

# MIDDLETON-RALE

RALEIGH - LOT 00.0016 HONEYCUTT HILLS SF

(MODEL# 2183)

ELEVATION 1 - GL

393 Shelby Meadow Lane

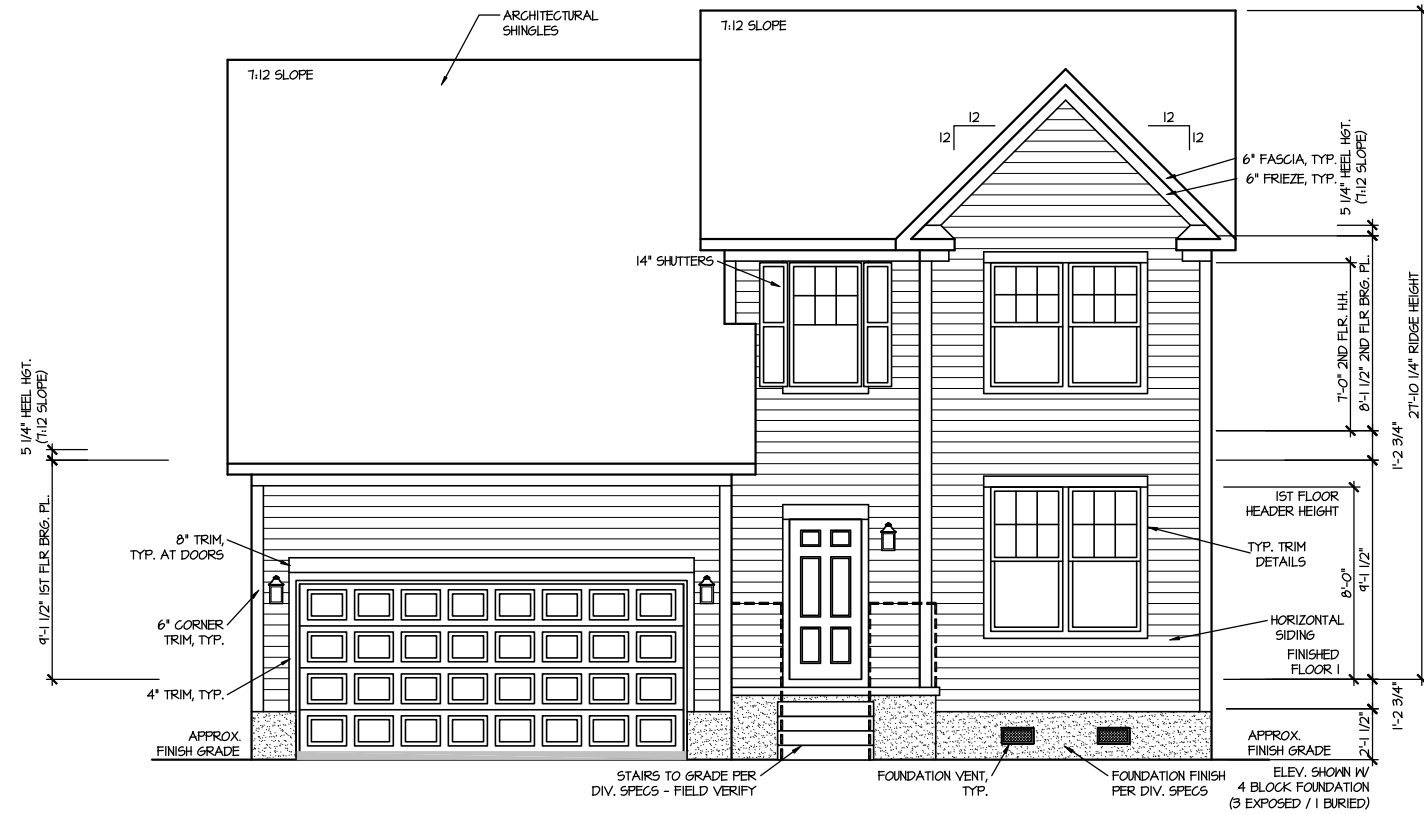
INDEX



AREA CALCULATIONS			
	HEATED	COVERED / UNHEATED	UNCOVERED
ELEVATION 1			
FIRST FLOOR	1495 SF		
GARAGE		417 SF	
FRONT STOOP - ELEVATION 1		34 SF	
SECOND FLOOR	692 SF		
OPTIONS			
SCREEN PORCH		124 SF	
TOTAL	2187 SF	575 SF	

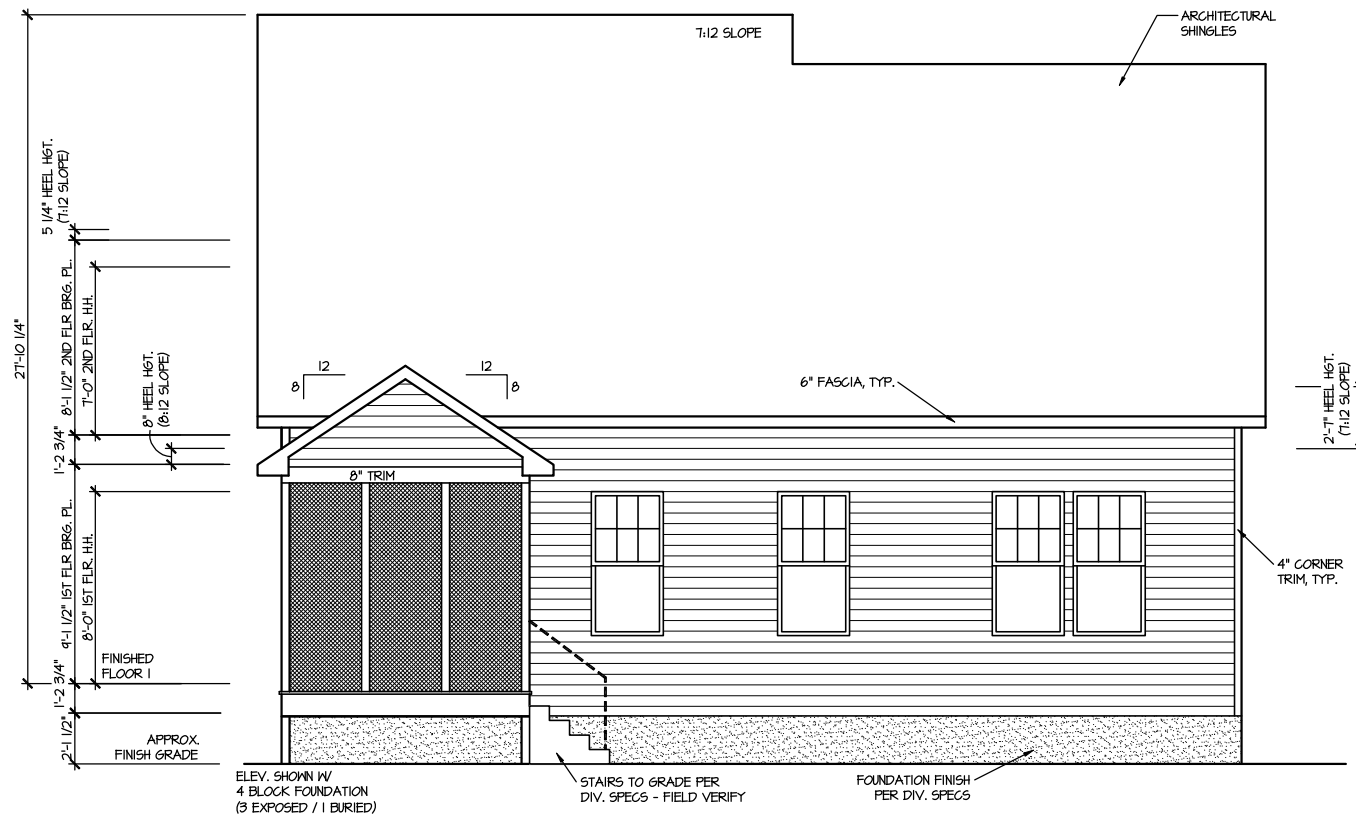
LOT SPECIFIC

	LOT	DESCRIPTION
1	00.0016	HONEYCUTT HILLS SF MIDDLETON REV. RALE 2 ELEVATION 1
2	ADDRESS	393 SHELBY MEADOW LANE ANGIER, NC 27501



FRONT ELEVATION I

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



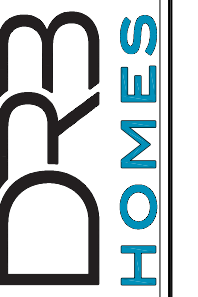
REAR ELEVATION I

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

FILE: Lot\_00.0016.dwg DATE: 9/30/2024 5:04 PM

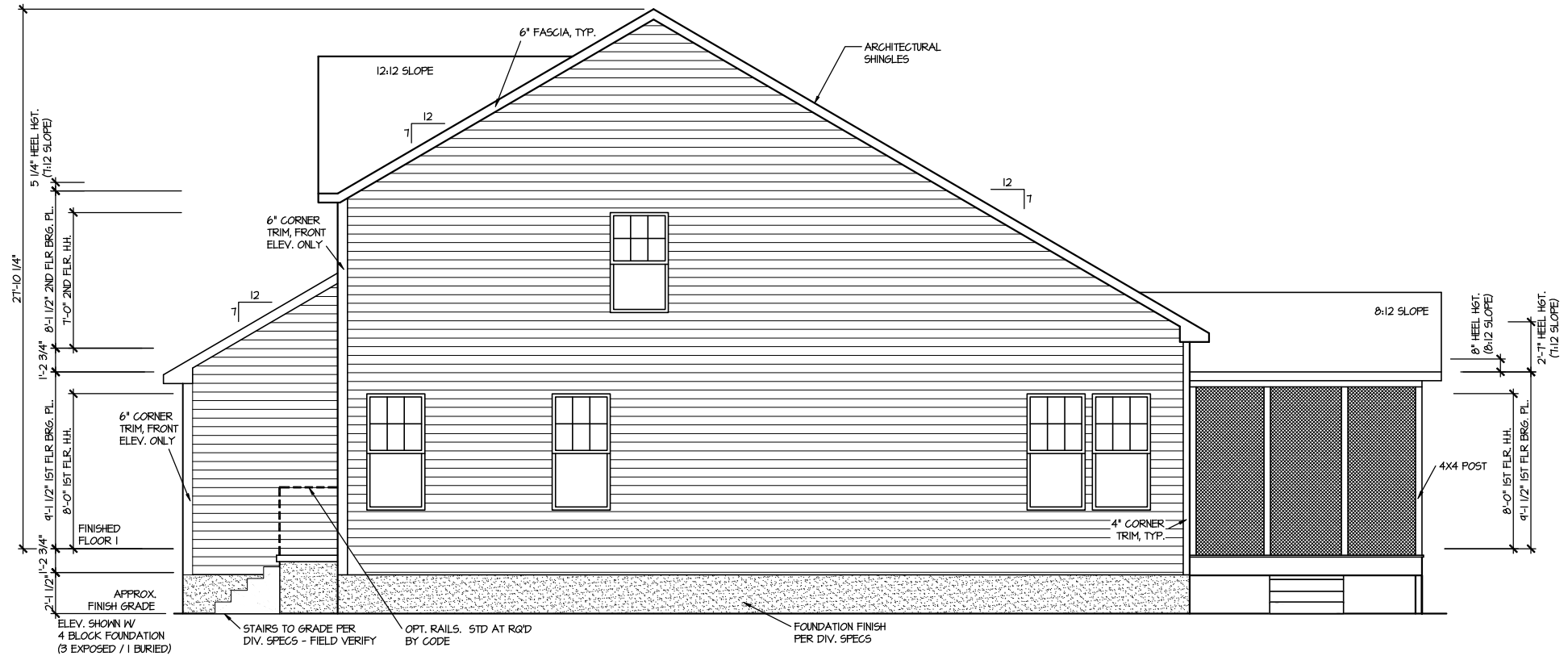
MASTER PLAN INFORMATION	
REVISION	DATE
2-RALE	3-20-2024
UPDATED DATE	06-05-2024

DRAWN BY:	ITS
DATE:	09/30/2024
PLAN NO.	2183

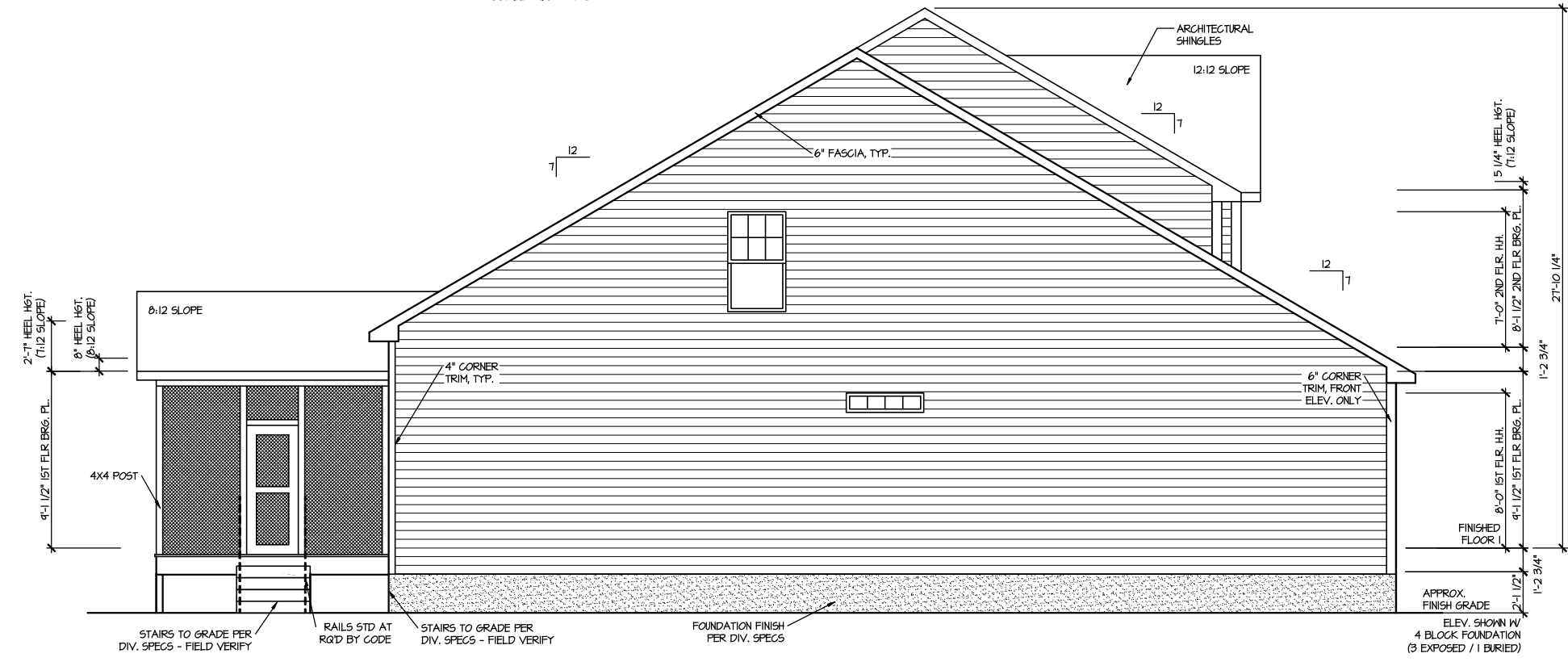


HOUSE NAME:  
MIDDLETON  
DRAWING TITLE  
FRONT & REAR ELEVATIONS

SHEET No.  
A.1



**RIGHT ELEVATION I**  
SCALE: 1/8" = 1'-0"



**LEFT ELEVATION I**  
SCALE: 1/8" = 1'-0"

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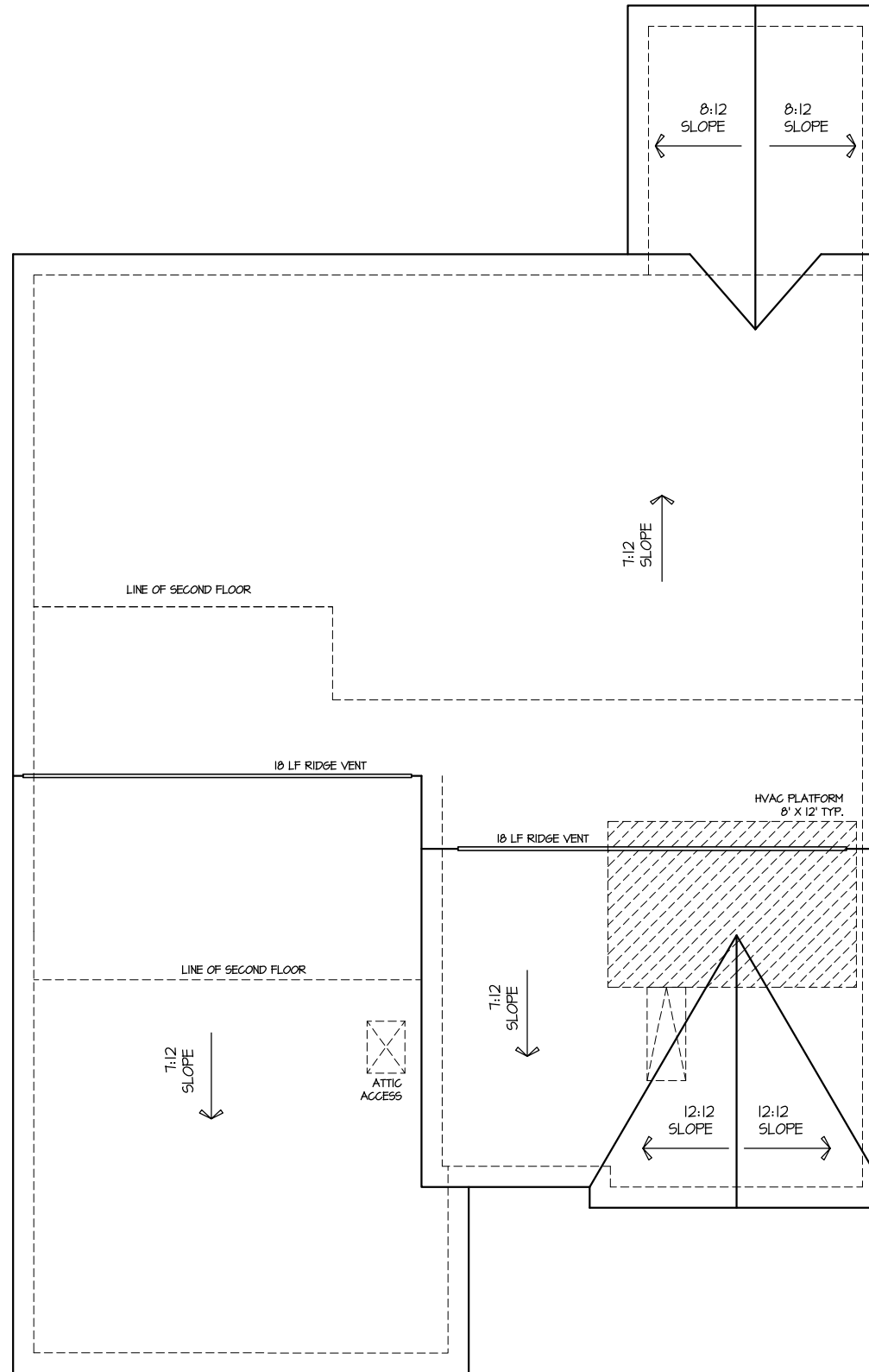
DRAWN BY: ITS  
DATE: 09/30/2024  
PLAN NO. 2183



