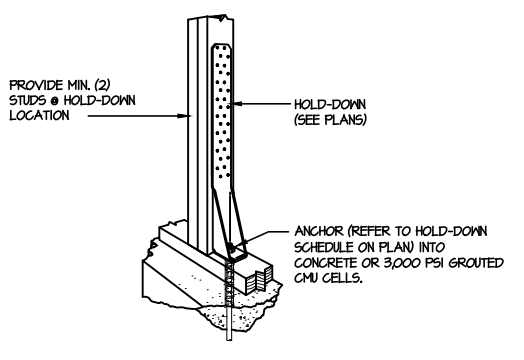
**(C2) TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL**  
SCALE: 3/8"=1'-0"  
PERPENDICULAR FRMS



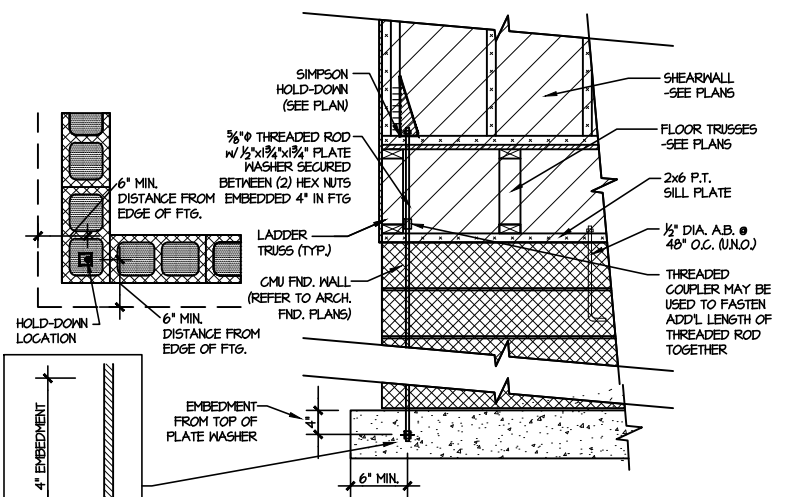
**(D) TYPICAL FLITCH BEAM CONNECTION DETAIL**  
SCALE: 3/4"=1'-0"



**(E) TYPICAL STEEL BEAM CONNECTION DETAIL**  
SCALE: 3/4"=1'-0"



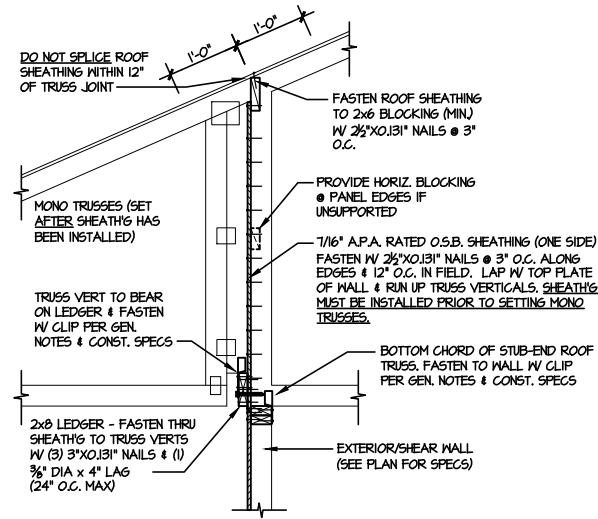
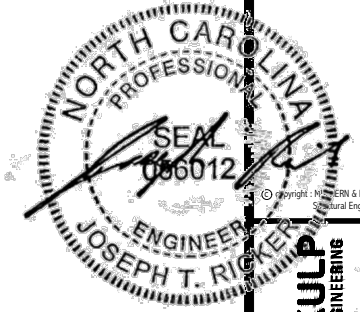
**(F1) TYPICAL HOLD DOWN INSTALLATION**  
SCALE: N.T.S.



