MIDDLETON-RALE

RALEIGH - LOT 00.0182 THE FARM AT NEILL'S CREEK

(MODEL# 2183)

ELEVATION 4- GR

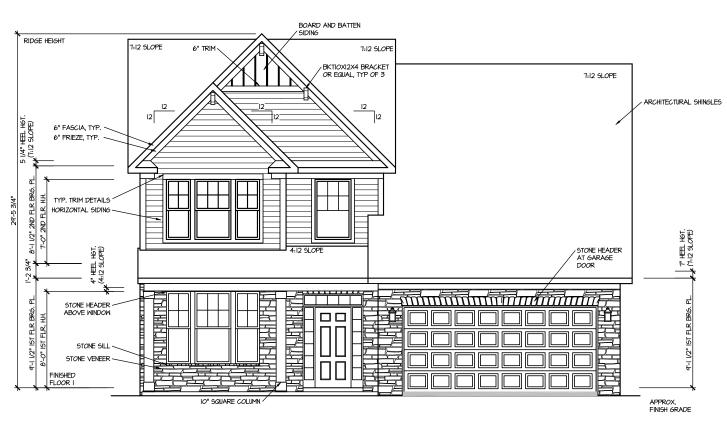


AREA CALCULATIONS				
AREA CALCULATIONS			COVERED /	
ELEVATION 4		HEATED	UNHEATED [']	UNCOVERED
FIRST FLOOR		1495 SF		
GARAGE			417 SF	
FRONT STOOP — ELEV. 4			130 SF	
SECOND FLOOR		692 SF		
OPTIONS				
COVERED PORCH			124 SF	
FIREPLACE		10 SF		
	TOTAL	2197 SF	671 SF	

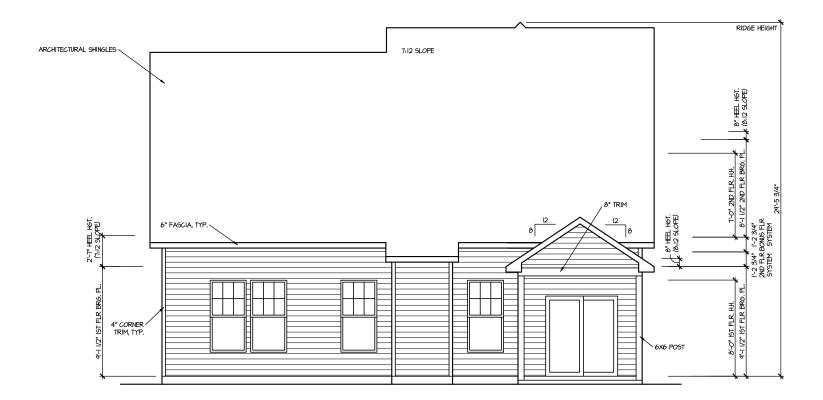
87 Appleseed Drive

I LOT	SPECIFIC	
1	LOT 00.0182	THE FARM AT NEILL'S CREEK
		MIDDLETON REV. RALE 2 ELEVATION 4
		MIDDLETON REV. RALE 2 ELEVATION 4
2	ADDRESS	87 APPLESEED DR LILLINGTON, NC 27546
L		
I		
—		
I		
—		
I		
I		
L		
1		
1		
i		
L		
1		
!		
.		
L		
1		
L		
L		
I		
L		
I		
L		
I		
L		
I		
L		
I		
I		
I		
I		
I		
	l .	

INDEX IN		
	<u>INDEX</u>	
		+
		_



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



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

DRAWN BY: DATE: 03/14/2025

PLAN NO. 2183

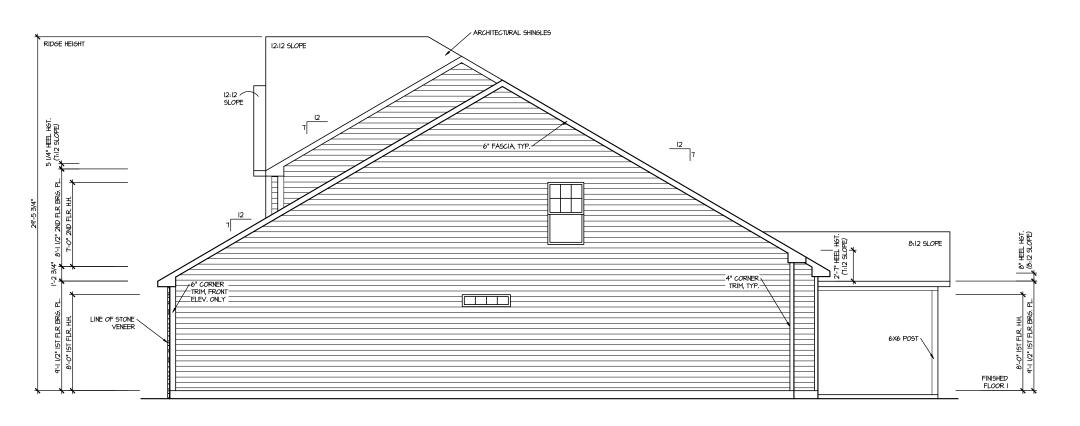


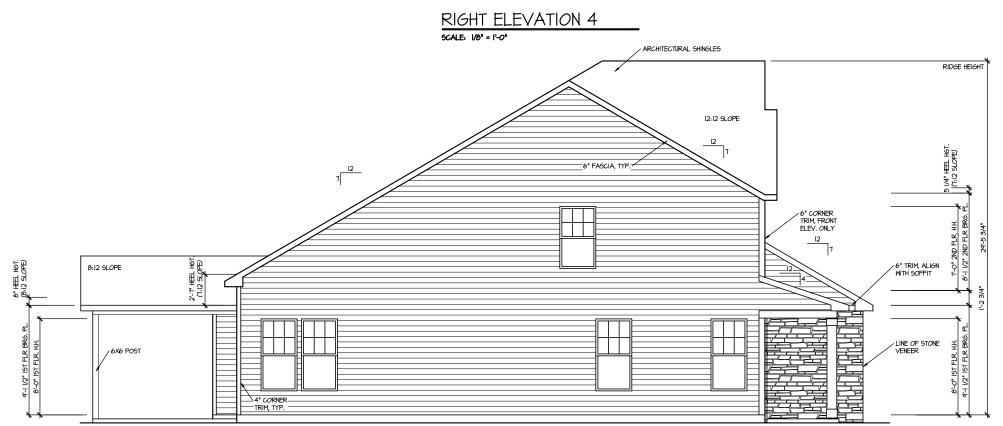
ELEVATIONS 07 ₹ 07

HOUSE NAME:
MIDDLETON
DRAWING TITLE
FRONT & REAR

SHEET No.

A.





LEFT ELEVATION 4

| MASTER PLAN INFORMATION | MASTER PLAN INFO

DRAWN BY: ITS

DATE:
03/14/2025

PLAN NO.
2183



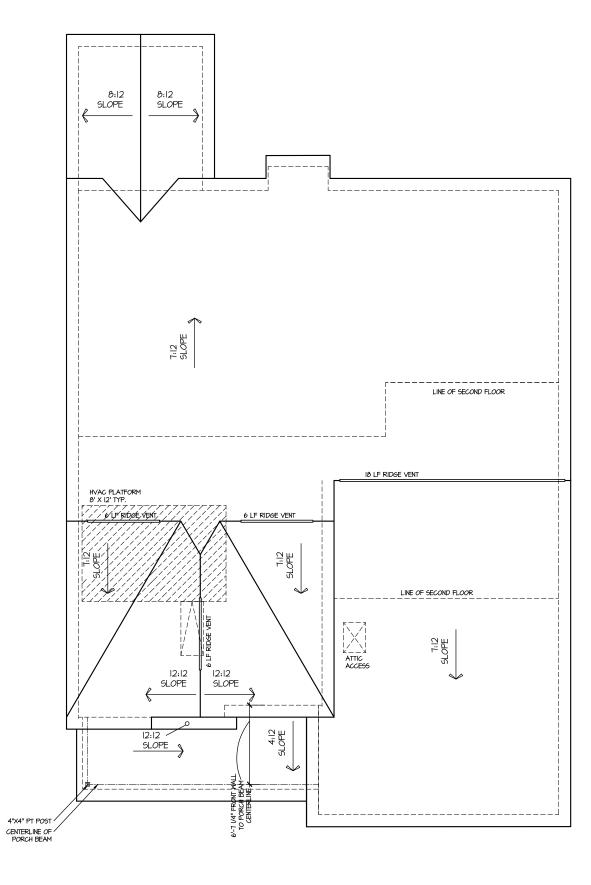
HOUSE NAME:
MIDDLETON
DRAWING TITLE
RIGHT & LEFT ELEYATIONS

SHEET No.