HOUSE NAME: MIDDLETON  
DRAWING TITLE: RIGHT & LEFT ELEVATIONS

SHEET No. A.2

**ROOF VENTILATION CALCULATIONS:**  
 ROOF AREA = 2102 SQ. FT.  
**OVERALL REQUIRED VENTILATION:**  
 1 TO 150 = 14.01 SQ. FT.  
 1 TO 300 = 7.01 SQ. FT.  
 50-80% IN TOP THIRD = 3.50 - 5.61 SQ. FT. (1 TO 300)  
 NET FREE AREA OF VENTED SOFFIT = 5.15 SQ. IN. / LINEAR FT.  
 NET FREE AREA OF RIDGE VENT = 10 SQ. IN. / LINEAR FT.  
**LOWER VENTING (BOTTOM 2/3 RDS):**  
 74 LINEAR FEET OF SOFFIT X 5.17 SQ. IN. = 249 SQ. FT.  
**UPPER VENTING (TOP 1/3 RDS):**  
 36 LINEAR FEET OF RIDGE X 10 SQ. IN. = 45 SQ. FT.  
 4.00 SQ. FT. BETWEEN 50% - 80%  
 (1 TO 300 ALLOWED)  
 TOTAL ROOF VENTILATION: 1.49 SQ. FT. > 1.01 SQ. FT. (REQ'D)



**ROOF PLAN ELEV. 1**  
 SCALE: 1/8" = 1'-0"

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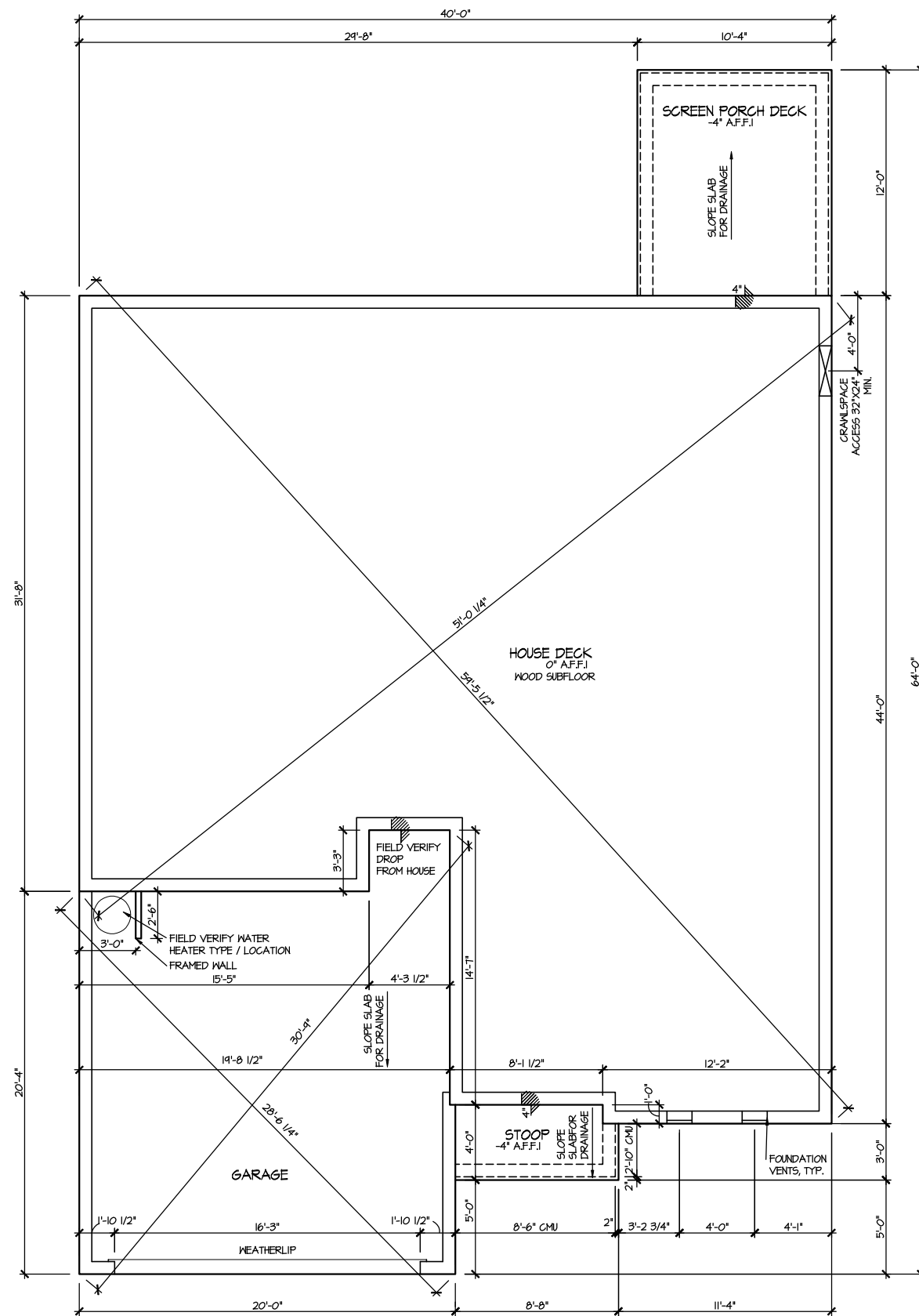
DRAWN BY: ITS  
 DATE: 09/30/2024  
 PLAN NO. 2183



HOUSE NAME: MIDDLETON  
 DRAWING TITLE: ROOF PLAN

SHEET No. A/3

**CRAWLSPACE VENT CALCULATIONS ALL ELEVATIONS**  
 CRAWL AREA = 1445 SQ. FT.  
 OVERALL REQUIRED VENTILATION:  
 1 SQ. IN. PER 1 SQ. FT. = 1444 SQ. IN.  
 NET FREE AREA OF VENT = 12 SQ. IN. PER VENT  
 WITTEN AUTOMATIC VENT OAL-1 OR EQUAL  
 VENTING REQUIREMENT:  
 1445 SQ. IN. / 12 SQ. IN. = 20.7 VENTS = 21 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

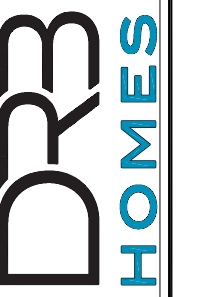


**ELEVATION 1  
 CRAWLSPACE PLAN**  
 SCALE: 1/8" = 1'-0"

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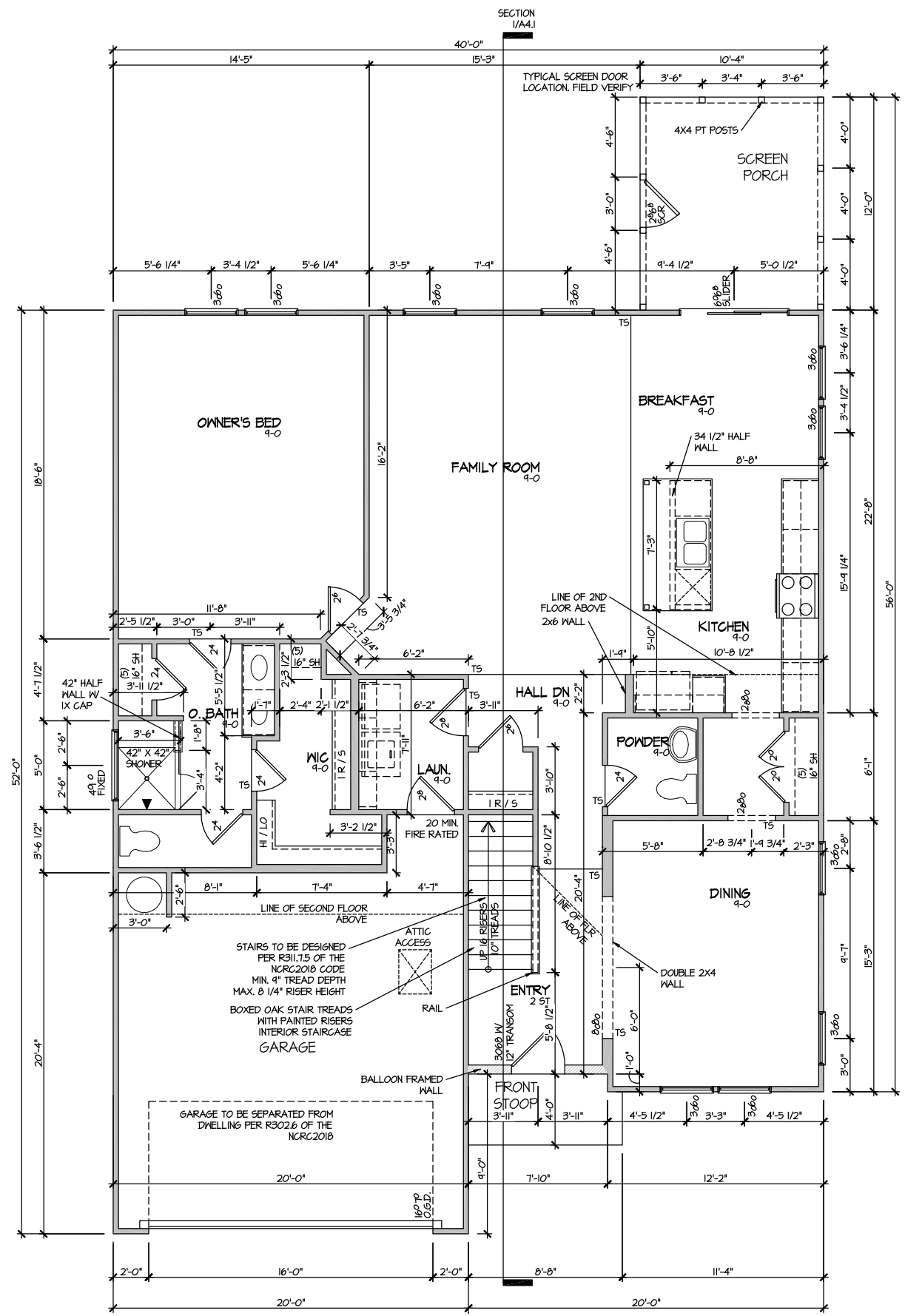
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 PLAN NO. 2183



HOUSE NAME: MIDDLETON  
 DRAWING TITLE: CRAWLSPACE PLAN

SHEET No. A2.1



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

FILE: Lot\_00.0016.dwg DATE: 9/30/2024 5:04 PM

MASTER PLAN INFORMATION

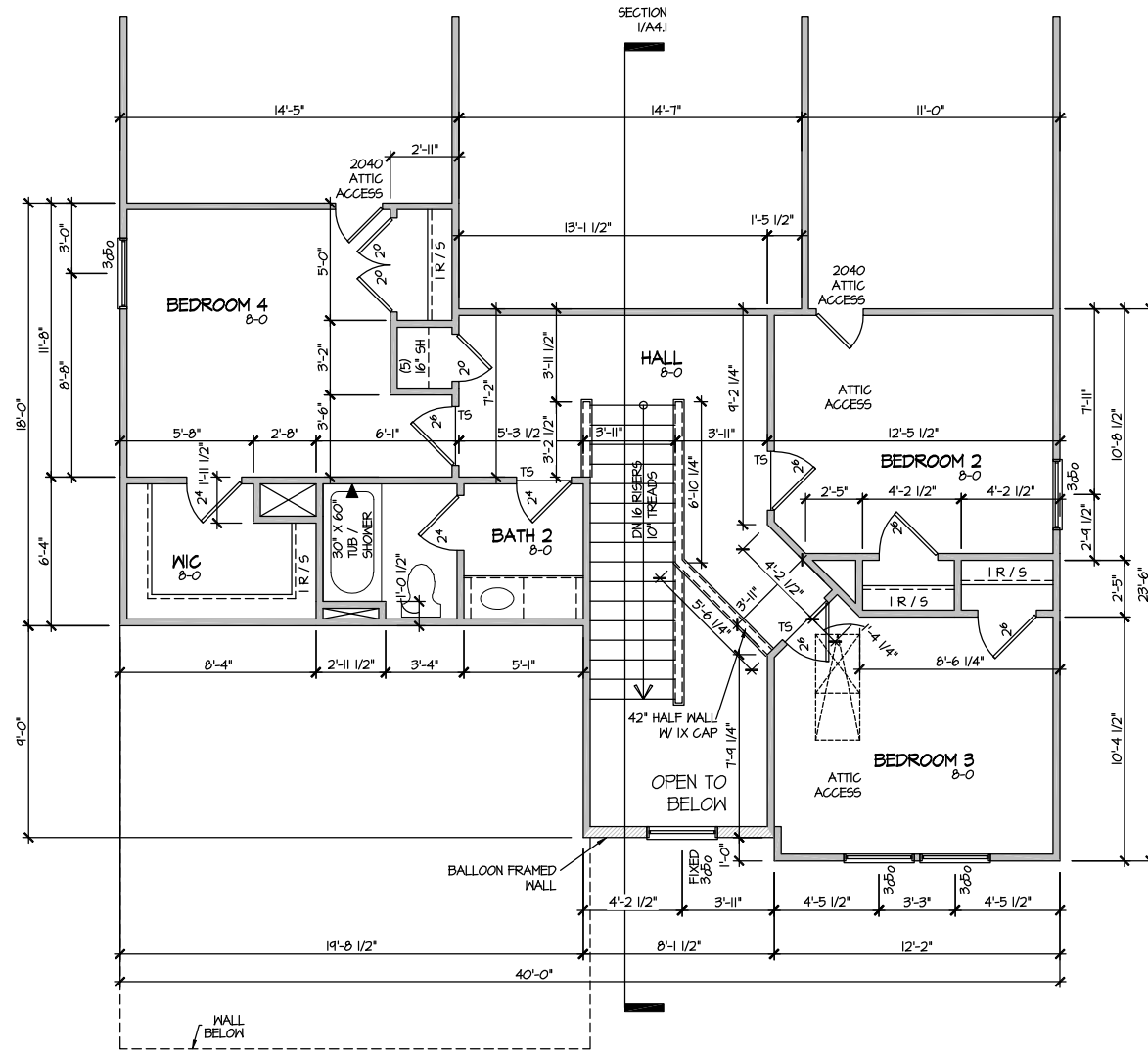
REVISION	DATE	UPDATED DATE
2-RALE	3-20-2024	06-05-2024

DRAWN BY: ITS  
DATE: 09/30/2024  
PLAN NO. 2183



HOUSE NAME: MIDDLETON  
DRAWING TITLE: FIRST FLOOR PLAN

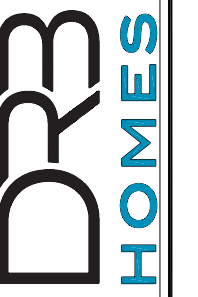
SHEET No. A3.1



ELEVATION I  
SECOND FLOOR PLAN  
SCALE: 1/8" = 1'-0"

