# MIDDLETON-RALE

RALEIGH - LOT 00.0180 THE FARM AT NEILL'S CREEK

(MODEL# 2183)

ELEVATION 1- GR

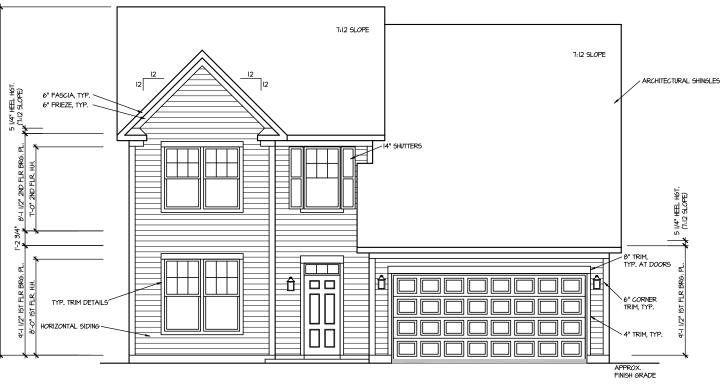
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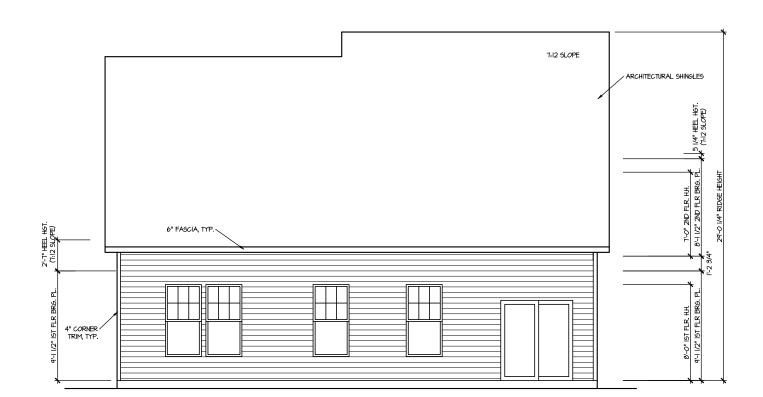
AREA CALCULATIONS  ELEVATION 1  FIRST FLOOR  GARAGE  FRONT STOOP - ELEV. 1  SECOND FLOOR  OPTIONS  4' REAR EXTENSION  2' GARAGE EXTENSION	TOTAL	HEATED 1495 SF 692 SF +160 SF	COVERED / UNHEATED 417 SF 34 SF * +40 SF	UNCOVERED
<b> </b>				
· · · · ·			•	

# 113 Appleseed Drive

LOT	SPECIFIC	
1		THE FARM AT NEILL'S CREEK
		MIDDLETON REV. RALE 2 ELEVATION 1
2	ADDRESS	113 APPLESEED DR LILLINGTON, NC 27546
-	+	
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# FRONT ELEVATION |



REAR ELEVATION I

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

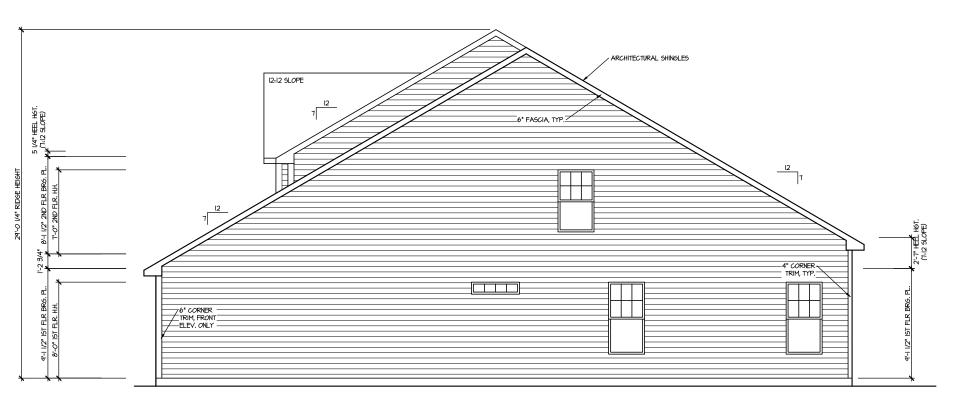
DRAWN BY:
ITS
DATE:
03/28/2025
PLAN NO.
2183



T & REAR ELEVATIONS

HOUSE NAME:
MIDDLETON
DRAWING TITLE
FRONT & REAR

SHEET No.



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



LEFT ELEVATION I

DRAWN BY: DATE: 03/28/2025 PLAN NO. 2183



ELEVATIONS HOUSE NAME:
MIDDLETON
DRAWING TITLE
RIGHT & LEFT E

SHEET No.

ROOF VENTILATION CALCULATIONS:
ROOF AREA = 300 SQ FT,
OMEAL RECIPED VENTILATION,
10 500 = 14,01 50, FT,
110 500 = 10,01 50, FT,
110 500 = 10,01 50, FT,
10 500 = LOYER VENTING. (BOTTOM 2/3 RDG)
14 LINEAR FET OF SOFFIT X 5.1 Sq. IN. = 2.49 Sq. FT.
14 ENERGY STRING. (TOP. 1/3 BD)
36 LINEAR FET OF RIDGE X ID Sq. IN = 4.5 Sq. FT.
140 Sq. T. LEWIERI SG. - 60%
10TAL ROOF VENTILATION 1.49 Sq. FT. > 1.01 Sq. FT. (RGTD)

> LINE OF SECOND FLOOR 18 LF RIDGE VENT LINE OF SECOND FLOOR ATTIC ACCESS 12:12 SL*O*PE 12:12 SL*O*PE

DRAWN BY:

DATE: 03/28/2025 PLAN NO. 2183

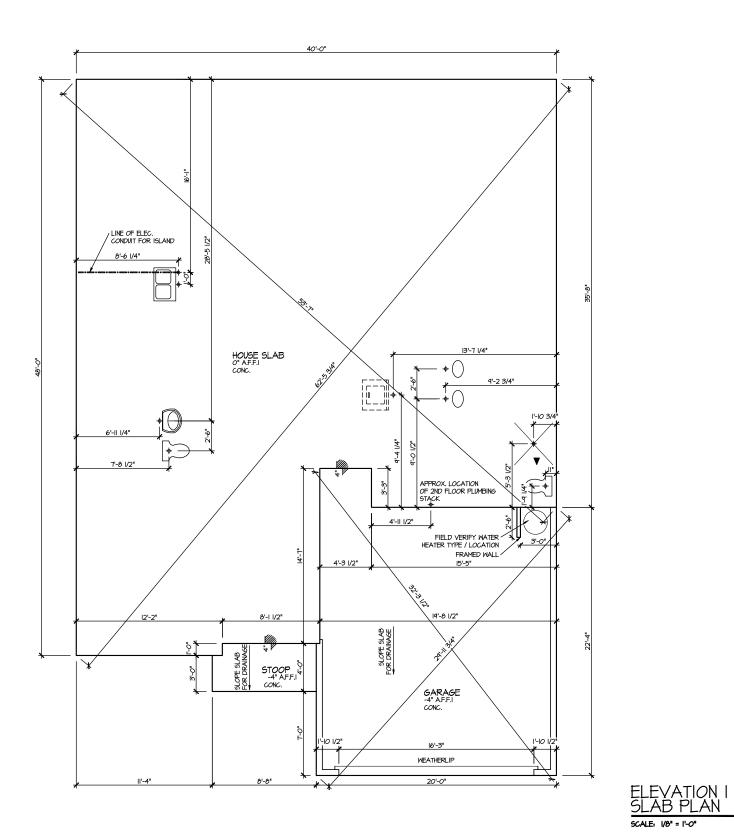


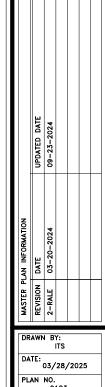
HOUSE NAME:
MIDDLETON
DRAWING TITLE
ROOF PLAN

ROOF PLAN ELEV. I

SHEET No.