ot 00.0182.dwg DATE: 3/14/2025 2:

ROOF VENTILATION CALCULATIONS:
ROOF AREA = 3/02 50 FT.
OVERAL RECURSED VENTILATION;
170 500 = 16/01 50. FT.
170 500 = 10/1 50. FT.
170 500 N IN TOP THERD = 350 - 56/1 50. FT. (170 300)
NET FREE AREA OF VENTES OFFITI = 5.1 50. IN / LINEAR FT.
NET FREE AREA OF RIDGE VENT = 10/50. IN / LINEAR FT.

LOYER VENTING. (BOTTOM 2/3 RDG)
14 LINEAR FEET OF SOFFIT X 5.1 50. IN = 2.49 50. FT.
14 LINEAR FEET OF SOFFIT X 5.1 50. IN = 4.5 50. FT.
1400 50. FT. FEITMEN 50.5 - DGS.
110 30.0 N.LOYED.
10 30.0 N.LOYED.
10 13.4 ROG- VENTILATION. 1.43 50. FT. > 1.0 1 50. FT. (RdD)



ROOF PLAN ELEV. 4

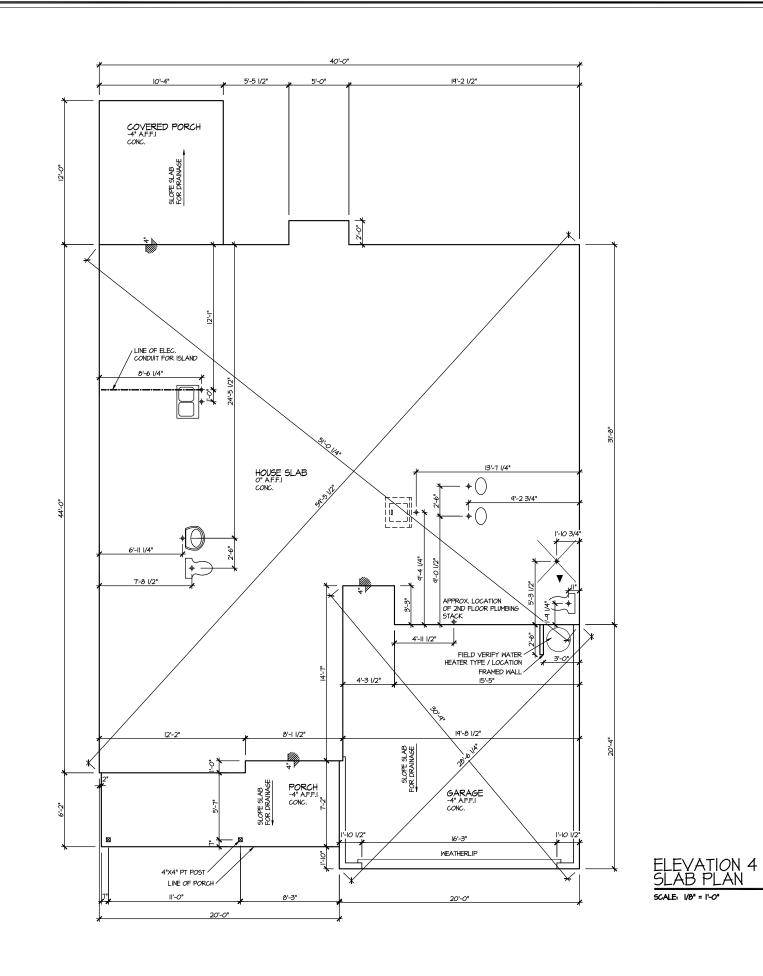
DRAWN BY: DATE: 03/14/2025 PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
ROOF PLAN

SHEET No.

AI.3



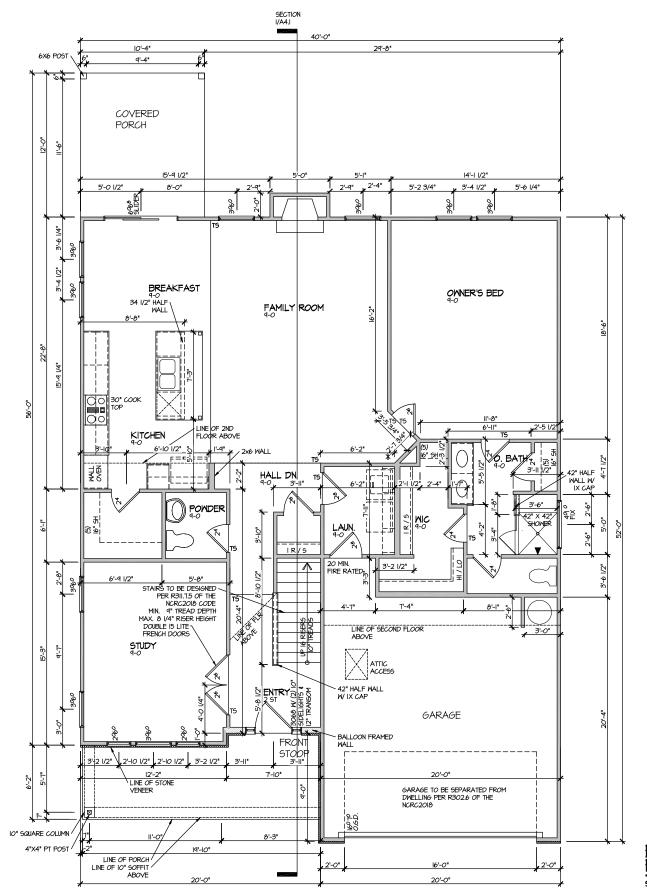
DRAWN BY: DATE: 03/14/2025 PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
SLAB PLAN

SHEET No.

A2.1



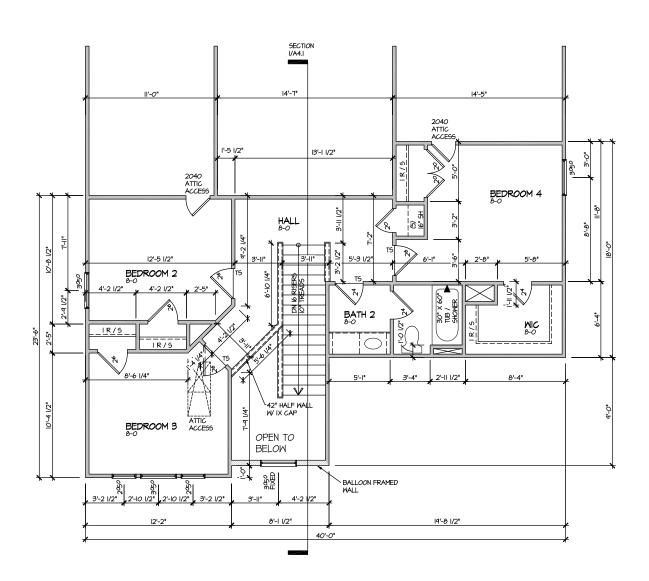
ELEVATION 4 FIRST FLOOR PLAN SCALE: 1/0" = 1'-0" DRAWN BY: ITS DATE: 03/14/2025 PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
FIRST FLOOR PLAN

SHEET No.