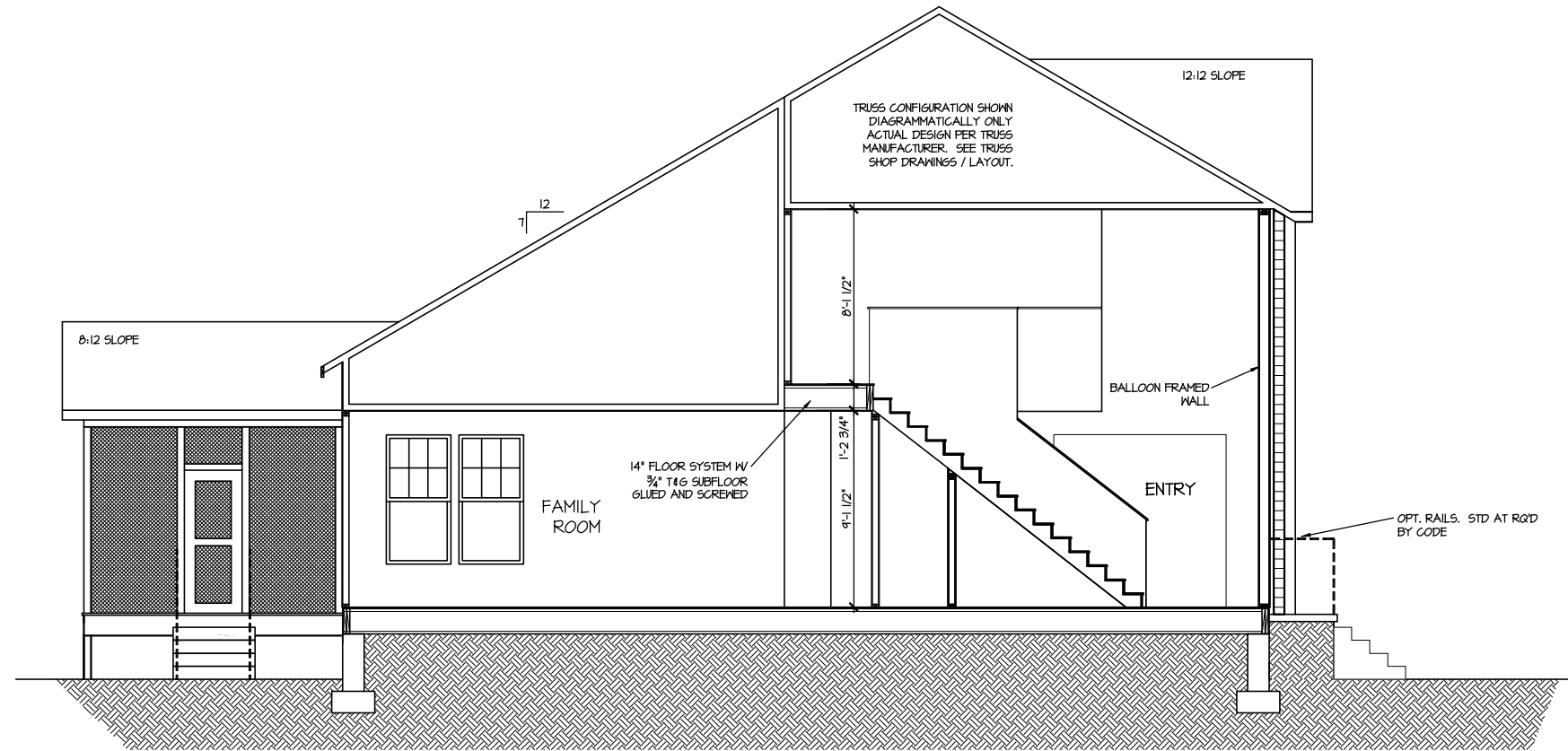
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REVISION	DATE
2-RALE	3-20-2024
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	06-05-2024

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DATE:	09/30/2024
PLAN NO.	2183



HOUSE NAME:	MIDDLETON
DRAWING TITLE	SECOND FLOOR PLAN

SHEET No.  
A3.2

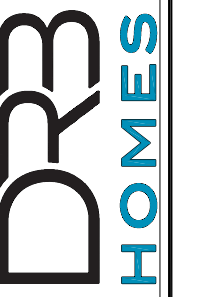


SECTION I  
SCALE: 1/8" = 1'-0"

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PLAN NO. 2183



HOUSE NAME: MIDDLETON  
DRAWING TITLE: BUILDING SECTION

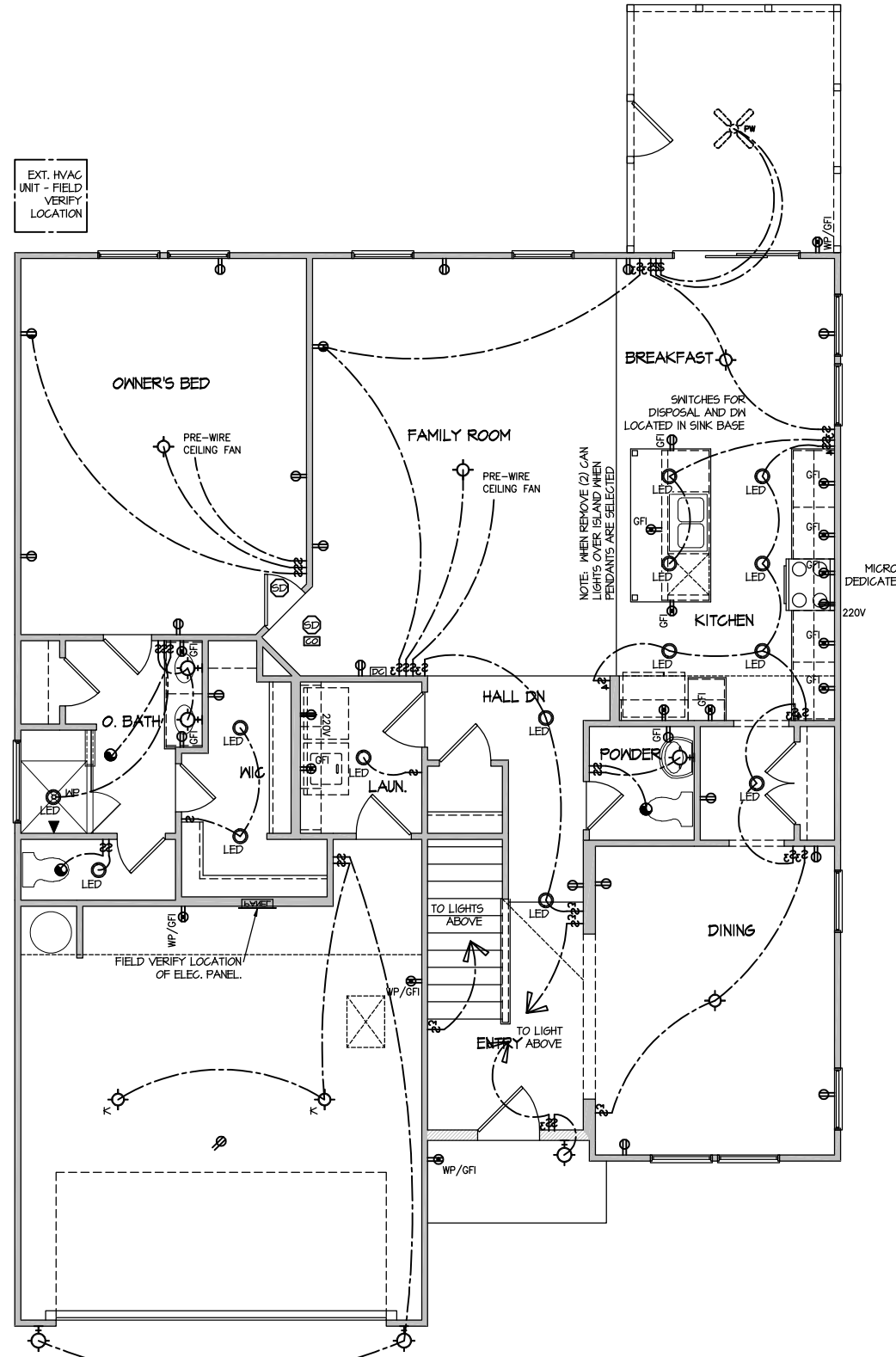
SHEET No. A4.1



**ELECTRICAL LEGEND**

- Ⓢ SINGLE POLE SWITCH
- Ⓢ<sub>3</sub> THREE WAY SWITCH
- Ⓢ<sub>4</sub> FOUR WAY SWITCH
- ⓈⓈ DUPLEX AFCI RECEPTACLE
- ⓈⓈ<sub>1</sub> DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- ⓈⓈ<sub>2</sub> DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- 220V Ⓢ RECEPTACLE - 220V
- ⓈⓈ<sub>1</sub> DUPLEX AFCI RECEPTACLE - GFI
- ⓈⓈ<sub>2</sub> DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- ⓈⓈ SMOKE DETECTOR - WIRED IN SERIES
- Ⓢ EXHAUST FAN MOTOR
- Ⓢ CO DETECTOR
- Ⓢ DOOR CHIME
- Ⓢ LIGHT FIXTURE - WALL MOUNTED
- Ⓢ LIGHT FIXTURE - CEILING MOUNTED
- Ⓢ<sub>LED</sub> LIGHT FIXTURE - LED SURFACE MOUNTED
- Ⓢ<sub>P</sub> FULLCHAIN LAMPHOLDER
- Ⓢ<sub>K</sub> 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.



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**ELECTRICAL PLAN  
FIRST FLOOR - ELEV. 1**  
SCALE: 1/8" = 1'-0"

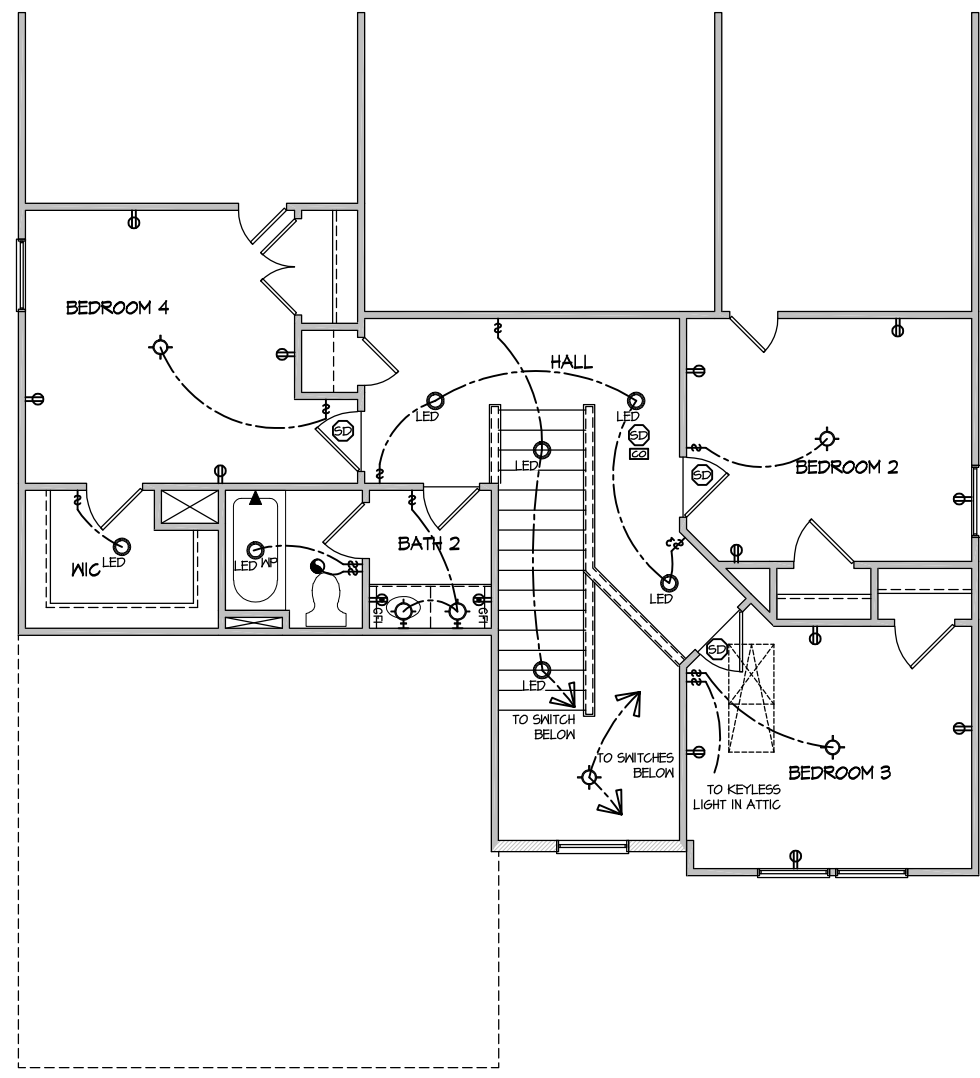
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UPDATED DATE	06-05-2024

DRAWN BY:	ITS
DATE:	09/30/2024
PLAN NO.	2183



HOUSE NAME:  
**MIDDLETON**  
DRAWING TITLE  
**FIRST FLOOR ELECTRICAL**

SHEET No.  
**1**



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

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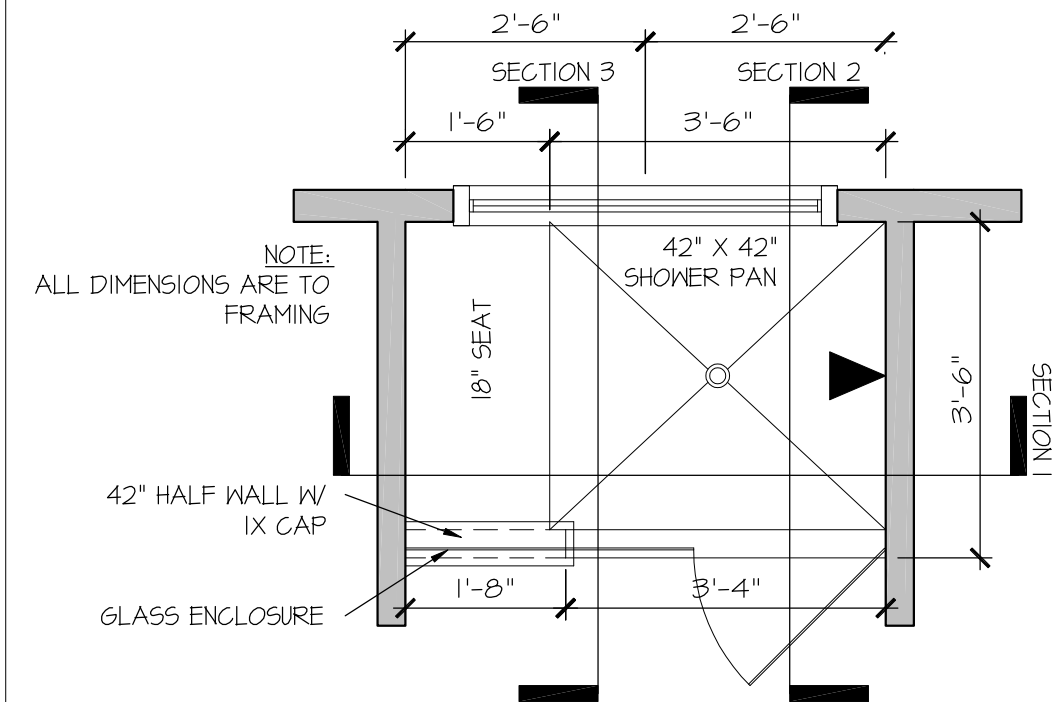
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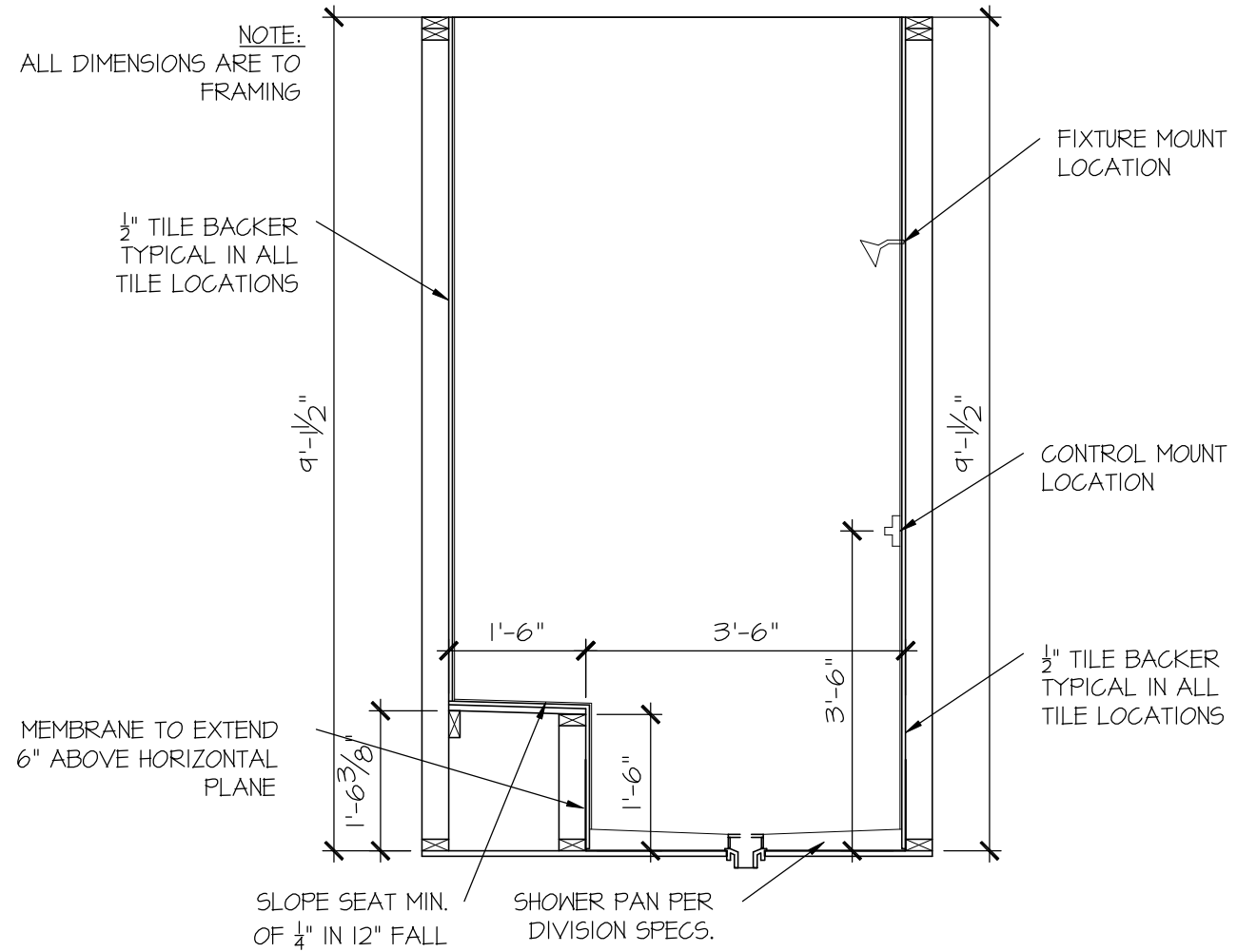


HOUSE NAME:  
 MIDDLETON  
 DRAWING TITLE  
 SECOND FLOOR ELECTRICAL

SHEET No.  
 1.2



RALE TILE SHOWER  
42" X 42" W 18" SEAT  
SCALE: 1/2" = 1'-0"



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

SEAL

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 FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA.
MARBLE FLOORS - CONTACT MKK FOR MARBLE FLOOR DESIGNS
AT I-JOIST FLOORS, PROVIDE 1/8" MIN. OSB RIM BOARD.
METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.

