## COOPER 3-RALE

RALEIGH - LOT 00.0081 THE FARM AT NEILL'S CREEK

(MODEL# 1776)

**ELEVATION 6 - GL** 

# 103 HOMES

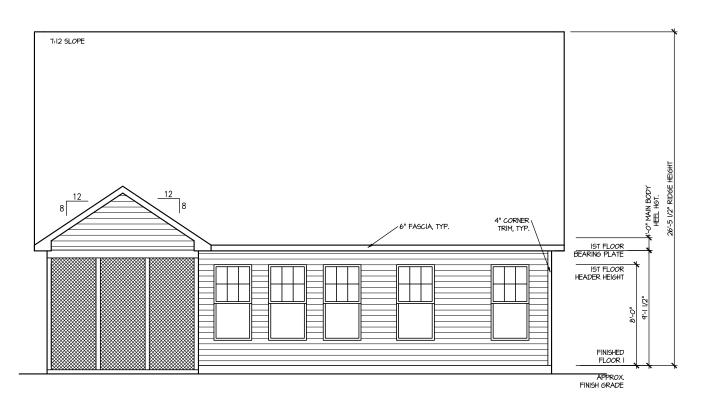
AREA CALCULATIONS  ELEVATION 6	HEATED	COVERED / UNHEATED	UNCOVERED
FIRST FLOOR	1777 SF		
GARAGE	1777 3	394 SF	
FRONT PORCH — ELEVATION 6		37 SF	
THORIT FOROIT ELECTRICATE		0, 0,	
OPTIONS			
SCREEN PORCH		120 SF	
SCILLIA I CILOTI		120 31	
TOTAL	1777 SF	551 SF	
	1777 5	001 01	
	*		

### 161 WINDING CREEK DRIVE

1 LOT 00.0081 THE FARM AT NEILL'S CREEK COOPER 3 REV. RALE 4 ELEVATION 6 2 ADDRESS 161 WINDING CREEK DR LILLINGTON, NC 27546	LOT	LOT SPECIFIC			
COOPER 3 REV. RALE 4 ELEVATION 6	1	LOT 00.0081	THE FARM AT NEILL'S CREEK		
2 ADDRESS 161 WINDING CREEK DR LILLINGTON, NC 27546			COOPER 3 REV. RALE 4 ELEVATION 6		
	2	ADDRESS	161 WINDING CREEK DR LILLINGTON, NC 27546		
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<u>INDEX</u>	

## FRONT ELEVATION 6 SCALE: 1/8" = 1'-0"



REAR ELEVATION 6

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

**=|LE**: Lot 00.0081.dwg DATE: 12/19/2023 10:43 AM

HOMES

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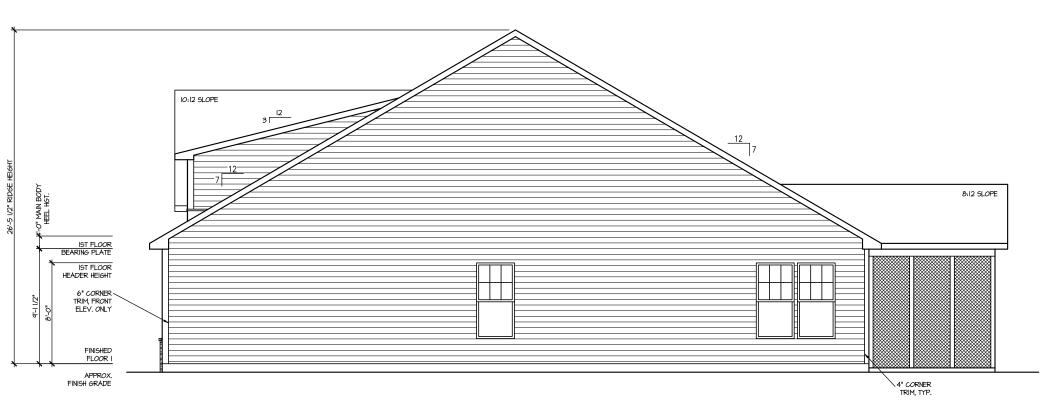
DATE: 12/19/2023

PLAN NO. 1776

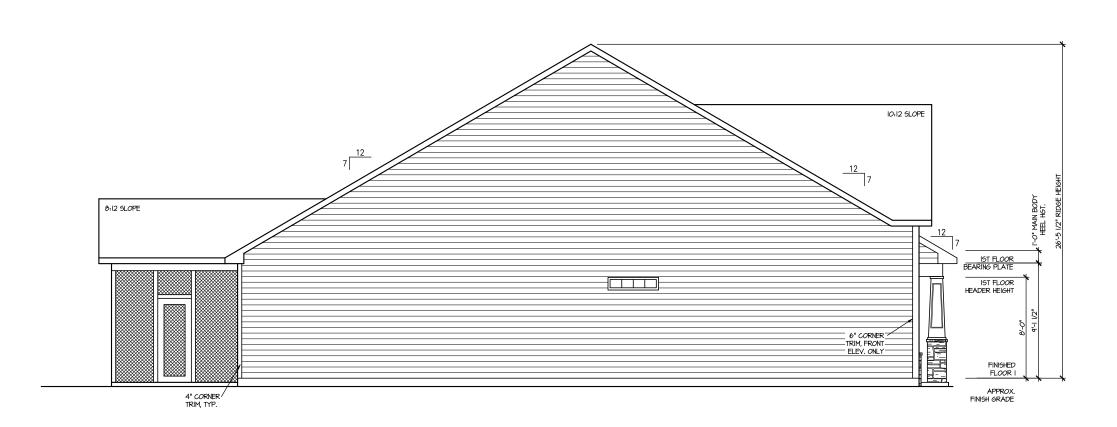
FRONT & REAR ELEVATIONS

HOUSE NAME: COOPER DRAWING TITLE

SHEET No.



