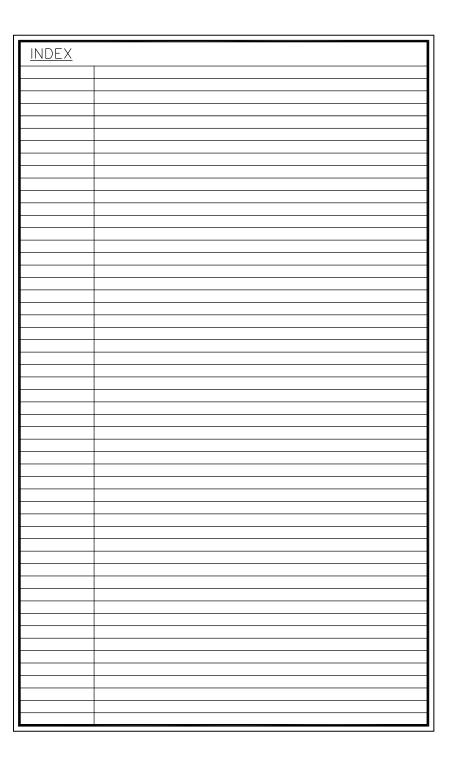
DRAYTON-RALE

RALEIGH-LOT 00.0088 THE FARM AT NEILL'S CREEK

(MODEL# 2695) ELEVATION 1 - GL

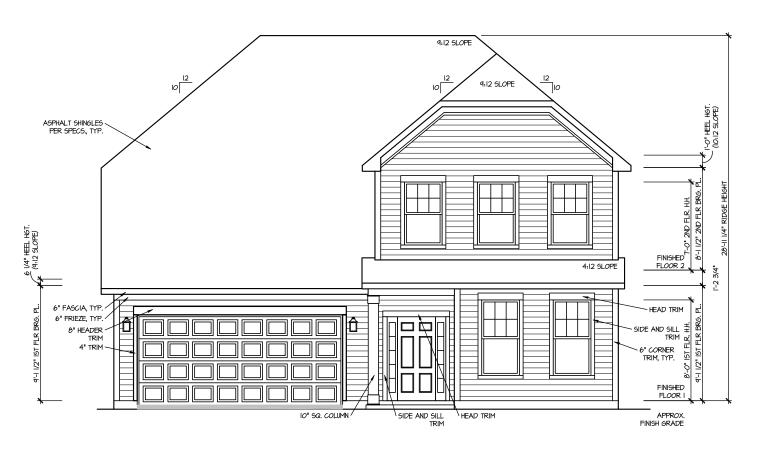




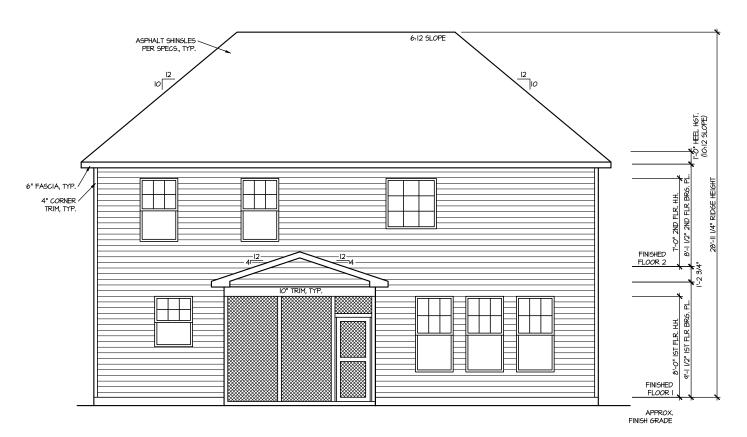
| ADEA CALCIII ATIONS | | | | |
|---------------------------|-----|---------|-----------------------|-----------|
| <u>area calculations</u> | | | COVERED / | |
| ELEVATION 1 | | HEATED | COVERED / UNHEATED | UNCOVERED |
| FIRST FLOOR | | 1266 SF | | |
| GARAGE | | 1200 01 | 547 SF | |
| FRONT PORCH — ELEVATION 1 | | | 53 SF | |
| TRONT FORCH - ELEVATION I | | | 33 31 | |
| CEOONID ELOOD | | 4470 05 | | |
| SECOND FLOOR | | 1430 SF | | |
| | | | | |
| OPTIONS | | | | |
| SCREEN PORCH | | | 120 SF | |
| | | | | |
| | | | | |
| TC | TAL | 2696 SF | 720 SF | |
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69 WINDING CREEK DRIVE

| LOT | SPECIFIC | |
|-----|-------------|--|
| 1 | LOT 00.0088 | THE FARM AT NEILL'S CREEK |
| | | DRAYTON REV. RALE 2 ELEVATION 1 |
| 2 | ADDRESS | 69 WINDING CREEK DR LILLINGTON, NC 27546 |
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FRONT ELEVATION I SCALE: 1/8" = 1'-0"



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

Lot 00.0088.dwg DATE: 5/18/2023 1:29 F

DRAWN BY:

ITS

DATE:

05/18/2023

PLAN NO.

2695

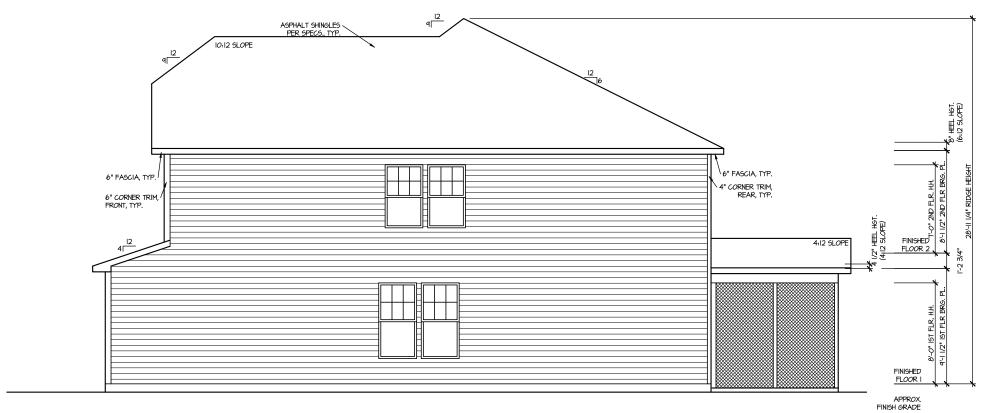


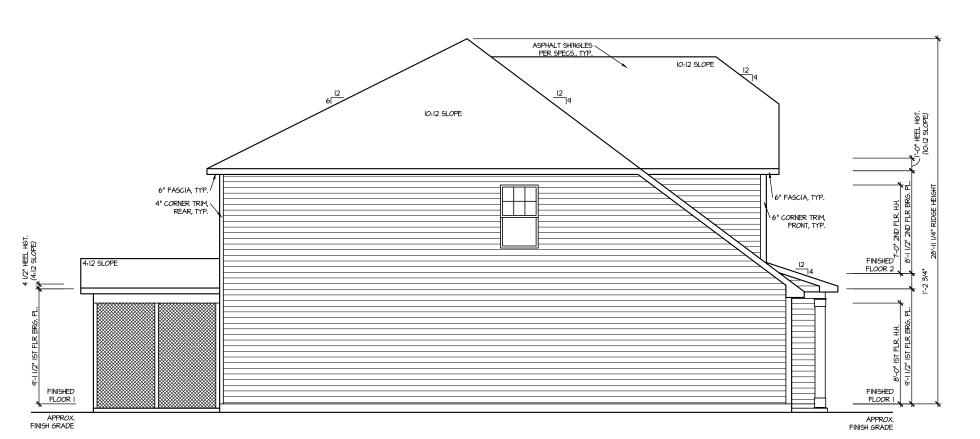
FRONT & REAR ELEVATIONS

HOUSE NAME:

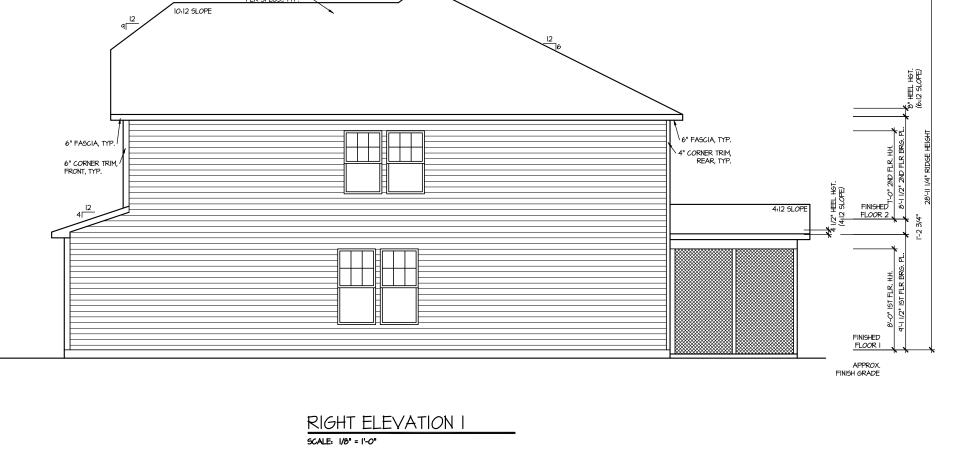
DRAYTON

DRAWING TITLE





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



DATE: 05/18/2023

PLAN NO. 2695

RIGHT & LEFT ELEVATIONS

HOUSE NAME:

DRAYTON

DRAWING TITLE

ROOF VENTILATION CALCULATIONS: ROOF AREA = 1T15 50. FT.
OVERALL REQUIRED VENTILATION:
1 TO 150 = 11.83 50. FT.
1 TO 300 = 542 50. FT.
50-80% IN TOP THIRD = 2.46-4.66 FT. (1 TO 300)

NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT. NET FREE AREA OF RIDGE VENT = 18 SQ. IN/ LINEAR FT.