A3.



DRAWN BY:

PLAN NO. 2183

DATE: 03/14/2025

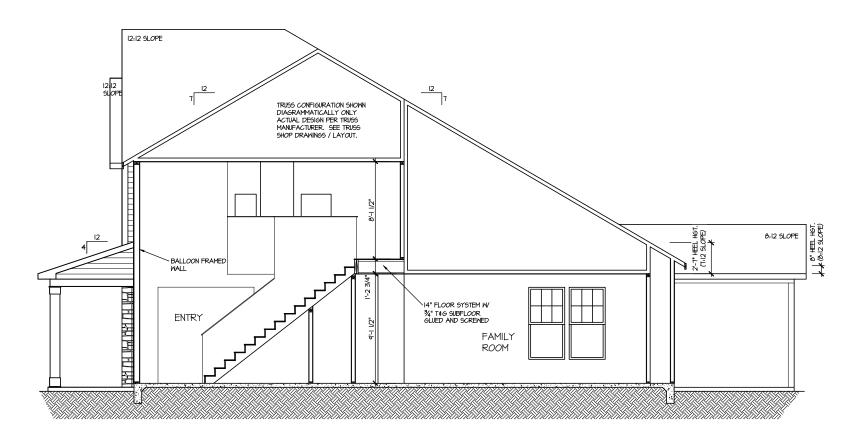
HOUSE NAME:
MIDDLETON
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No.

A3.2

E: Lot 00.0182.dwg DATE: 3/14/2025

ELEVATION 4 SECOND FLOOR PLAN SCALE: 1/8" = 1'-0"



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

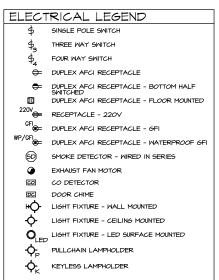
DRAWN BY:

DATE: 03/14/2025 PLAN NO. 2183

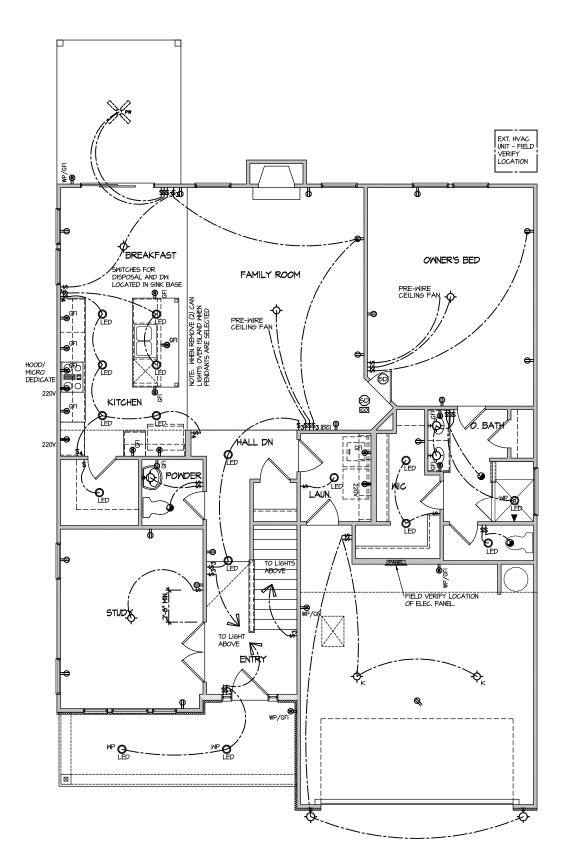


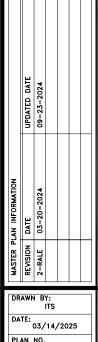
SECTION HOUSE NAME:
MIDDLETON
DRAWING TITLE
BUILDING SECTION

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.





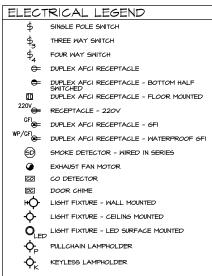
PLAN NO. 2183



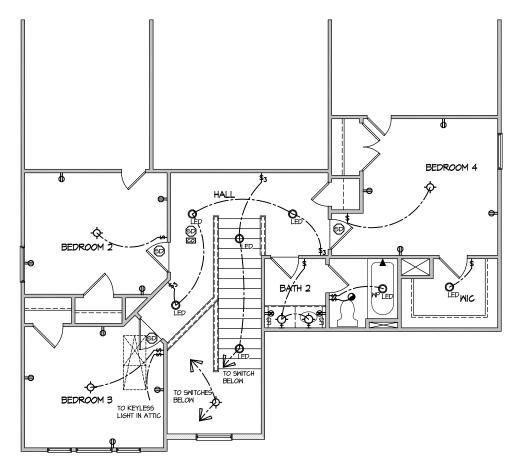
Ú ᇳ

HOUSE NAME:
MIDDLETON
DRAWING TITLE
FIRST FLOOR

SHEET No.



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.



DRAWN BY:

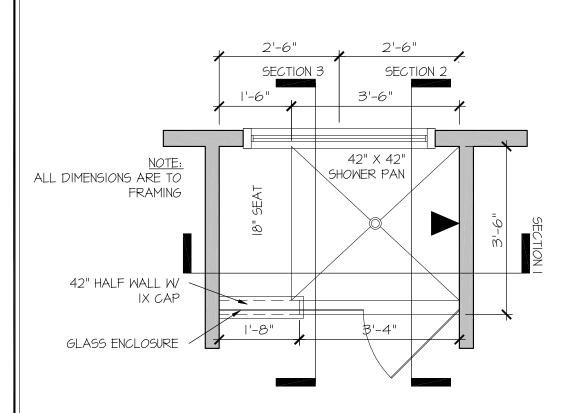
DATE: 03/14/2025 PLAN NO. 2183



П ᇳ

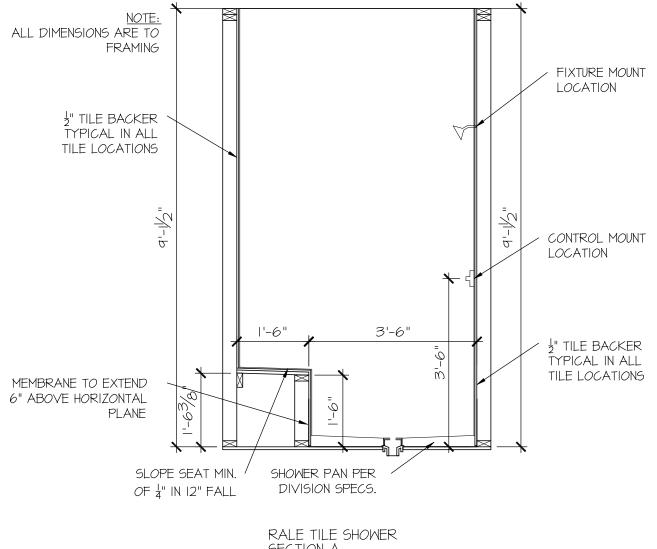
HOUSE NAME:
MIDDLETON
DRAWING TITLE
SECOND FLOOR

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

~ "

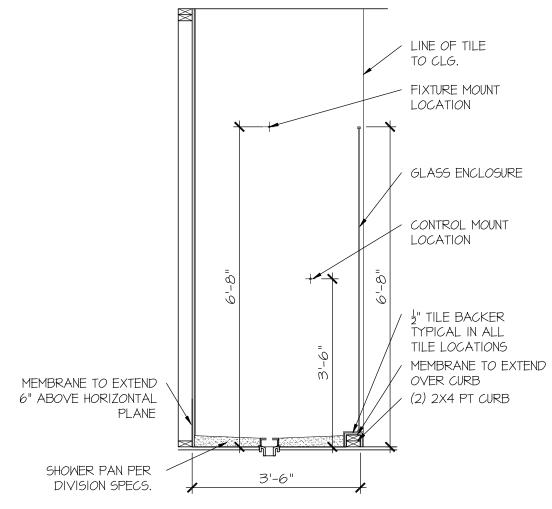


E ILE SHOWER DETAIL

OUSE NAME:

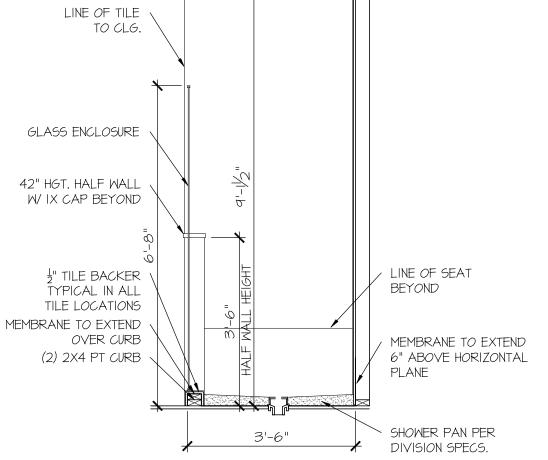
SHEET No.