AI.3





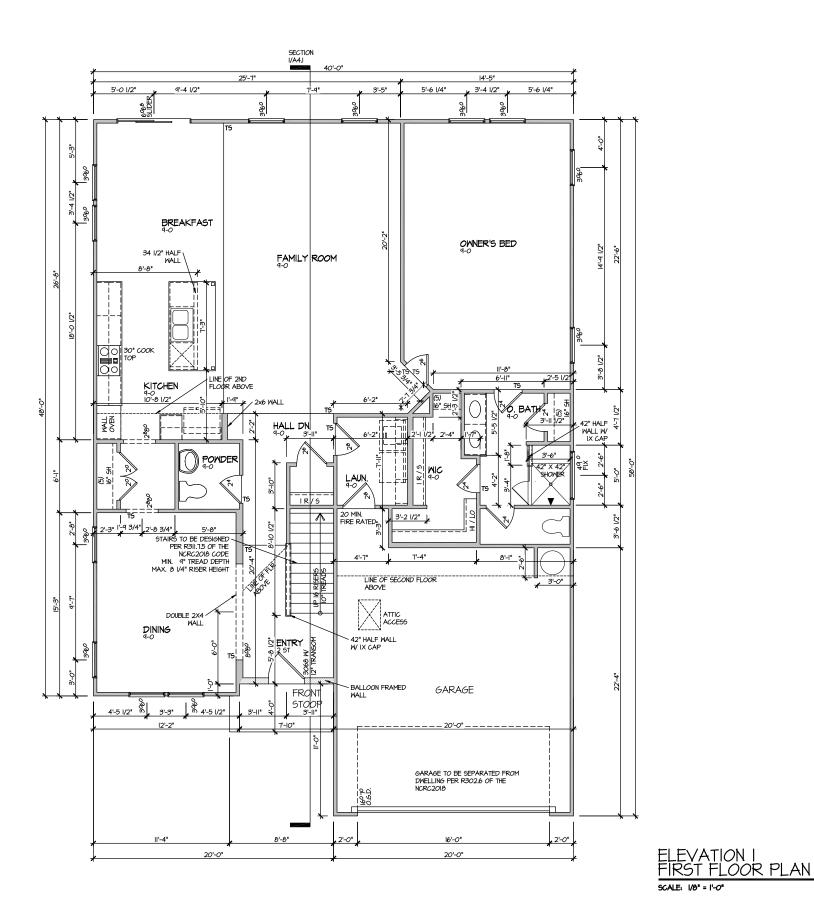
PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
SLAB PLAN

SHEET No.

A2.1



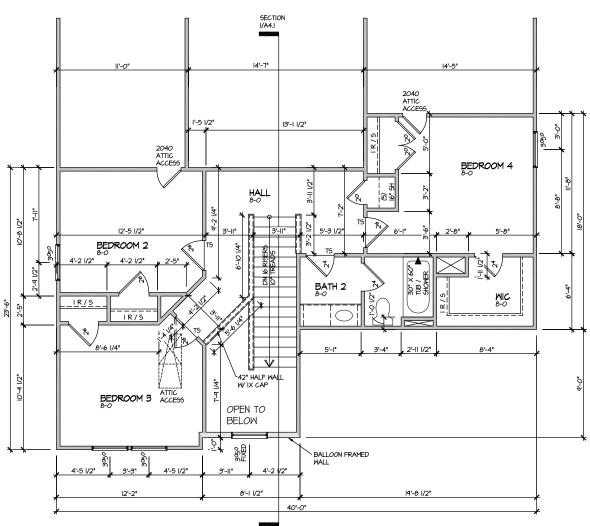
DRAWN BY: DATE: 03/28/2025

PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
FIRST FLOOR P

SHEET No. A3.1



DRAWN BY:

PLAN NO. 2183

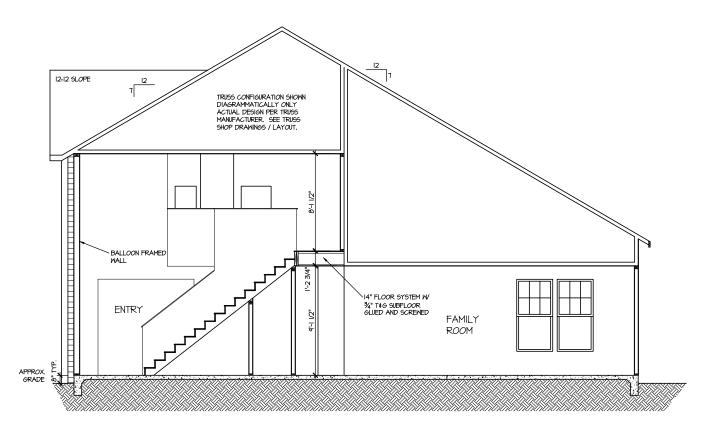
DATE: 03/28/2025

HOUSE NAME:
MIDDLETON
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No.

1

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



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

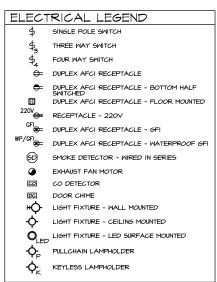
DRAWN BY: DATE: 03/28/2025

PLAN NO. 2183

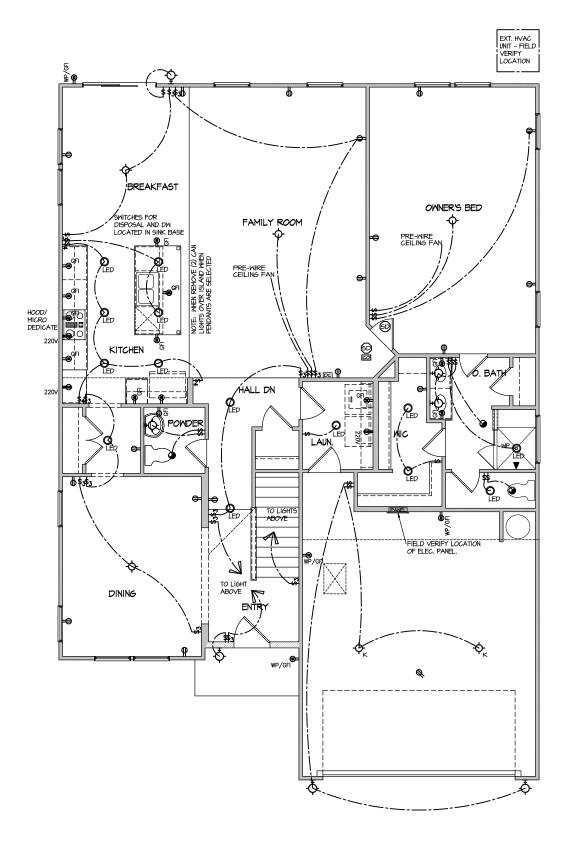


SECTION HOUSE NAME:
MIDDLETON
DRAWING TITLE
BUILDING SECTION

SHEET No. A4.1



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.



| MASTER PLAN INFORMATION | WASTER PLAN INFORMATION | REVISION | DATE | 2-RALE | 03-20-2024 | 09-23-2024 |

DRAWN BY: ITS DATE: 03/28/2025 PLAN NO. 2183



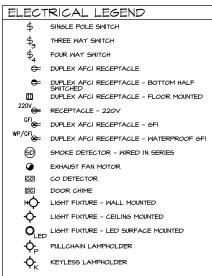
ILE LOOR ELECTRICAL

HOUSE NAME:
MIDDLETON
DRAWING TITLE
FIRST FLOOR

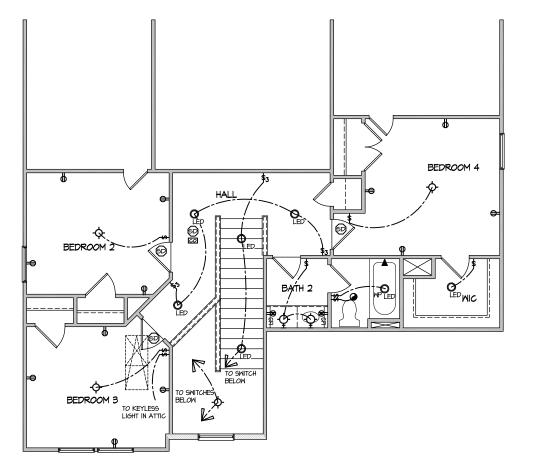
SHEET No.

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



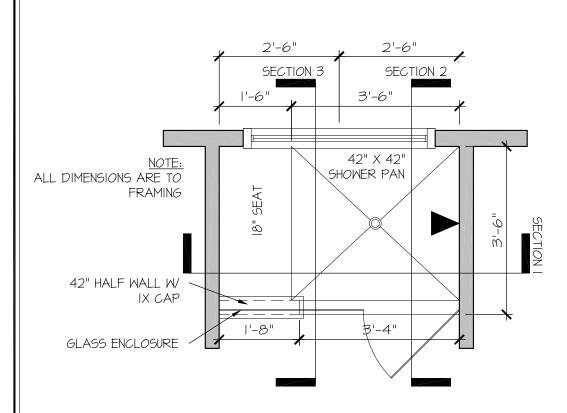
NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL PONER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



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

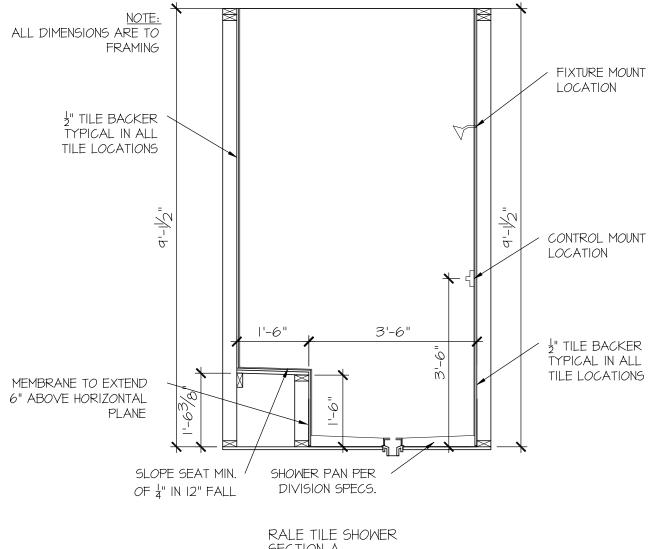
HOUSE NAME:
MIDDLETON
DRAWING TITLE
SECOND FLOOR

SHEET No.