LOWER VENTING: (BOTTOM 2/3 RDS)

T5 LINEAR FEET OF SOFFIT X 5.1 SQ. IN. = 2.46 SQ. FT.

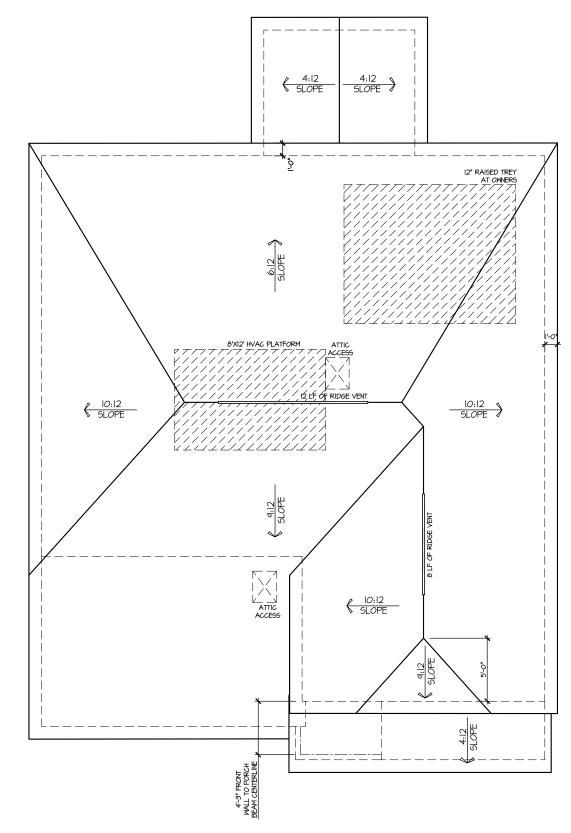
UPPER VENTING: (TOP 1/3 RD)

24 LINEAR FEET OF RIDGE X IB SQ. IN = 3 SQ. FT.

3 SQ. FT. BETINEEN SO% - 80%

(I TO 300 ALLOWED)

TOTAL ROOF VENTILATION: 5.46 SQ. FT. > 4.66 SQ. FT. (RQID)



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

DRAWN BY: DATE: 05/18/2023

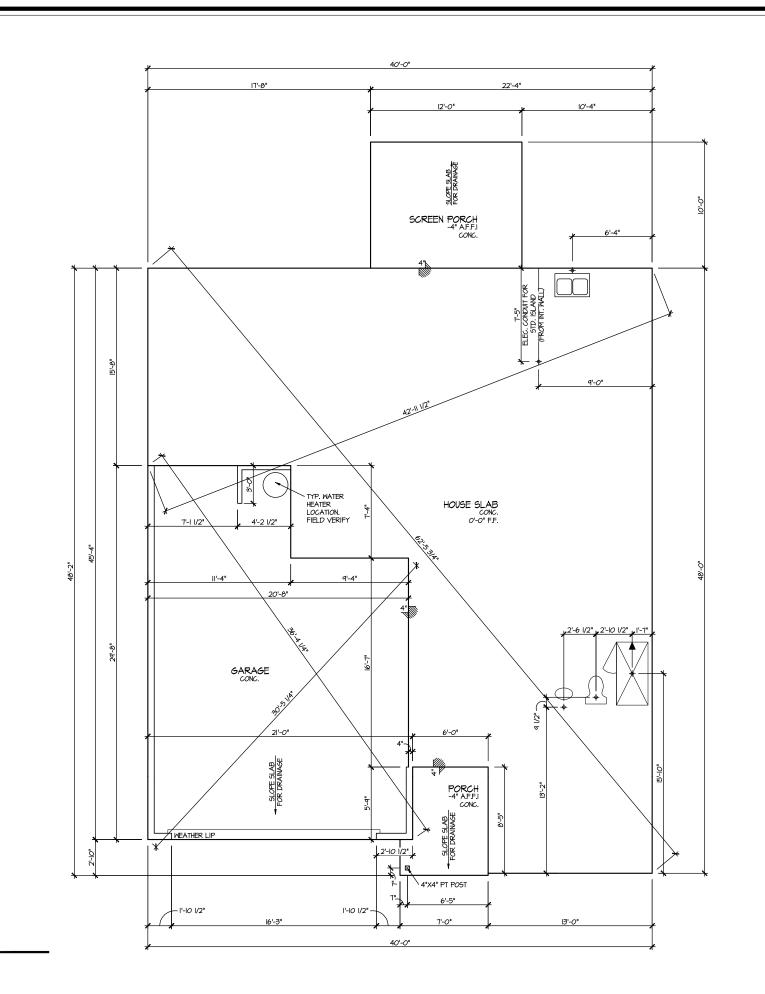
PLAN NO. 2695



HOUSE NAME:

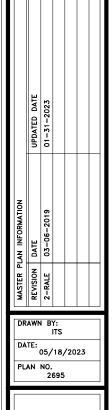
DRAYTON

DRAWING TITLE ROOF PLAN



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ELEVATION I SLAB PLAN scale: 1/8" = 1'-0"



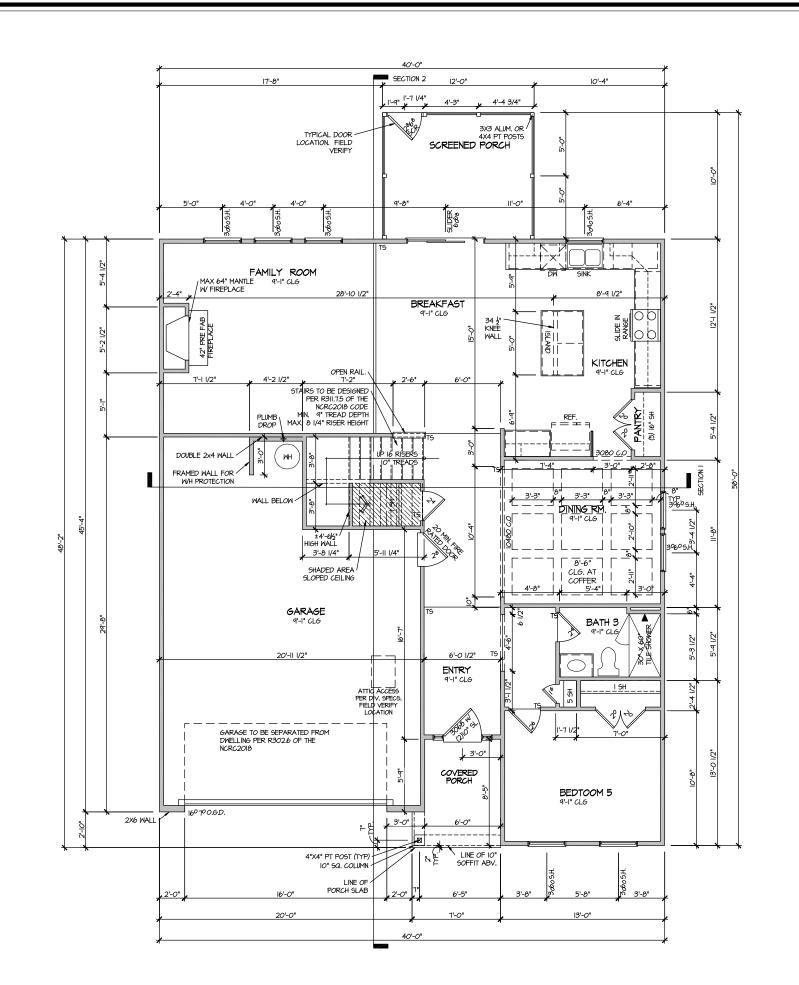
HOMES

HOUSE NAME:

DRAYTON

DRAWING TITLE

SLAB PLAN



ELEVATION I FIRST FLOOR PLAN SCALE, 100" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION DATE

2-RALE 03-06-2019

01-31-2023

LOS NOT ST-2023

HOMES

HOUSE NAME:

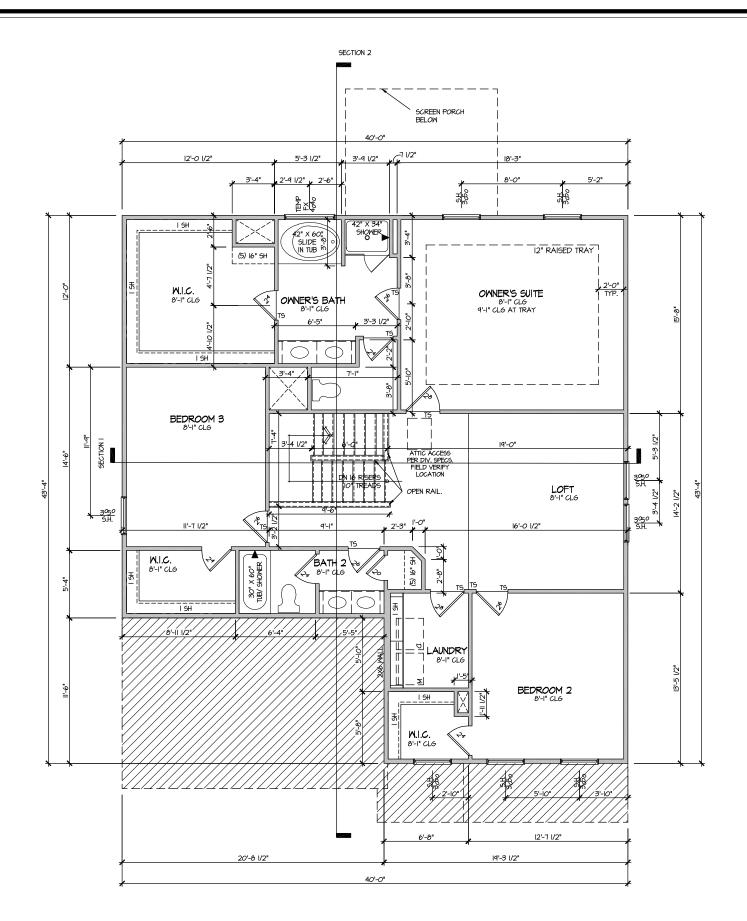
DRAYTON

DRAWING TITLE

FIRST FLOOR PLAN

SHEET No.

A3.1



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

MASTER PLAN INFORMATION

REVISION DATE

2-RALE 03-06-2019 01-31-2023

SILE 03-06-2019 01-31-2023

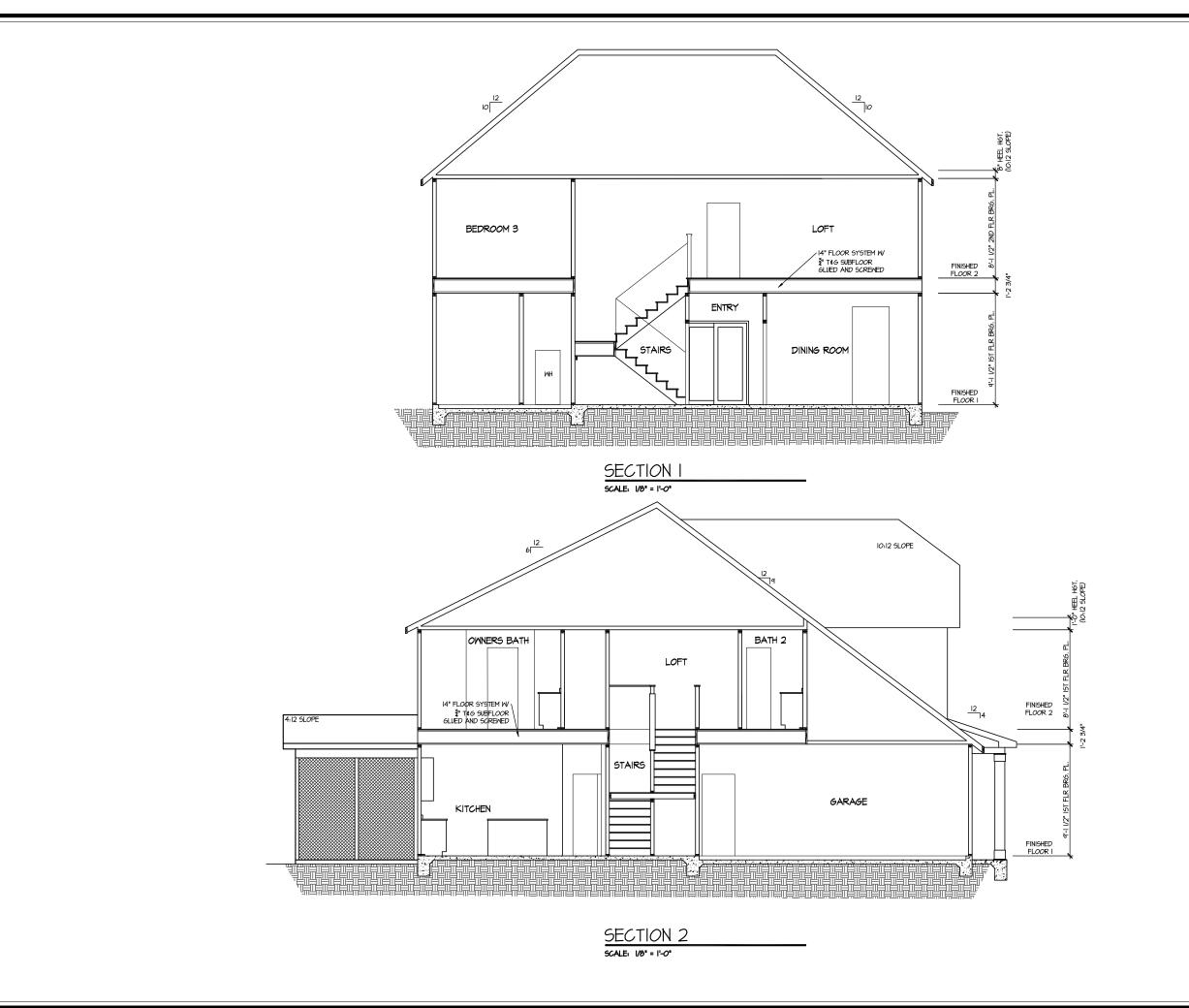
HOUSE NAME:

DRAYTON

DRAWING TITLE

SECOND FLOOR PLAN

SHEET No. A3.2



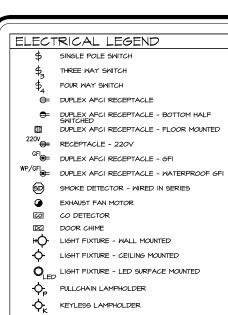
HOMES

HOUSE NAME:

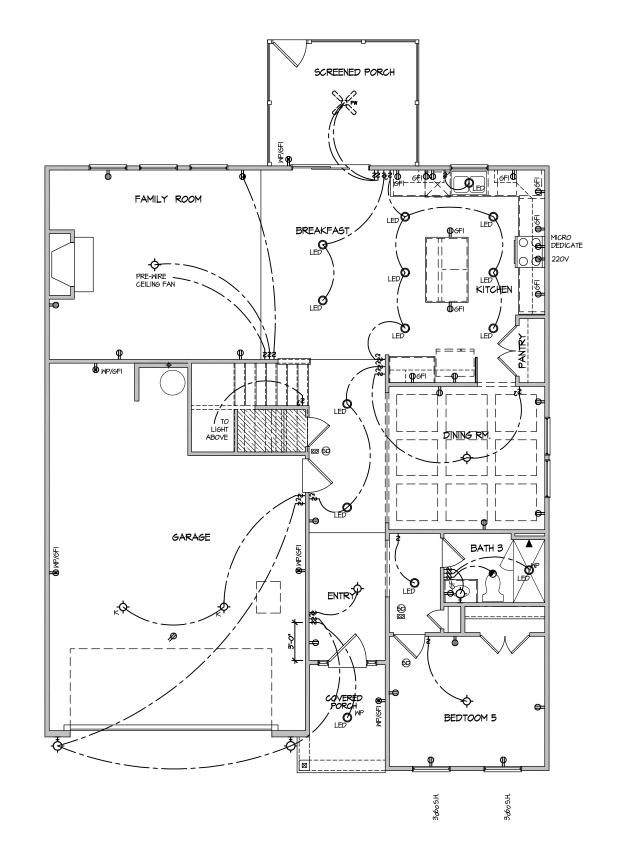
DRAYTON

DRAWING TITLE

BUILDING SECTION



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. I

HOUSE NAME:

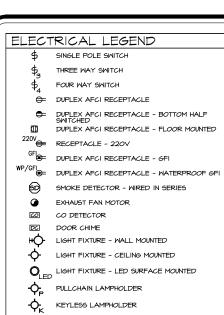
DRAYTON

DRAWING TITLE FIRST SHEET No.

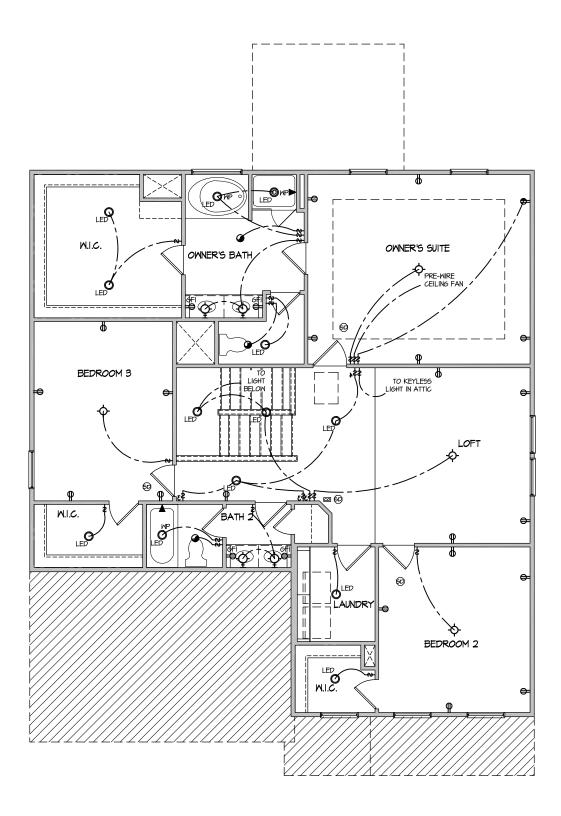
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PLAN NO. 2695

FLOOR ELECTRICAL



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

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EI.2

SHEET No.