## RIGHT ELEVATION 6



LEFT ELEVATION 6

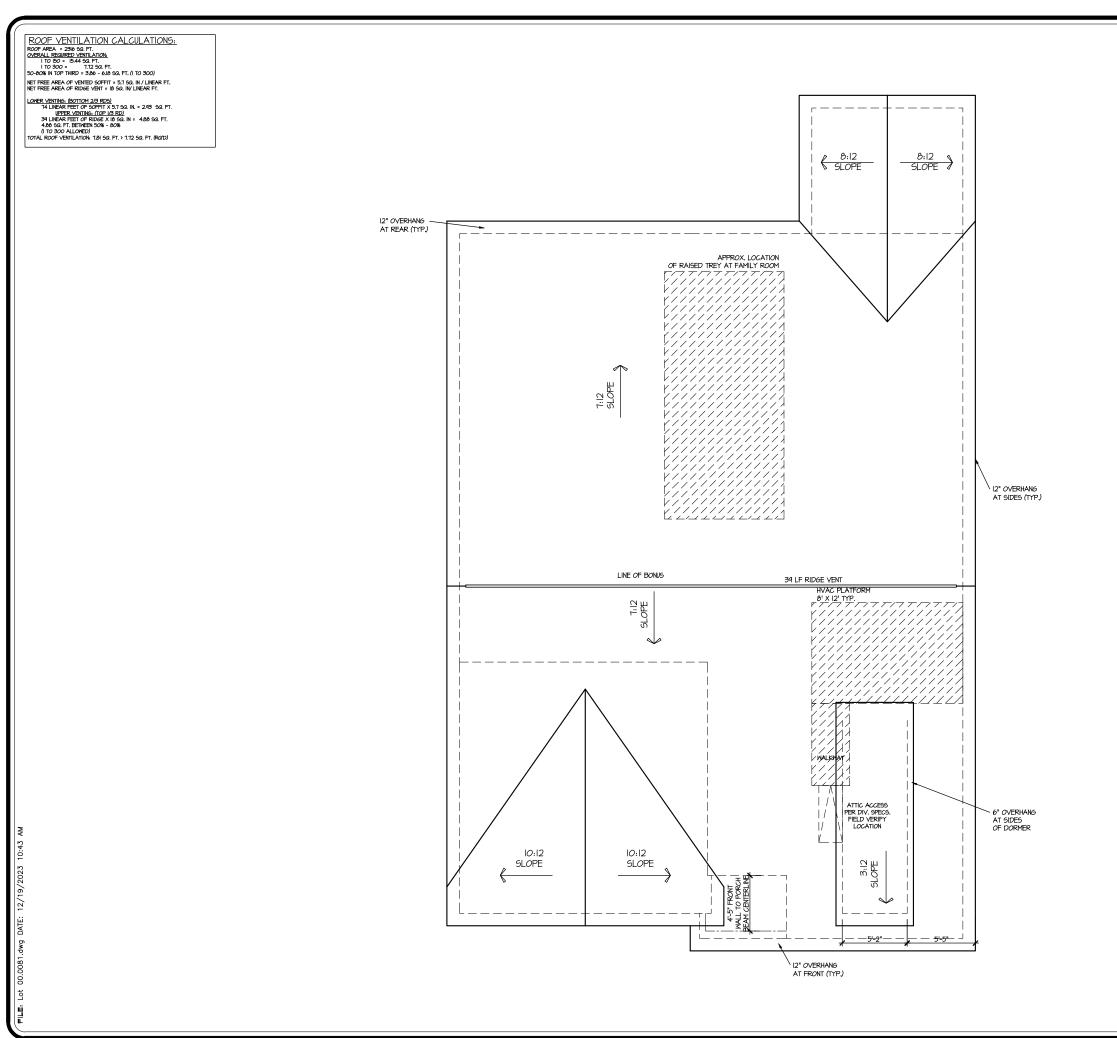
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HOUSE NAME:
COOPER 3
DRAWING TITLE
RIGHT & LEFT ELEVATIONS

DATE: 12/19/2023

PLAN NO. 1776



ROOF PLAN ELEV. 6

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

MASTER PLAN INFORMATION

REVISION DATE

4-RALE 2-24-2022

4-20-2022

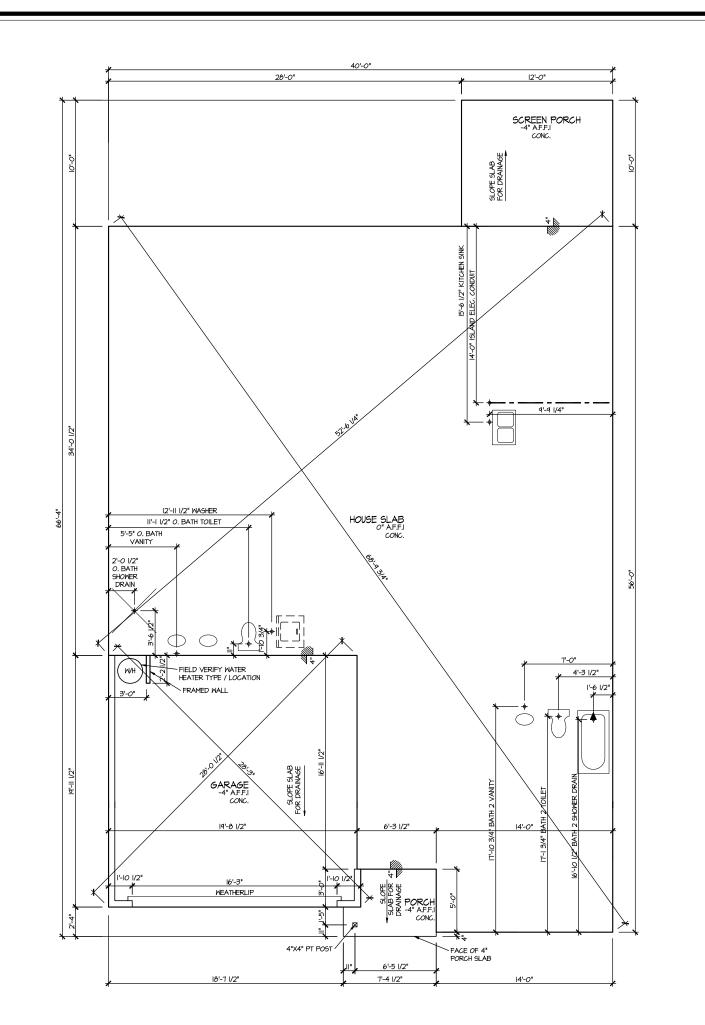
PLAN NO. 1776

HOMES

HOUSE NAME:
COOPER 3
DRAWING TITLE
ROOF PLAN

SHEET No.