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.C
- 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 SPRICE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LIMBER, 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=3I0 psi; E=I.55xI0^6 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
▶ 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 FASTEN 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.

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

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

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
- 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"x¼"
	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" **
	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

- IIIIIIII 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)2x8	(3)2×8

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	AL OPTION PSIL OPTION LSIL OPTION FLITCH OPTION		STEEL OPTION		
001	(2)13/4"×117/6" - H	(2) %*x %" - H		(2)2xl2 + (l) ½"xll¼" STEEL FLITCH PLATE - H	N/A	
00IA	(2)13/4"x117/6" - H	3½"xII%" - H	(2)1¾"x11%" - H	(2)2xl2 + (l) 片"xll片" STEEL FLITCH PLATE - H	N/A	
002	(2)194"x18" - FT	51/4"×18" - FT	N/A	(3)2xl2 + (2) 片"xll片" STEEL FLITCH PLATES - FB	WI2xI9 - F	
003	(2)13/4"×14" - F	3½"x 4" - F	(2)19/4"x14" - F	(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - FB	WI2xI4 - F	
004	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xi2 + (I) ¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F	
005	(2)13/4"×14" - F	3½"x 4" - F	(2)19/4"×14" - F	(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - FB	WI2xI4 - F	
006	(2)13/4"×14" - F	3½"x 4" - F	(2)19/4"×14" - F	(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - FB	WI2xI4 - F	
001	(2)13/4"x111/6" - F	3½"×11½" - F	(2)1¾"x11%" - F	(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - F	WI0xl2 - 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	51/4"×18" - FT	N/A	(4)2xl2 + (3) ½"xll¼" STEEL FLITCH PLATES - FB	WI2x26 - F	
010	(3)13/4"×20" - FT	5¼"x20" - FT	N/A	(4)2xl2 + (3) %"xll以" STEEL FLITCH PLATES - FB	WI2x35 - F	
OII	(2)13/4"x117/6" - FB	3½"x %" - FB	(2)13/4"x14" - FB	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATE - FB	WIOxI2 - FB	

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

3/20/2 H CAR SESSIO



1&K project numbe 126-22076 **JTR** frawn by:

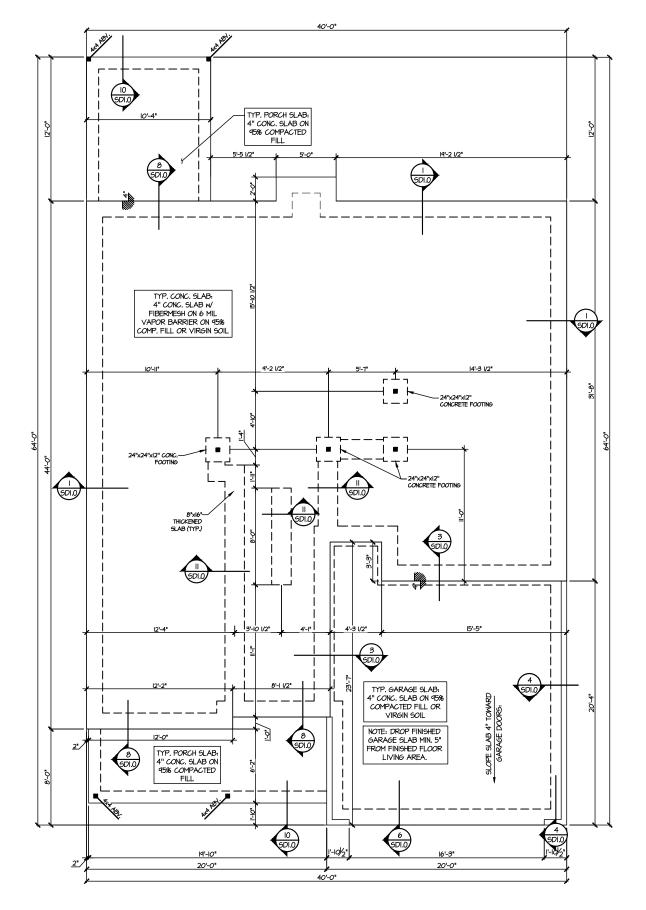
sue date: 03-18-2

JAC

REVISIONS initial:

 \bigcap δ ZEIL

MIDDE ARM



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

SEAC GARANIP Complete SHENA NIP Complete Shena NIP SHENA NIP Sharad Engineering, Inc.

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Brouksits Ave, Balding 1+ Anthon, PA 19002
p 215-64-89001 - markeniskspoor

M&K project number:

126-22076 project mgr: JTR

project mgr: JTR drawn by: JAD issue date: 03-18-25

REVISIONS:

initial:

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,

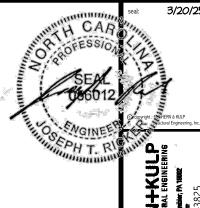
INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR
TYPICAL STRUCTURAL NOTES

\$ SCHEDULES

FARM AT NEIL'S LOT 182 - MIDDLETON 4
RALEIGH, NC

OUNDATION P



MULHERN+KU

MESIDENTIAL STRUCTURAL ENGINE Y

M&K project number: 126-22076

JTR drawn by: issue date: 03-18-2

REVISIONS:

initial:

NEILS 1 AT NEII MIDDLETON

STEEL OPTION

N/A

WI2xI9 - F

WI2xI4 - F

WI2xI4 - F

MIOxI2 - F

WI2xI4 - F

WI2x26 - F

WIOxI2 - FB

(2)2xl2 + (l) ½"xll¼" STEEL FLITCH PLATE - H

(2)2xl2 + (l) ½"xll½" STEEL FLITCH PLATE - H

(3)2xl2 + (2) ½"xll¼" STEEI FLITCH PLATES - FB

(2)2xl2 + (l) 片"xll片" STEEL FLITCH PLATE - FB

(2)2xl2 + (l) ¼"xll¼" STEEL FLITCH PLATE - FB

(2)2xl2 + (l) ¼"xll¼" STEEL FLITCH PLATE - FB

(2)2x12 + (1) ¼"xII¼" STEEL FLITCH PLATE - F

(2)2xl2 + (l) 从"xli以" STEEL FLITCH PLATE - FB

4)2x12 + (3) ½"x1¼" STEEL FLITCH PLATES - FB

(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATE - FB

FARM LOT 182 - N RALEIGH, N

- "I" 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 \bullet 8" O.C.