HOUSE NAME:

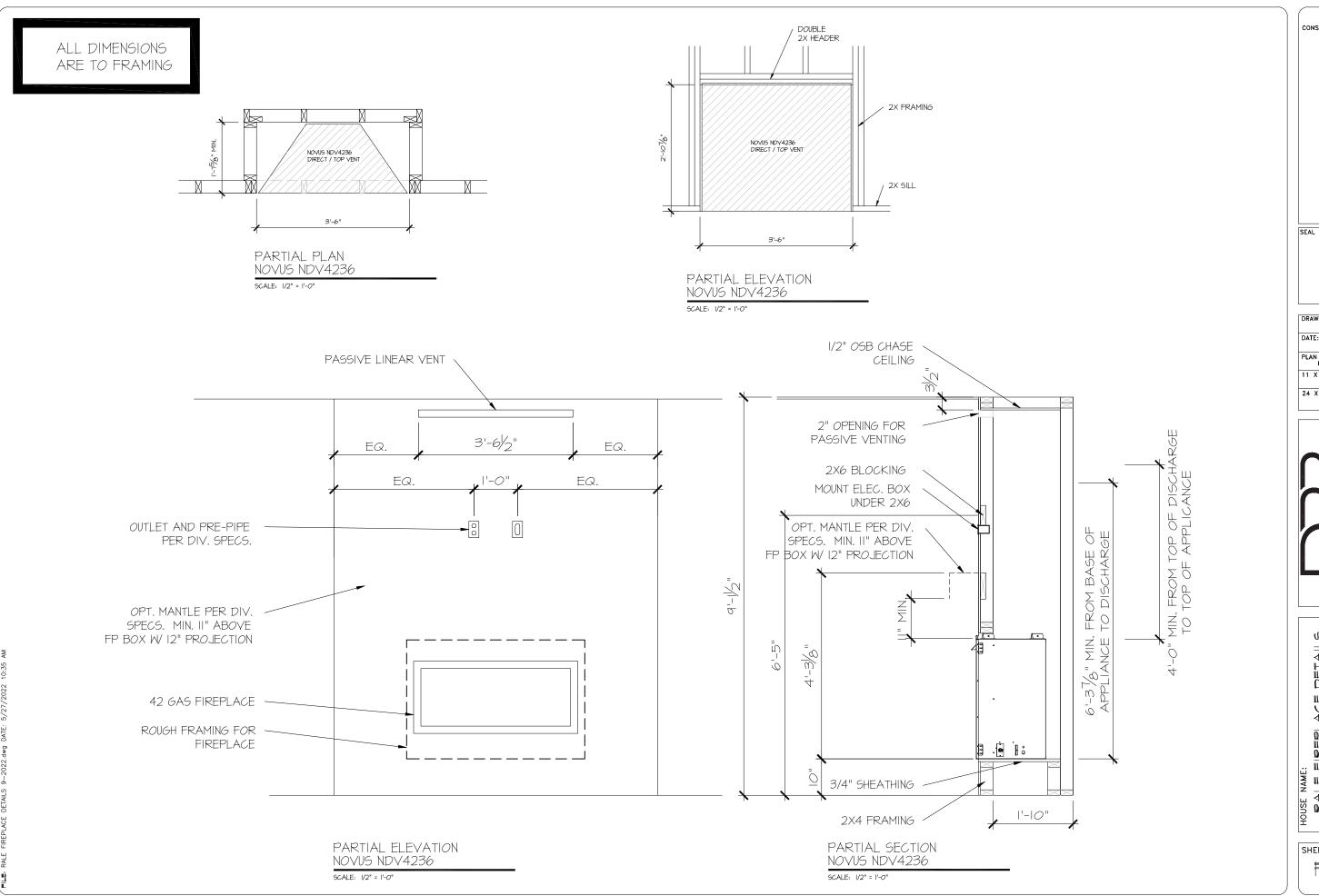
DRAYTON

DRAWING TITLE

SECOND FLOOR ELECTRICAL

DRAWN BY:

DATE: 05/18/2023 PLAN NO. 2695



CONSULTANT LOGO

DRAWN BY: DATE:

PLAN NO. L. BEAVERS 11 X 17 SCALE 9-8-22 24 X 36 SCALE

N/A

HOUSE NAME:
RALE FIREPLACE DETAILS
DRAWING TITLE
RALE FIREPLACE DETAIL
INTERIOR GAS UNITS

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 26 DAYS, UN.O.:
- 4,000 psi: FOUNDATION WALLS
 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE
- 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE feq 000,00
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- . 9' OR 10' HEIGHT (AS NOTED ON PLANS)
- TALLER WALLS MUST BE ENGINEERED. NOMINAL WIDTH (91/2" 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 DE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 € 530.I.
- 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 = 1 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 RESSURE (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 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, U.N.O. . WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (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=I.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 $3\,\%$ " OR $5\,\%$ BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2X6 & 2X6 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 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"X0.131" 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 MEK 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) H25T 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 🖁 x 0.120" NAILS @ 4"0c. @ PANEL EDGES \$ @ 8" O.C. FIELD.
- W/ 2 👸 × 0.113" NAILS @ 3"O.C. @ PANEL EDGES \$ @ 6" O.C. FIELD.

HOLD-DOWN SCHEDULE

| 5YMB0L | 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) |
| µp_3 | SIMPSON STHOLA/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:
- 120 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

- 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, 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, & I-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)

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

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1&K project numbe 126-22076

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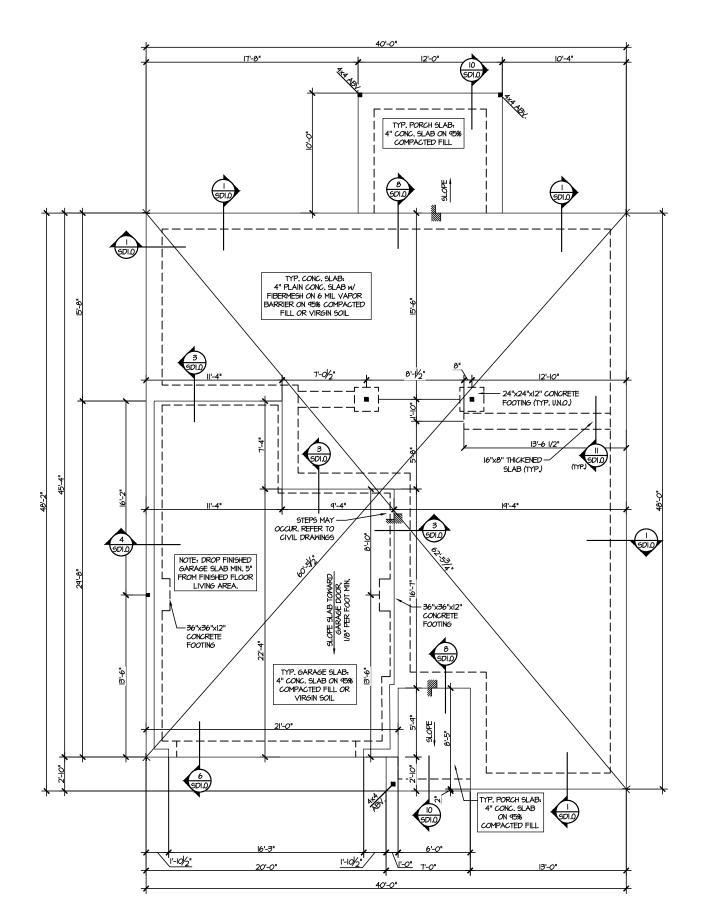
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SEPHT. RI MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING

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M&K project number: 126-22076

JTR RPP drawn by: ssue date: 05-25-23

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NEIL'S CREEK OUNDATION PLANS AT