RALE TILE SHOWER 42" X 42" W 18" SEAT

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



SECTION A

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

CONSULTANT LOGO

DRAWN BY: L. BEAVERS DATE: 9/1/22 PLAN NO.

11 X 17 SCALE

24 X 36 SCALE



DETAIL SHOWER RALE

SHEET No.



SEAL

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

PLAN NO.

24 X 36 SCALE

~ "

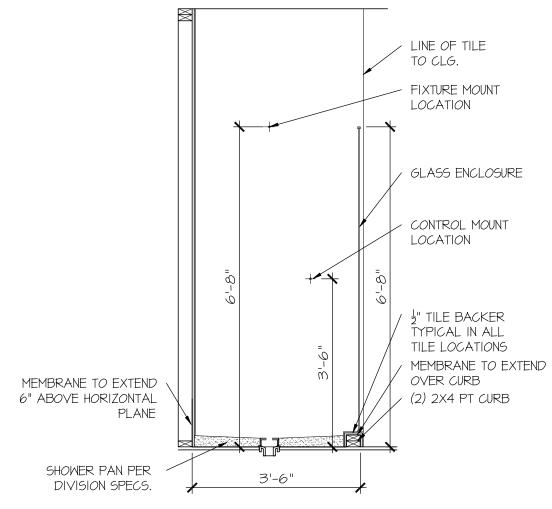


E ILE SHOWER DETAIL

OUSE NAME:

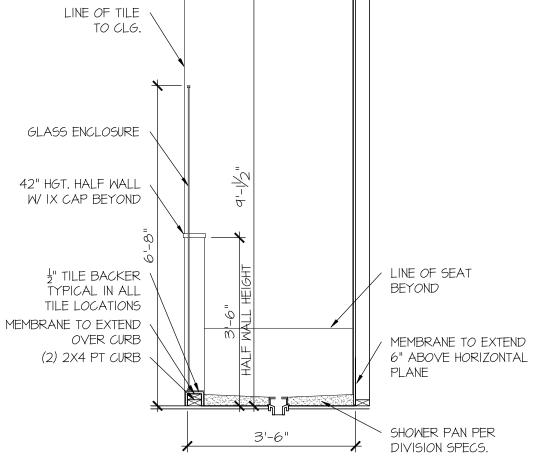
SHEET No.

P||.2



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





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

# **FOUNDATION**

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE 12" MAX FROM PLATE ENDS - LITH 17ING
- (CONC.) 15" MIN EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- (REFER TO DETAILS FOR IO' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
  - 4,000 psi: ...... FOUNDATION WALLS 2,500 psi: ...... FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: ...... GARAGE & EXTERIOR SLABS ON GRADE
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- . 9' OR IO' HEIGHT (AS NOTED ON PLANS)
- TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (9 ½" FOR 10" THICK WALL). BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE
- CLASSIFICATIONS (SC, ML-CL, OR CL). BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT. FND. WALL WITH 2" CLEAR. REINFORGEMENT
- SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS • FOR OPENINGS UP TO 36", PROVIDE MINIMUM IO" CONCRETE
- DEPTH OVER OPENING OR (3)2x10 W (2)2x6 JACK STUDS, U.N.O. LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-O" OC (MAXIMUM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I.I RATIO) WITH A MAXIMIM OF I.I.S PATIO
- · 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 & 530.1.
- 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 CRAW SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY

# GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.
- DESIGN LOADS ROOF

DEAD = 7 PSF T.C., 10 PSF B.C. LOAD DURATION FACTOR = 1.25

LIVE = 40 PSE (30 PSE @ SLEEPING AREAS) DEAD = 10 PSF (1-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 PRESSURE (TO BE VERIFIED BY BUILDER)

# GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS ALL NAILS SPECIFIED ARE MIN NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL
- EXT & INT BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, UN.O.
   WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KILN-DRIED), ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY, CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED. WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX., U.N.O.)
  - . HEADERS IN NON-LOAD BEARING WALLS SHALL BE (1)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15). 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=2.0xl0^6 ps
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XI0^6 PSI M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES RESULTING FROM OR RELATED TO ANY BUILDING COMPONENT IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR
- FOR 2 & 3 PLY BEAMS OF FOUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x31/5" SIMPSON SDS SCREWS (OR 3½" TRUSSLOK SCREWS) @ 16" O/C, USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE, USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/2"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK 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 SCREW 2" FROM EDGE, A SOLID 7" BEAM IS ACCEPTABLE.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM. - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE
- NUMBER OF JACK STUDS REQUIRED, U.N.O., ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"X0.I3I"
- NAILS @ 24" O.C. (MIN.), EACH PLY. PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND./BEARING. BLOCKING TO MATCH POST ABOVE
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('HILTI' X-CF PINS OR EQUAL) @ 16" O.C. STAGGERED, OR I/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABM44Z BASE, U.N.O.

# FLOOR FRAMING

- -JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED 1 /480 LIVE LOAD DEELECTION 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 1" x 0 131" NAIL S @ 6"04 @ PANEL EDGES & @ 12"04 FIELD
- 2 3" × 0 120" NAILS @ 4" OC @ PANEL EDGES & @ 8" OC FIELD
- 2 3" x 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 EACH ROOF TRUSS TO TOP PLATE W SIMPSON H2.5T CLIP (OR APPROVED EQUAL.) © ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO:
  - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) TRUSS VERTICALS w/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- w/ 2 1 x 0.131 NAILS @ 6 0c. @ PANEL EDGES & @ 12 0.C. FIELD.
- w/ 2 🐉 x 0.120" NAILS 🙍 4"o.c. 🙍 PANEL EDGES 🕻 🗖 8" O.C. FIELD.
- W/ 2 🖁 X O.II3" NAILS @ 3"O.C. @ PANEL EDGES \$ @ 6" O.C. FIELD.

# HOLD-DOWN SCHEDULE

SYMBOL	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		
<b>→</b> HD-3	SIMPSON STHDI4/STHDI4RJ		

\* IJTII 17F THE SSTB24 ANCHOR BOLT & ALL MONOSI AB & INTERIOR RAISED FOOTING THICKNESS REQUIRED.

EPOXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB CONDITIONS ONLY: UTILIZE SIMPSON 'SET' EPOXY SYSTEM TO FASTE HREADED ROD INTO CONCRETE FOUNDATION, PROVIDE 10" (FOR 5/8" DIA.) OR 15" (FOR 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. INSTRUCTIONS. MINIMUM 16" FOOTING THICKNESS REQ'D.

# ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF CONCRETE.

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED DISTS 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/LOISTS OR GIRDER TRUSSES/ELUS BEAMS DO NOT EXCEED THE FOLLOWING:

- A. ROOF TRUSSES: I/4" DEAD LOAD
- B. 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" DEAL LOAD. (NOT DIFFERENTIAL DEFLECTION)

# LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: ) MPH WIND IN 2018 NCSBC:RC

(120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B. RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10. AS PERMITTED BY R301.13 OF THE 2018 NCSBC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC. IF THE PARAMETERS OF SECTION R60212 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST

THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

# EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 % "XO.II3" NAILS ● 6" O.C. AT EDGES & ● 12" O.C. IN THE PANEL FIELD. TYP, U.N.C
- HORIZONTAL BLOCKING OF EXT WALL SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 ½" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD.

## BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 %" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 %" 16 GA STAPLES (%" 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 FDGES & FDGE 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.