ENGINEERED BEAM MATERIAL SCHEDULE

LSL OPTION

(2)13/4"×113/6" - H

N/A

(2)13/4"x14" - F

(2)13/4"x14" - F

(2)13/4"×14" - 1

(2)|%"x||%" - F

(2)13/4"×14" - 1

(2)13/4"x14" - FB

PSL OPTION

3½"xII%" - H

3½"x||½" - H

51/4"x18" - FT

36"x14" - F

36"x14" - F

3½"x14" - F

3½"xl4" - F

3½"xII%" - F

36"xI4" - F

514"x18" - FT

BEAM NUMBER LVL OPTION

(2)13/4"×117/6" - H

(2)134"x1136" - H

(2)13/4"x18" - FT

(2)13/4"×14" - F

(2)13/4"x14" - F

(2)13/4"×14" - F

(2)13/4"×14" - F

(2)13/4"x117/4" - F

(2)|3/4"x|4" - F

(3)134"x18" - FT

(2)13/4"x117/6" - FB

BEAM NOTATION: - "F" INDICATES FLUSH BEAM

- "FT" INDICATES FLUSH TOP BEAM - "FB" INDICATES FLUSH BOTTOM BEAM

- "D" INDICATES DROPPED BEAM

001

OOIA

002

003

004

005

006

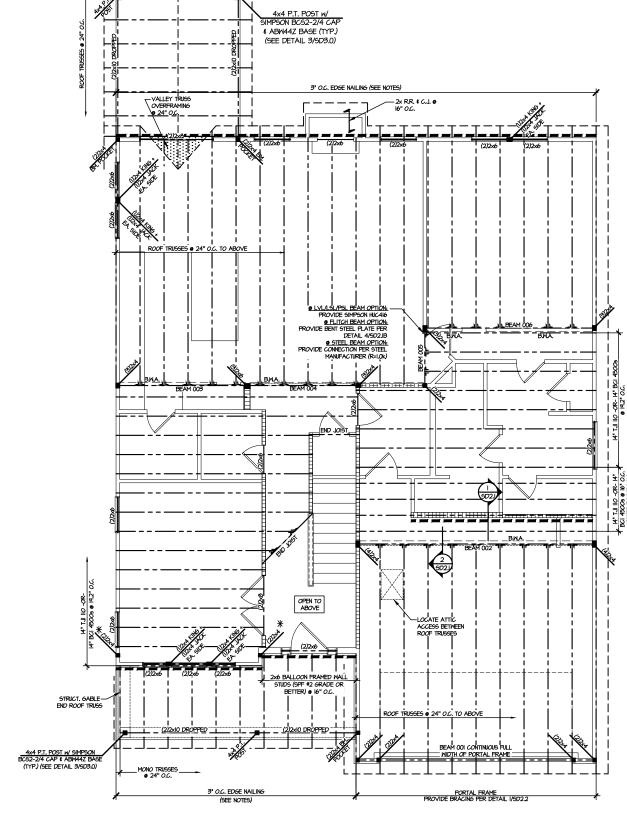
001

008

009

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

- IIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

3/20/25 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: 03-18-25

REVISIONS:

initial:

FRAMING

LEGEND

ullet = ullet INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES \$ SCHEDULES

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

• IIIIII INTERIOR BEARING WALL

● □===□ BEARING WALL ABOVE • ---- BEAM / HEADER

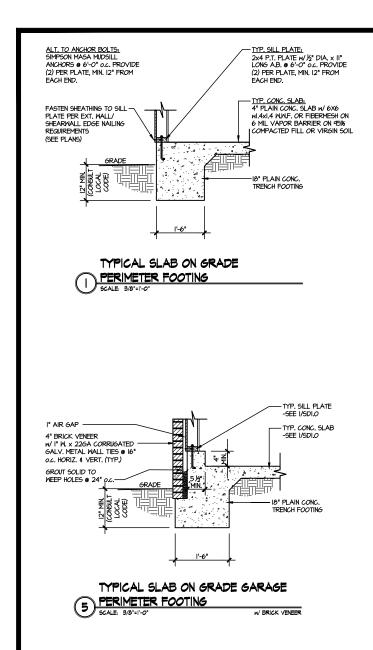
JL METAL HANGER

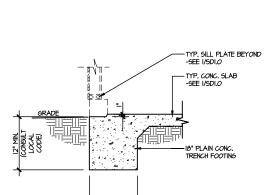
CREEK FARM AT NEIL'S (LOT 182 - MIDDLETON 4
RALEIGH, NC ROOF

S3.0

DO NOT SPLICE ROOF SHEATHING WITHIN 12" OF WALL POO NOT SPLICE ROOF SHEATHING WITHIN 12" OF WALL FULL HEIGHT OF I WALL TO BOT. OF I 2ND FLR PLATE 2x6 BALLOON FRAMED WALL
STUDS (SPF #2 GRADE OR
BETTER) • 16" O.C. FASTEN
PER 3" O.C. EDGE NAILING
(SEE NOTES) 3" O.C. EDGE NAILING (SEE NOTES)

> HIGH ROOF FRAMING PLAN SCALE: 1/8"=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"

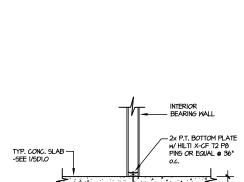
TYP, SILL PLATE -SEE I/SDI.O

- TYP. CONC. SLAB

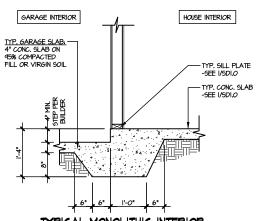
-18" PLAIN CONC.

-SEE I/SDI.O

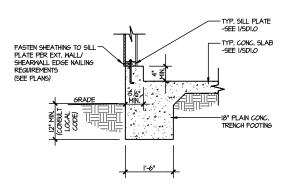






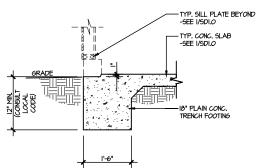


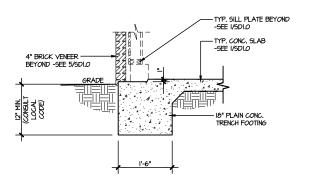
TYPICAL MONOLITHIC INTERIOR 3 SCALE 2/4



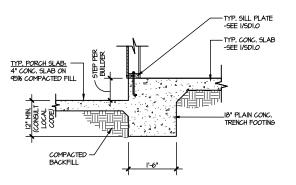
TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

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

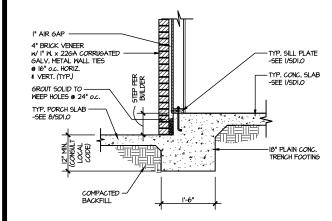




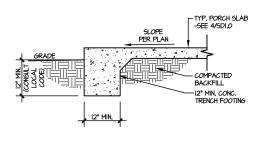
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



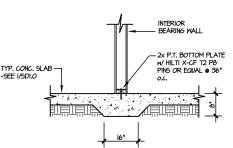
TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO SCALE: 3/8"=1'-0"

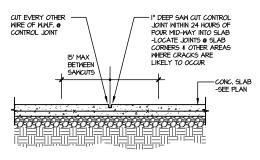


TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO



TYPICAL FOOTING @ PORCH SLAB





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

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.

NEIL Z O MIDDLI ATARM LOT

3/20/2

ERN+KU

M&K project number: 126-22076

frawn by:

REVISIONS

JTR

JAD ssue date: 03-18-2!

initial:

TH CAR

SEPH T. R

OFESSIO

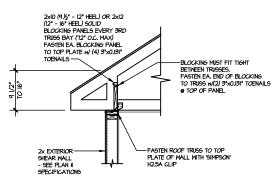
TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 9/8"=1"-0" HEEL HEIGHT LESS THA HEEL HEIGHT LESS THAN 9 ½" NO BLOCKING REQ'D

2x EXTERIOR SHEAR - Fasten Sole Plate to Rim Board W 3"x0.131" Nails @ 6" O.C. RIM BOARD FASTENED TO DBL.-TOP PLATE w/ 3"x0.131" TOENAILS @ 6" O.C. (SEE PLANS) - 2x EXTERIOR SHEAR

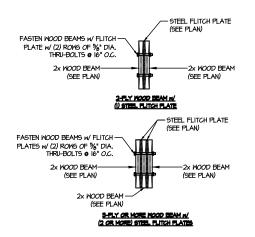
> TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
>
> SCALE: 3/8'-1'-0'



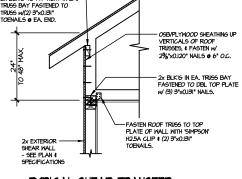
TYPICAL SHEAR

TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9.)