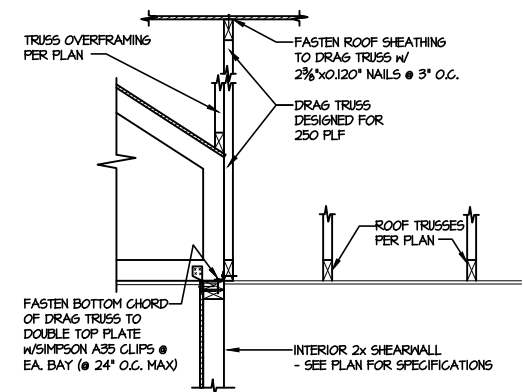
**(F2) TYPICAL CMU FOUNDATION HOLD-DOWN INSTALLATION**  
SCALE: N.T.S.  
(CORNER SHOWN - APPLICABLE TO ALL CONDITIONS)

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.



**1** SHEAR TRANSFER DETAIL @  
BREAK IN TRUSSES OVER SHEAR WALL  
SCALE: 3/4"=1'-0" - 22-84  
8/8"=1'-0" - 1b7



**2** SHEAR TRANSFER DETAIL  
AT INTERIOR SHEARWALL BELOW  
SCALE: 3/4"=1'-0"

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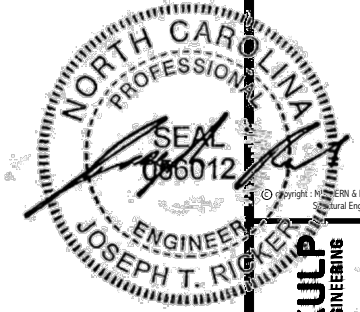
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126-24045  
project mgr: JTR  
drawn by: KJN  
issue date: 11-07-24

REVISIONS:

date:	initial:



FRAMING DETAILS  
CAMPBELL RIDGE  
LOT 14 - COOPER 3 - 6  
RALEIGH, NC



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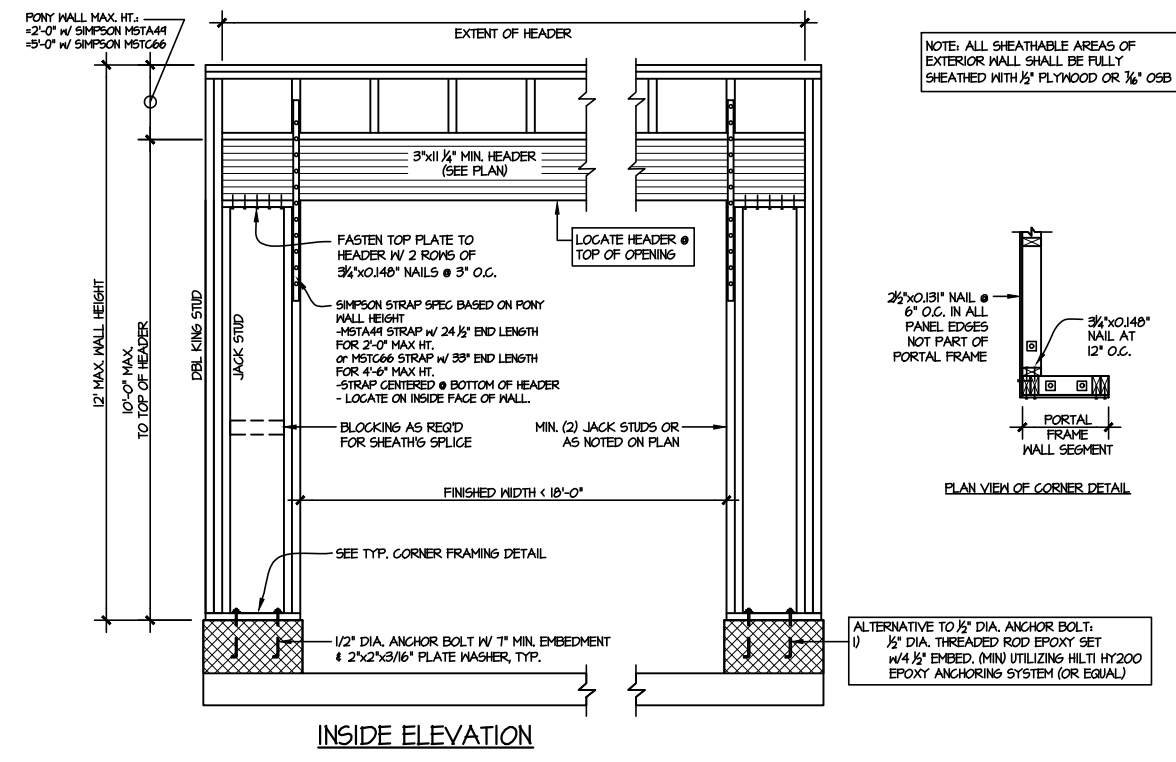
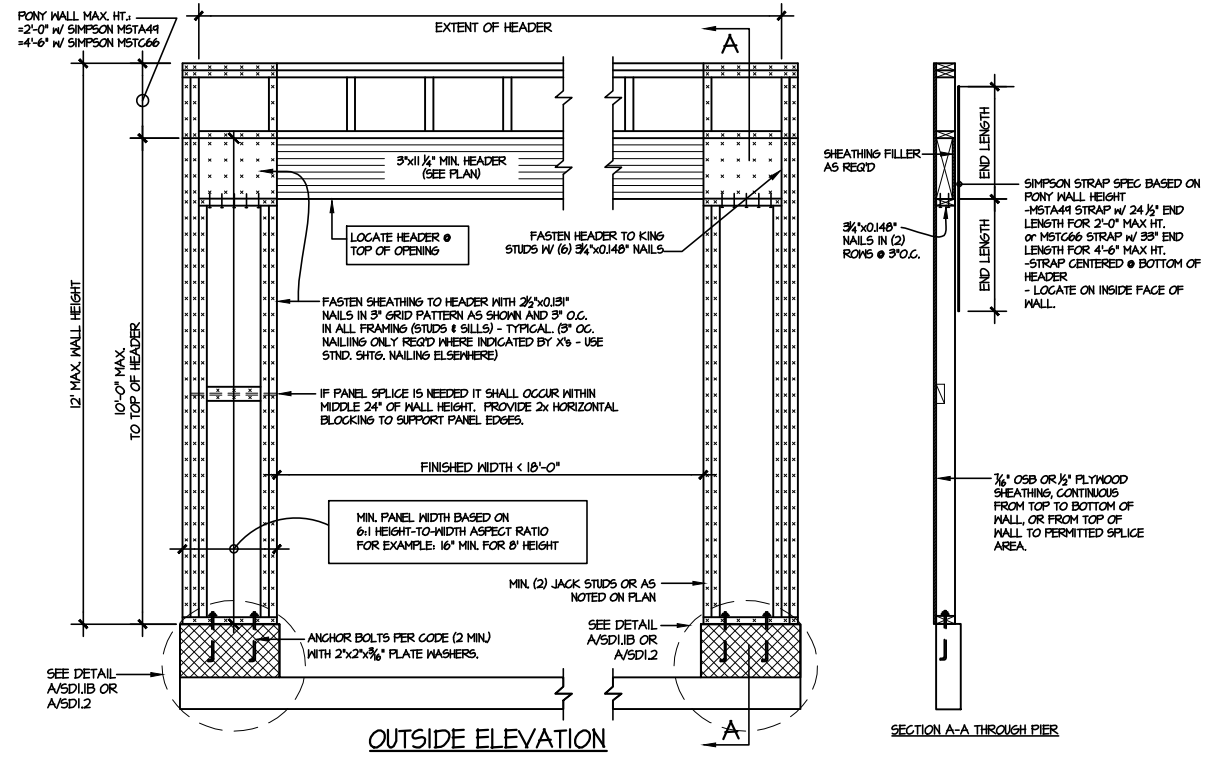


M&K project number:  
**126-24045**  
project mgr: JTR  
drawn by: KJN  
issue date: 11-07-24  
REVISIONS:  
date: initial:

**DRB**  
**HOMES**

FRAMING DETAILS  
CAMPBELL RIDGE  
LOT 14 - COOPER 3 - 6  
RALEIGH, NC

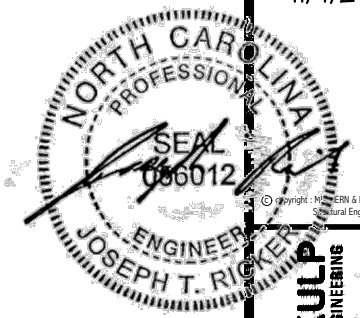
sheet:  
**SD2.2**



NOTE: ALL SHEATHABLE AREAS OF EXTERIOR WALL SHALL BE FULLY SHEATHED WITH 1/2" PLYWOOD OR 1/2" OSB

ALTERNATIVE TO 1/2" DIA. ANCHOR BOLT:  
1) 1/2" DIA. THREADED ROD EPOXY SET W/ 4 1/2" EMBED. (MIN) UTILIZING HILTI HY200 EPOXY ANCHORING SYSTEM (OR EQUAL)

TWO SIDED GARAGE PORTAL FRAME BRACING  
ELEVATION ON CMU STEM  
2 SCALE: N.T.S. SCALE: N.T.S.



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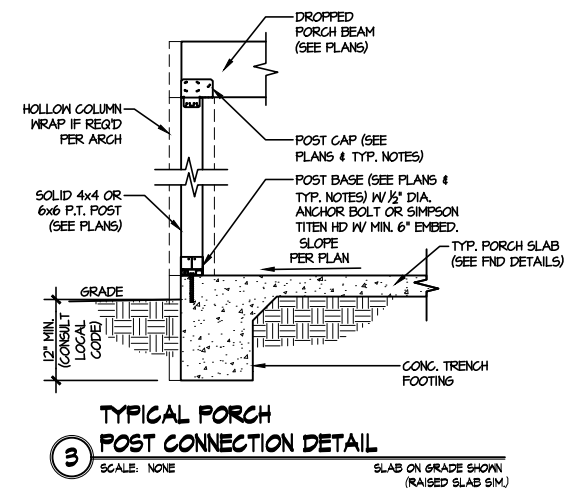
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date:	initial:

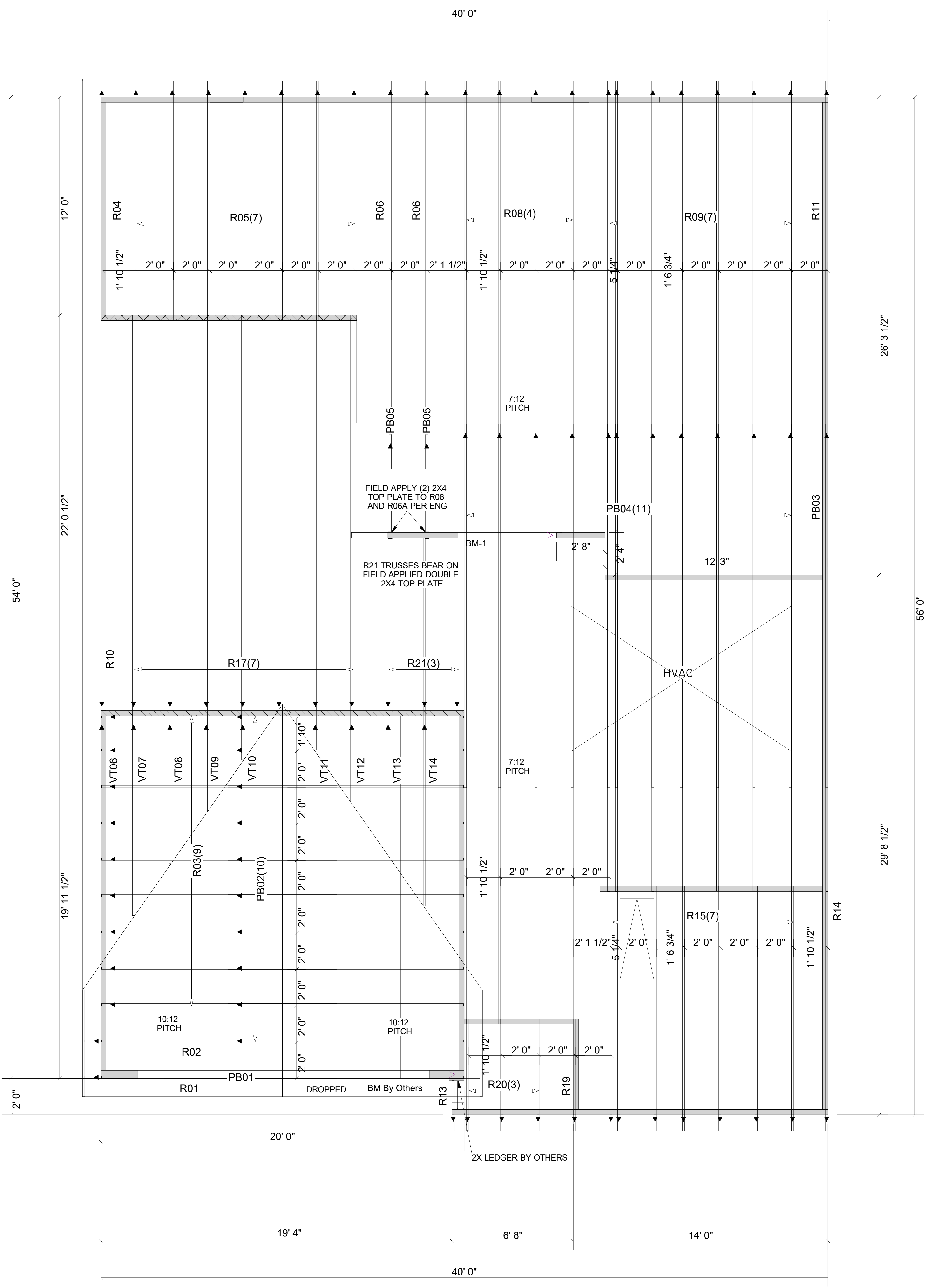


FRAMING DETAILS  
CAMPBELL RIDGE  
LOT 14 - COOPER 3 - 6  
RALEIGH, NC

sheet:  
**SD3.0**



**WARNING!** Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses" (BCS1), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.



Hatch Legend	
2ND FLOOR WALL @ 6'-0"	
2ND FLOOR WALL @ 9'-1 1/2"	

Products				
Net Qty	Plies	Product	Length	PlotID
2	2	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	12' 0"	BM-1