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.
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.
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.

HOLD-DOWN SCHEDULE

Table with 2 columns: SYMBOL, SPECIFICATION. Rows include HD-1 SIMPSON HIT4 HOLD-DOWN, HD-2 SIMPSON MSTC66 STRAP TIE, HD-3 SIMPSON 5THD14/14R1 HOLD-DOWN.

ALTERNATIVE TO SD2.24 ANCHOR BOLT SPECIFICATION:
UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN 5/8" DIA. THREADED ROD INTO CONCRETE 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".

ALL LITELS:
SHALL SUPPORT 2 3/4" - 3 1/2" VENEER w/ 40 PPH MAXIMUM HEIGHT.
1/2" SHALL HAVE 4" MIN BEARING
1/2" SHALL HAVE 8" MIN BEARING

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
120 MPH WIND IN 2018 NCSBG: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 NCSBG:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBG:RC SECTION R202.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R202.11.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:
FASTEN SHEATHING W/ 2 3/8"x0.113" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD.
HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.

BLOCKED PANEL EDGES

- AT DESIGNATED AREAS - FASTEN SHEATHING W/ 2 3/8" 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 (1/2" CROWN) @ 3" O.C. AT EDGES @ 6" O.C. IN FIELD.

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 ALL 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.

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

GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
FOOTING DESIGN - 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED.
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)

- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD.
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.:

- BASEMENT FOUNDATION WALL DESIGN BASED ON:
4" OR 10" HEIGHT (AS NOTED ON PLANS)
TALLER WALLS MUST BE ENGINEERED.
NOMINAL WIDTH (4 1/2" FOR 10" THICK WALL).
BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC, ML-CL, OR CL).

- 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 (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIOS
CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS

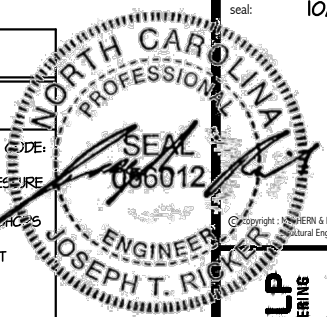
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C40 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 & 530.1.

- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
PROVIDE 2x6 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



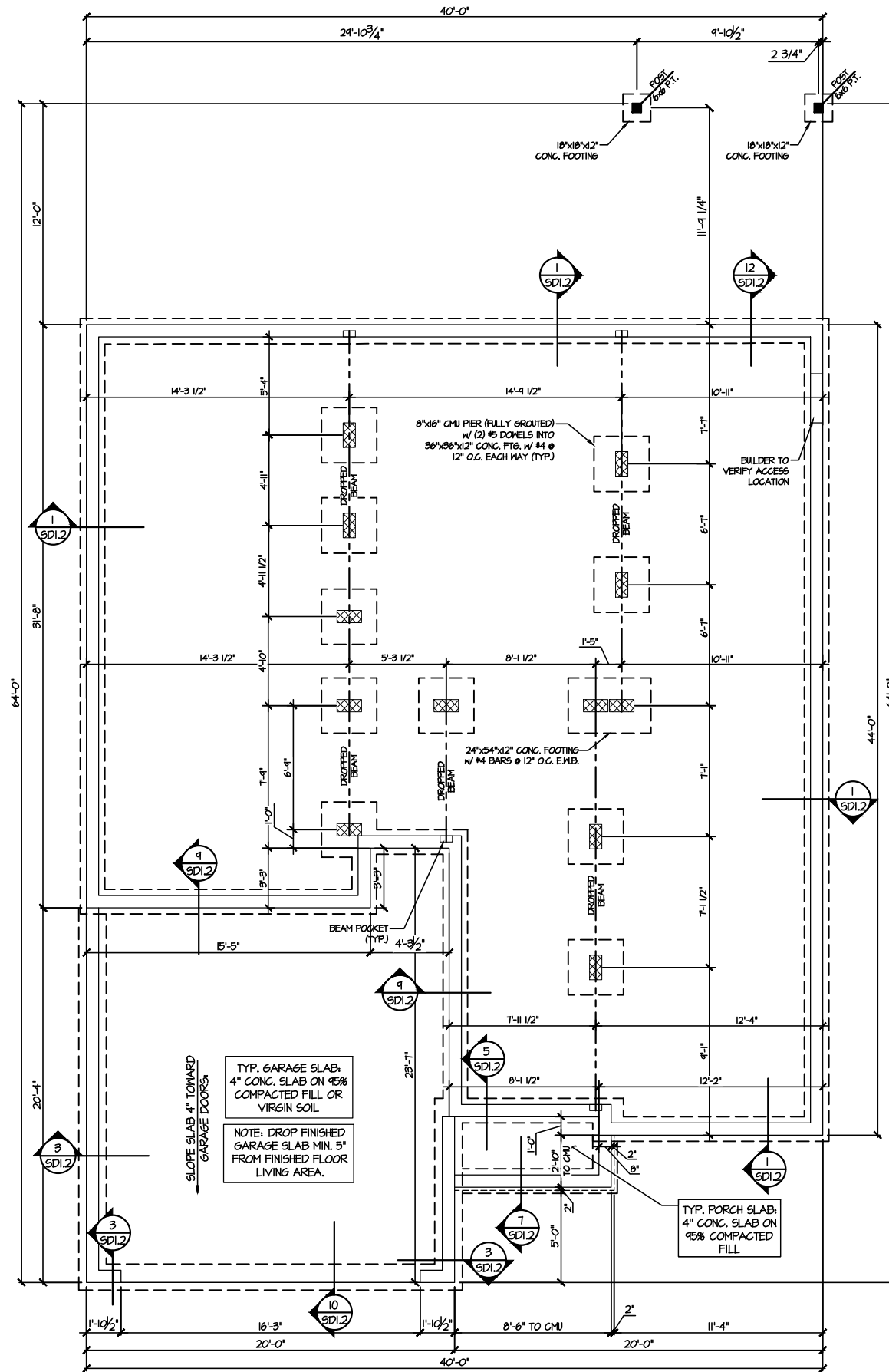
MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Bechtel Ave, Building 4 - Asheville, PA 17003
P: 717-636-0001 - mulhern@mulhernkulp.com
NC LIC. #C-3825

M&K project number: 126-23047
project mgr: JTR
drawn by: KJN
issue date: 10-10-24

REVISIONS:
date: initial:



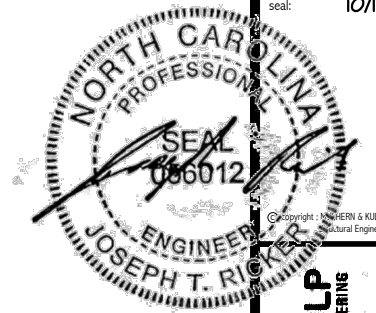
STRUCTURAL NOTES
HONEYCUT HILLS
LOT 16 - MIDDLETON 1
RALEIGH, NC



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

LEGEND	
	INTERIOR BEARING WALL
	BEARING WALL ABOVE
	BEAM / HEADER
	INDICATES SHEAR WALL & EXTENT
	EXTENT OF OVERFRAMING
	.1L METAL HANGER
	* 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**



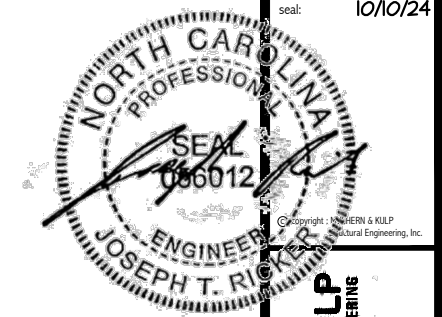
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date:	initial:



FOUNDATION PLANS  
HONEYCUTT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

sheet: **S1.0**



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RESIDENTIAL STRUCTURAL ENGINEERING  
300 Riverside Ave, Building 4 - Asheville, PA 18002  
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NC LIC. #C-3825

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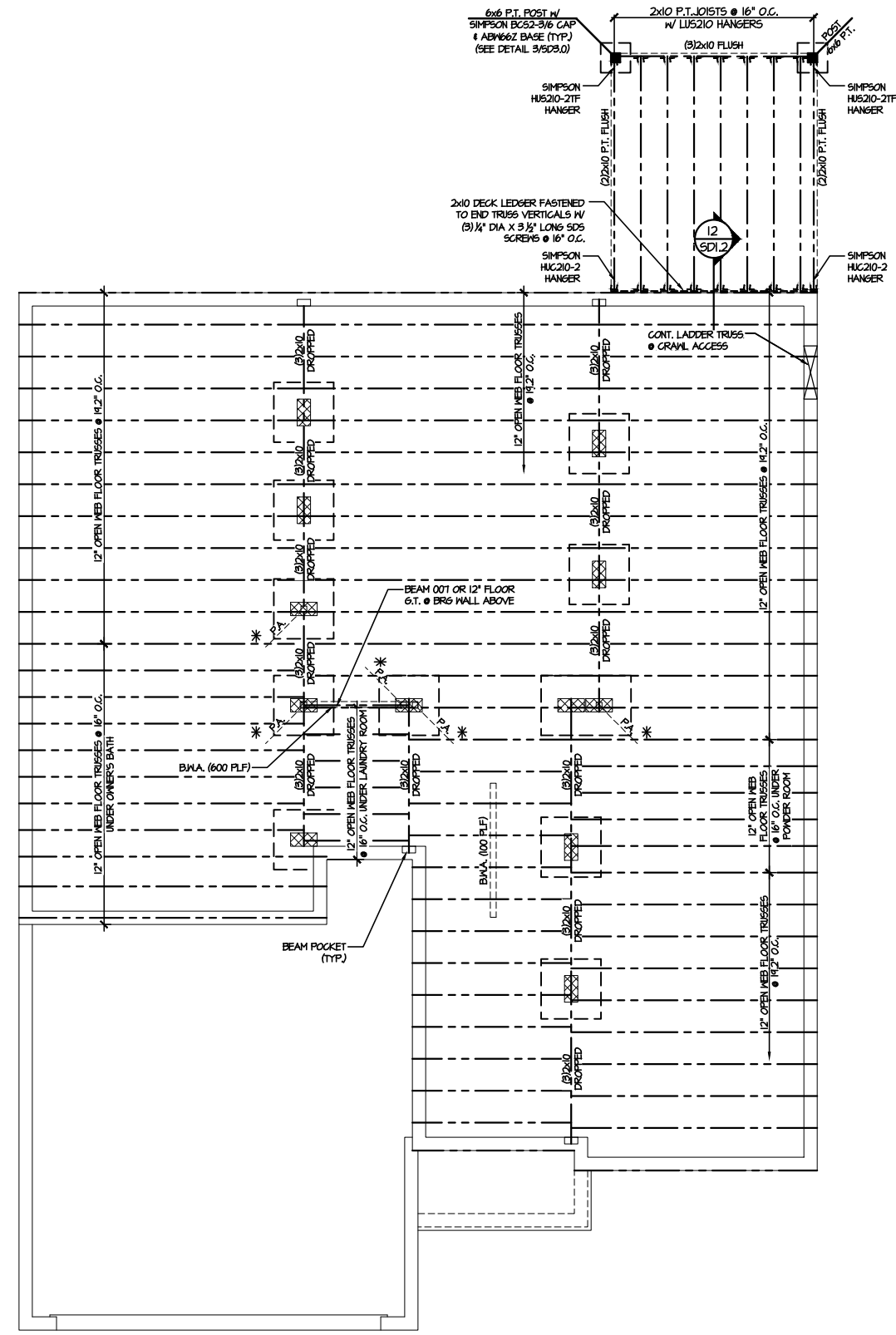
REVISIONS:

date:	initial:



FLOOR FRAMING PLANS  
HONEYCUTT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

sheet:  
**S2.0**



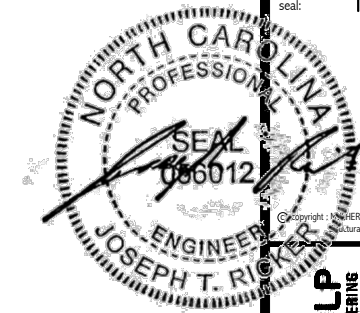
**1** FIRST FLOOR FRAMING PLAN - CRAWL SPACE  
SCALE: 1/8"=1'-0"

SD2.1 REFERS TO SD2.1A FOR LVL/PSL/LSL BEAMS OR SD2.1B FOR FLITCH BEAMS OR SD2.1C FOR STEEL BEAMS

**LEGEND**

- [Symbol] INTERIOR BEARING WALL
- [Symbol] BEARING WALL ABOVE
- [Symbol] BEAM / HEADER
- [Symbol] INDICATES SHEAR WALL & EXTENT
- [Symbol] 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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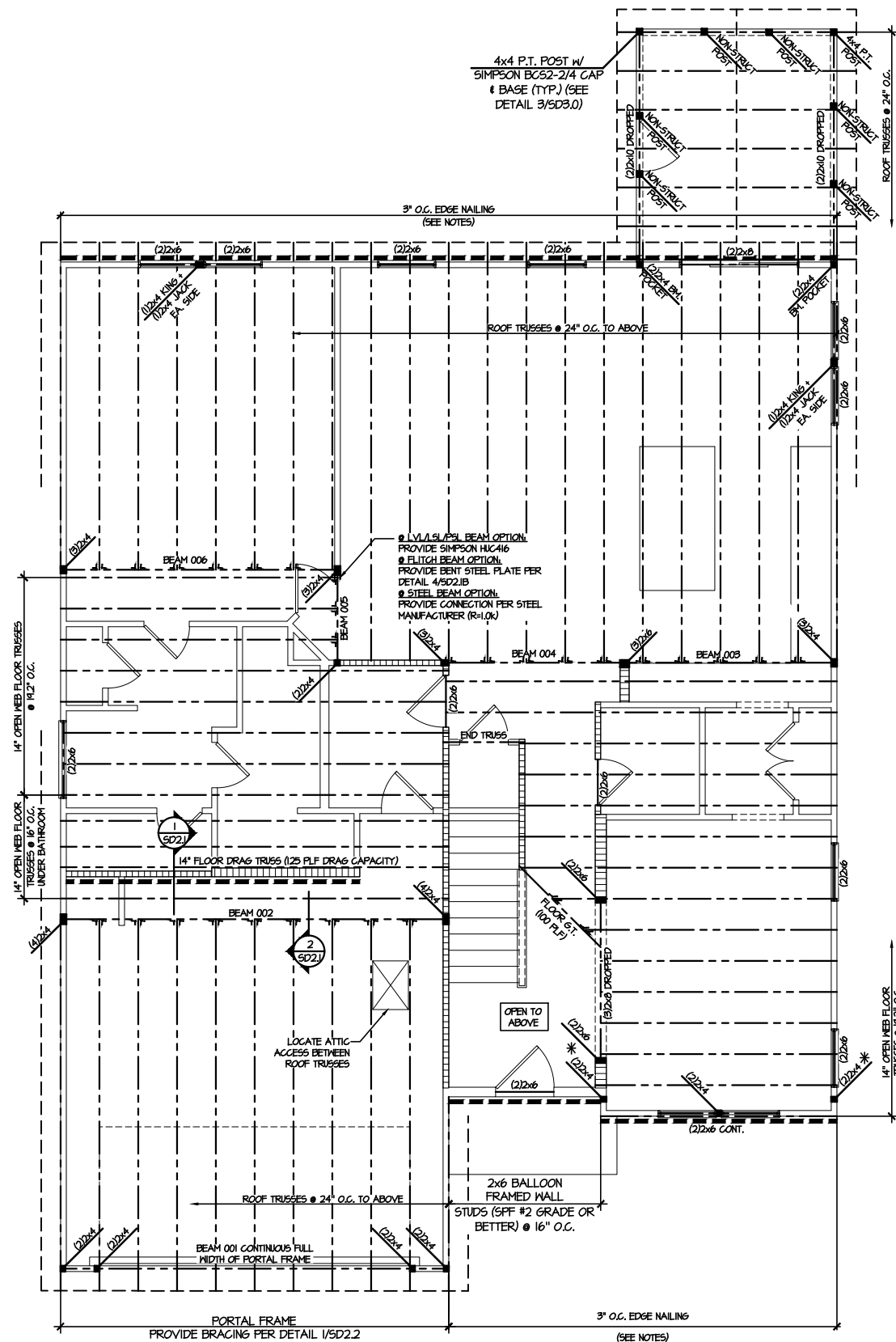
M&K project number:  
126-23047  
project mgr: JTR  
drawn by: KJN  
issue date: 10-10-24

REVISIONS:  
date: initial:



FLOOR FRAMING PLANS  
HONEYCUTT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

sheet:  
**S3.0**



**2ND FLOOR FRAMING PLAN**  
SCALE: 1/8"=1'-0"

ENGINEERED BEAM MATERIAL SCHEDULE					
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x17/8" - H	3/2"x11/8" - H	(2)3/4"x17/8" - H	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - H	N/A
001A	(2)3/4"x17/8" - H	3/2"x11/8" - H	(2)3/4"x17/8" - H	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - H	N/A
002	(2)3/4"x10" - FT	3/2"x10" - FT	N/A	(2)2x12 + (2)1/2"x11/4" STEEL FLITCH PLATES - FB	M2x14 - F
003	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - FB	M2x14 - F
004	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - FB	M2x14 - F
005	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - FB	M2x14 - F
006	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - FB	M2x14 - F
007	(2)3/4"x17/8" - F	3/2"x11/8" - F	(2)3/4"x17/8" - F	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - F	M10x12 - F
008	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - FB	M2x14 - F
004	(3)3/4"x10" - FT	3/2"x10" - FT	N/A	(4)2x12 + (3)1/2"x11/4" STEEL FLITCH PLATES - FB	M2x26 - F
010	(3)3/4"x20" - FT	3/2"x20" - FT	N/A	(4)2x12 + (3)1/2"x11/4" STEEL FLITCH PLATES - FB	M2x35 - F
011	(2)3/4"x11/8" - FB	3/2"x11/8" - FB	(2)3/4"x14" - FB	(2)2x12 + (1)1/2"x11/4" STEEL FLITCH PLATE - FB	M10x12 - FB

**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/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"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.