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

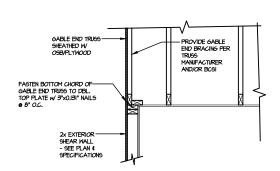


TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 944-91-0*



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

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

3/20/2

"H CAR

SEPH T. R

M&K project number: 126-22076

JTR drawn by: issue date: 03-18-2!

REVISIONS:

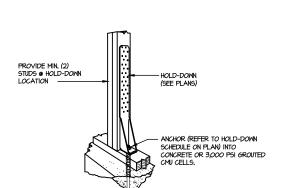
initial:

 \simeq \Box **DETAIL** I AT NEIL'S (MIDDLETON 4 Ŋ

FARM / LOT 182 - M RALEIGH, N

DETAILS ARE NOT "CUT" ON THE PLANS.

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

PACK OUT STEEL BEAM WEB W/SOLID 2x MATERIAL & FASTEN

w/ (2) ROWS OF 3/6" DIA. THRU-BOLTS @ 16" O.C.

TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 944-1-07

DROPPED STEEL DEAM 2x FLATE CONNECTION

,—2x PLATE FASTENED TO TOP FLANGE OF STL. BM, w/ (2) ROWS OF HILTI XU-4TP8 PINS € 16" o.c.

-2x PLATE FASTENED TO TOP

FLANGE OF STL. BM. W/ (2) ROWS OF HILTI XU-4TP8 PINS @ 16" O.C.

OR OFES NUMBERED DETAILS ARE PLAN LETTERED DETAILS ARE TYPICAL FOR SPECIFIC AND ARE ONLY REQUIRED THIS HOME & SHALL BE IMPLEMENTED IN 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 0.120" NAILS @ 6" O.C. FASTEN SHEATHING TO -LEDGER W/ 23/8"x 0.113" NAILS @ 6" O.C. - FASTEN 2x6 LEDGER OR TOP CHORD OF TRUSS TO TO EA. STUD w/ (3) 3"x0.131" NAILS OR (3) 3"x0.120" NAILS FASTEN SHEATHING TO BLOCKING W 2%"x 0.120" NAILS @ 6" O.C. - FASTEN 2x6 LEDGER OR TOP CHORD OF TRUSS TO EA. STUD w/ (3) 3"x0.131" NAILS -2x6 CONT. BLOCKING. FASTEN TO EA. STUD w/ SHEARWALL ABOVE -INSTALL SHEATHING -PRIOR TO INSTALLING ROOF TRUSSES ROOF TRUSS . DO NOT LOCATE JOIST ON TOP OF WALL, SET WITHIN (3) 3"x0.131" NAILS OR FASTEN FLOOR SHEATHING TO --2× EXTERIOR SHEAR —%" OF SHEAR WALL FASTEN SOLE PLATE OF NSTALL SHEATHING PRIOR TO INSTALLING LOW ROOF TRUSSES FASTEN SOLE PLATE OF - FASTEN SOLE PLATE OF SHEARWALL TO RIM BOARD w/ 3"x0.131" NAILS **@** 6" O.C. SHEARWALL TO FLUSH BEAM W/ 3"x0.131" NAILS @ 6" O.C. OR 3"x0.120" NAILS @ 4" O.C. SHEARWALL TO FLUSH BEAM W/ 3"x0.131" NAILS @ 6" O.C. OR 3"x0.120" NAILS @ 4" O.C. EXTEND SHEATHING — TO BOT, OF BEAM & FASTEN PER SPECIFICATION ON PLAN EXTEND SHEATHING TO BOT. OF BEAM & FASTEN PER SPECIFICATION ON PLAN | I-JOISTS | JOIST FASTENED TO DBL—
TOP PLATE W/ SIMPSON A35
TOP PLATE W/ SIMPSON A35
CINSTALL AFTER FRAMING
COMPLETE & BELOW JOIST
TO SIDE OF WALL TOP
PLATES || I-JOISTS || ||(SEE PLAN)|| LOW ROOF TRUSSES (SEE PLAN) Y (SEE PLANS) (SEE PLAN) ~I-JOISTS 2x SHEAR WALL RIM BOARD FASTENED TO DBL.-TOP PLATE w/ 3"x0.131" TOENAILS @ 6" O.C. (SEE PLANS) - LVL/PSL/LSL FLUSH TOP BEAM (SEE PLAN) LOW ROOF TRUSSES -(SEE PLAN) -2x INTERIOR SHEAR TOP BEAM (SEE PLAN) SHEAR TRANSFER DETAIL @ SHEAR TRANSFER DETAIL @ M&K project number SHEAR TRANSFER DETAIL @ TYPICAL SHEAR TRANSFER DETAIL EXTERIOR SHEARWALL ABOVE INTERIOR SHEARWALL BELOW
SCALE 8/4*=1*-6* PARALL 126-22076 2 EXTERIOR SHEARWALL ABOVE BETWEEN FLOORS @ INTERIOR WALL drawn by: issue date: 03-18-2 REVISIONS: CREE