- 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 SHEARWAL OR 3" O.C. OSB SHEARWALL INDICATES HOLDOWN BELOW

# VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE	
3'-0" 20 FT. MAX		L3"x3"x/4"	
	3 FT. MAX	L3"x3"x¼"	
6'-0"	I2 FT. MAX	L4"x3"x¼"	
	20 FT. MAX	L5"x3½"x%"	
	3 FT. MAX	L4"x4"x¼" *	
8'-0"	I2 FT. MAX	L5"x3½"x%"	
	I6 FT. MAX	L6"x31½"x3%"	
9'-6"	I2 FT. MAX	L6"x3½"x%"	
16'-0"	2 FT. MAX	L7"x4"x½" **	
10-0	3 FT. MAX	L8"x4"x½" **	

# LLIMIELS: SHALL SIPPORT 2 ½" - 3 ½" VENEER W 40 PAF MAXIMUM MEIGHT. 16' SHALL HAVE 4" MIN. BEARING 16' SHALL HAVE 5" MIN. BEARING 16' SHALL NOT DE FASTENED BACK TO HEADER. 16' SHALL DE FASTENED BACK TO MODD HEADER. IN WALL @48'06.

- w/ ½" DIA, x 3 ½" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.
- IAX, VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE
- OPENING.
  VILLINITELS SHALL BE LONG LEG VERTICAL.
  HEN SUPPORTING VENEER (3" HIDE THE EXTERIOR TOE OF THE
  HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 %," HIDE OVER
  THE BEARING LENGTH CALLY, THIS IS TO ALLOW FOR MORTAR JOINT

e structural plans for any lintel condition not

# LEGEND

- IIIIIIIII INTERIOR BEARING WAI I
- BEAM / HEADER
- ■ INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- \* INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

# NON-BEARING HEADER SCHEDULE

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

# NOTES:

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

# ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	LVL OPTION PSL OPTION LSL OPTION FLITCH OPTION		STEEL OPTION	
001	(2)13/4"x117/6" - H	3½"×II%" - H	(2)1¾"x11%" - H	(2)2xl2 + (I) ½"xll½" STEEL FLITCH PLATE - H	N/A
00IA	(2)13/4"x117/6" - H	3½"×II%" - H	(2)1¾"x11%" - H	(2)2xl2 + (l) 片"xll片" STEEL FLITCH PLATE - H	N/A
002	(2)194"x18" - FT	5¼"xl8" - FT	N/A	(3)2xl2 + (2) 片"xll片" STEEL FLITCH PLATES - FB	WI2xI9 - F
003	(2)13/4"×14" - F	3½"x14" - F	(2)19/4"x14" - F	(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
004	(2)134"×14" - F	3½"xl4" - F	(2)13/4"×14" - F	(2)2xi2 + (I) ¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
005	(2)13/4"×14" - F	3½"x14" - F	(2)19/4"×14" - F	(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
006	(2)13/4"×14" - F	3½"x14" - F	(2)19/4"×14" - F	(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
001	(2)1¾"×11%" - F	3½"x11%" - F	(2)1¾"x11¾" - F	(2)2xi2 + (I) ¼"xII¼" STEEL FLITCH PLATE - F	WI0x12 - F
008	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xi2 + (I) ¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
004	(3)13/4"x18" - FT	514"×18" - FT	N/A	(4)2xl2 + (3) ½"xll¼" STEEL FLITCH PLATES - FB	WI2x26 - F
010	(3)13/4"×20" - FT	5¼"×20" - FT	N/A	(4)2xl2 + (3) %"xll以" STEEL FLITCH PLATES - FB	WI2x35 - F
OII	(2)13/4"×113/6" - FB	3½"xII%" - FB	(2)13/4"×14" - FB	(2)2xl2 + (I) ¼"xll¼" STEEL ELITCH PLATE - EB	WIOxI2 - 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"XO.120" NAILS @ 8" O.C.
- FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN
- PLATES IN SUCCESSION W/ (2) 3"x0.120" NAILS @ 8" O.C.

4/4/2 H CAR SESSIO

**S**ENSINE ERN+



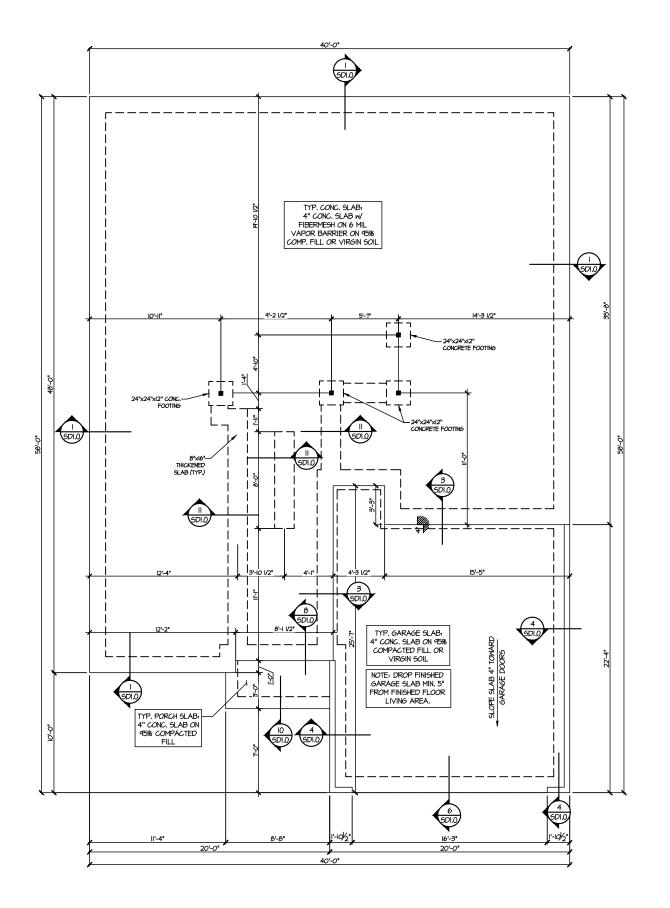
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REVISIONS initial:



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AT NI MIDDLETG NC ARM LOJ 



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

SEAC SOUTH SERVARILE CONTINUES AND SEAC SOUTH SERVARILE STREET, Inc.

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
STORMAGNA PARTING TO THE PROPERTY OF THE PROPE

M&K project number:

126-22076 project mgr: JTR

project mgr: JTR drawn by: JAD issue date: 04-02-25

REVISIONS:

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ANS CREEK

# LEGEND

- IIIIIII 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

FILE: RLH - Neil's Creek - Lot 180 - Structurals DATE: 4/4/2

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FARM AT NEIL'S (LOT 180 - MIDDLETON 1

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MULHERN+KU

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Y M&K project number

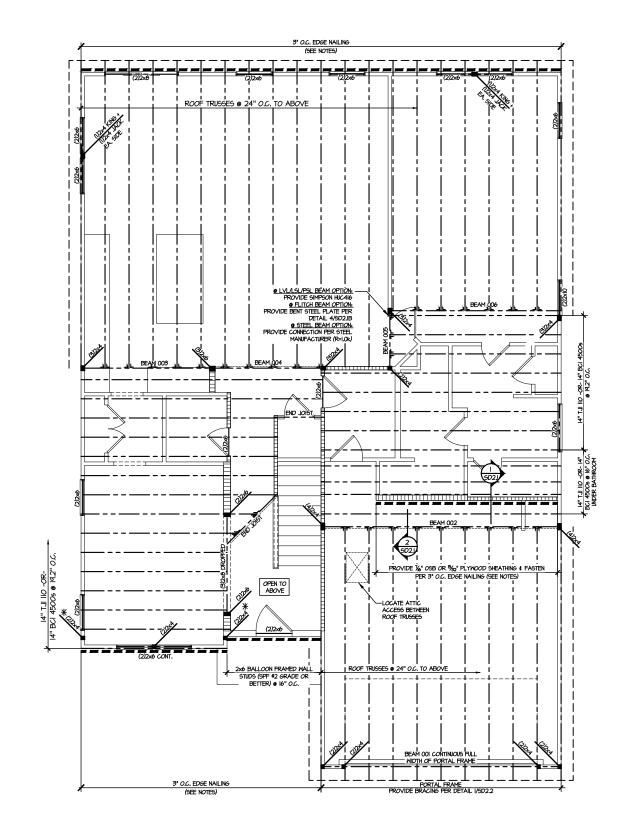
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**JTR** drawn by: issue date: 04-02-2

REVISIONS: initial:

REEK  $\Box$ NEIL'S

AT FARM LOT 180 - N RALEIGH, N



# LEGEND

- IIIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
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REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