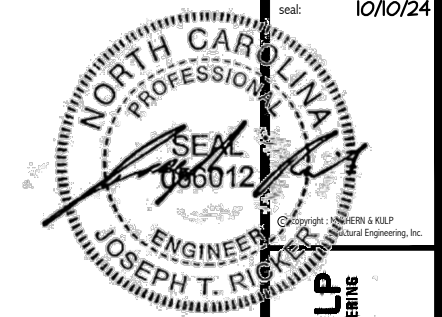
**LEGEND**

- 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

SD2.1 REFERS TO SD2.1A FOR LVL/PSL/LSL BEAMS OR SD2.1B FOR FLITCH BEAMS OR SD2.1C FOR STEEL BEAMS





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issue date: 10-10-24

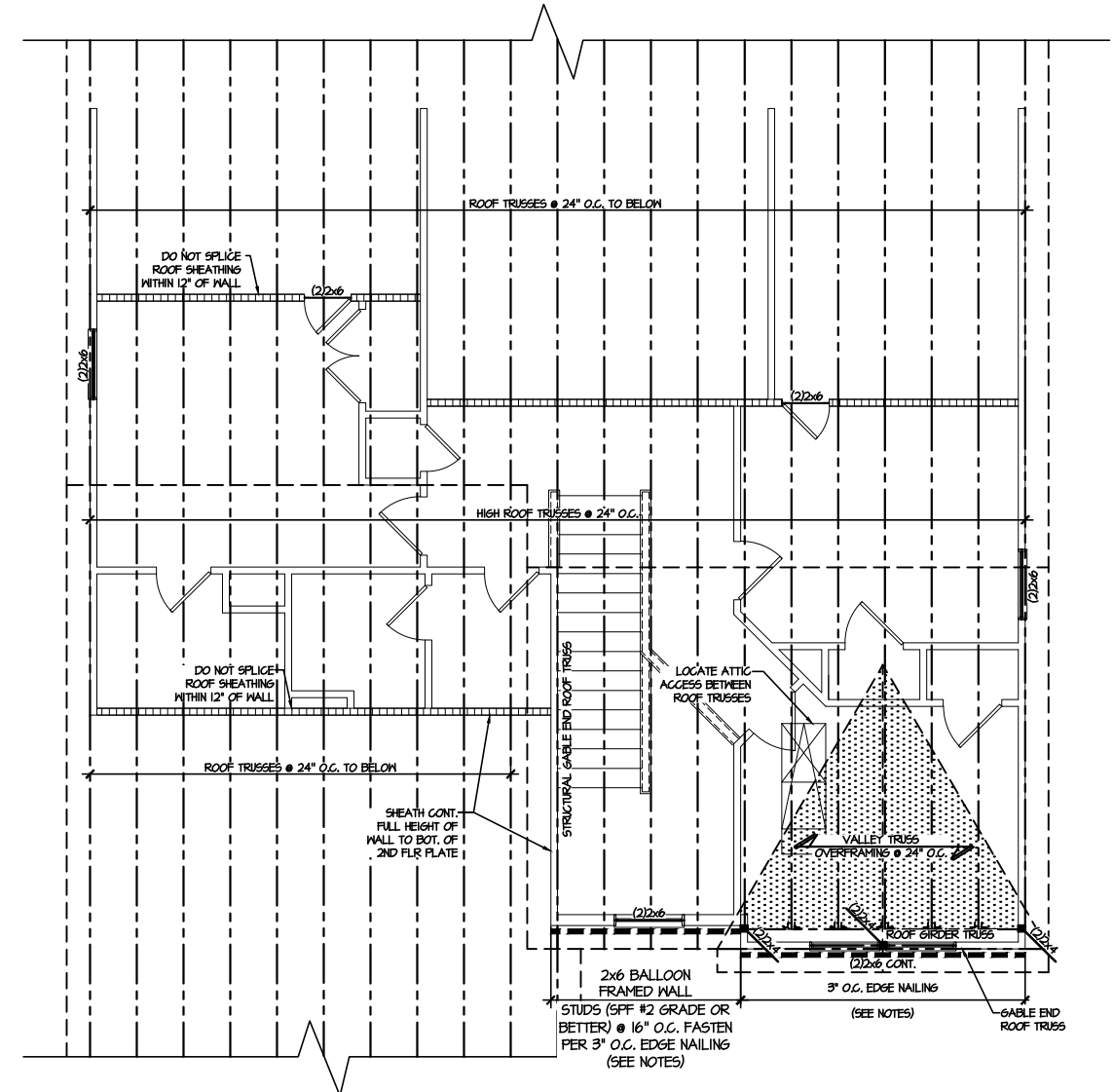
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ROOF FRAMING PLANS  
HONEYCUT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

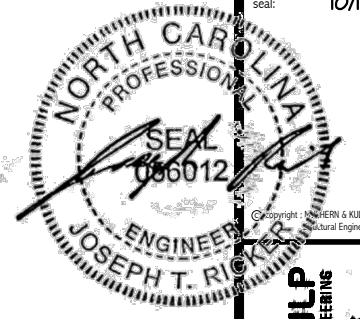
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**1 ROOF FRAMING PLAN**  
SCALE: 1/8"=1'-0"

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 S.O FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES



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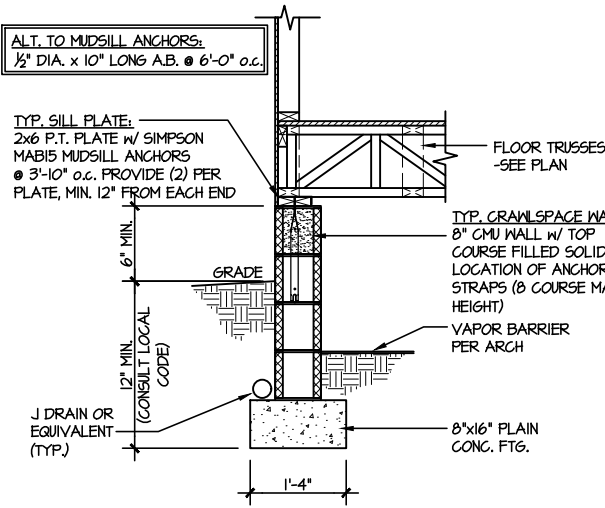
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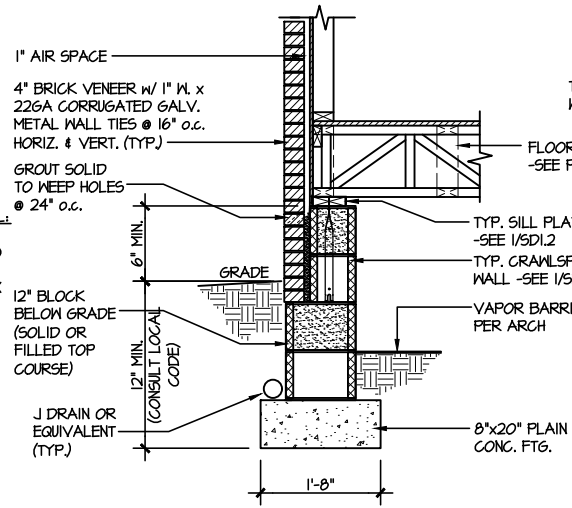
DRB  
HOMES

FOUNDATION DETAILS  
HONEYCUT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

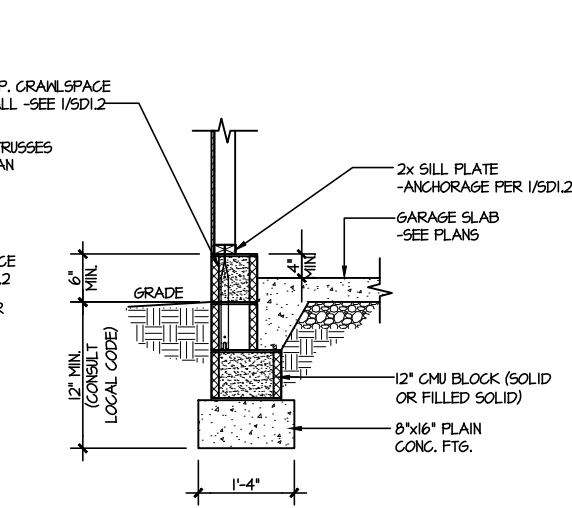
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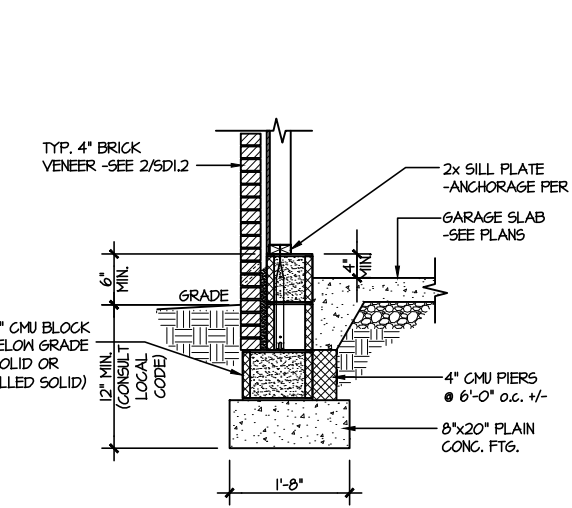
1 TYPICAL CRAWLSPACE FOUNDATION  
SCALE: 3/8"=1'-0"



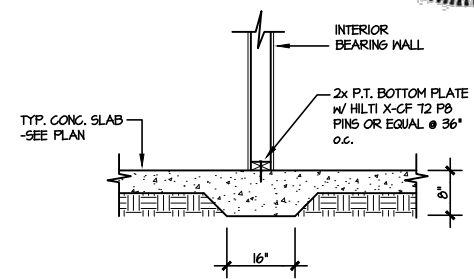
2 TYPICAL CRAWLSPACE FOUNDATION  
SCALE: 3/8"=1'-0" w/ BRICK VENEER



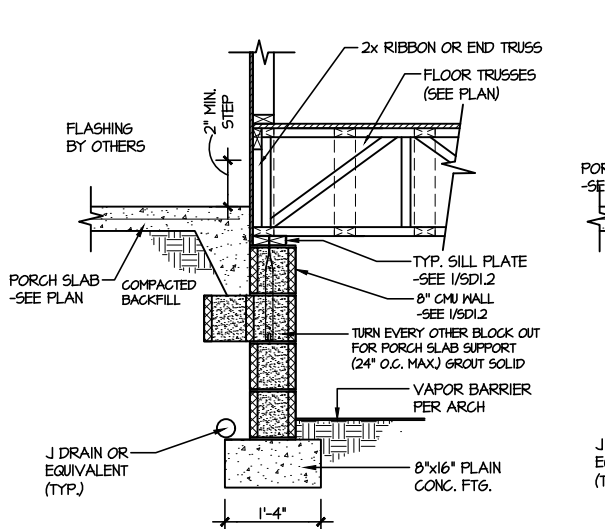
3 TYPICAL GARAGE FOUNDATION  
SCALE: 3/8"=1'-0"



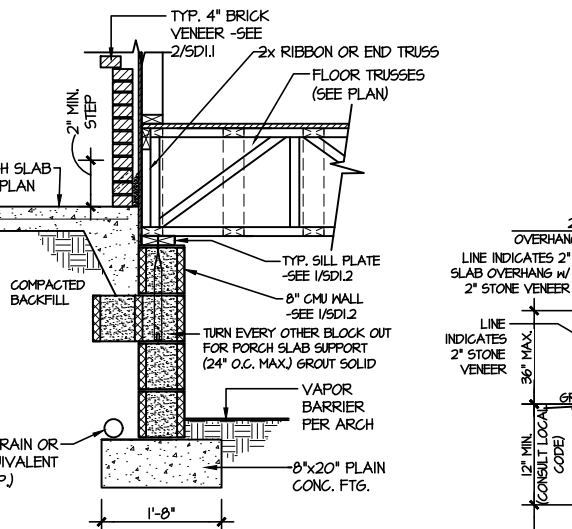
4 TYPICAL GARAGE FOUNDATION  
SCALE: 3/8"=1'-0" w/ BRICK VENEER



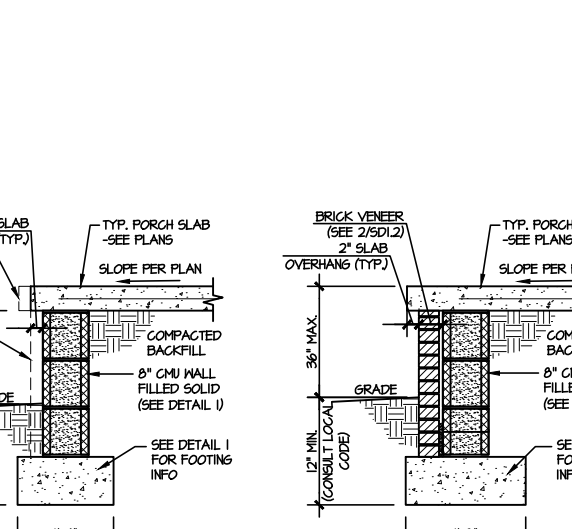
14 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL  
SCALE: 3/8"=1'-0"



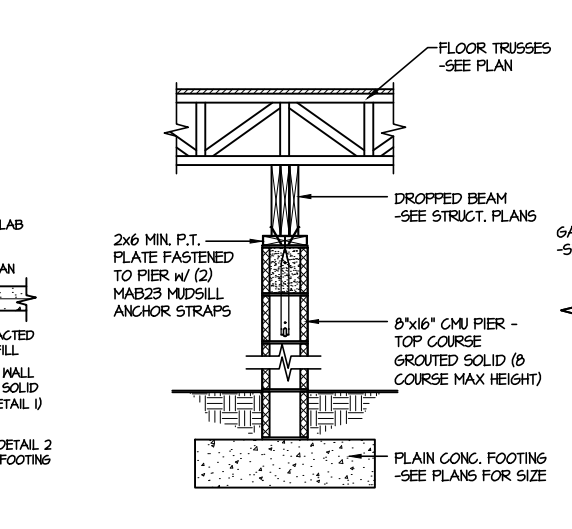
5 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB  
SCALE: 3/8"=1'-0" (REFER TO DETAIL 12 FOR WOOD PORCH OPTION)



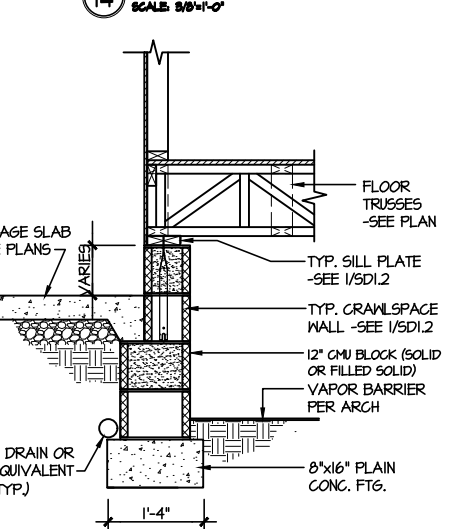
6 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB  
SCALE: 3/8"=1'-0" w/ BRICK VENEER