FARM AT NEIL'S (LOT 182 - MIDDLETON 4 RAMING

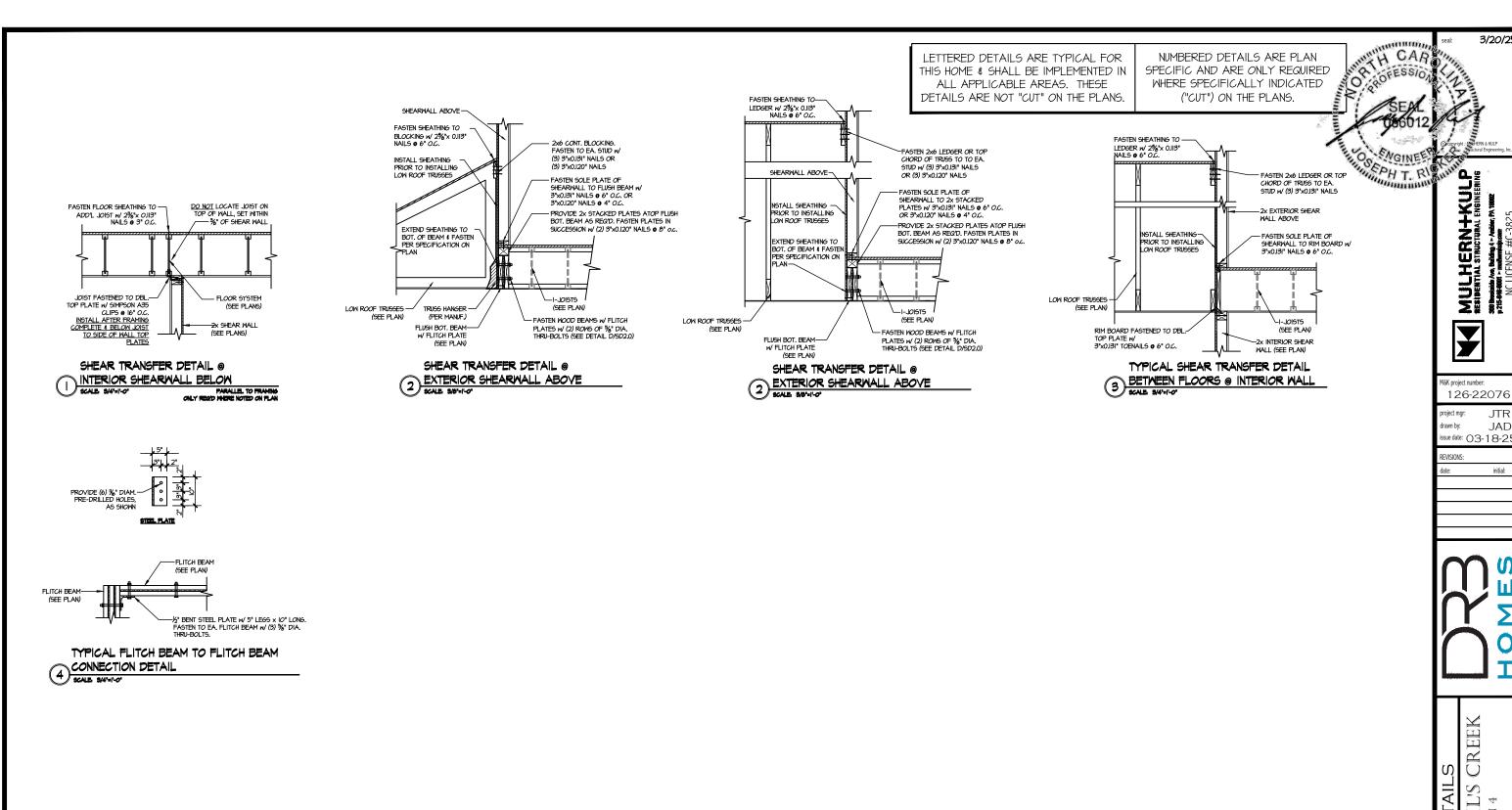
3/20/25

JTR

JAD

initial:

SD2.1A



FARM AT NEIL'S (LOT 182 - MIDDLETON 4
RALEIGH, NC

SD2.1B

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 215-548-6001 - Institution of the control (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: issue date: 03-18-2! REVISIONS: \simeq \bigcup I AT NEIL'S (MIDDLETON 4)

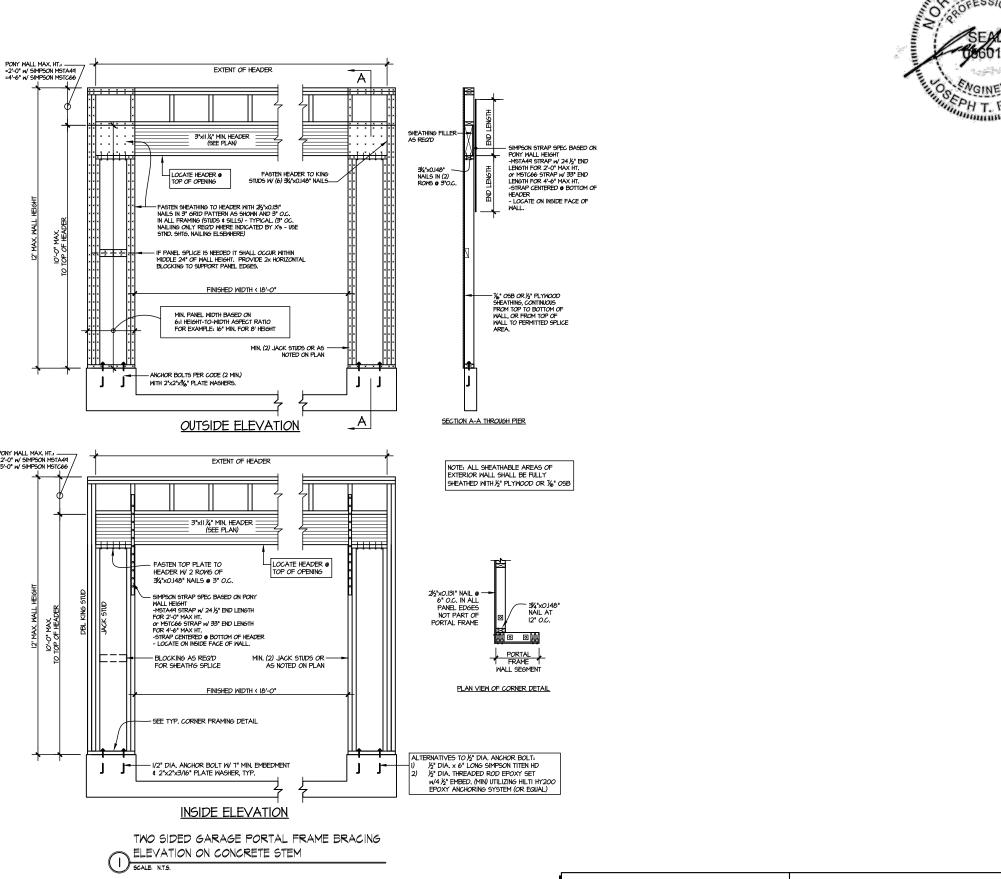
FARM A LOT 182 - M RALEIGH, N SD2.1C

3/20/2

JTR

JAD

initial:



LE: RLH - Neil's Greek - Lot 182 - Structurals DATE: 3/20/2025 9:22 AM

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.

SD2.2

RAMING

CREE

FARM AT NEIL'S LOT 182 - MIDDLETON 4 RALEIGH, NC

3/20/2

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

Y

M&K project number: 1 26-22076

issue date: 03-18-2

drawn by:

REVISIONS:

JTR

initial:

H CAR

3/20/25

MUCHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING Y

M&K project number:

126-22076

JTR drawn by: JAD issue date: 03-18-25

FARM AT NEIL'S CREEK
LOT 182 - MIDDLETON 4
RALEIGH, NC FRAMING DETAILS

SD3.0

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

HOLLOW COLUMN-WRAP IF REQ'D PER ARCH -POST CAP (SEE PLANS & TYP. NOTES) POST BASE (SEE PLANS &
TYP. NOTES) W ½" DIA.
ANCHOR BOLT OR SIMPSON
TITEN HD W/ MIN. 6" EMBED.
SLOPE
PER PLAN
(SE SOLID 4x4 OR-6x6 P.T. POST (SEE PLANS) TYP. PORCH SLAB (SEE FND DETAILS) -CONC. TRENCH FOOTING