AI.3





MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

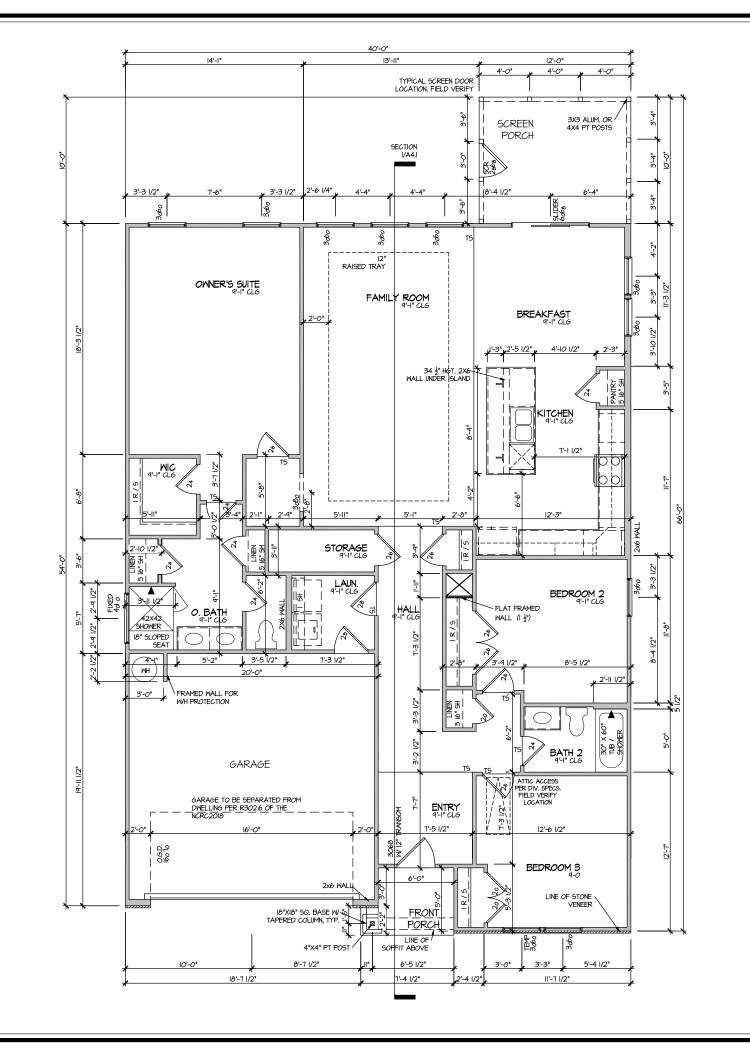
MASTER PLAN INFORMATION

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HOUSE NAME:
COOPER 3
DRAWING TITLE
SLAB PLAN

SHEET No.



ELEVATION 6 FIRST FLOOR PLAN SCALE: 1/8" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION DATE

1.2 - 24 - 2022

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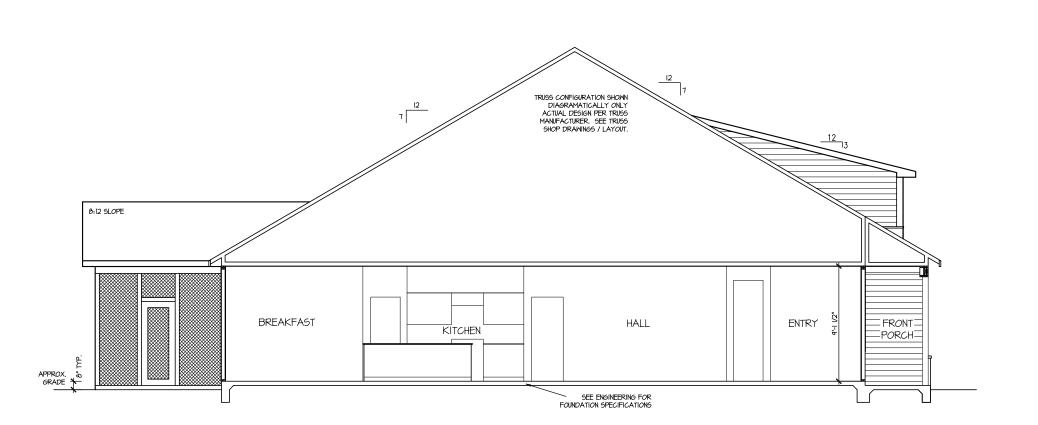
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HOUSE NAME:
COOPER 3
DRAWING TITLE
FIRST FLOOR PLAN

SHEET No. A3.1



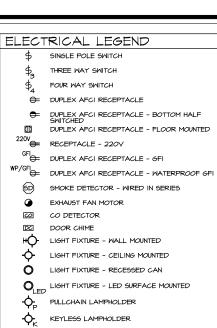
SECTION | SCALE: 1/8" = 1'-0"

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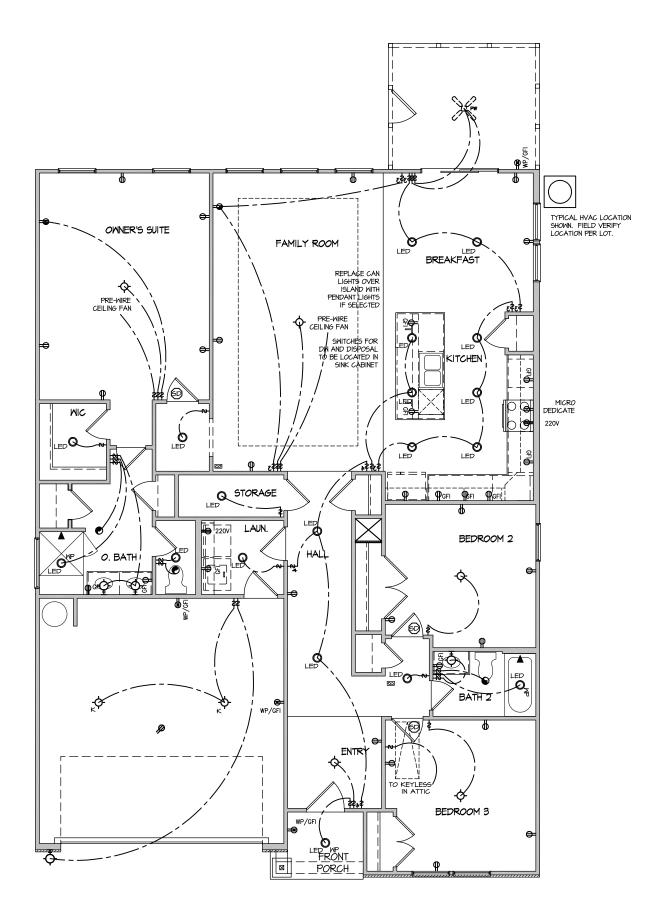