## BEAM NUMBER LVL OPTION PSL OPTION STEEL OPTION LSL OPTION (2)2xl2 + (l) ½"xll¼" STEEL FLITCH PLATE - H 001 (2)13/4"×117/6" - H 3½"xII%" - H (2)2xl2 + (l) ½"xll½" STEEL FLITCH PLATE - H OOLA (2)134"x1136" - H 3½"xII%" - H (2)13/4"×113/6" - H N/A (3)2xi2 + (2) 以"xi以" STEEI FLITCH PLATES - FB 002 (2)13/4"x18" - FT WI2xI9 - F 51/4"x18" - FT N/A 003 (2)2xl2 + (l) 片"xll片" STEEL FLITCH PLATE - FB (2)13/4"×14" - F (2)13/4"x14" - F 36"x14" - F WI2xI4 - F 004 (2)13/4"x14" - F (2)13/4"×14" - F WI2xI4 - F 36"xI4" - F (2)2xl2 + (l) ¼"xll¼" STEEL FLITCH PLATE - FB 005 (2)13/4"×14" - F 3½"x14" - F (2)2xl2 + (l) ¼"xll¼" STEEL FLITCH PLATE - FB 006 (2)13/4"×14" - F 3½"xl4" - F (2)13/4"×14" - 1 (2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - F 001 (2)13/4"x117/4" - F 3½"xII%" - F (2)|%"x||%" - F MIOxI2 - F 008 (2)2xl2 + (l) 从"xli以" STEEL FLITCH PLATE - FB (2)|3/4"x|4" - F (2)13/4"×14" - 1 36"xI4" - F WI2xI4 - F 4)2x12 + (3) ½"x1¼" STEEL FLITCH PLATES - FB 009 (3)134"x18" - FT WI2x26 - F 51/4"x18" - FT 010 (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATE - FB (2)13/4"x14" - FB WIOxI2 - FB (2)13/4"x113/6" - FB

ENGINEERED BEAM MATERIAL SCHEDULE

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

- "J" INDICATES DROPPED DEPAM "I" INDICATES DROPPED OPENING HEADER
  REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
  REFER TO DETAIL E/SD2.0 FOR TYPICAL SITEL BEAM CONNECTIONS
  FOR FLUSH TOP DEAMS PROVIDE 28 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.

2ND FLOOR/LOW ROOF FRAMING PLAN

4/4/25 H CAR SEPH T. RI

MUCHERN+KULP

RESIDENTIAL STRUCTURAL ENSINEERING

STRUCTURAL ARTINITY THE PROPERTY OF THE PROP Y

M&K project number: 126-22076

JTR drawn by: JAD issue date: 04-02-2

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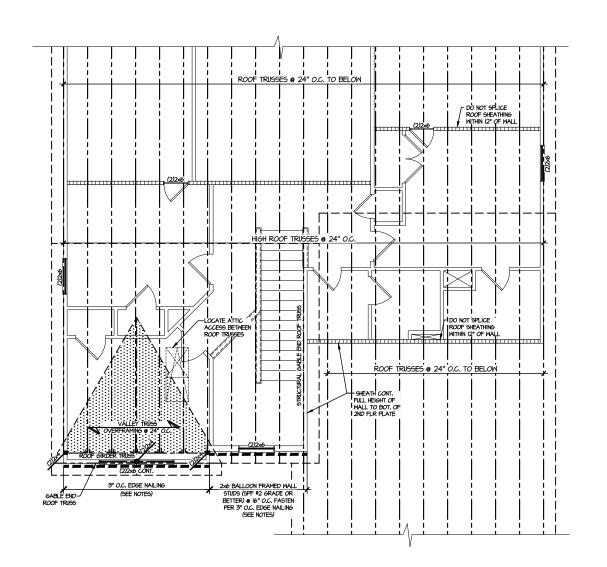
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# LEGEND

- IIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- ullet = ullet INDICATES SHEAR WALL & EXTENT
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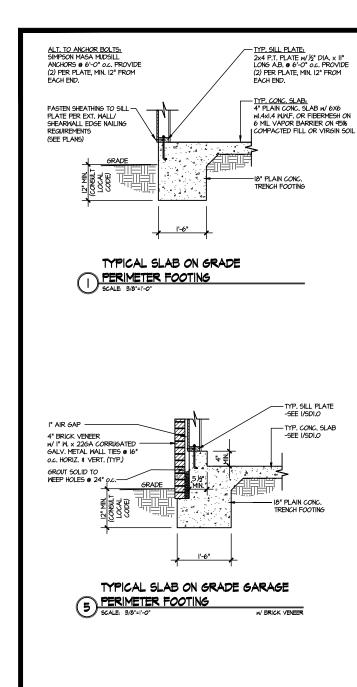
REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

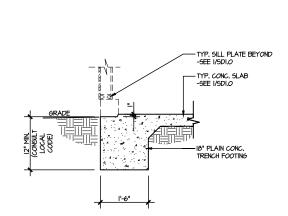


HIGH ROOF FRAMING PLAN SCALE: 1/8"=1'-0"

FARM AT NEIL'S (LOT 180 - MIDDLETON 1 ROOF **S3.0** 

FRAMING P





TYPICAL SLAB ON GRADE GARAGE

6 ENTRY @ PERIMETER FOOTING
SCALE: 3/8"=1"-0"

I" AIR GAP

GROUT SOLID TO WEEP HOLES @ 24

4" BRICK VENEER w/ I" W. x 22GA CORRUGATED GALV. METAL WALL TIES

@ 16" o.c. HORIZ. & VERT. (TYP.)

GRADE

TYPICAL SLAB ON GRADE

PERIMETER FOOTING

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



GARAGE INTERIOR

TYP. GARAGE SLAB: -4" CONC. SLAB ON 95% COMPACTED FILL OR VIRGIN SOIL

TYP, SILL PLATE -SEE I/SDI.O

- TYP. CONC. SLAB

-18" PLAIN CONC.

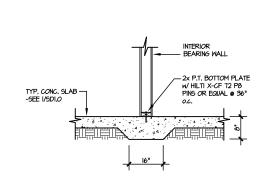
-TYP. PORCH SLAB -SEE 4/SDI.O

COMPACTED

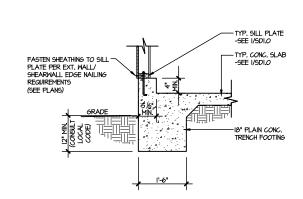
12" MIN, CONC TRENCH FOOTING

BACKFILL

-SEE I/SDI.O



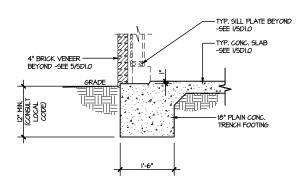




TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

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





TYPICAL MONOLITHIC INTERIOR

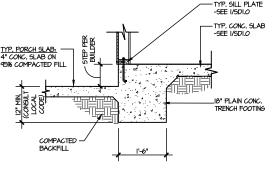
3 SCALE 2/4

HOUSE INTERIOR

- TYP. SILL PLATE -SEE I/SDI.O

-TYP, CONC, SLAB -SEE I/SDI.O

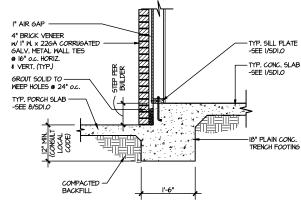
TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO SCALE: 3/8"=1'-0"



WHERE CRACKS ARE BETWEEN SAWJITS -CONC. SLAB -SEE PLAN

-LOCATE JOINTS @ SLAB CORNERS & OTHER AREAS

TYPICAL CONTROL JOINT SCALE: 9/8"=1"-0" LOCATE @ 15'-O" o.c. MAX, OR CORNERS WHERE CRACKS LIKELY TO DEVELOP



TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO

TYPICAL FOOTING @ PORCH SLAB

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

CUT EVERY OTHER WIRE OF W.W.F. @ CONTROL JOINT

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

I" DEEP SAW CUT CONTROL JOINT WITHIN 24 HOURS OF POUR MID-WAY INTO SLAB

NEIL N O

ATARM LOT

4/4/2

ERN+KU

M&K project number: 126-22076

frawn by:

REVISIONS

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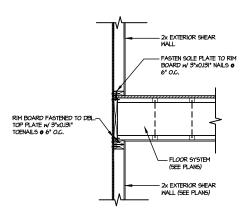
OFESSIO

# TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

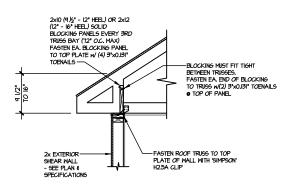
SCALE: 9/8"=1"-0" HEEL HEIGHT LESS THA

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

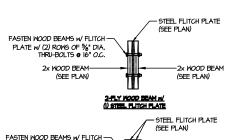


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

SCALE: 3/8'-11-0'

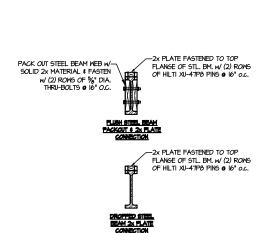


# TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9.) HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D

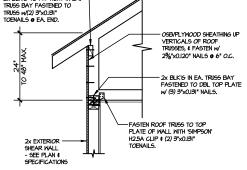


PLATES W/ (2) ROWS OF 56" DIA. THRU-BOLTS @ 16" O.C. (SEE PLAN) (SEE PLAN) 2x WOOD BEAM -

TYPICAL FLITCH BEAM CONNECTION DETAIL
8CALE 944-91-0\*

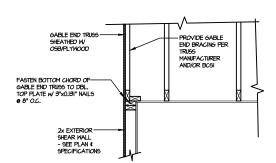


TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 944-1-07



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS

SCALE: 3/8':|'-0' HEEL HEIGHT UP TO 48" MAX.