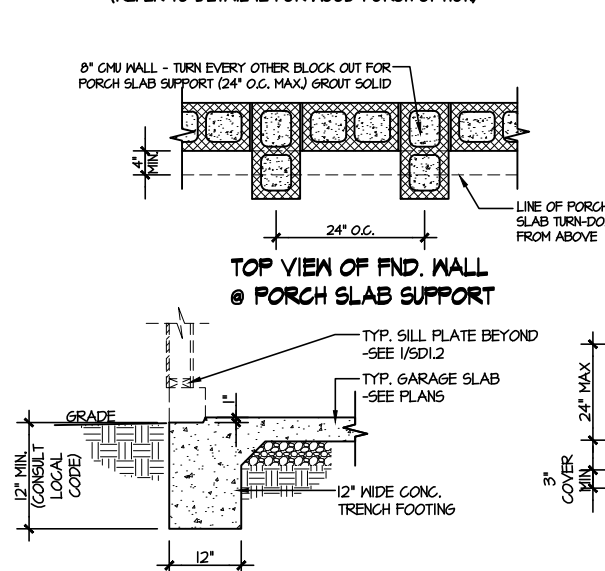
7A TYP. FOOTING @ PORCH SLAB  
SCALE: 3/8"=1'-0"



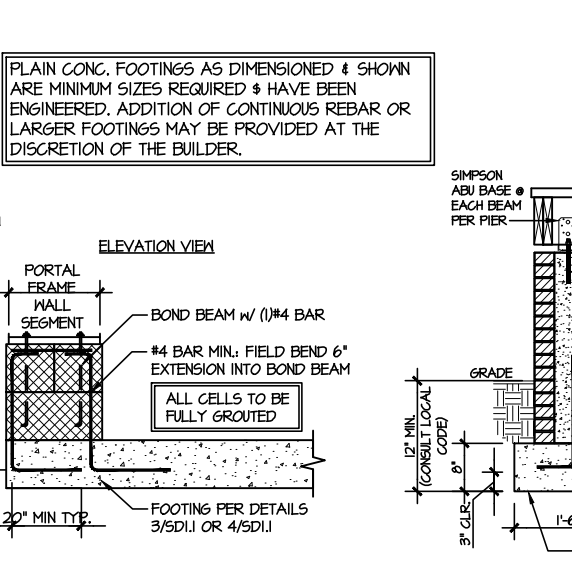
7B TYP. FOOTING @ PORCH SLAB  
SCALE: 3/8"=1'-0" w/ BRICK VENEER



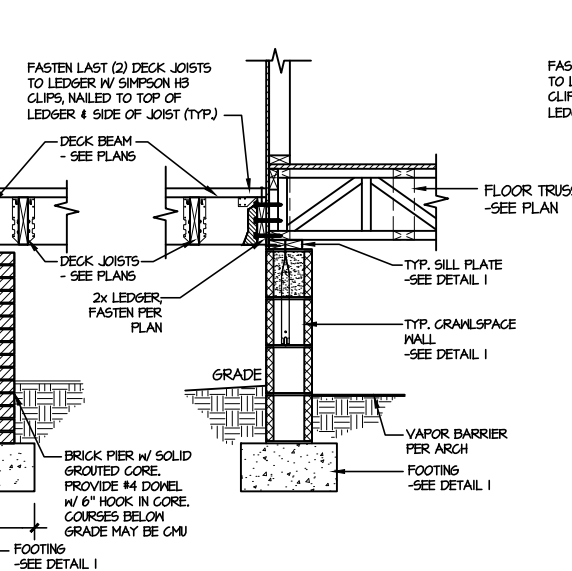
9 TYPICAL CRAWLSPACE FOUNDATION @ GARAGE  
SCALE: 3/8"=1'-0"



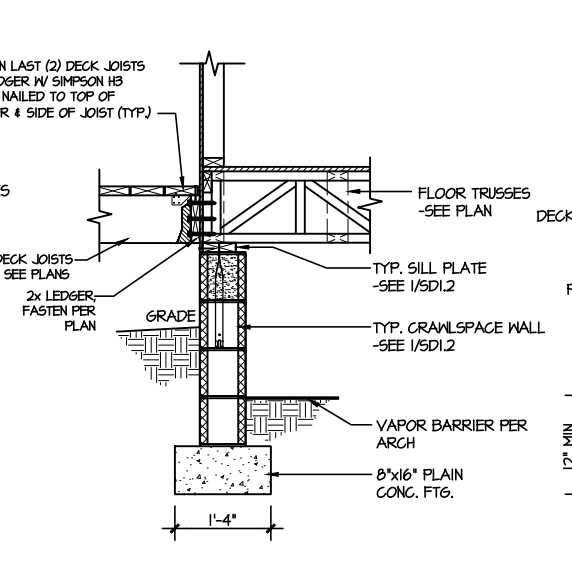
10 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING  
SCALE: 3/8"=1'-0"



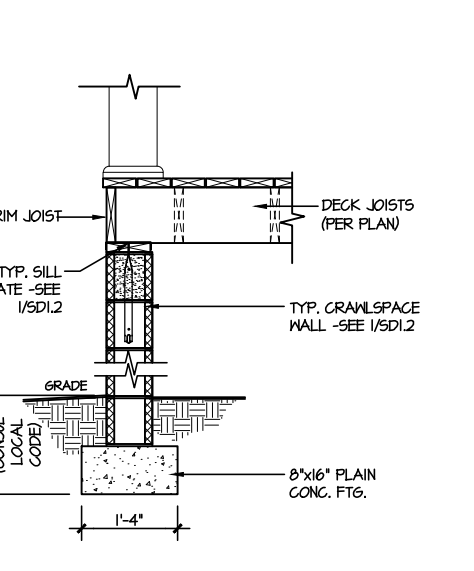
A GARAGE PORTAL FRAME STEM WALL REINFORCEMENT  
SCALE: 3/8"=1'-0"



11 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK w/ PIERS  
SCALE: 3/8"=1'-0"

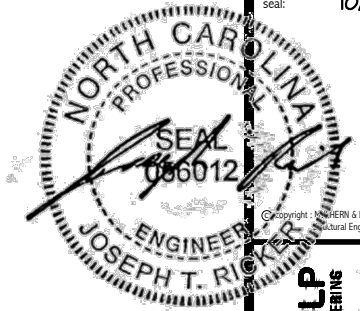


12 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK  
SCALE: 3/8"=1'-0"



13 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK PERIMETER  
SCALE: 3/8"=1'-0"

FILE: RLH - Honeycut Hills - Lot 16 - Structural DATE: 10/10/2024 12:19 PM



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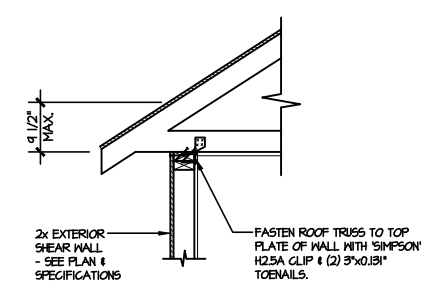
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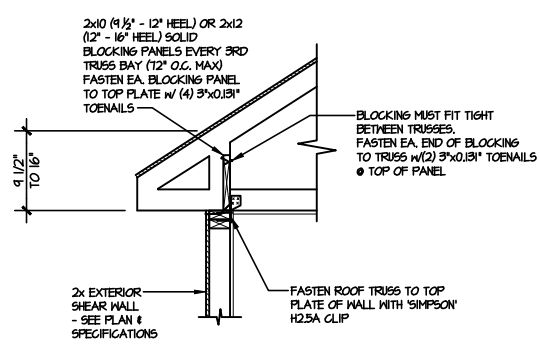
**DRB HOMES**

FRAMING DETAILS  
HONEYCUT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

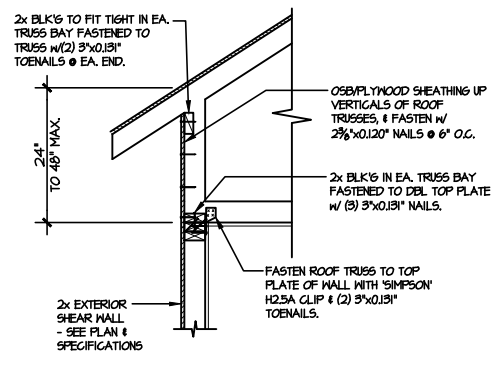
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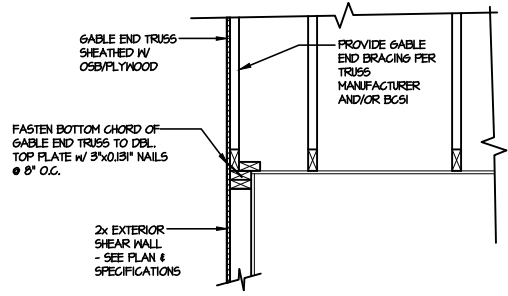
**(A1) TYPICAL SHEAR TRANSFER DETAIL @ ROOF**  
SCALE: 3/8"=1'-0"  
HEEL HEIGHT LESS THAN 9 1/2"  
NO BLOCKING REQ'D



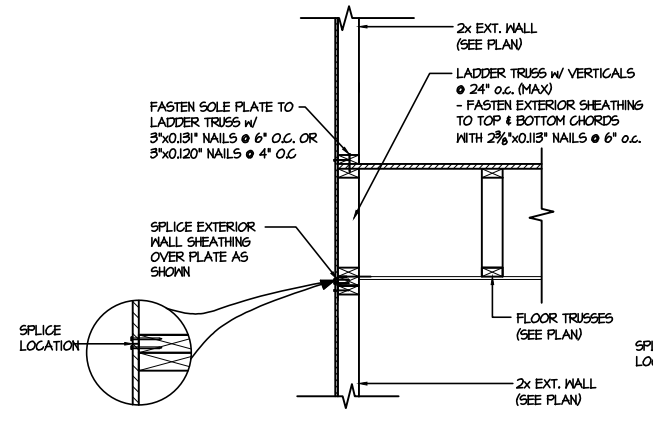
**(A2) TYPICAL SHEAR TRANSFER DETAIL @ ROOF**  
SCALE: 3/8"=1'-0"  
HEEL HEIGHT BETWEEN 9 1/2" - 16"  
BLOCKING REQ'D



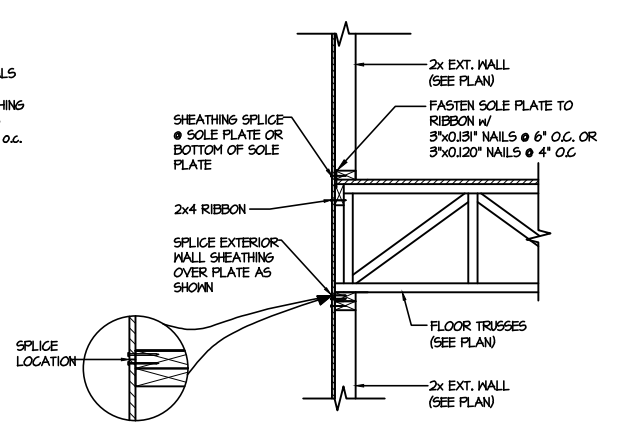
**(A3) TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS**  
SCALE: 3/8"=1'-0"  
HEEL HEIGHT UP TO 48" MAX.



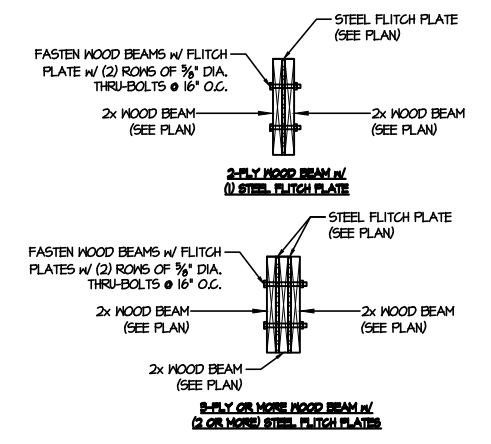
**(B) TYPICAL GABLE END DETAIL**  
SCALE: 3/8"=1'-0"



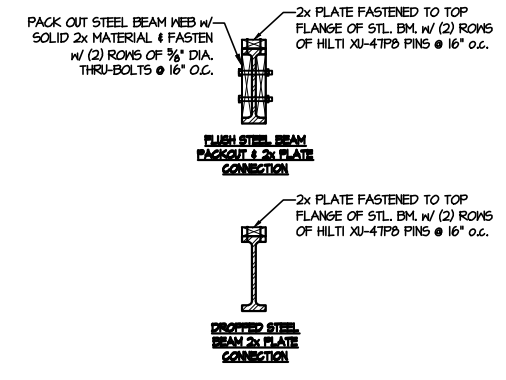
**(C1) TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL**  
SCALE: 3/8"=1'-0"  
PARALLEL FRAMING



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



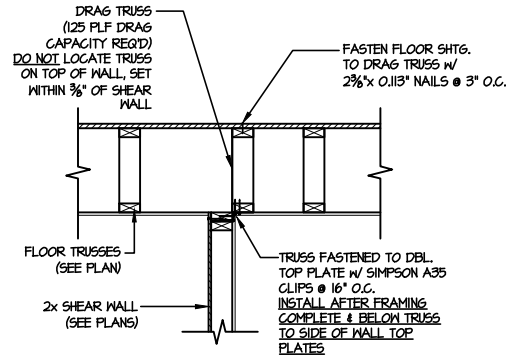
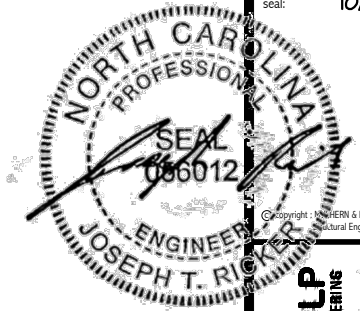
**(D) TYPICAL FLITCH BEAM CONNECTION DETAIL**  
SCALE: 3/4"=1'-0"



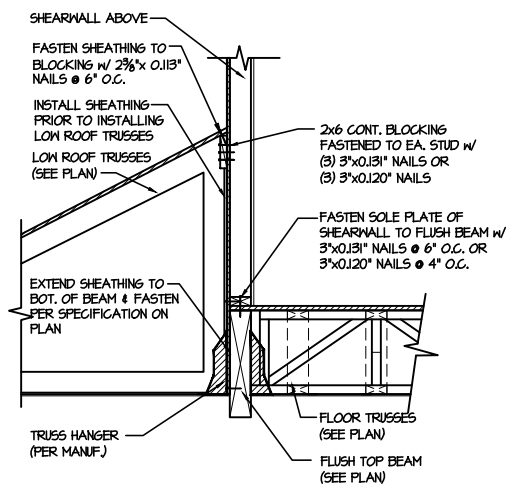
**(E) TYPICAL STEEL BEAM CONNECTION DETAIL**  
SCALE: 3/4"=1'-0"

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

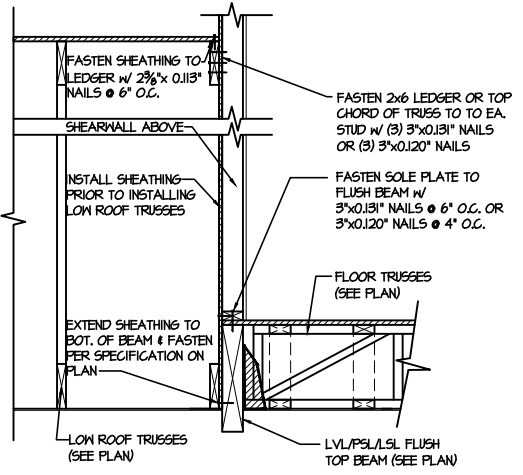
NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.