HOUSE NAME:
COOPER 3
DRAWING TITLE
BUILDING SECTION

SHEET No. A4.I



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



ELECTRICAL PLAN FIRST FLOOR - ELEV. 6 SCALE: 1/8" = 1'-0"

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DATE: 12/19/2023 PLAN NO. 1776

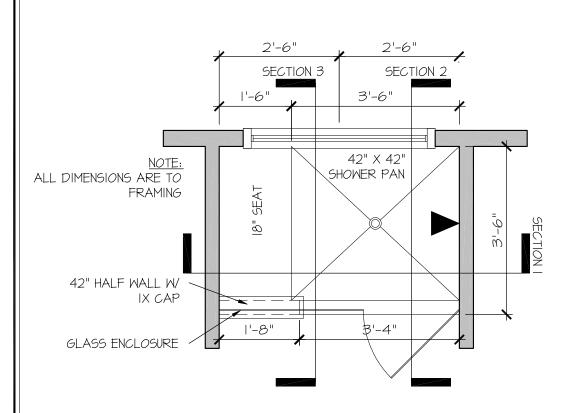


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SHEET No.

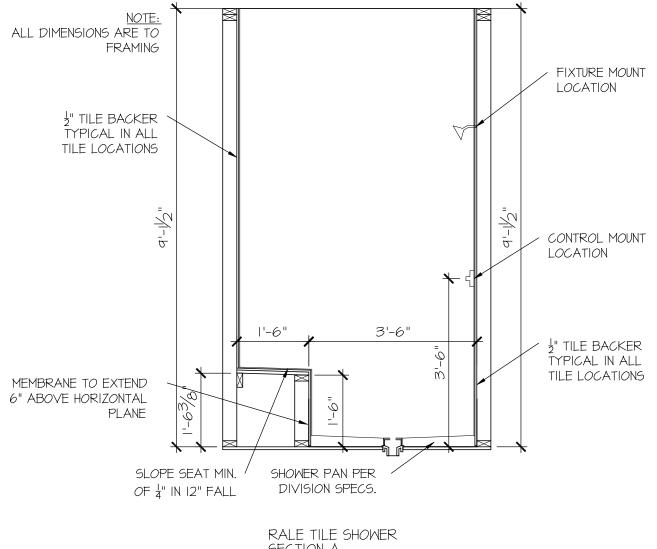
2

OUSE NAME



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

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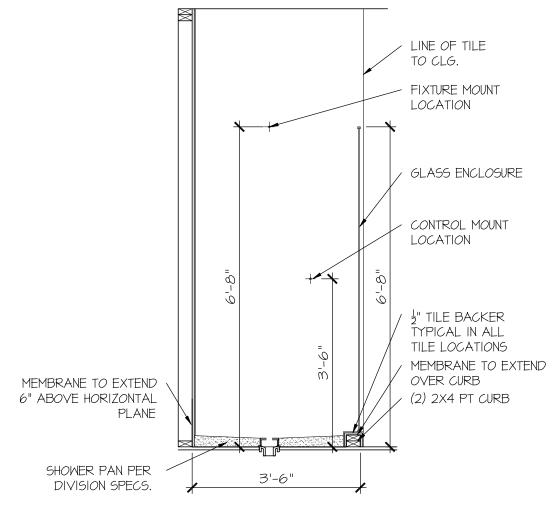


E ILE SHOWER DETAIL

OUSE NAME:

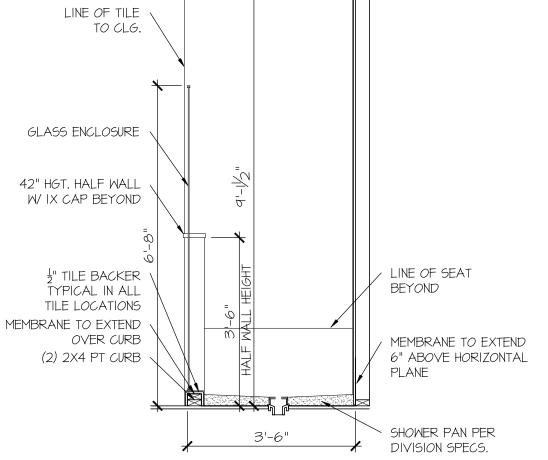
SHEET No.

P||.2



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





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

#### GENERAL STRUCTURAL NOTES

#### **FOUNDATION**

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 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., 7" MIN. EMBEDMENT
- (CONC), 15" MIN. EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- SIMPSON MAB23 ANCHOR STRAPS 2'-8" O.C. (CMU)
- (REFER TO DETAILS FOR 10' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIEY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 € 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACI 316. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, UN.O.:
- 4,000 psi: ...... FOUNDATION WALLS
  2,500 psi: ...... FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: ...... GARAGE & EXTERIOR SLABS ON GRADE 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- 9' OR 10' 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 BOMT, FND, WALL WITH 2" CLEAR, REINFORCEMENT 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 ENTRAINMEN
- 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 INGIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY
- 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 (I:I RATIO), WITH A MAXIMUM OF I:1.5 RATIO
- · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi), MORTAR SHALL E ASTM C270, TYPE S. CMU DESIGN PER ACI 530 \$ 530.1.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORGEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS. FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO VERIEY THAT MODEL HAS BEEN ADEQUATELY TREATED SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY

#### GENERAL STRUCTURAL NOTES

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

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

LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) FLOOR DEAD = IO PSF (I-JOISTS & SOLID SAWN)
IO PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L IO PSF @ TILE)

LATERAL 120 MPH, EXPOSURE B. SEISMIC A/B.

2,000 PSF ASSUMED ALLOWABLE BEARING

#### GENERAL FRAMING

- ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION, ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMEN FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. U.N.O.
- EXT. \$ INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS, @ 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, 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 MITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX., UN.O.)

  • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (I)2x4/6 FLAT ● OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'. ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
- 'L9L' Fb=2325 psi; Fv=3I0 psi; E=1.55xI0^6 psi 'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 psi
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XIO^6 PSI
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES RESULTING FROM OR RELATED TO ANY BUILDING COMPONENT IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALL ATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS ● 8" O/C OR 2 ROWS 1/4"x31/2" SIMPSON SDS SCREWS (OR 31/4" TRUSSLOK SCREWS) @ 16" O/C. USE MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/2" DEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2X6 & 2X8 MEMBERS
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF I4" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE, A SOLID T" BEAM IS ACCEPTABLE.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.

  - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE
- NUMBER OF JACK STUDS REQUIRED, U.N.O.,
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER w/ 3"X0.131" NAILS @ 24" O.C. (MIN.), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND BEARING. BLOCKING TO MATCH POST ABOVE
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('HILTI' X-CF PINS OR EQUAL) • 16" O.C. STAGGERED, OR 1/2" DIA. BOLTS • 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP € ABM44Z BASE, U.N.O.

#### FLOOR FRAMING

- \* I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUE. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN. 09B 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" NAILS @ 6"04. @ PANEL EDGES & @ 12"04. FIELD.
- 2 3 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD. 2 👸 × 0.113" NAILS @ 3" O.C. @ PANEL EDGES \$ @ 6" O.C. IN FIELD.
- #6 x 2" MIN, SCREWS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.

#### ROOF FRAMING

- \*BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN FACH POOF TRISS TO TOP PLATE W/ SIMPSON HOST CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- \* ERECT AND INSTALL ROOF TRUSSES PER WICA & TPI'S BCSLI-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W
  - RIM BOARD W/ (2) 3"x0 131" NAIL S @ 16" OC MAX (1-1015TS) - TRUSS VERTICALS w/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - W/ 2 ½" × 0.131" NAILS @ 6"O.C. @ PANEL EDGES \$ @ 12" O.C. FIELD.
- w/ 2 🖁 × 0.120" NAILS 4"o.c. PANEL EDGES \$ 8" O.C. FIELD.
- W/ 2 👸 × 0.113" NAILS @ 3"O.C. @ PANEL EDGES \$ @ 6" O.C. FIELD.

#### HOLD-DOWN SCHEDULE

	SYMBOL.	SPECIFICATION
	► HD-I	SIMPSON HTT4 HOLD-DOWN *
	► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
ı	HD-3	SIMPSON STHOIA/IAR I HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN % DIA. THREADED ROD INTO CONCRETE FOUNDATION.
PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUE RECOMMENDATIONS DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

#### LEGEND

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

#### 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

#### NOTES:

ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS 5PACED @ 24" O.C. (MAX.)

#### LATERAL BRACING & SHEAR MALL SHEATHING SPECIFICATIONS

- THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
- 20 MPH WIND IN 2018 NCSBC:RC (120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) 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 R602.12 COMPLY CCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIET 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

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

#### BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING W/ 2 36" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 3/4" 16 GA STAPLES (1/6" CROWN) ● 3" O.C. AT EDGES € ● 6"
O.C. IN FIELD, ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.

#### 3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING w/ 8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC, ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

#### NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR ADDITIONAL CAPACITY IS REQUIRED BY DESIGN. T WILL BE SPECIFICALLY NOTED ON PLAN.
- \* DESIGN ASSUMES 16" O.C MAX, STUD SPACING, U.N.O.
- \* ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS:
  FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWALL INDICATES HOLDOWN BELOW

#### ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED DIFFERENTIAL DEFLECTION CRITERIA BELOW UNLESS

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

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

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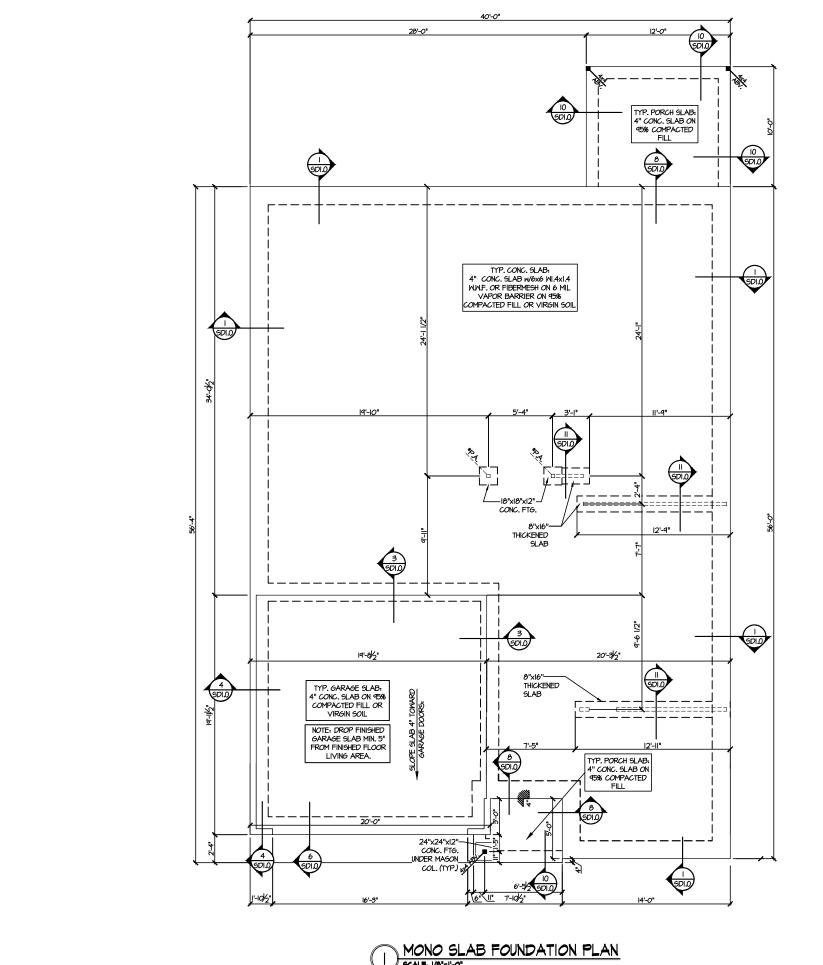
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MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERINS ¥

1/12/24

M&K project number: 126-22076

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REVISIONS:

initial:

1 AT NEIL'S CREEK COOPER 6

OUNDATION PLANS

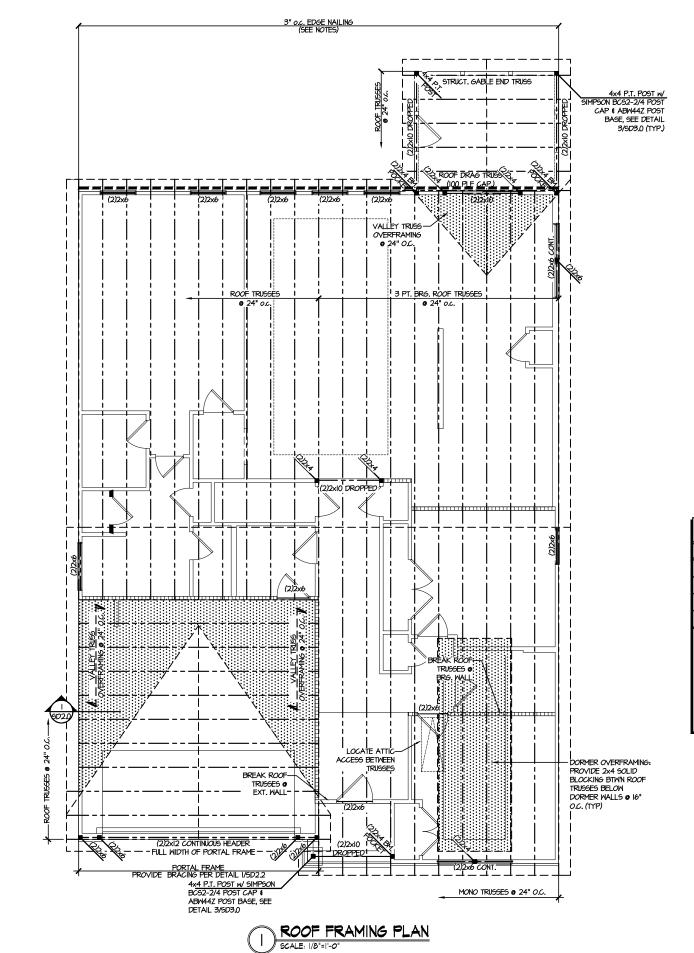
LEGEND

- 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

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

FARM / LOT 81 - CO



MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERINS

TH CAR



1/12/24

M&K project number: 126-22076

JTR drawn by: LAN ssue date: 01-11-24

REVISIONS:

initial:

ENGINEERED BEAM MATERIAL SCHEDULE LVL OPTION STEEL OPTION PSL OPTION LSL OPTION FLITCH OPTION (2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES -(2)13/4"×113/4" - F 3%"xII%" - F (3)134"x1136" - F WI2xI4 - F (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES -(3)134"x1136" - F (4)1¾"x11%" - F 5¼"xII%" - F WI2xI4 - F (2)2xl2 + (I) %"xll4" STEEL FLITCH PLATES - F

(2)13/4"x11 1 - D

(2)134"x1136" - F

002

003

004

BEAM NOTATION:

- "F" INDICATES FLUSH BEAM

- "FT" INDICATES FLUSH TOP BEAM

- "FB" INDICATES FLUSH BOTTOM BEAM

- "D" INDICATES DROPPED BEAM

3½"xII%" - F

3½"x|| ¼" - D

- 'D' INDICATES DROHTED BEAM
- 'H' INDICATES DROPTED OFENIIS HEADER
REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL 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"X01.20" NAILS • 8" O.C.
FOR FLUSH BOTTOM BEAMS PROVIDE 2X STACKED PLATES ATOP BEAM AS REQ'D. FASTEN
PLATES IN SUCCESSION W (2) 3"X01.20" NAILS • 8" O.C.

(3)1¾"x11%" - F

(2)134"x1136" - D

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

#### LEGEND

(2)2xi0 + (i) %"xil4" STEEL FLITCH PLATES - D

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

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

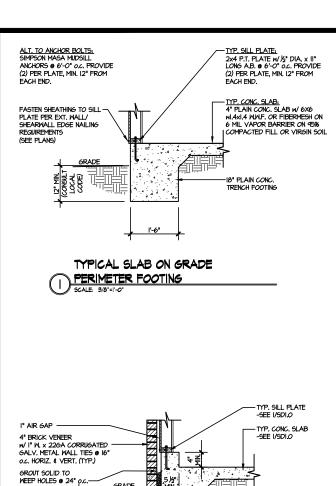
WI2xI4 - F

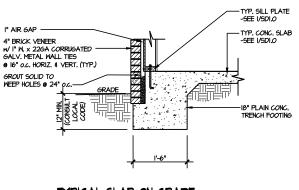
WBXIO - D

CREEK NEIL'S R 6 OOF FRAMING AT

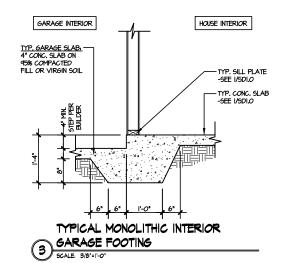
COOPER FARM , lot 81 - cc raleigh, n

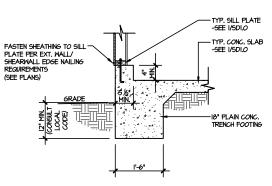
**S2.0** 



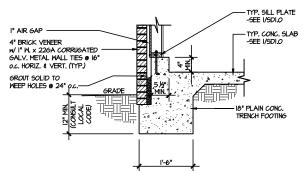


#### TYPICAL SLAB ON GRADE 2 PERIMETER FOOTING w/ BRICK VENEER SCALE: 3/8"=1"-0"

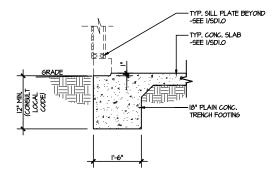




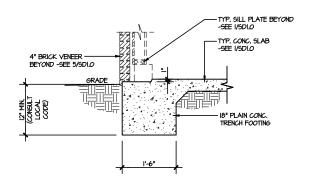




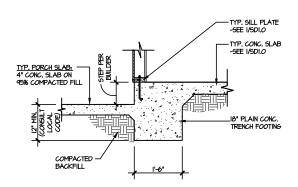




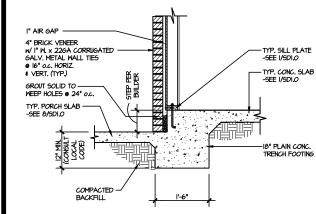
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING



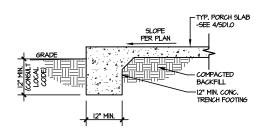
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



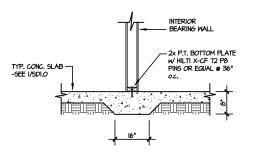
TYPICAL SLAB ON GRADE PERIMETER B FOOTING @ PORCH/PATIO



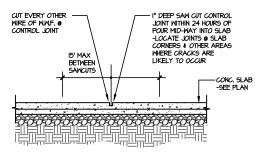




TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL





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.