TYPICAL GABLE END DETAIL

SCALE: 3/8°=1'-0"

Y

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RESIDENTIAL STRUCTURAL ENGINEERING

4/4/25

H CAR

SEPH T. R

M&K project number: 126-22076

**JTR** drawn by: **JAD** issue date: 04-02-2

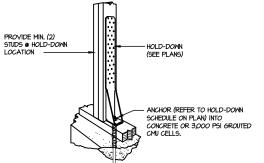
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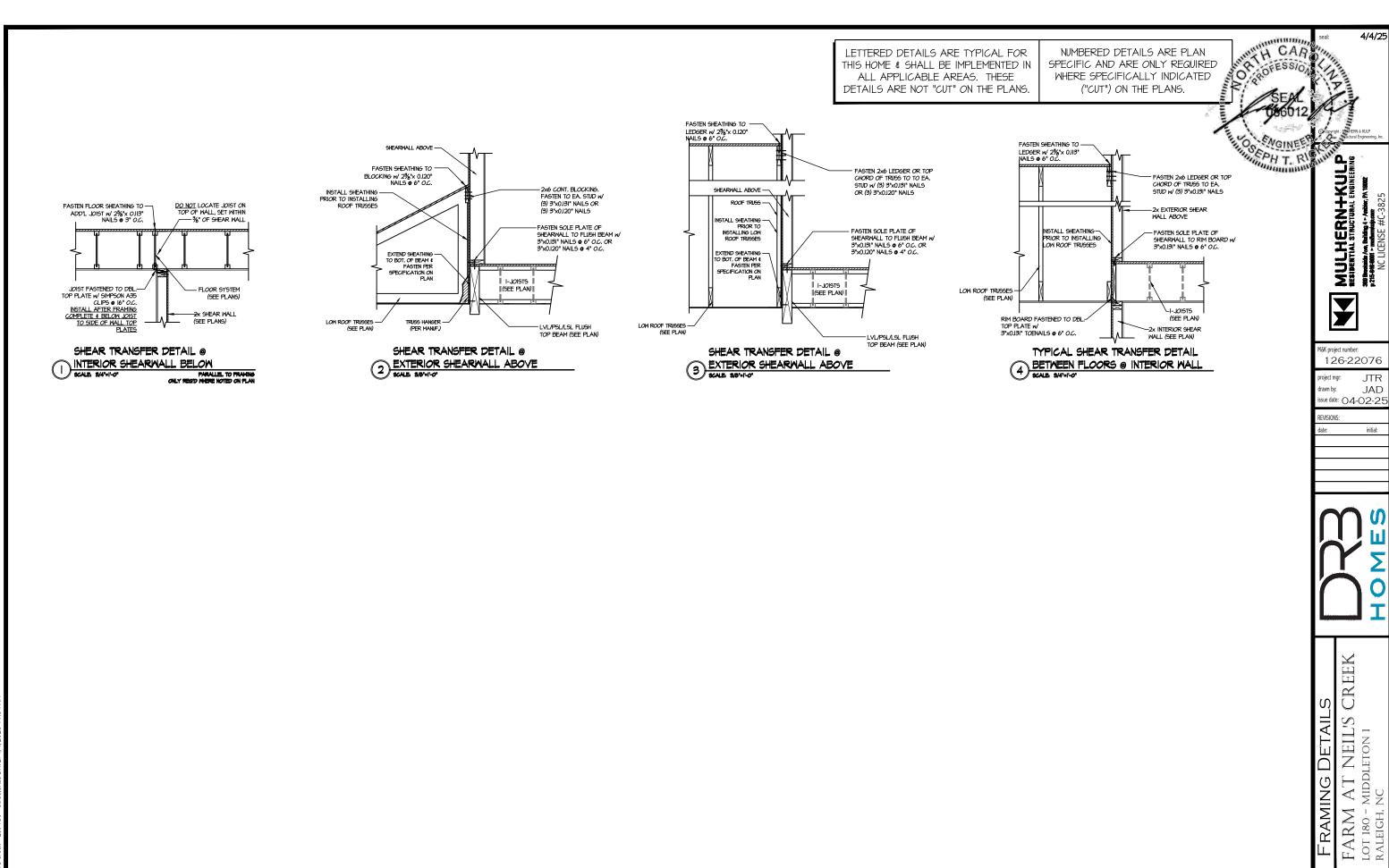
**DETAIL** AT NEIL
MIDDLETON 1
NC Ŋ FARM LOT 180 - N RALEIGH, N

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



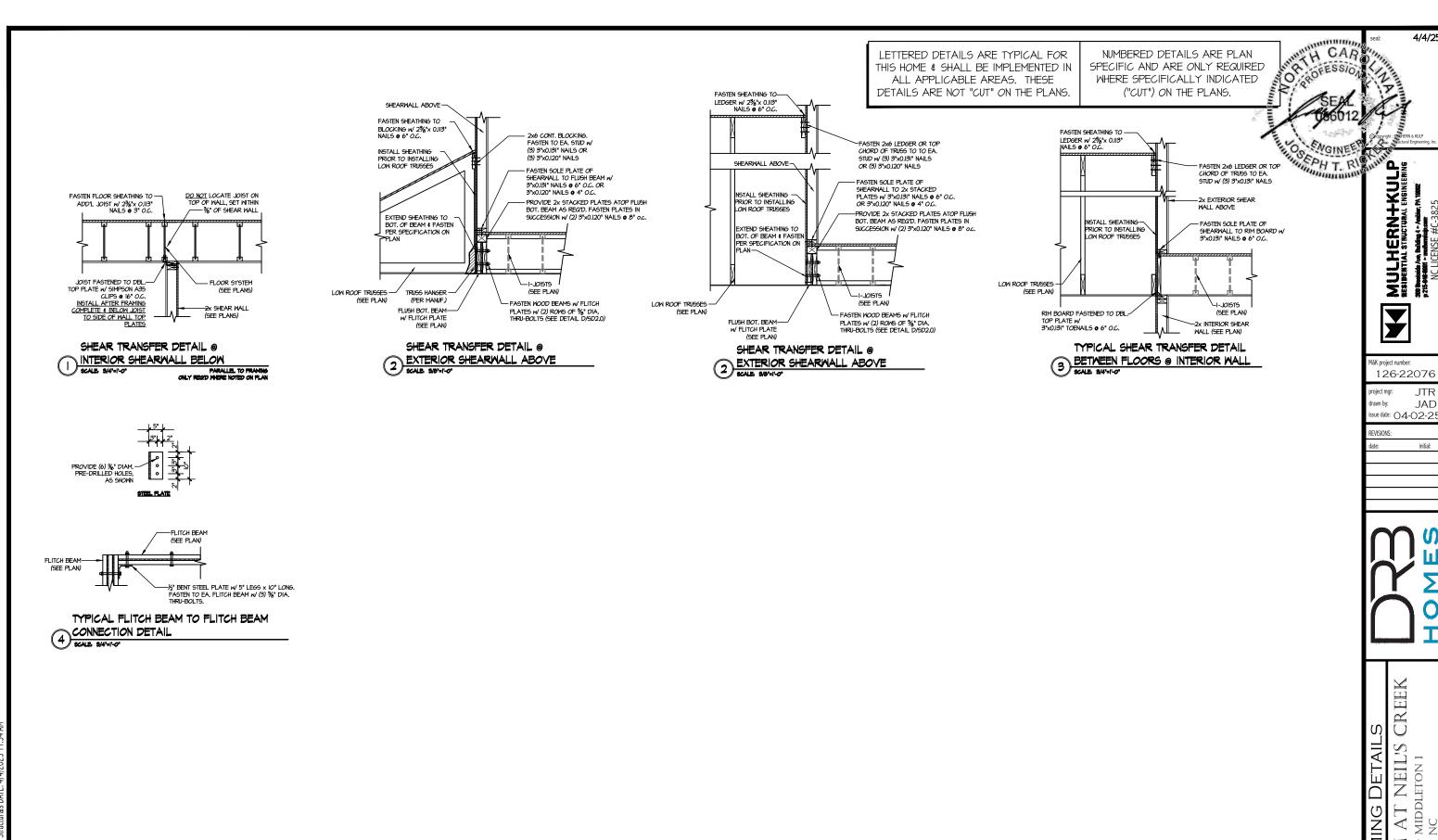
TYPICAL HOLD DOWN INSTALLATION
SCALE: N.T.S.