LEGEND

• = = INDICATES SHEAR WALL & EXTENT

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

REFER TO SO.O FOR

• IIIIIII INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE

EXTENT OF OVERFRAMING

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

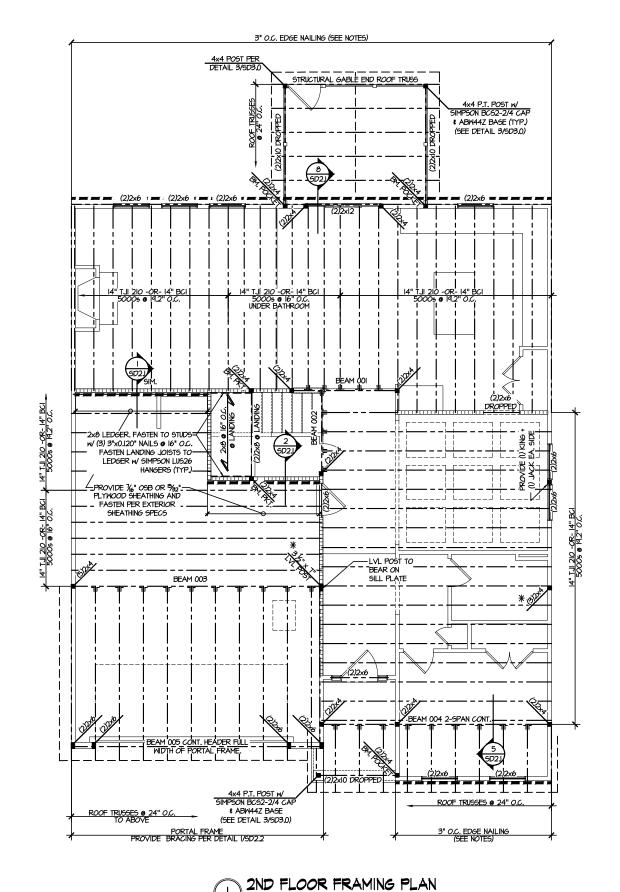
• --- BEAM / HEADER

JL METAL HANGER

LOT 88 - DRAYTON 1 RALEIGH, NC FARM

TYPICAL STRUCTURAL NOTES **S1.0** & SCHEDULES

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



ENGINEERED BEAM MATERIAL SCHEDULE STEEL OPTION LVL OPTION PSL OPTION LSL OPTION FLITCH OPTION (2)2x12 + (1) ¼"x1¼" STEEL FLITCH PLATES - FB 001 (2)13/4"x14" - F (2)13/4"x14" - F WI2xI4 - F 002 (2)2xi2 + (i) ¼"xil¼" Steel Flitch Plates - FB (2)|%"x|4" - F (2)13/4"×14" - F WI2xI4 - F 3½"xl4" - F (3)2xl2 + (2) %"xli以" STEEL FLITCH PLATES - FB (3)134"x18" - FB *o*r (2)134"x20" - FB 003 WI2x26 - F 5¼"xi8" - FB N/A (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - FB 004 (2)13/4"×14" - F (2)194"×14" - F 3½"xl4" - F WI2xI4 - F (3)2xl2 + (2) ¼"xll%" STEEL FLITCH PLATES - H cont. 005 (2)134"×1136" - H cont. 3½"x11%" - H cont 2)134"x1136" - H cont N/A (3)2xl2 + (2) ¼"xll"/6" STEEL FLITCH PLATES - H cont. 3)13/4"x14" - H cont. 51/4"x14" - H cont N/A NΑ (2)2x12 + (1) ¼"x14" STEEL FLITCH PLATES - FB 006 (I)13/4"×14" - F 3½"x14" - F (2)13/4"x14" - F WI2xI4 - F (2)2xi2 + (I)从"xii以" STEEL FLITCH PLATES - D 001 (2)13/4"×113/6" - D 3½"x||%" - D (2)13/4"×113/6" - D WI0x12 - D (3)2xl2 + (2) 片"xl以" STEEL FLITCH PLATES - H cont. 008 '2)13¼"x16" - H cont. 3½"x16" - H cont. N/A (2)2x10 + (1) ¼"x4¼" STEEL FLITCH PLATES - F 009 (2)134"×944" - F 3½"x9¼" - F (2)134"×94" - F Môxi0 - F (2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - FB 010 (2)13/4"x14" - F 36"x|4" - F (2)13/4"x14" - F WI2xI4 - F (2)2xl2 + (I) 从"xli以" STEEL FLITCH PLATES - FB (2)13/4"×14" - F WI2xI4 - F (2)13/4"x14" - F 3½"xl4" - F (2)2xl2 + (I) 从"xli以" STEEL FLITCH PLATES - D 012 (2)1¾"x11%" - D 3½"x||½" - D (2)134"x1136" - D WI0x12 - D

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

- 'HE' INDICATES PROPED BEAM
 'H' 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 SITEL BEAM CONNECTIONS
 FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W (2) 3"X0J20" NAILS @ 8" O.C.
- FOR FLUSH BOTTOM BEAMS PROVIDE 2X STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"XOJ20" NAILS 8" O.C.

SD2, REFERS TO SD2, IA FOR

LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

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.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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&K project number 126-22076

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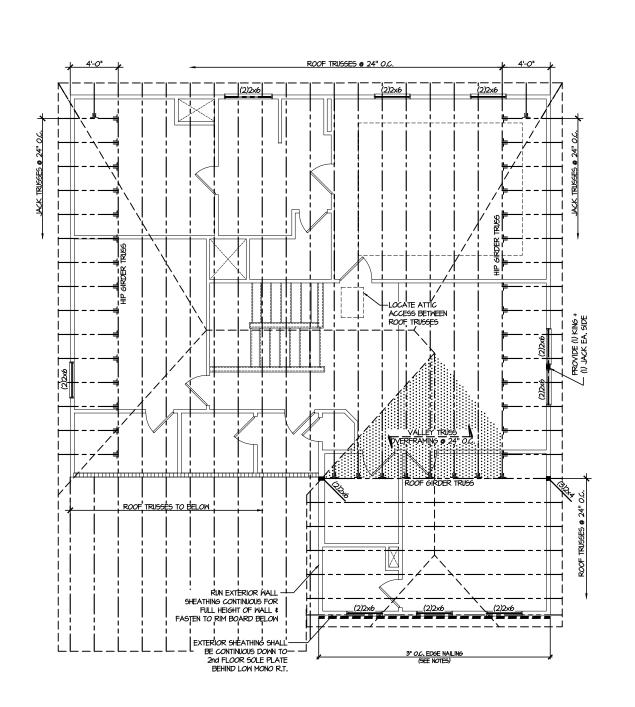
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CREEK PLANS NEIL'S RAMING

DRAYTON AT OOR FARM 00 LOT

S2.0



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

SEPH T. RI MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING

H CAR



5/25/23

M&K project number: 126-22076

JTR RPP drawn by: ssue date: 05-25-23

REVISIONS:

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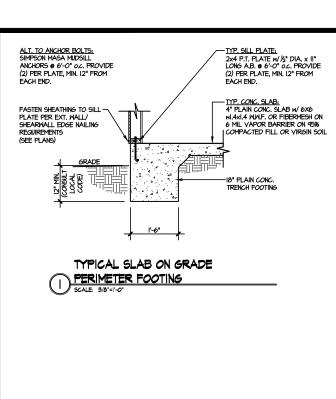


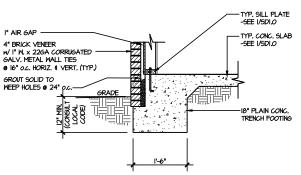
ROOF FRAMING PLANS

LEGEND

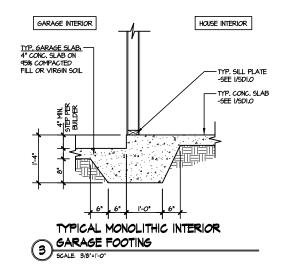
- IIIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- --- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- * INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

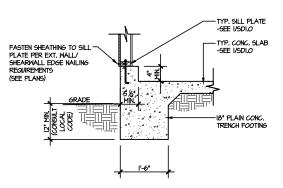
REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



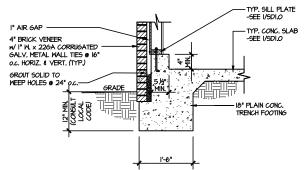




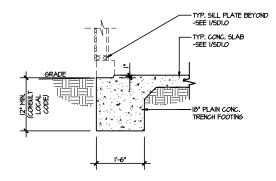




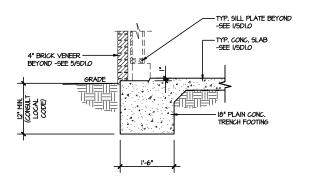




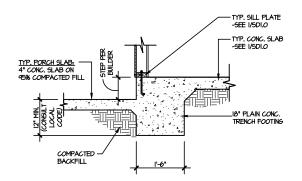




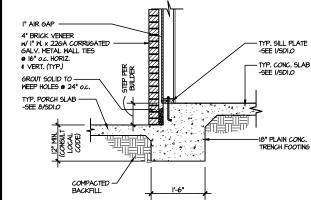
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING



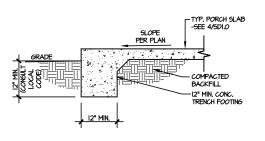
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



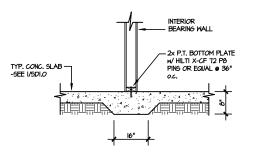
TYPICAL SLAB ON GRADE PERIMETER B FOOTING @ PORCH/PATIO



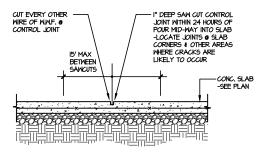
TYPICAL SLAB ON GRADE PERIMETER POOTING @ PORCH/PATIO



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL



A SCALE: 3/8"=1"-0" LOCATE @ 15'-O" o.c. MAX. OR CORNERS WHERE CRACKS LIKELY TO DEVELOP

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 THIS HOME & SHALL BE IMPLEMENTED IN