LETTERED DETAILS ARE TYPICAL FOR

CREEK

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oundation Detail

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M&K project number 126-22076

frawn by:

REVISIONS:

JTF

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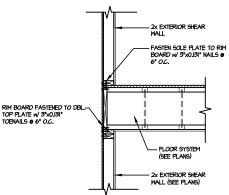
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ssue date: 01-11-24

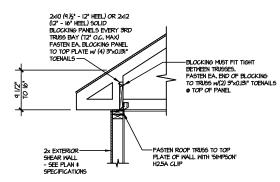
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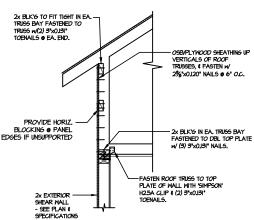
### TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 3/8'=|'-0'



#### TYPICAL SHEAR

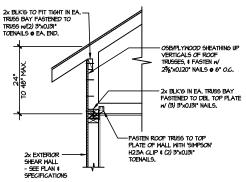
TRANSFER DETAIL @ ROOF

SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D

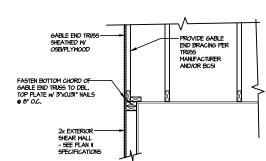


#### TYPICAL SHEAR TRANSFER

HEEL HEIGHT GREATER THAN 48"



#### 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 M&K project number: 126-22076

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RESIDENTIAL STRUCTURAL ENSINEERINS

1/12/24

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> JTR LAN drawn by: ssue date: 01-11-24

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FRAMING DETAILS
FARM AT NEIL'S CI
LOT 81 - COOPER 6
RALEIGH, NC

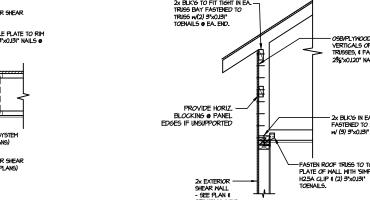
**SD2.0** 

NUMBERED DETAILS ARE PLAN

WHERE SPECIFICALLY INDICATED

("CUT") ON THE PLANS.

LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE



DETAIL @ RAISED HEEL TRUSS

SHEAR TRANSFER DETAIL @
BREAK IN TRUSSES OVER SHEAR WALL
8641-0" - 2264
969-1-0" - 1841

FASTEN BOTTOM CHORD
OF DRAG TRUSS OF
PER PLAN

FASTEN BOTTOM CHORD
OF DRAG TRUSS OF
PER PLAN

ROOF TRUSSES

PER PLAN

ROOF TRUSSES

PER PLAN

INTERIOR 2x SHEARWALL

SEE PLAN FOR SPECIFICATIONS

SHEAR TRANSFER DETAIL

AT INTERIOR SHEARMALL BELOW

SCALE 344-1-0"

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. RESIDENTIAL STRUCTURAL ENGINEERING
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SOBMINIST AN ENGINEERING
PATROCOURAL ENGIN

1/12/24

TH CAR

OSEPH T. RI

M&K project number: 126-22076

initial:

project mgr: JTR
drawn by: LAN
issue date: 01-11-24

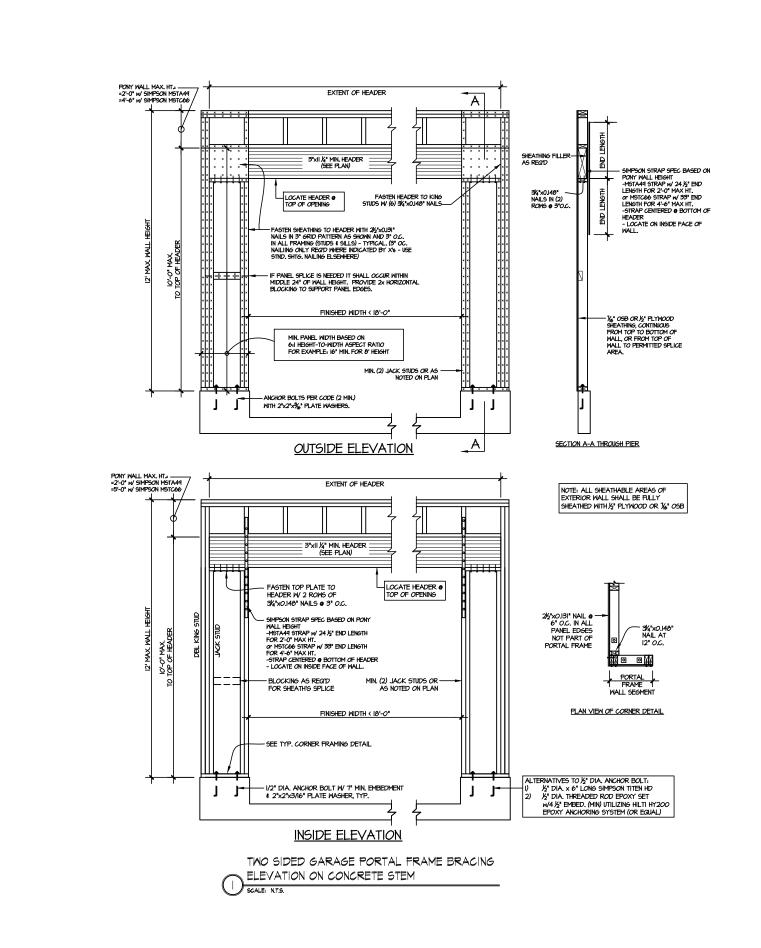
REVISIONS:

date:

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FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 81 - COOPER 6
RALEIGH, NC

sheet: SD2.1



MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERINS Y

1/12/24

TH CAR

OSEPH T. RI

M&K project number: 126-22076

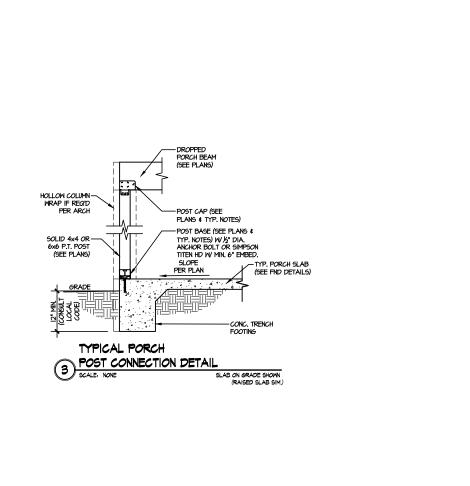
JTR LAN drawn by: ssue date: 01-11-24

REVISIONS:

initial:

FARM AT NEIL'S CREEK Lot 81 - Cooper 6 Raleigh, nc FRAMING DETAILS

**SD2.2** 



1/12/24 MULHERN+KULP RESIDENTIAL STRUCTURAL ENSINEERINS

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M&K project number: 126-22076

JTR LAN drawn by: issue date: 01-11-24

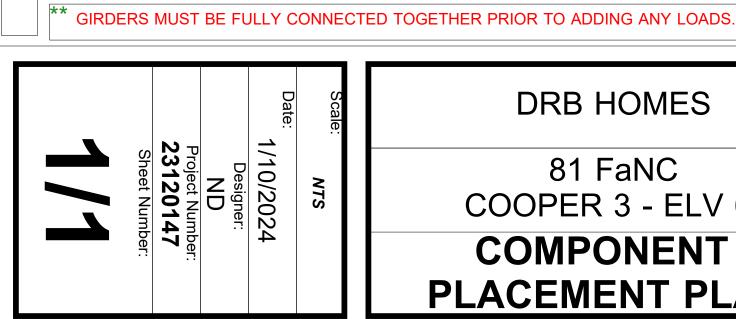
REVISIONS:



FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 81 - COOPER 6

SD3.0

Truss Drawing Left End Indicator





81 FaNC COOPER 3 - ELV 6 COMPONENT

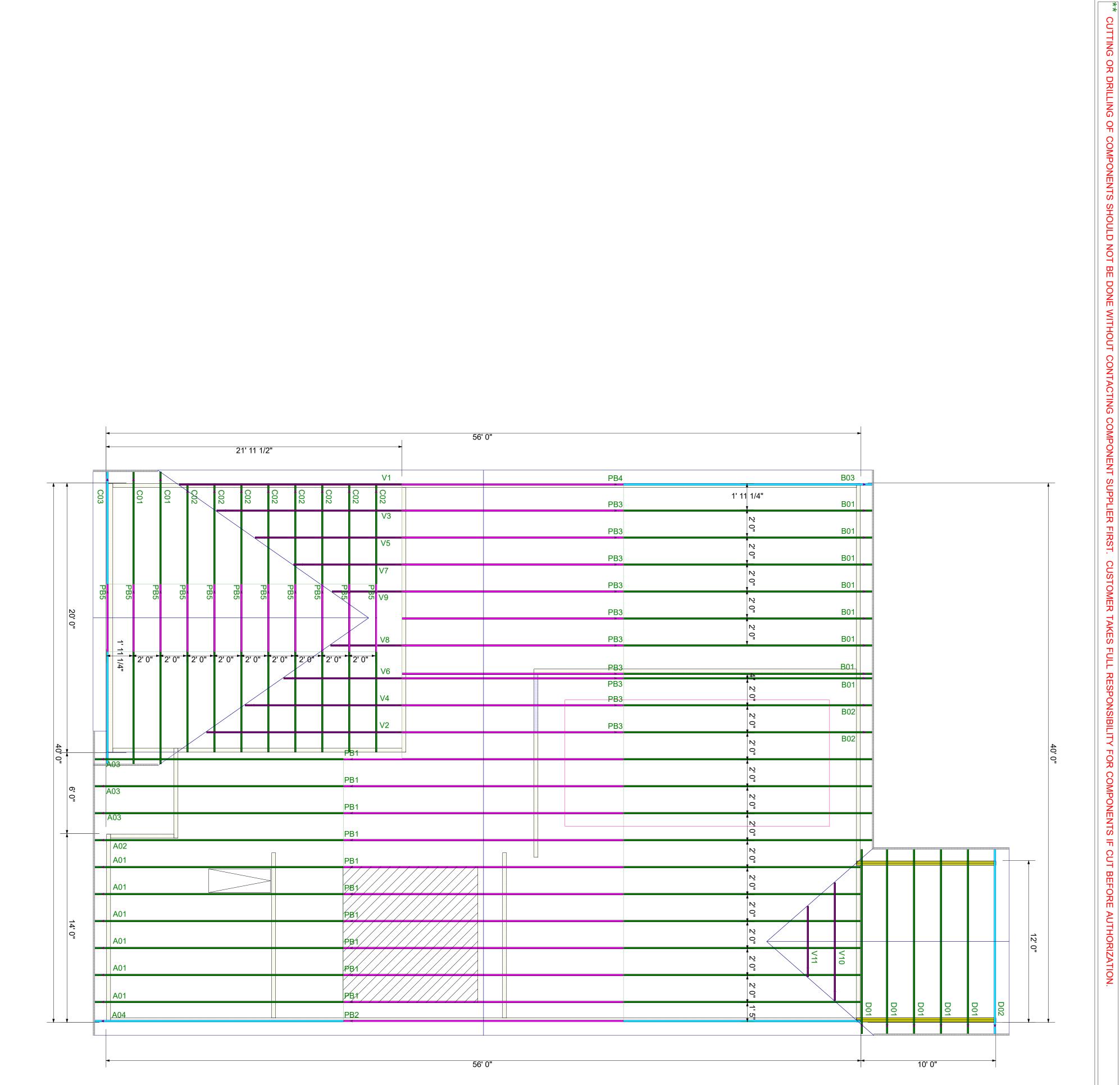
**PLACEMENT PLAN** 



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179 Drive: Madison, WI 53179

00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 Name Name Name

\*\* ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.



\*\* DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

\*\* TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.