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



BIH - Neil's Creek - Lot 180 - Structurals DATE: 4/4/2025 11:34

SD2.1A



Ell E. DI U. Noille Crook 1 of 190 Christianale DATE: 4/4/2025 11:24 AM

SD2.1B

FARM LOT 180 - N RALEIGH, N

OR OFERS NUMBERED DETAILS ARE PLAN LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN SPECIFIC AND ARE ONLY REQUIRED ALL APPLICABLE AREAS. THESE WHERE SPECIFICALLY INDICATED DETAILS ARE NOT "CUT" ON THE PLANS. ("CUT") ON THE PLANS. FASTEN SHEATHING TO -LEDGER W/ 2%"x 0.113" NAILS @ 6" O.C. FASTEN SHEATHING TO -SHEARWALL ABOVE -2x6 CONT. BLOCKING. FASTEN TO EA. STUD w/ FASTEN SHEATHING TO FASTEN 2x6 LEDGER OR TOP CHORD OF TRUSS TO TO EA. STUD w/ (3) 3"x0.131" NAILS LEDGER W/ 23/6"x 0.113" NAILS @ 6" O.C. INSTALL SHEATHING -PRIOR TO INSTALLING LOW ROOF TRUSSES (3) 3" VO 131" NAILS OR MULHERN+KUL
RESIDENTIAL STRUCTURAL ENSINEER
SUDEMAKER AN BEREN 1- ANDER, PA 1900E
P 255-88-8001 - Instrument com (3) 3"x0.120" NAILS OR (3) 3"x0.120" NAILS -FASTEN SOLE PLATE OF SHEARWALL TO 2X WOOD PLATE w/ 3"x0.131" NAILS @ 6" O.C. OR - FASTEN 2x6 LEDGER OR TOP CHORD OF TRUSS TO EA. STUD w/ (3) 3"x0.131" NAILS -FASTEN SOLE PLATE OF LOW ROOF TRUSSES-3"x0.120" NAILS @ 4" O.C. NSTALL SHEATHING 3"x0.120" NAILS @ 4" O.C. DO NOT LOCATE JOIST ON TOP OF WALL, SET WITHIN

TOP 3" OF SHEAR WALL PRIOR TO INSTALLING LOW ROOF TRUSSES FASTEN FLOOR SHEATHING TO -- 2x PLATE FASTENED TO TOP -2x EXTERIOR SHEAR WALL ABOVE - 2x PLATE FASTENED TO TOP FLANGE OF STL. BM. w/ (2) ROWS OF HILTI XU-4TP8 PINS ● 16" O.C. ADD'L JOIST w/ 23/8 x 0.113 NAILS @ 3 0.C. FLANGE OF STL. BM. w/ (2) ROWS OF HILTI XU-47P8 PINS @ 16" O.C. EXTEND SHEATHING TO -BOT. OF BEAM & FASTEN TO PACK OUT PER EXTEND SHEATHING TO BOT. OF BEAM & FASTEI PER SPECIFICATION ON NSTALL SHEATHING— PRIOR TO INSTALLING LOW ROOF TRUSSES FASTEN SOLE PLATE OF SHEARWALL TO RIM BOARD W/ 3"XO.131" NAILS @ 6" O.C. SPECIFICATION ON PLAN TRUSS HANGER -(PER MANUF.) JOIST FASTENED TO DBL—
TOP PLATE W/ SIMPSON A35
CLIPS ● 16\* O.C.
INSTALL AFTER FRAMING
COMPLETE & BELOW JOIST
TO SIDE OF WALL TOP
PLATES Y FLOOR SYSTEM LOW ROOF TRUSSES (SEE PLAN) FLUSH STEEL BEAM (SEE PLAN) (SEE PLAN) -PACK OUT STEEL BEAM WEB W/ SOLID 2x MATERIAL & FASTEN W/ (2) ROMS OF 5%" DIA. THRU-BOLTS (SEE DETAIL E/SD2.0) (SEE PLAN) -PACK OUT STEEL BEAM WEB w/ RIM BOARD FASTENED TO DBL.-TOP PLATE W/ 3"x0.131" TOENAILS @ 6" O.C. (SEE PLAN) (SEE PLANS) SOLID 2x MATERIAL & FASTEN W/
(2) ROWS OF 5%" DIA. THRU-BOLTS
(SEE DETAIL E/SD2.0) WALL (SEE PLAN) M&K project number: 126-22076 SHEAR TRANSFER DETAIL @ SHEAR TRANSFER DETAIL @ SHEAR TRANSFER DETAIL @ TYPICAL SHEAR TRANSFER DETAIL EXTERIOR SHEARWALL ABOVE BETWEEN FLOORS @ INTERIOR WALL EXTERIOR SHEARWALL ABOVE SCALE, SAD'-1-0" INTERIOR SHEARWALL BELOW PARALLEL TO FRAMING ONLY REOD WHERE NOTED ON FLAN frawn by: ssue date: 04-02-2 REVISIONS:  $\simeq$  $\bigcup$ 

I AT NEIL'S (MIDDLETON I FARM LOT 180 - N RALEIGH, N

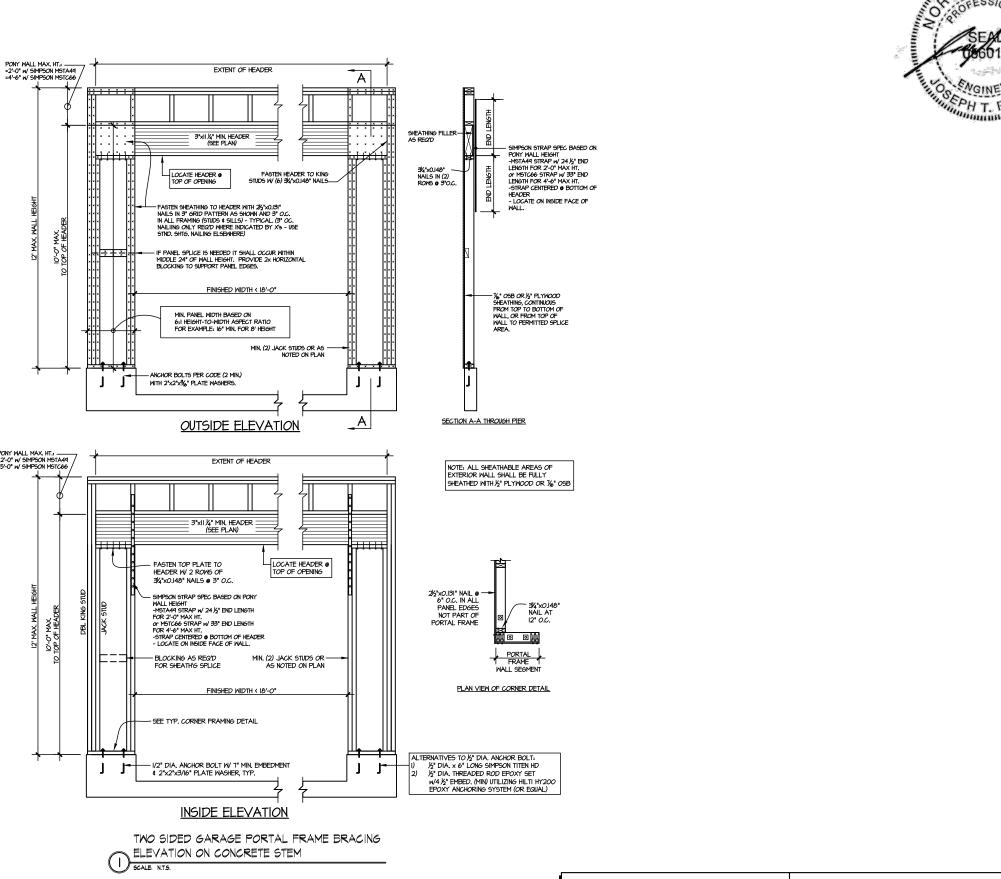
4/4/25

**JTR** 

**JAD** 

initial:

SD2.1C



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**SD2.2** 

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NEILS

FARM AT NEIL'
LOT 180 - MIDDLETON 1
RALEIGH, NC

4/4/25

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RESIDENTIAL STRUCTURAL ENGINEERING

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M&K project number: 126-22076

issue date: 04-02-2

drawn by:

REVISIONS:

**JTR** 

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4/4/25

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126-22076

JTR drawn by: JAD issue date: 04-02-2

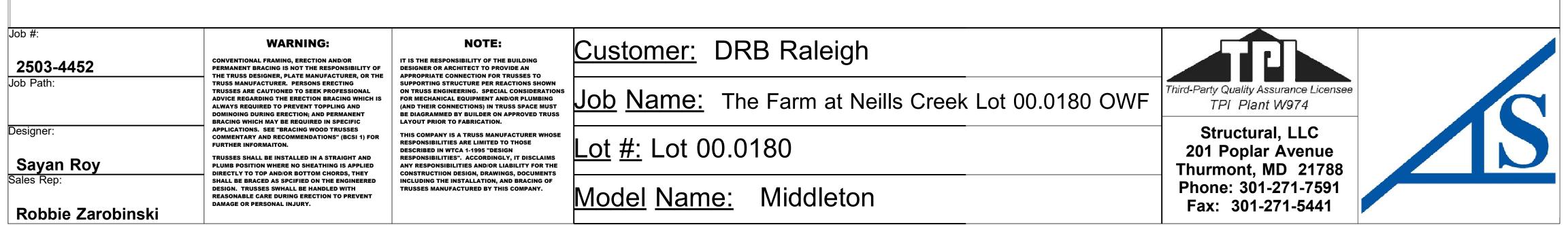
FARM AT NEIL'S CREEK LOT 180 - MIDDLETON 1 RALEIGH, NC FRAMING DETAILS

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

40-00-00 20-00-00 ROOF TRUSS 24-06-00 **FB16** 1-07-03 00 1-07-03 48-00-FB12 **FB10** 4(3) 1-05-01 1-07-03 1-09-00 **2F4** 1-07-03 2F1 18-00-00 58-00-00 1-07-03 **2F5** 1-07-03 1-02-00 9-10-08 2F6(2) 1-07-03 2F16 1-07-03 5(3) 1-07-03 **12-05-0**8 3-11-00 3-07-08 1-07-03 2F1 2F7(2) 1-10-03 1-07-03 12-09-08 1-09-08 125.00 lb/ft Drag Load 23-06-00 1-07-03 1-11-11 **2F8** 18-02-00 2F15 1-07-03 CASE 1-03-12 **2F9** 1-07-03 **FB20 2F10** SPECIAL ORDER HANGERS 11-08-03 1-07-03 20-00-00 1-07-03 -08-04 Products PlotID Plies Net Qty Length Product 1-07-03 7-06-08 FB12 7 1-07-03 FB10 1 3/4" x 14" (2.0E 3100) LVL FB8 22-04-00 8-00-00 1 3/4" x 14" (2.0E 3100) LVL FB6 6-00-00 1 3/4" x 14" (2.0E 3100) LVL 1-07-03 20-00-00 FB20 20-00-00 1 3/4" x 18" (2.0E 3100) LVL 1-00-00 2F12 <u>1-00-00</u> Truss Connector Total List Product Qty Manuf **2F4GE** IUS3.56/14 Simpson Simpson THAR422 10-00-00 19-08-08 ROOF TRUSS 12-02-00 7-10-00 20-00-00 20-00-00 ELEV.1 SECOND FLOOR FRAMING

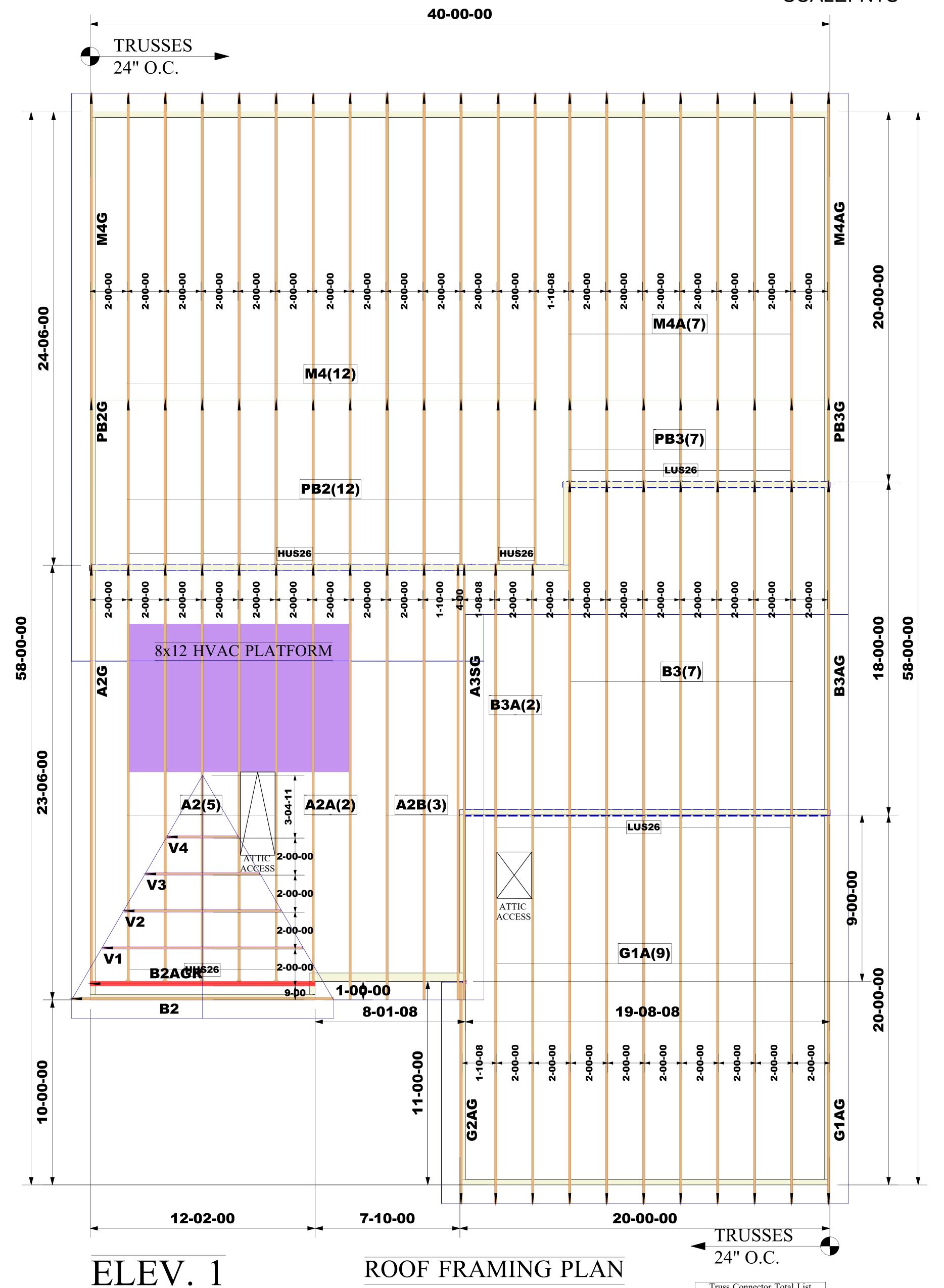
THE FARM AT NEILL'S CREEK (NC)(RAL)
LOT 00.0180 PHASE
MODEL-2183-1-MIDDLETON
GARAGE RIGHT SIDE
4' REAR EXTENSION
2' GARAGE EXTENSION

NOTE:
\*EXTERIOR DIMENSIONS ARE TO STUD.
\*TRUSS 19.2" O.C U.N.O
\*INSTALL 2X4 NAILER ON ALL TOP RIBBON NOTCH CONDITIONS.



**ROOF TRUSS LAYOUT** 





THE FARM AT NEILL'S CREEK (NC)(RAL) LOT 00.0180 PHASE MODEL-2183-1-MIDDLETON GARAGE RIGHT SIDE OPT.4' REAR EXTENSION **OPT.2' GARAGE EXTENSION** 

Truss Connector Total List Product Qty HUS26 18 LUS26 18 Simpson One H2.5A 100

**NOTES:** 

\*EXTERIOR DIMENSIONS ARE TO STUD.

\*TRUSS 2' O.C U.N.O. \*INSTALL SIMPSON One H2.5A HURRICANE ANCHORS AT EACH BEARING POINT.

Job #: 2503-4453	WARNING:  CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER. PLATE MANUFACTURER. OR THE	NOTE:  IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO	Customer: DRB Raleigh	
	TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC	SUPPORTING STRUCTURE PER REACTIONS SHOWN	Job Name: The Farm at Neills Creek Lot 00.0180 Roof	Third-Party Quality Assurance Licensee TPI Plant W974
Designer: Sayan Roy	APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMAITON.  TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS. THEY	THIS COMPANY IS A TRUSS MANUFACTURER WHOSE	Lot #: Lot 00.0180	Structural, LLC 201 Poplar Avenue Thurmont, MD 21788
Sales Rep:  Robbie Zarobinski	SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.	INCLUDING THE INSTALLATION, AND BRACING OF	Model Name: Middleton	Phone: 301-271-7591