▲ = LEFT END OF TRUSS

**FOR PERMIT**



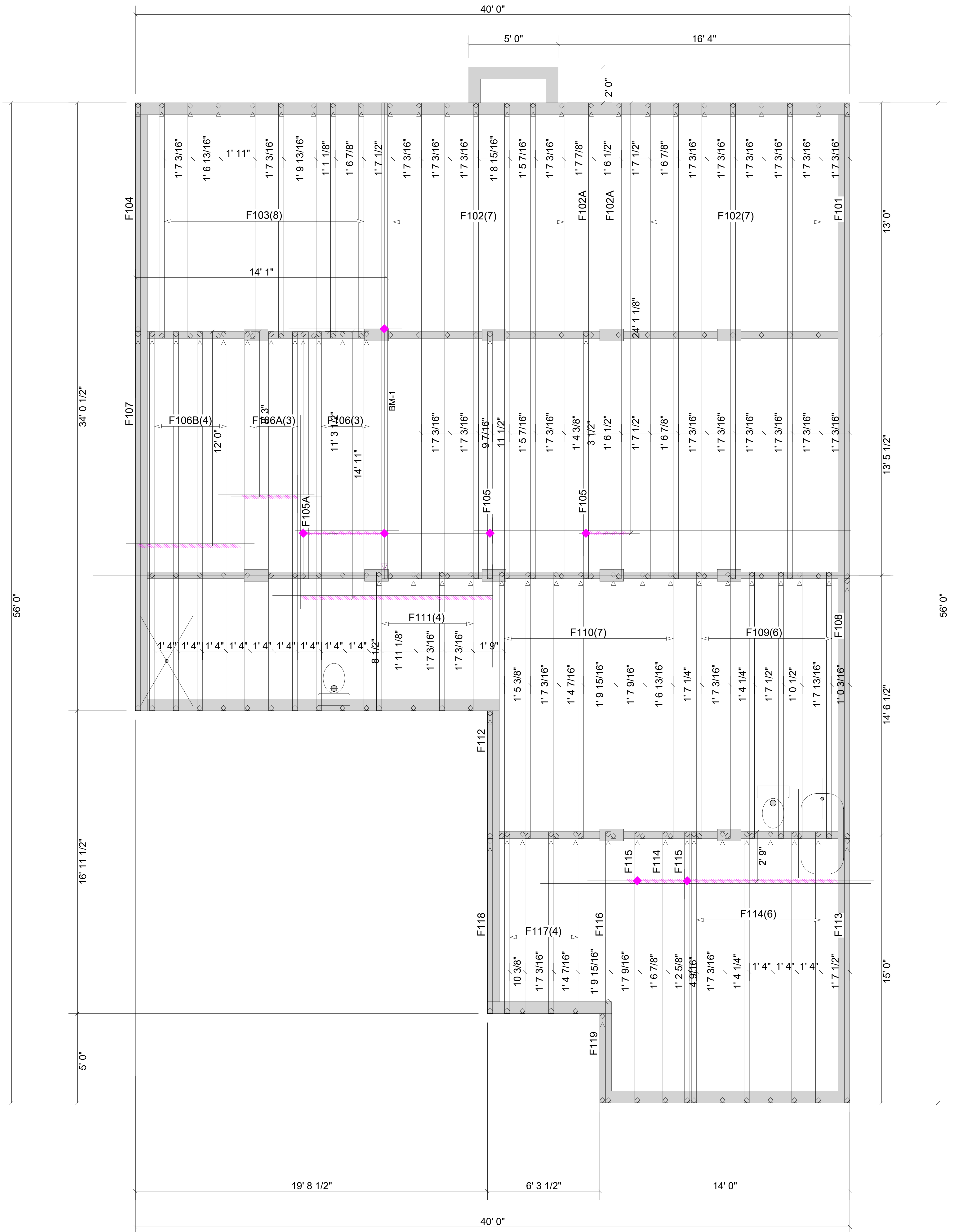
Moncks Corner/Easley, SC (800) 475-3999  
Sparta, NC (336) 372-2226

REVISIONS:

Client:	DRB GROUP-RALEIGH		
Job:	LOT 0.0014 CAMPBELL RIDGE		
Plan Information:	COOPER 3-6		
NOT TO SCALE	Date:	10/30/24	
Drawn By:	CGT	Job #:	24-9563-R01
		Sales Rep:	KYLE GIBSON
		Phone:	

ROOF

**WARNING!** Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCS")", JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.



Products				
Net Qty	Plies	Product	Length	PlotID
2	2	1-3/4" x 11-7/8" VERSA-LAM® LVL 2.1E 3100 SP	28' 0"	BM-1

▲ = LEFT END OF TRUSS

**FOR PERMIT**



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Sparta, NC (336) 372-2226

REVISIONS:

Client: DRB GROUP-RALEIGH  
Job: LOT 0.0014 CAMPBELL RIDGE

Plan Information:  
**COOPER 3-6**

NOT TO SCALE

Date: 10/30/24

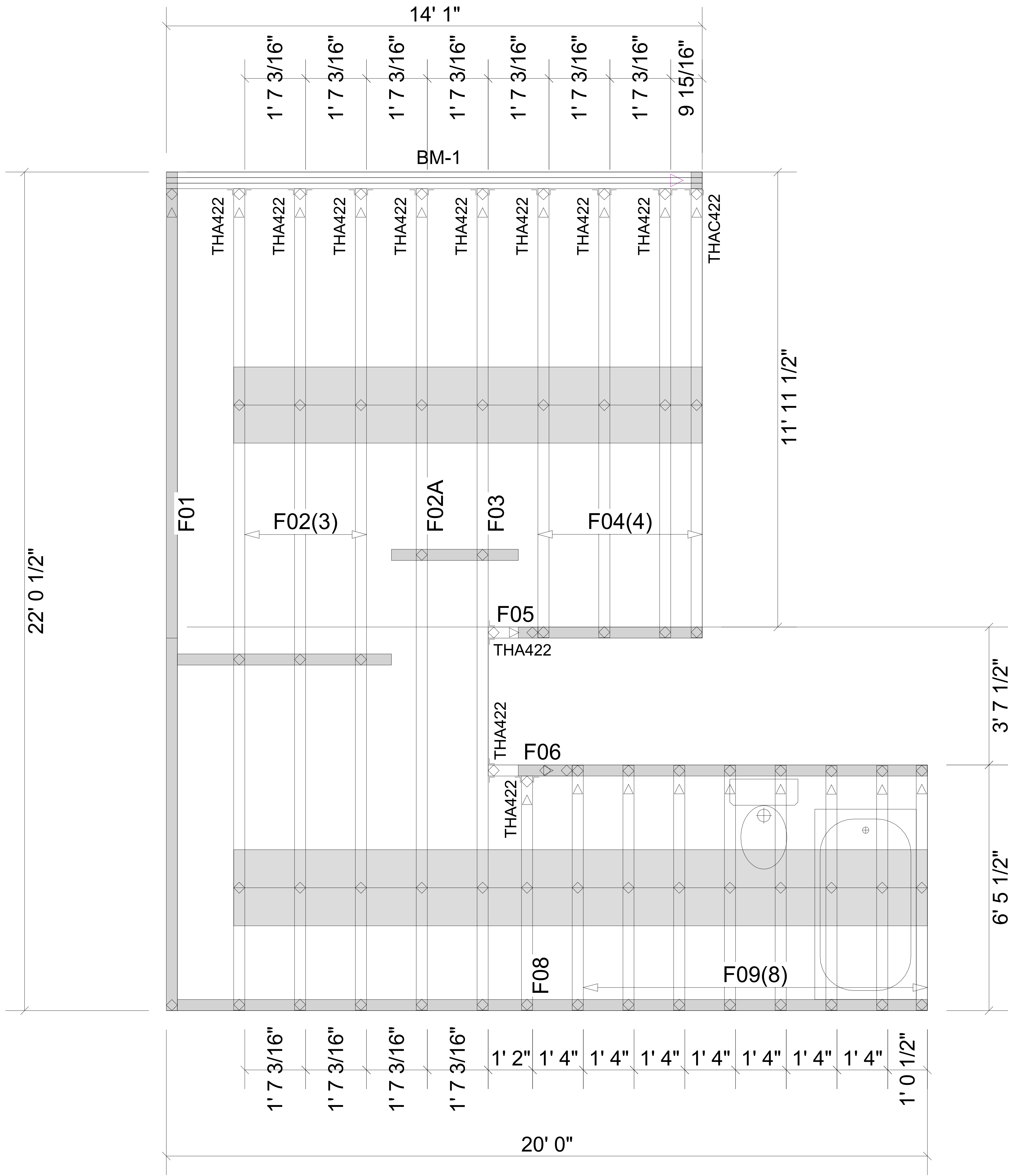
Drawn By: CGT

Job #: 24-9563-F01  
Sales Rep: KYLE GIBSON  
Phone: 864-304-3282

FLOOR



**WARNING!** Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses" (BCS1), "JOINTLY PRODUCED BY SBCA and TPI". For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.



Products						
Net Qty	Plies	Product	Length	PlotID		
3	3	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	16-00-00	BM-1		

Truss Connector Total List		
Qty	Product	Manuf
11	THA422	
1	THAC422	Simpson

▲ = LEFT END OF TRUSS

**NOT FOR CONSTRUCTION**



Moncks Corner/Easley, SC (800) 475-3999  
Sparta, NC (336) 372-2226

REVISIONS:

Client: DRB GROUP-RALEIGH  
Job: LOT 0.0014 CAMPBELL RIDGE  
Plan Information:  
COOPER 3-6