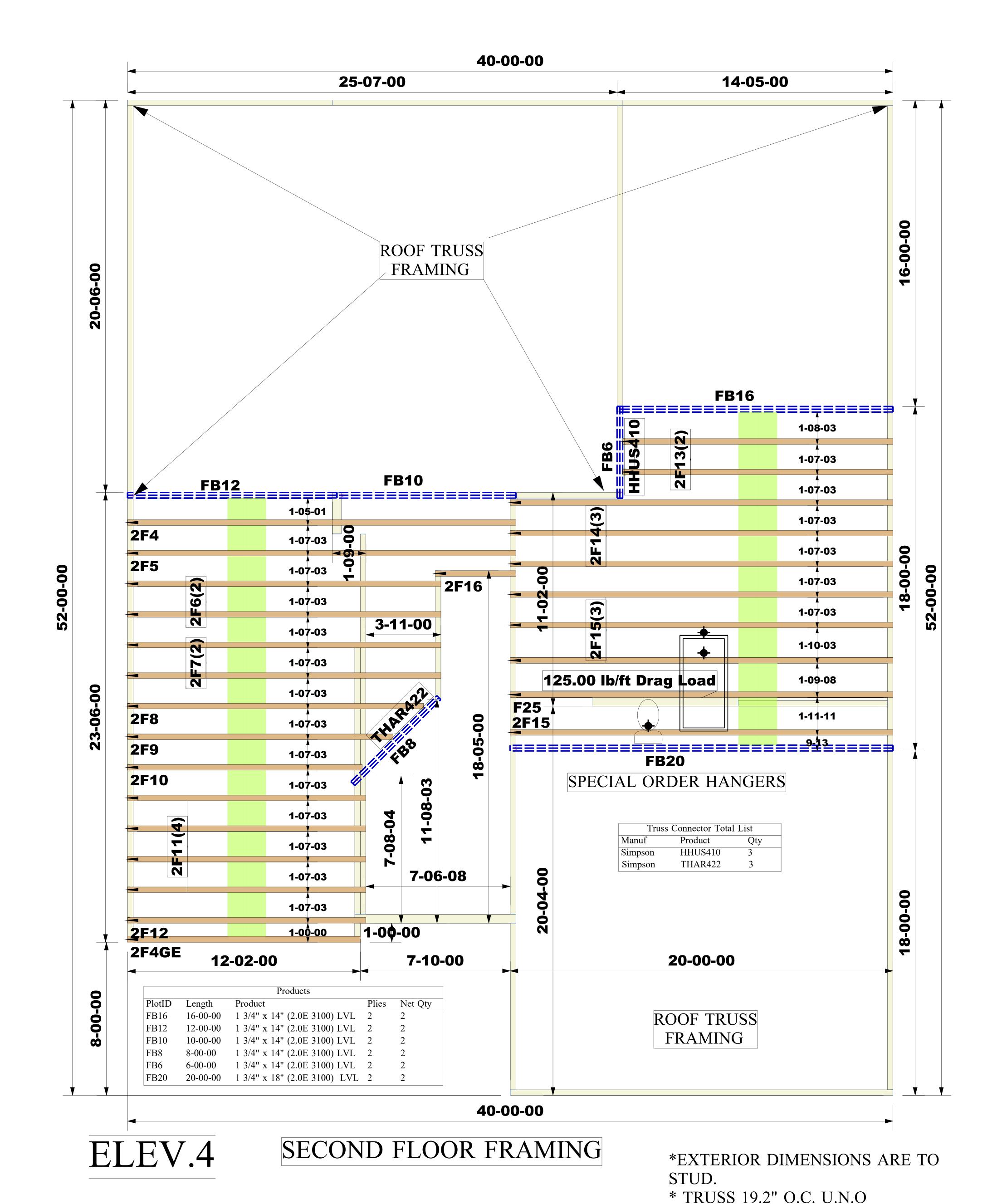
TYPICAL PORCH
POST CONNECTION DETAIL
SCALE: NONE

LETTERED DETAILS ARE TYPICAL FOR ALL APPLICABLE AREAS. THESE

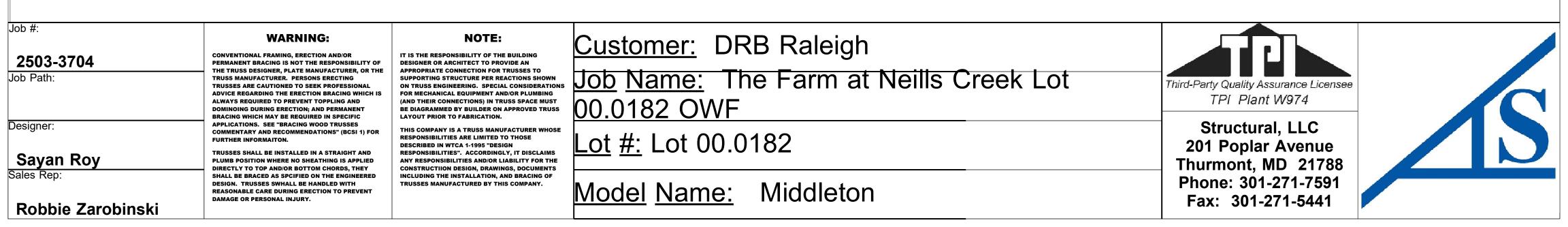
THIS HOME & SHALL BE IMPLEMENTED IN DETAILS ARE NOT "CUT" ON THE PLANS.

*INSTALL 2X4 NAILER ON ALL TOP

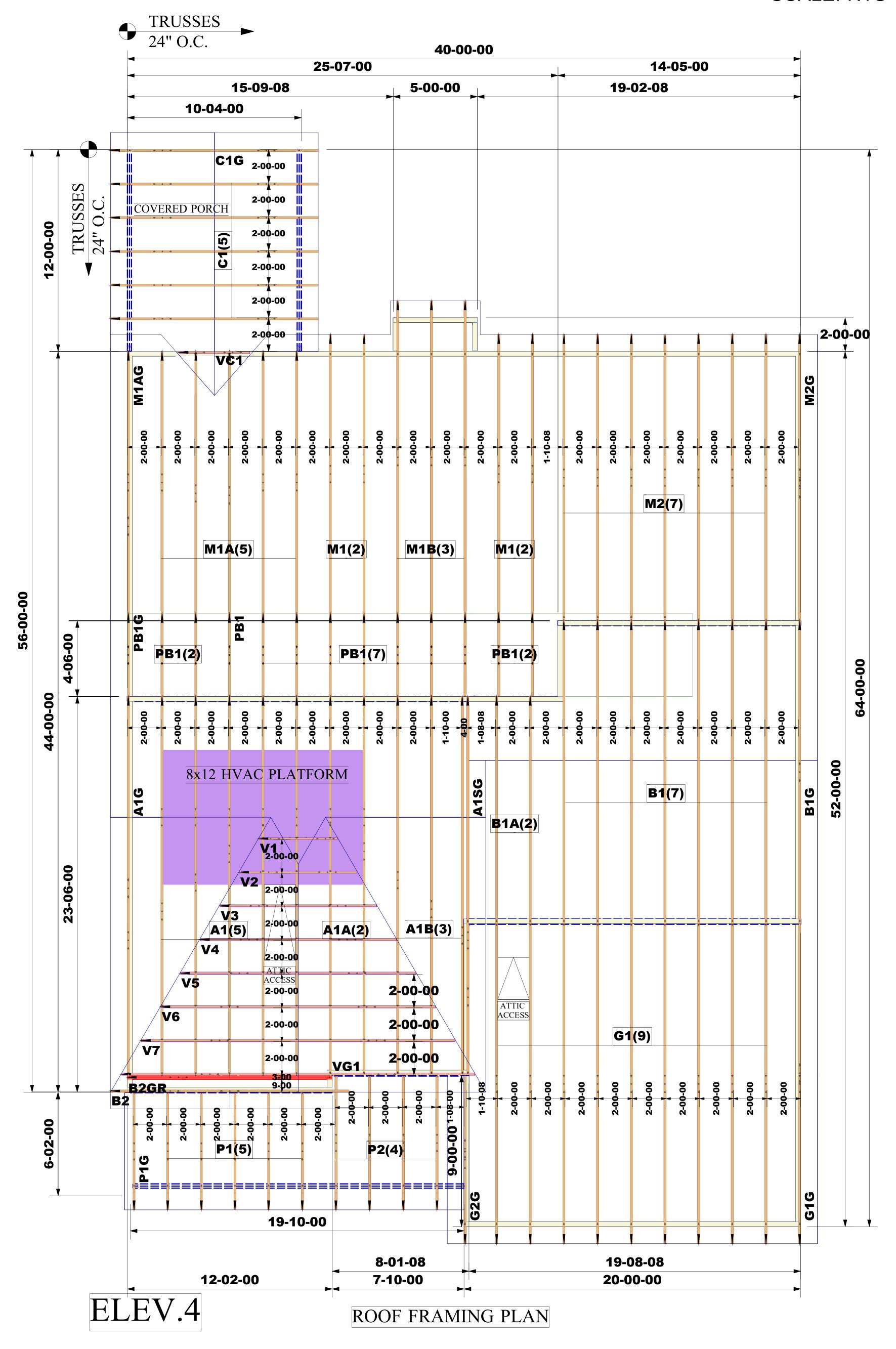
RIBBON NOTCH CONDITIONS.



THE FARM AT NEILL'S CREECK (NC)(RAL)LOT 00.0182 PHASE MODEL-2183-1-MIDDLETON GARAGE RIGHT SIDE



SCALE: NTS



THE FARM AT NEILL'S CREECK (NC)(RAL) LOT 00.0182 PHASE MODEL-2183-1-MIDDLETON
GARAGE RIGHT SIDE
OPT COVERED PORCH

*EXTERIOR DIMENSIONS ARE TO STUD.

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

Truss Connector Total List

Manuf Product Qty

Simpson LUS24 12

		Simpson	H2.5A	121
		Simpson	LUS26	35
OI I COVERED I	Often	Simpson	LUS24	12
OPT COVERED P	PORCH	Manuf	Product	Qty
		Truss Connector 1		al List