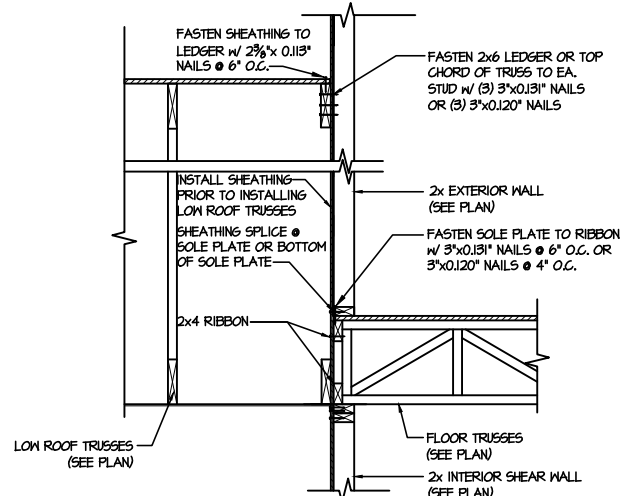
**1** SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL  
SCALE: 3/4"=1'-0" PARALLEL FRAMING



**2** SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/4"=1'-0"



**3** SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/8"=1'-0"



**4** TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL  
SCALE: 3/4"=1'-0"

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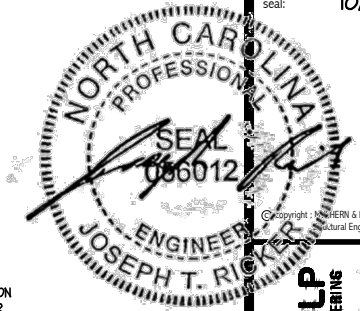
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project mgr: JTR  
drawn by: KJN  
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FRAMING DETAILS  
HONEYCUT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC



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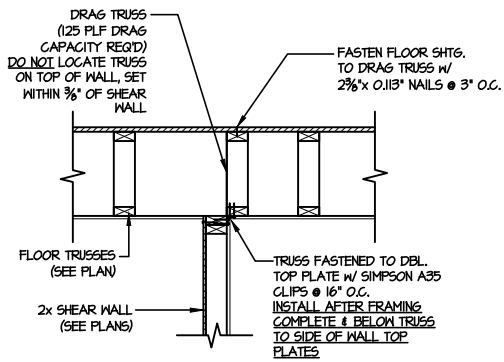
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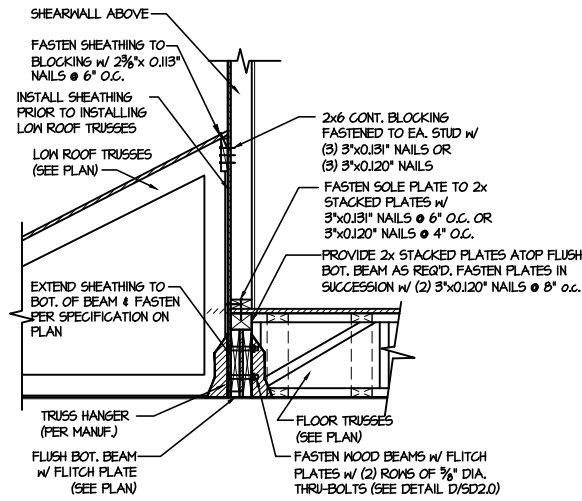
**DRB**  
**HOMES**

FRAMING DETAILS  
HONEYCUT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

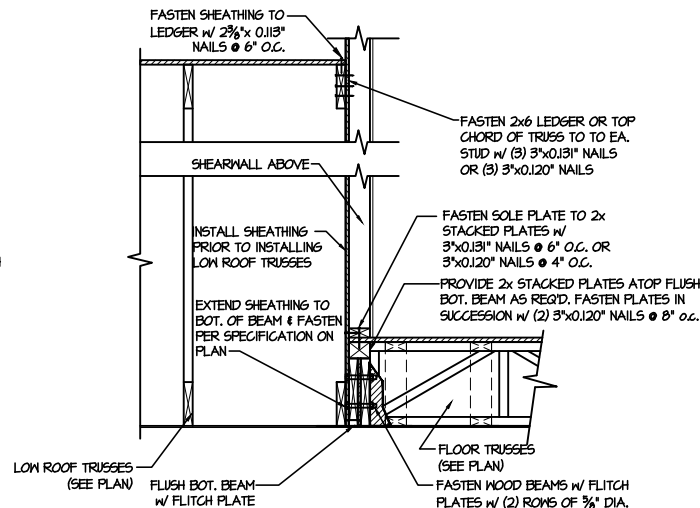
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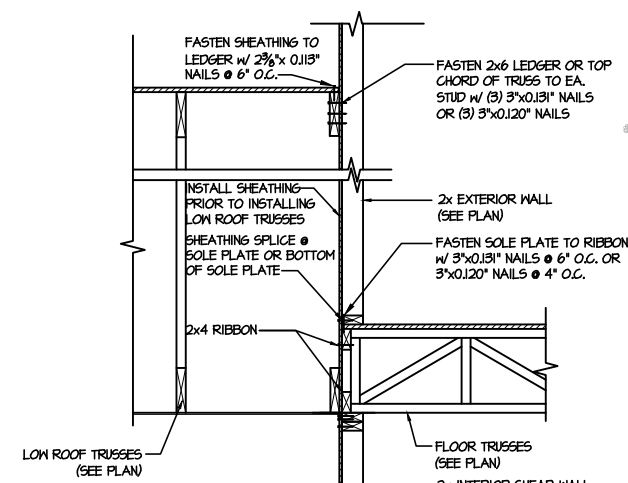
**1** SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL  
SCALE: 3/4\"/>



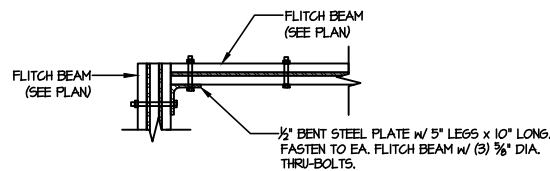
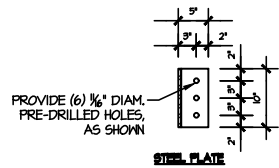
**2** SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/8\"/>



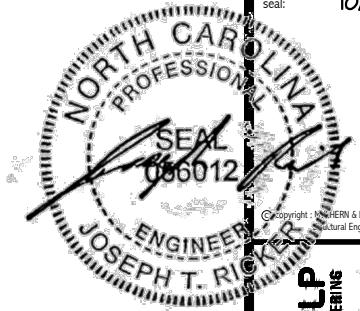
**3** SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/8\"/>



**4** TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL  
SCALE: 3/4\"/>



**4** TYPICAL FLITCH BEAM TO FLITCH BEAM CONNECTION DETAIL  
SCALE: 3/4\"/>



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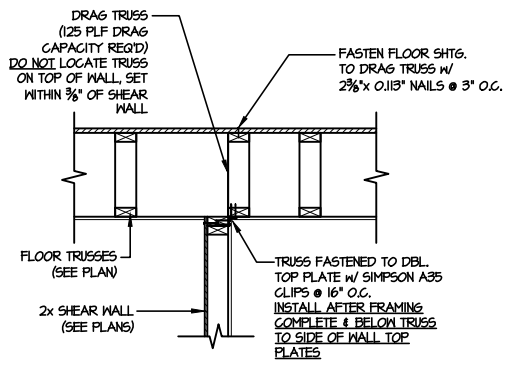
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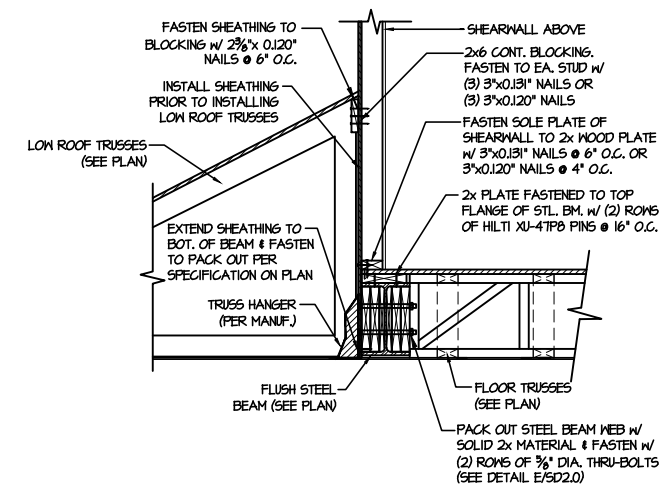


FRAMING DETAILS  
HONEYCUT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

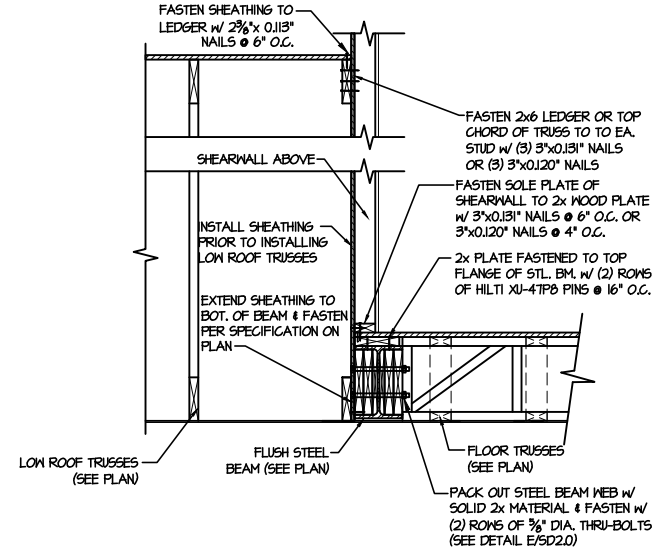
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**SD2.1C**



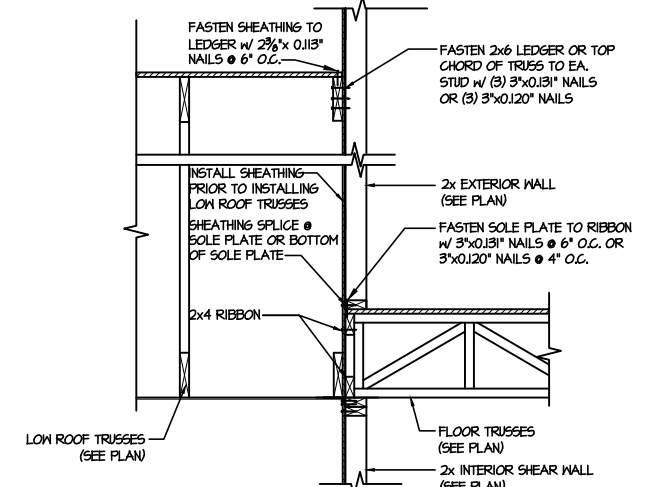
**1** SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL  
SCALE: 3/4"=1'-0" PARALLEL FRAMING



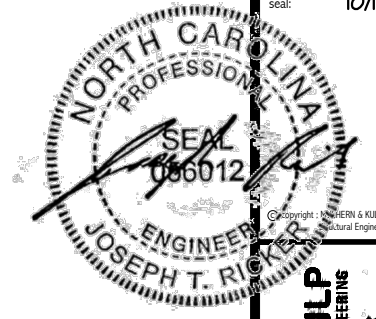
**2** SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/8"=1'-0"



**3** SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/8"=1'-0"



**4** TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL  
SCALE: 3/4"=1'-0"

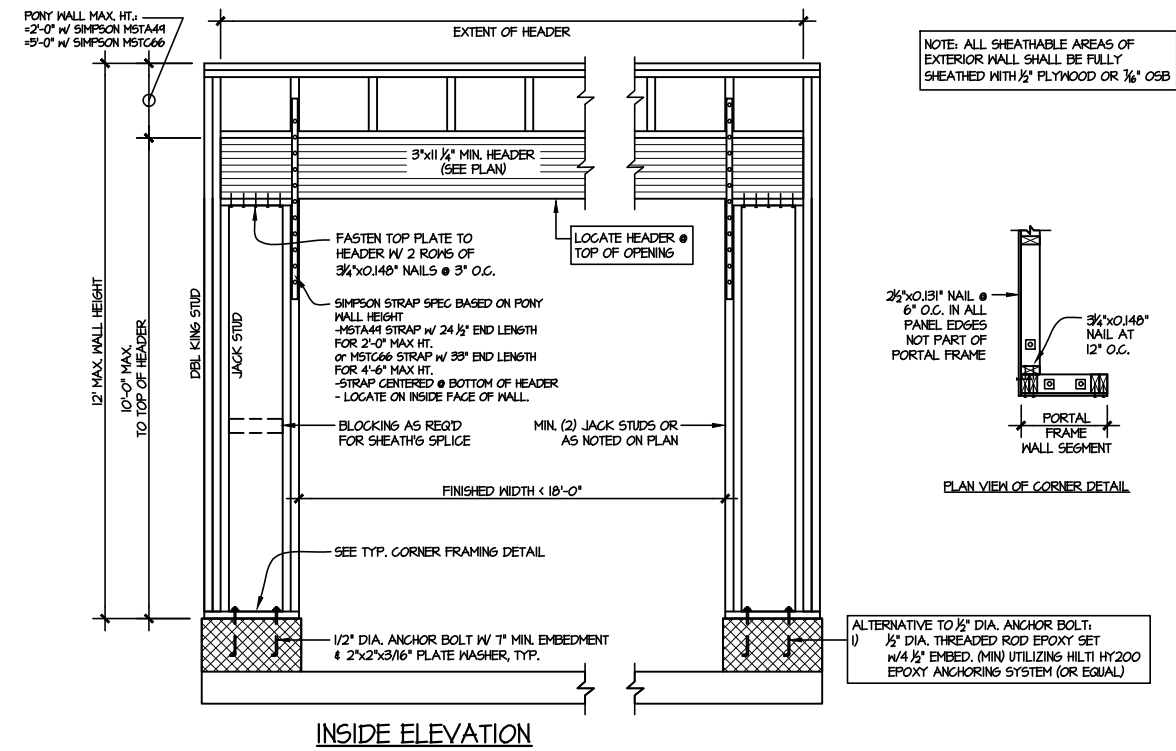
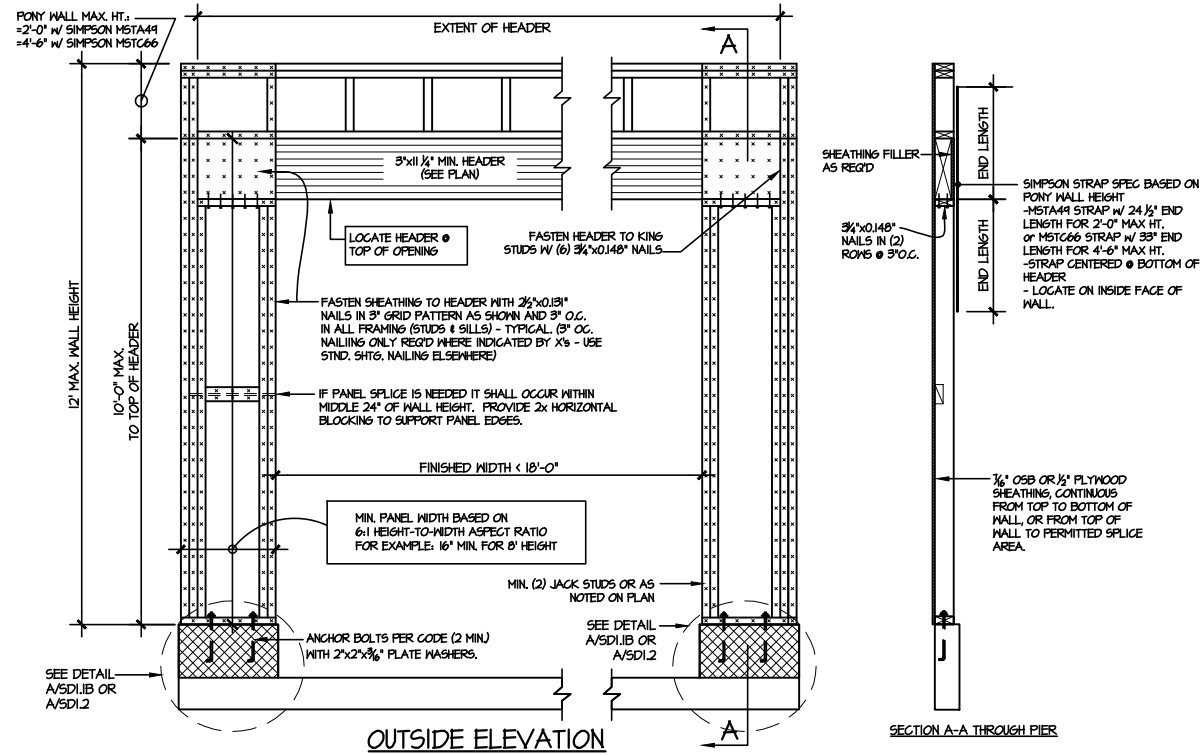


M&K project number:  
126-23047  
project mgr: JTR  
drawn by: KJN  
issue date: 10-10-24  
REVISIONS:  
date: initial:



FRAMING DETAILS  
HONEYCUT HILLS  
LOT 16 - MIDDLETON 1  
RALEIGH, NC

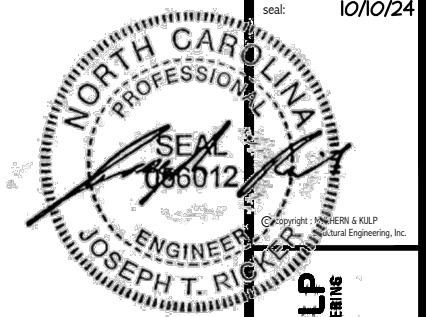
sheet:  
**SD2.2**



NOTE: ALL SHEATHABLE AREAS OF EXTERIOR WALL SHALL BE FULLY SHEATHED WITH 1/2" PLYWOOD OR 1/4" OSB

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

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



**MULHERN+KULP**  
 RESIDENTIAL STRUCTURAL ENGINEERING  
 300 Riverside Ave, Building 4 - Asheville, PA 28802  
 724-698-8888 - mulhern+kulp.com  
 NC LIC. #C-3825

M&K project number:  
 126-23047

project mgr: JTR  
 drawn by: KJN  
 issue date: 10-10-24

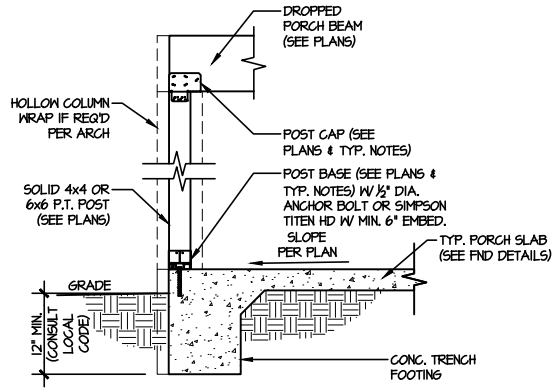
REVISIONS:

date:	initial:



FRAMING DETAILS  
 HONEYCUT HILLS  
 LOT 16 - MIDDLETON 1  
 RALEIGH, NC

sheet:  
**SD3.0**



**3 TYPICAL PORCH POST CONNECTION DETAIL**  
 SCALE: NONE SLAB ON GRADE SHOWN (RAISED SLAB SIM.)

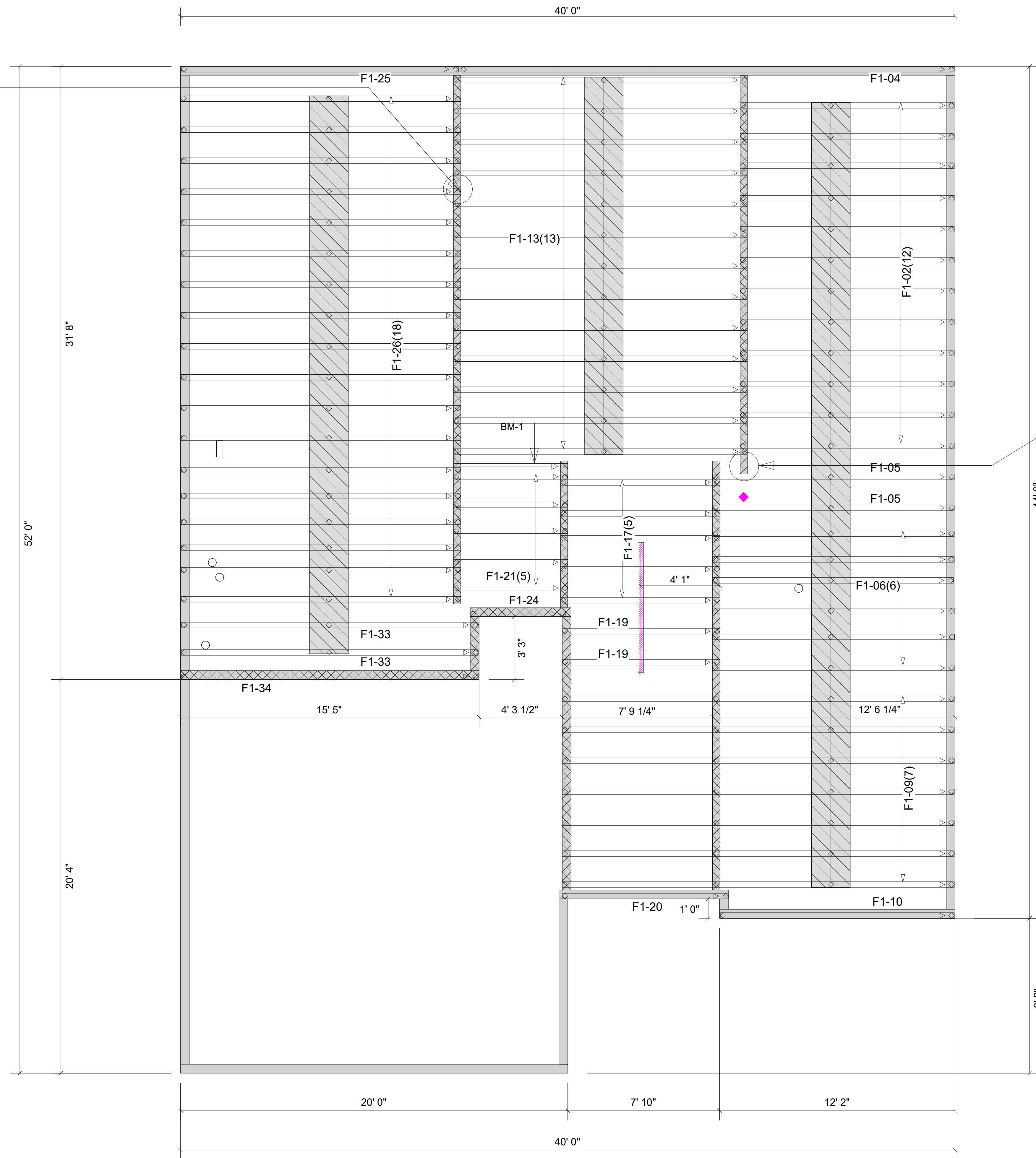


Products				
Net Qty	Plies	Product	Length	PlotID
2	2	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	6' 0"	BM-1

Floor Depth: 12"

Extreme care must be taken to not set any of these trusses backwards.

These trusses key together using a double, edgewise 2x4 ribbon board.



Block solid to the bearing to support the end reactions of the beams in the upper floor system.

▲ = 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 0.0016 HONEYCUTT HILL

Plan Information: MIDDLETON-1

FLOOR

NOT TO SCALE

Drawn By: CGT

Date: 10/01/24

Job #: 24-8632-F01

Sales Rep: KYLE GIBSON

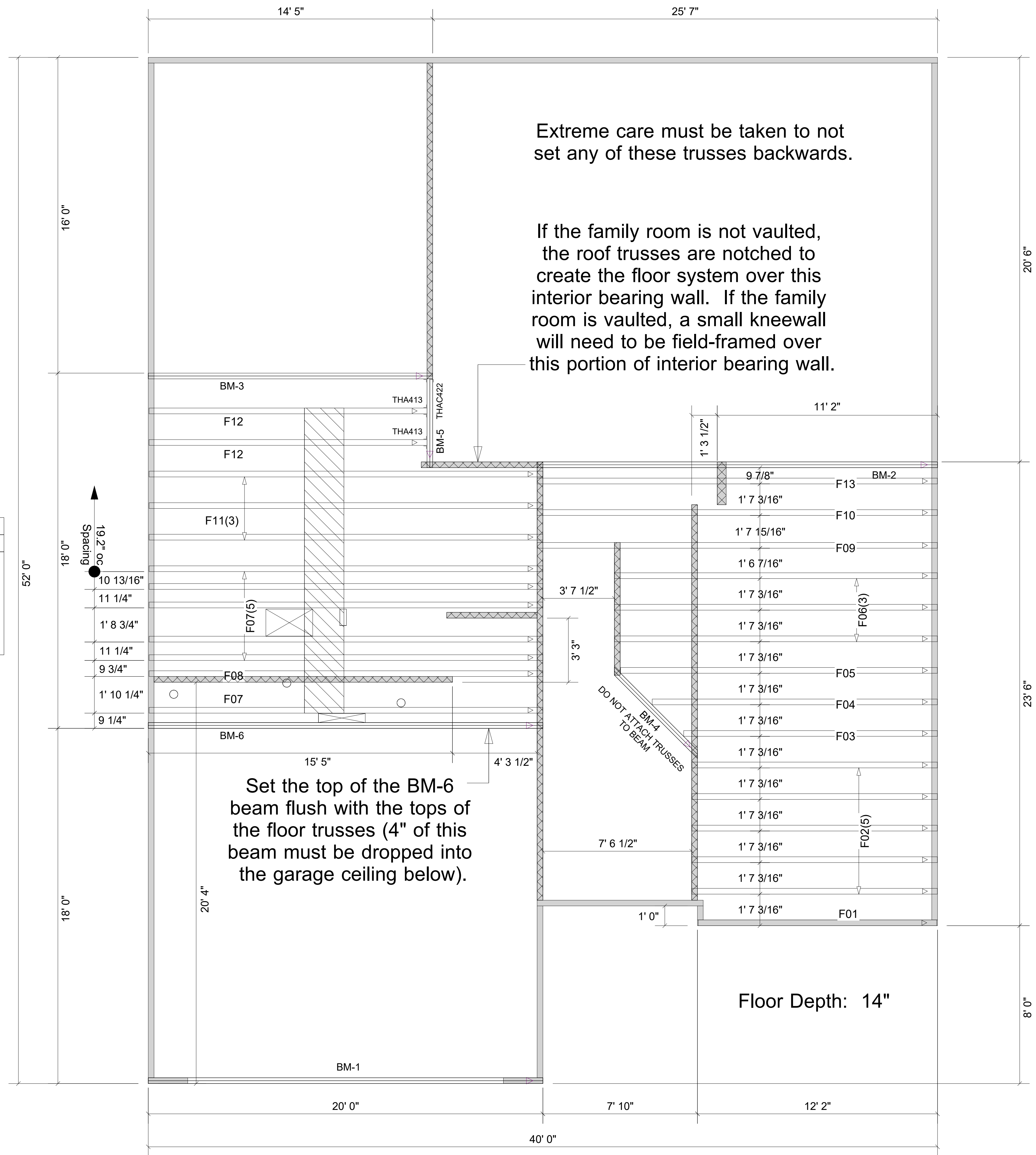
Phone: 864-304-3282

**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 ("BCSI"), 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® 2.0 3100 SP	20' 0"	BM-1	
2	2	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	22' 0"	BM-2	
2	2	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	16' 0"	BM-3	
2	2	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	8' 0"	BM-4	
2	2	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	6' 0"	BM-5	
2	2	1-3/4" x 18" VERSA-LAM® 2.0 3100 SP	20' 0"	BM-6	

Connector Summary				
Flange	Product	Manuf	Qty	
Reverse	THAC422	Simpson	1	

Truss Connector Total List		
Qty	Product	Manuf
2	THA413	Simpson



▲ = LEFT END OF TRUSS

REVISIONS:



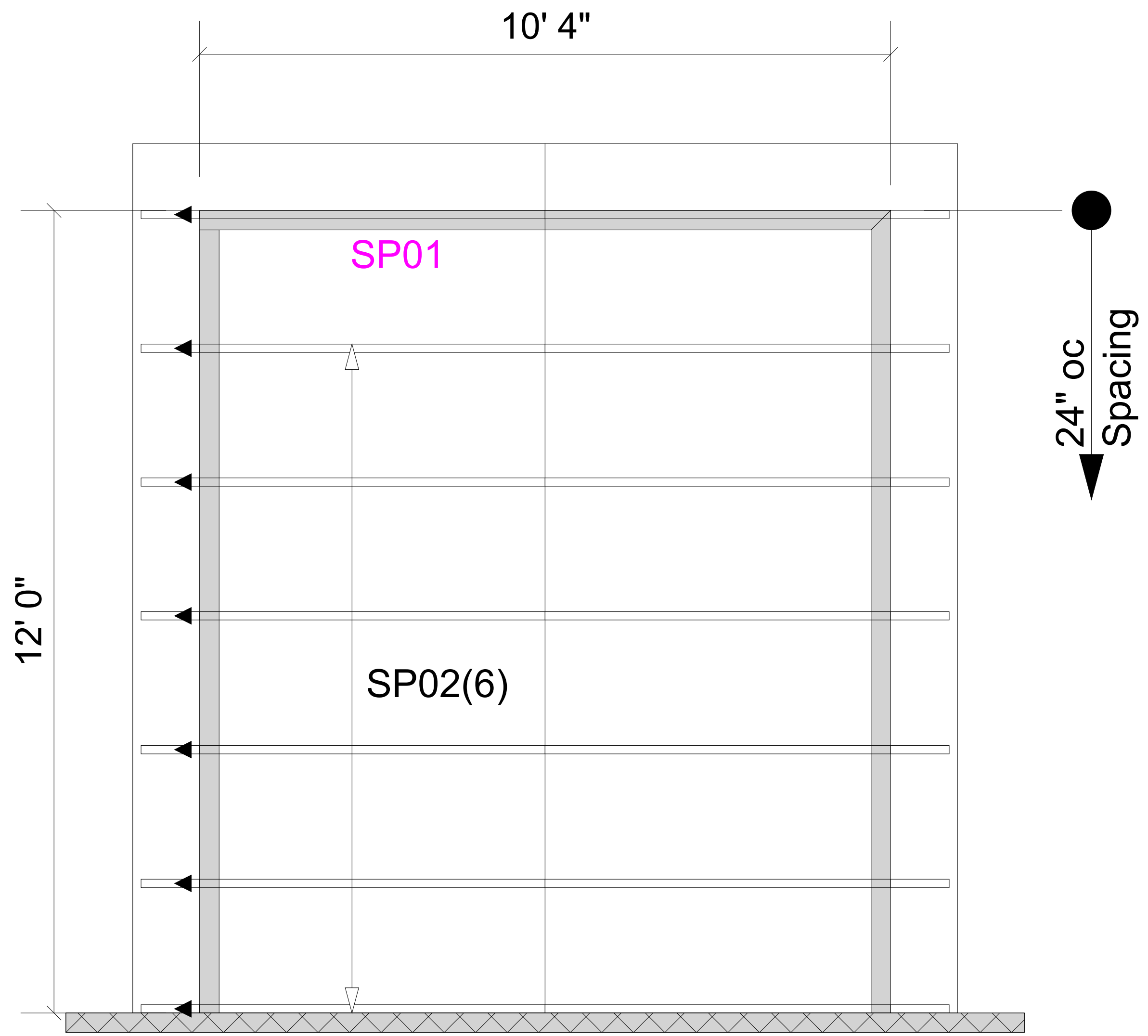
Moncks Corner/Easley, SC (800) 475-3999  
Sparta, NC (336) 372-2226

FOR PERMIT

Client: DRB GROUP-RALEIGH  
 Job: LOT 0.0016 HONEYCUTT HILL  
 Plan Information: MIDDLETON-1  
 NOT TO SCALE  
 Drawn By: CGT  
 Date: 10/01/24  
 Job #: Sales Rep: KYLE GIBSON  
 24-8632-F02 Phone: 864-304-3282

FLOOR

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▲ = LEFT END OF TRUSS

FOR PERMIT

Client: DRB GROUP-RALEIGH	
Job: LOT 0.0016 HONEYCUTT HILL	
Plan Information: MIDDLETON-1	
NOT TO SCALE	Date: 10/01/24
Drawn By: CGT	Job #: Sales Rep: KYLE GIBSON
	24-8632-R01 Phone:

REVISIONS:

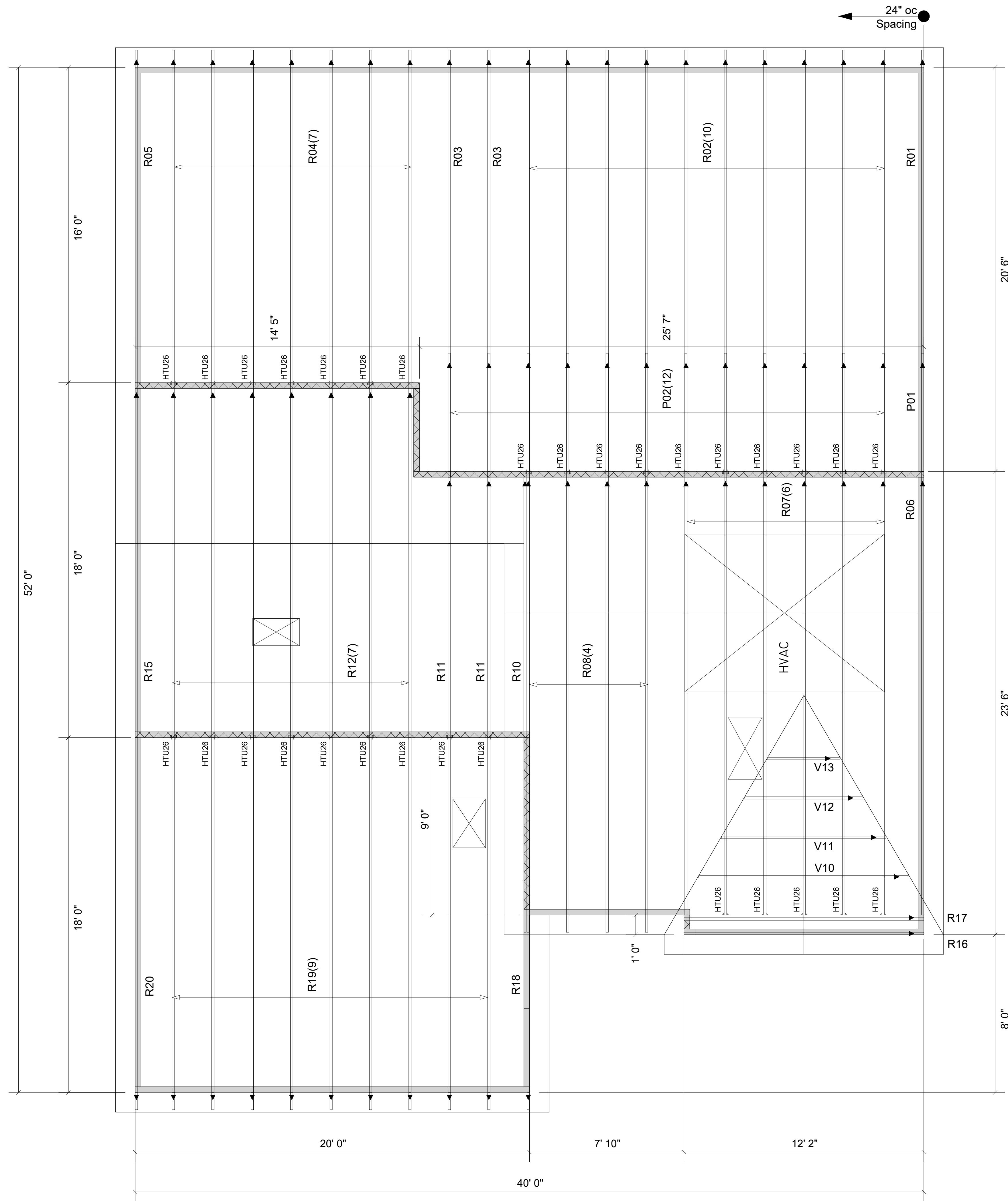


Moncks Corner/Easley, SC (800) 475-3999  
Sparta, NC (336) 372-2226

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All first-story wall heights are 9-1-8, and all second-story wall heights are 18-5-12 (based on a 14" floor truss depth, and an 8-1-8 second-story wall height), unless otherwise indicated.

Truss Connector Total List		
Qty	Product	Manuf
31	HTU26	Simpson



▲ = LEFT END OF TRUSS

FOR PERMIT

Client: DRB GROUP-RALEIGH		ROOF	
Job: LOT 0.0016 HONEYCUTT HILL			
Plan Information: MIDDLETON-1			
NOT TO SCALE	Date: 10/01/24	Drawn By: CGT	Sales Rep: KYLE GIBSON
			Phone: 24-8632-R01

REVISIONS:



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

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