CREEK

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AT

FARM

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M&K project number 126-22076

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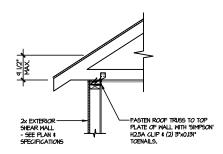
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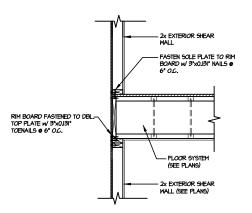
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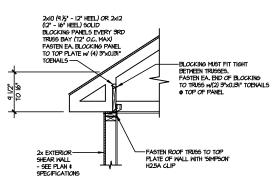


TYPICAL SHEAR

TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT LESS THAN HEEL HEIGHT LESS THAN 引点" NO BLOCKING REQ'D



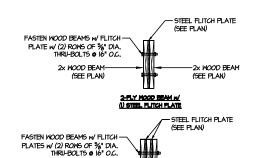
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 3/8"=1"-0"



TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 3/8':1'-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D



2x WOOD BEAM

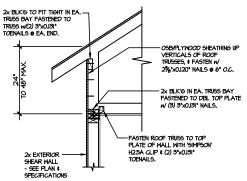
(SEE PLAN)

(SEE PLAN)

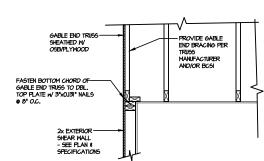
S-FLY OR MORE MOOD BEAM IN/ (2 OR MORE) STEEL FLITCH FLATES

-2x WOOD BEAM (SEE PLAN)

TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 844-1-67

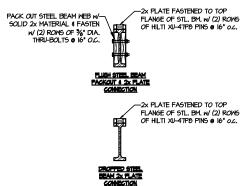


TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS

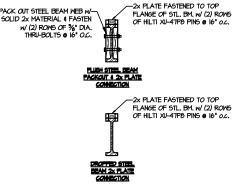


TYPICAL GABLE END DETAIL

SCALE: 3/8°=1-0'



TYPICAL STEEL BEAM CONNECTION DETAIL
SCALE 944*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.

CREEK FRAMING DETAILS FARM AT NEIL'S (LOT 88 - DRAYTON 1 LOT 88 - I RALEIGH,

5/25/2

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RESIDENTIAL STRUCTURAL ENGINEERINS

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M&K project number: 126-22076

ssue date: 05-25-2

drawn by:

REVISIONS:

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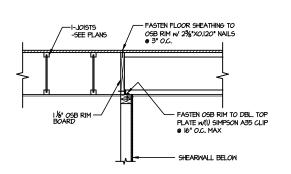
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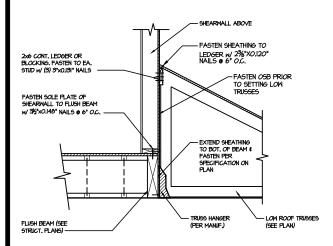
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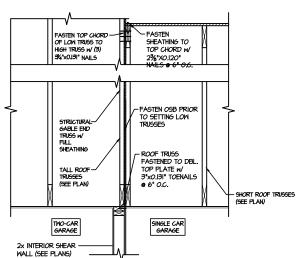
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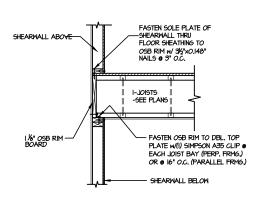
SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 3/4"=1"-0" PAF



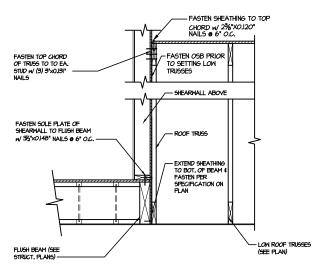
SHEAR TRANSFER DETAIL @ 5 EXTERIOR SHEARWALL ABOVE



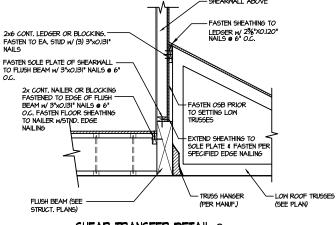
TYPICAL SHEAR TRANSFER DETAIL BETWEEN GARAGE BAYS



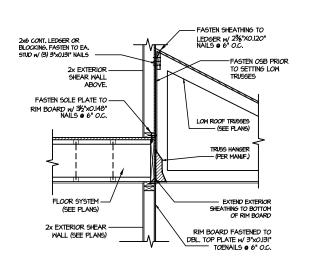
SHEAR TRANSFER DETAIL @ INT. 2 SHEARWALL ABOVE & BELOW SCALE: 3/4*=1/-0*



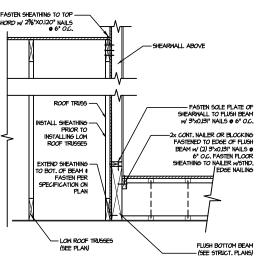
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



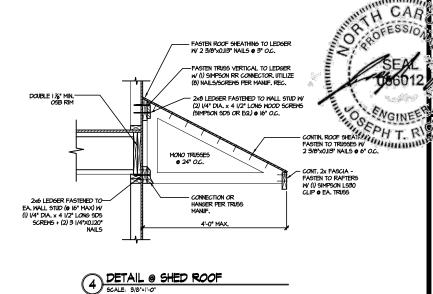
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

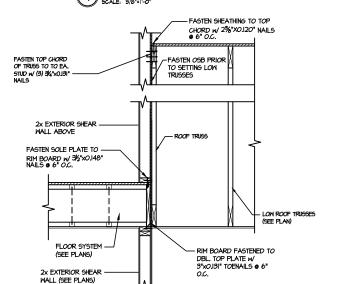


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARMALL ABOVE





TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

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CREE ETAIL NEIL'S RAMING D ATDRAYT FARM 00 LOT

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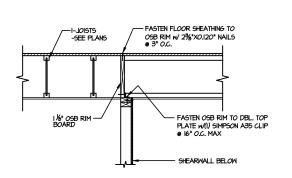
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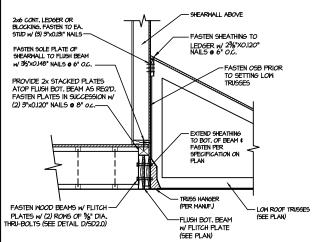
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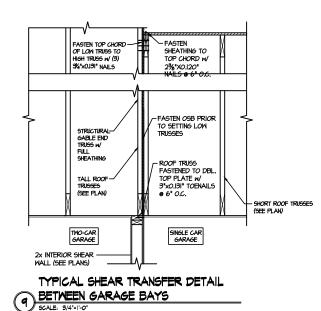
FASTEN SHEATHING TO TOP CHORD W 23/6"XO.120" NAILS 6 6" O.C.

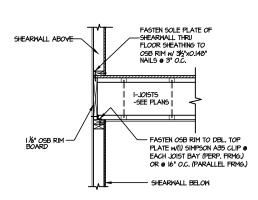


SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 3/4'=1'-0'

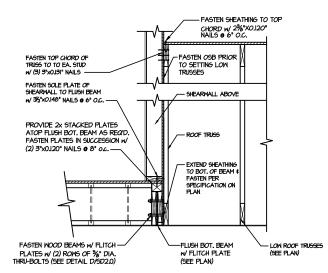


SHEAR TRANSFER DETAIL @ 5 EXTERIOR SHEARWALL ABOVE

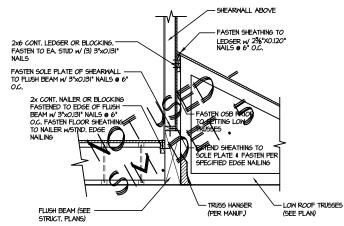




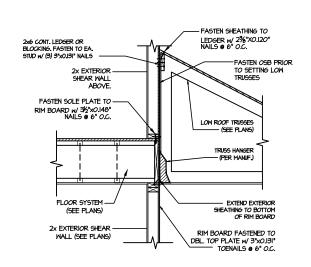
SHEAR TRANSFER DETAIL @ INT. 2 SHEARWALL ABOVE & BELOW



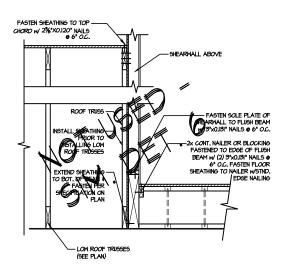
SHEAR TRANSFER DETAIL @ 6 EXTERIOR SHEARWALL ABOVE



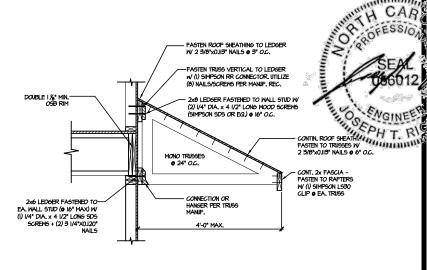
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



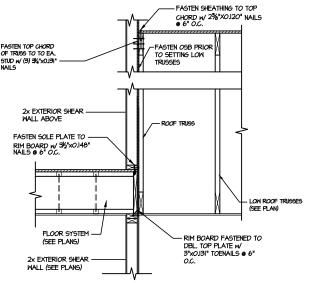
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE







TYPICAL SHEAR TRANSFER DETAIL 8 BETWEEN FLOORS @ INTERIOR WALL

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CREE NEIL'S ETAIL RAMING D ATDRAYT FARM 00 LOT

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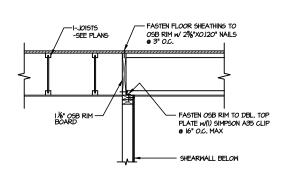
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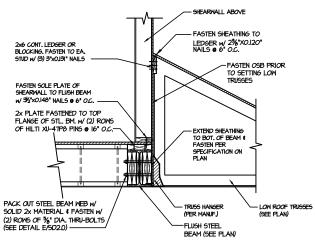
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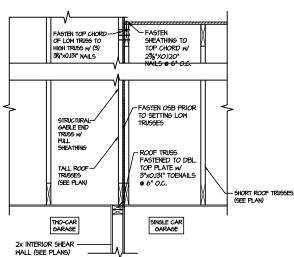
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SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW





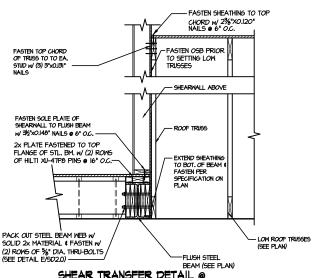


TYPICAL SHEAR TRANSFER DETAIL BETWEEN GARAGE BAYS

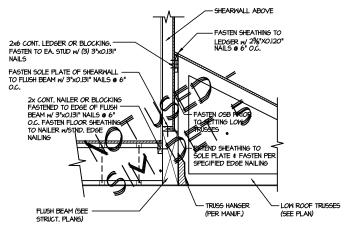
SCALE: 9/4"=1"-0"

Fasten sole plate of -Shearwall thru SHEARWALL ABOVE 05B RIM w/ 3½"x0.148" NAILS @ 3" O.C. I-JOISTS || -SEE PLANS || FASTEN OSB RIM TO DBL. TOP PLATE w/(I) SIMPSON A35 CLIP @ EACH JOIST BAY (PERP. FRMG.)
OR @ 16" O.C. (PARALLEL FRMG.) SHEARWALL BELOW

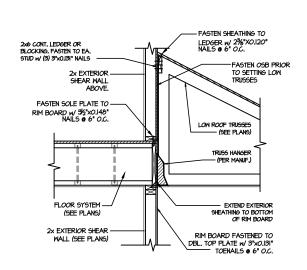
SHEAR TRANSFER DETAIL @ INT. 2 SHEARWALL ABOVE & BELOW SCALE: 3/4'=1'-0'



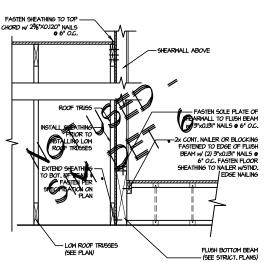
SHEAR TRANSFER DETAIL @ 6 EXTERIOR SHEARWALL ABOVE SCALE: 3/4"=1"-0"



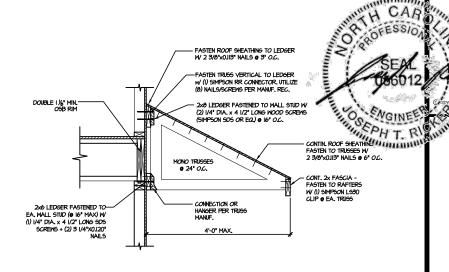
SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE

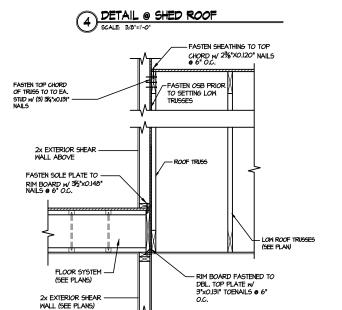


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE SCALE SATING





TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

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.

5/25/2

ERN+KU STRUCTURAL ENGINE

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Y

M&K project number

REVISIONS

126-2207

ssue date: 05-25-2

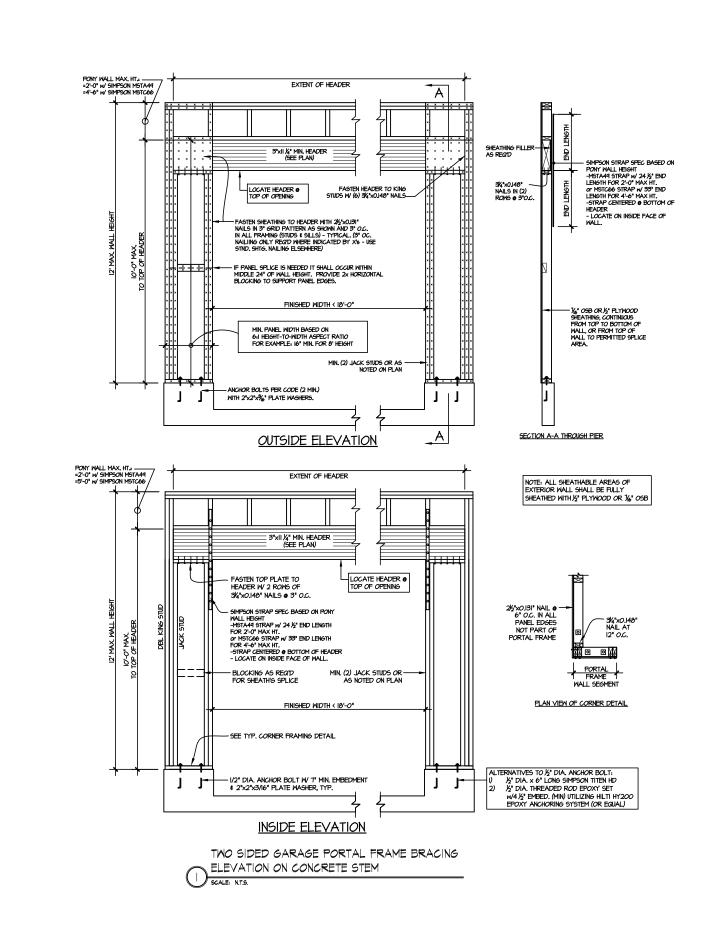
JTF

RPF

initial:

CR. NEIL'S RAMING D ATDRAYT FARM 00 LOT

SD2.1C



MULHERNAHMEN AND STATE OF THE S

5/25/2

TH CAR

y

M&K project number: 1 26-22076

project mgr: JTR drawn by: RPP issue date: 05-25-23

REVISIONS:

date: initial:

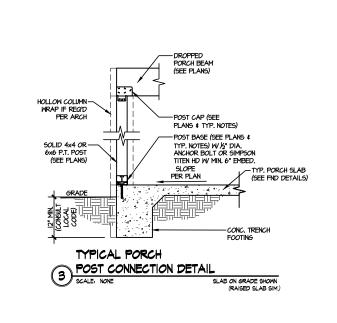
S MES

AILS US CREEK

FRAMING DETAILS
FARM AT NEIL'S CLOT 88 - DRAYTON 1
RALEIGH, NC

heet:

SD2.2



5/25/23 "H CAR OF PHT. R MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING

Y

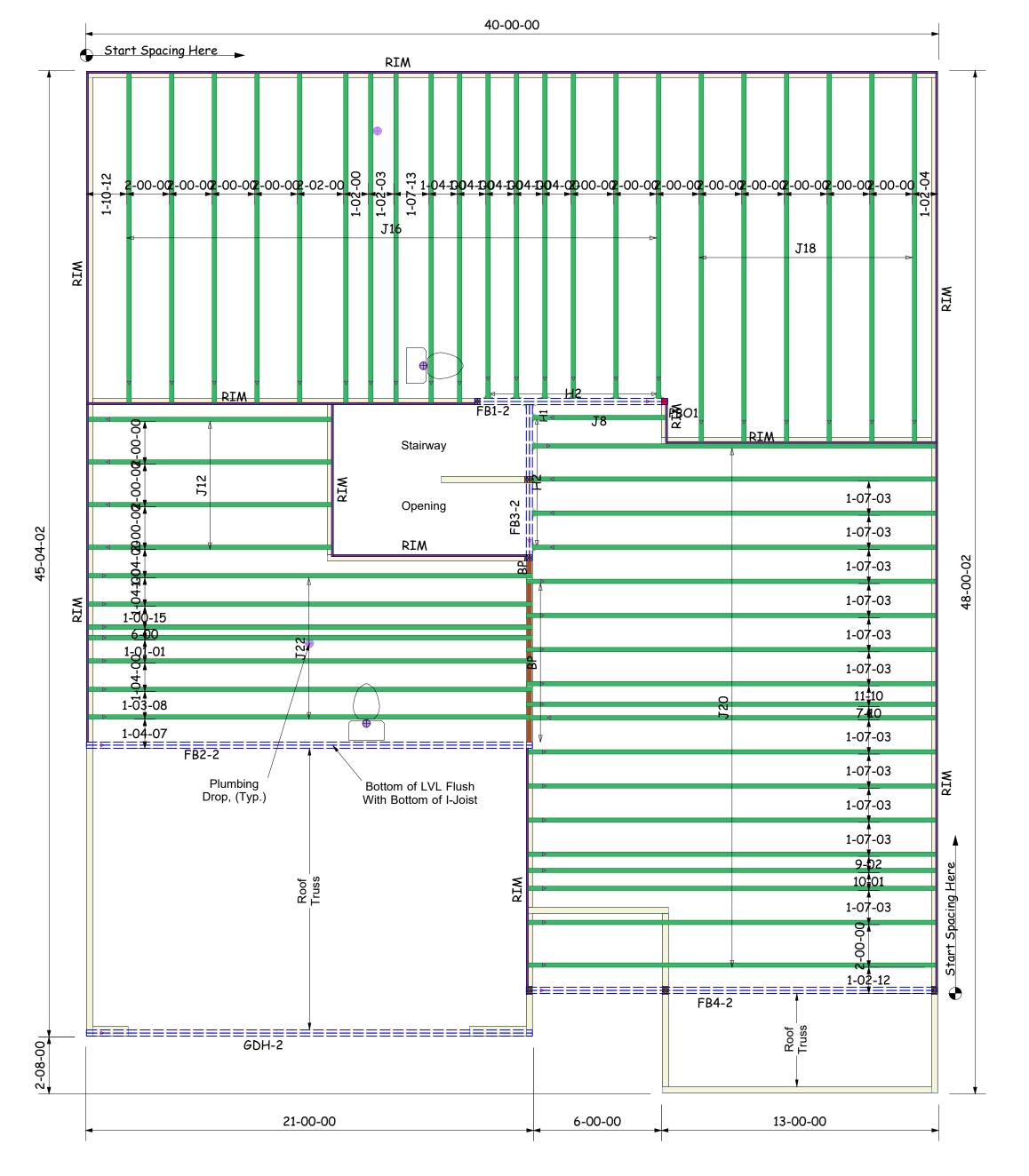
M&K project number: 126-22076

project mgr: JTR drawn by: RPP issue date: 05-25-23

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 88 - DRAYTON 1

SD3.0



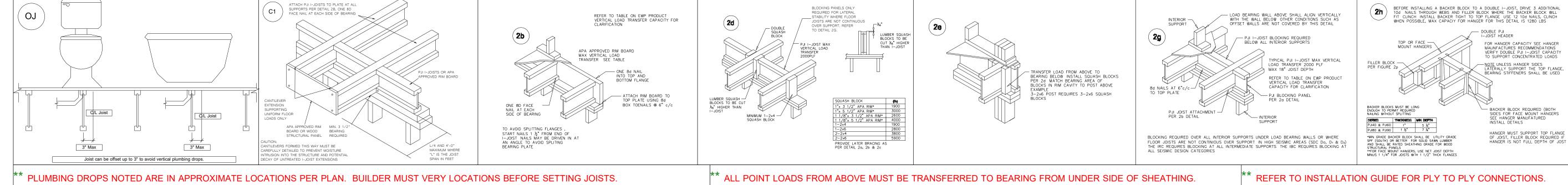


| | | Products | | |
|--------|----------|------------------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| J22 | 22-00-00 | 14" PJI-40 | 1 | 7 |
| J20 | 20-00-00 | 14" PJI-40 | 1 | 18 |
| J18 | 18-00-00 | 14" PJI-40 | 1 | 6 |
| J16 | 16-00-00 | 14" PJI-40 | 1 | 16 |
| J12 | 12-00-00 | 14" PJI-40 | 1 | 4 |
| Ј8 | 8-00-00 | 14" PJI-40 | 1 | 1 |
| GDH-2 | 22-00-00 | 2.0 RigidLam DF LVL 1-3/4 x 11-7/8 | 2 | 2 |
| FB4-2 | 20-00-00 | 2.0 RigidLam DF LVL 1-3/4 x 14 | 2 | 2 |
| FB1-2 | 10-00-00 | 2.0 RigidLam DF LVL 1-3/4 x 14 | 2 | 2 |
| FB3-2 | 8-00-00 | 2.0 RigidLam DF LVL 1-3/4 x 14 | 2 | 2 |
| FB2-2 | 22-00-00 | 2.0 RigidLam DF LVL 1-3/4 x 20 | 2 | 2 |
| RIM | 12-00-00 | 1 1/8" × 14" APA Rim Board | 1 | 15 |
| BP | 2-00-00 | 14" PJI-40 | 1 | 3 |

| | | Accessories | | |
|--------|--------|--------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| | | 3/4" 4x8 OSB | 1 | 45 |

| Connector Summary | | | | | |
|-------------------|-----|---------|------------|---------------|-----------|
| PlotID | Qty | Manuf | Product | Backer Blocks | Web Stiff |
| H1 | 1 | Simpson | HHUS410 | No | No |
| H2 | 11 | Simpson | IUS2.56/14 | No | No |

2ND FLOOR LAYOUT



LABEL LEGEND FOR HANGER CAPACITY SEE HANGER MAUNFACTURES RECOMMENDATIONS VERIFY DOUBLE PJI I-JOIST CAPACITY TO SUPPORT CONCENTRATED LOADS **RB** = Roof Beam **BP** = Blocking Panels

BBO = Beam by Others **PBO** = Post by Others GBO = Girder by Others J = I-Joist **FB** = Flush Beam **DB** = Dropped Beam

SB = Squash Blocks

Designer: **DH** Project #: **22090053** Sheet Number:

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

Revisions

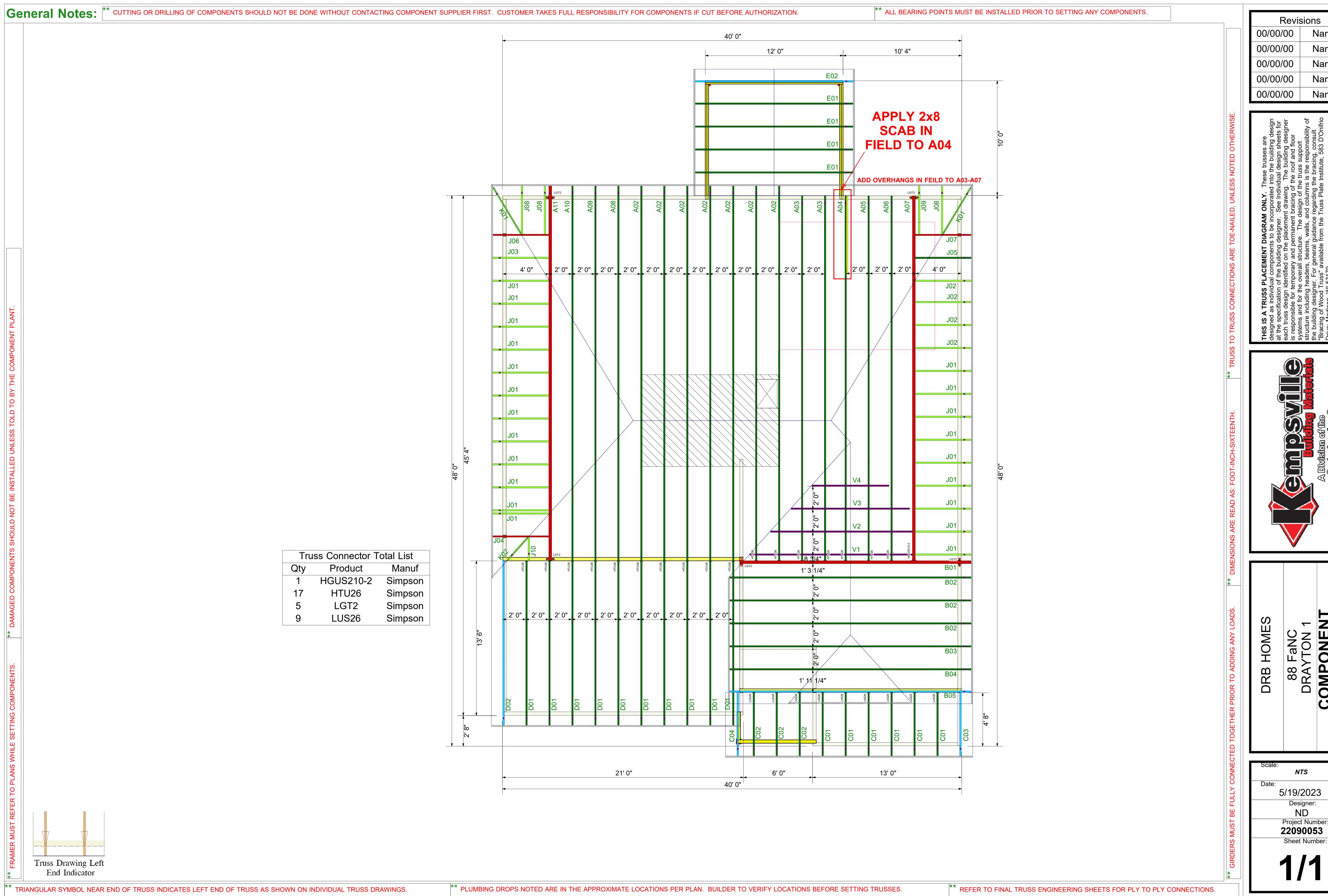
NEILL HOME GREEK DRB

DRAYTON

Scale: 1/4" = 1'-0"

0

Date: **5/22/23**



Revisions Name Name Name

Name Name

5/19/2023 Designer: ND Project Number: 22090053