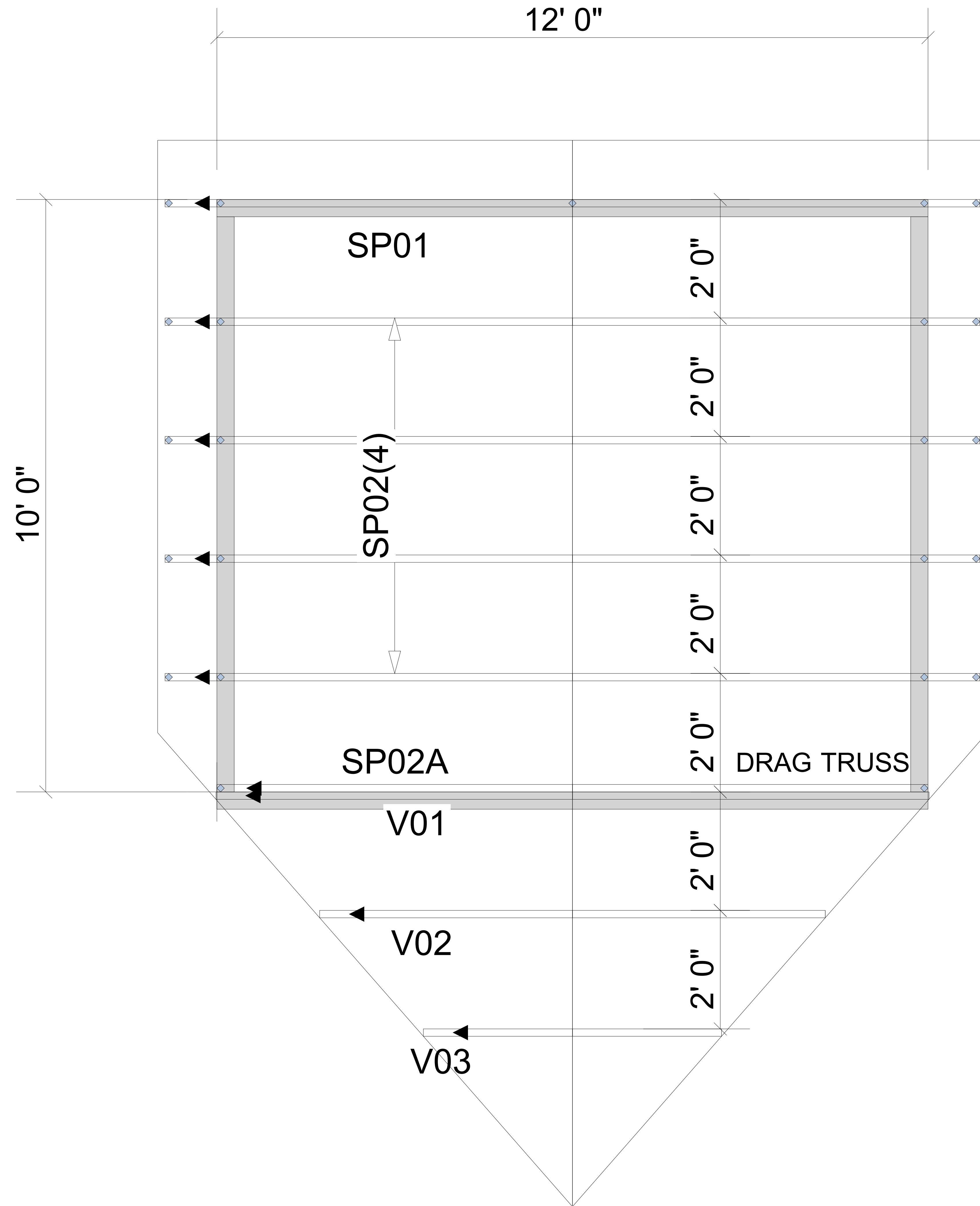
NOT TO SCALE

Date: 10/30/24

Drawn By: CGT

Job #: 24-9563-F02  
Sales Rep: KYLE GIBSON  
Phone:

FLOOR



▲ = LEFT END OF TRUSS

FOR PERMIT

REVISIONS:



Moncks Corner/Easley, SC (800) 475-3999  
 Sparta, NC (336) 372-2226

Client: DRB GROUP-RALEIGH

Job: LOT 0.0014 CAMPBELL RIDGE

Plan Information:

COOPER 3-6

NOT TO SCALE

Drawn By: CGT

Date: 10/30/24

Job #: 24-9563-R01

Sales Rep: KYLE GIBSON  
 Phone:

ROOF

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