# ELMHURST-RALE

RALEIGH - LOT 00.0024 CAMPBELL RIDGE SF (MODEL# 2223)

ELEVATION 4.1 - GR



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	AREA CALCULATIONS  ELEVATION 4.1  FIRST FLOOR  GARAGE	HEATED 937 SF	COVERED / UNHEATED	UNCOVERED
П	FRONT PORCH - ELEVATION 4.1		97 SF	
l				
П	SECOND FLOOR	1007.05		
П	SECOND FLOOR	1297 SF		
l	OPTIONS			
П	EXTENDED BREAKFAST W/ SCREEN PORCH	85 SF	87 SF	
ı	3RD CAR GARAGE		238 SF	
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ı	TOTAL	2319 SF	829 SF	
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### 81 Pinon Drive

LOT	SPECIFIC	
1		CAMPBELL RIDGE SF
'	201 00.0024	ELMHURST REV. RALE 3 ELEVATION 4.1
2	ADDRESS	81 PINON DR ANGIER, NC 27501
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INDEX	



| MASTER PLAN INFORMATION | WASTER PLAN INFORMATION | BATE | SEVISION | DATE | 3-RALE | 08-23-2019 | 07-01-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024 | 1-2024

DRAWN BY: ITS

DATE: 05/04/2025

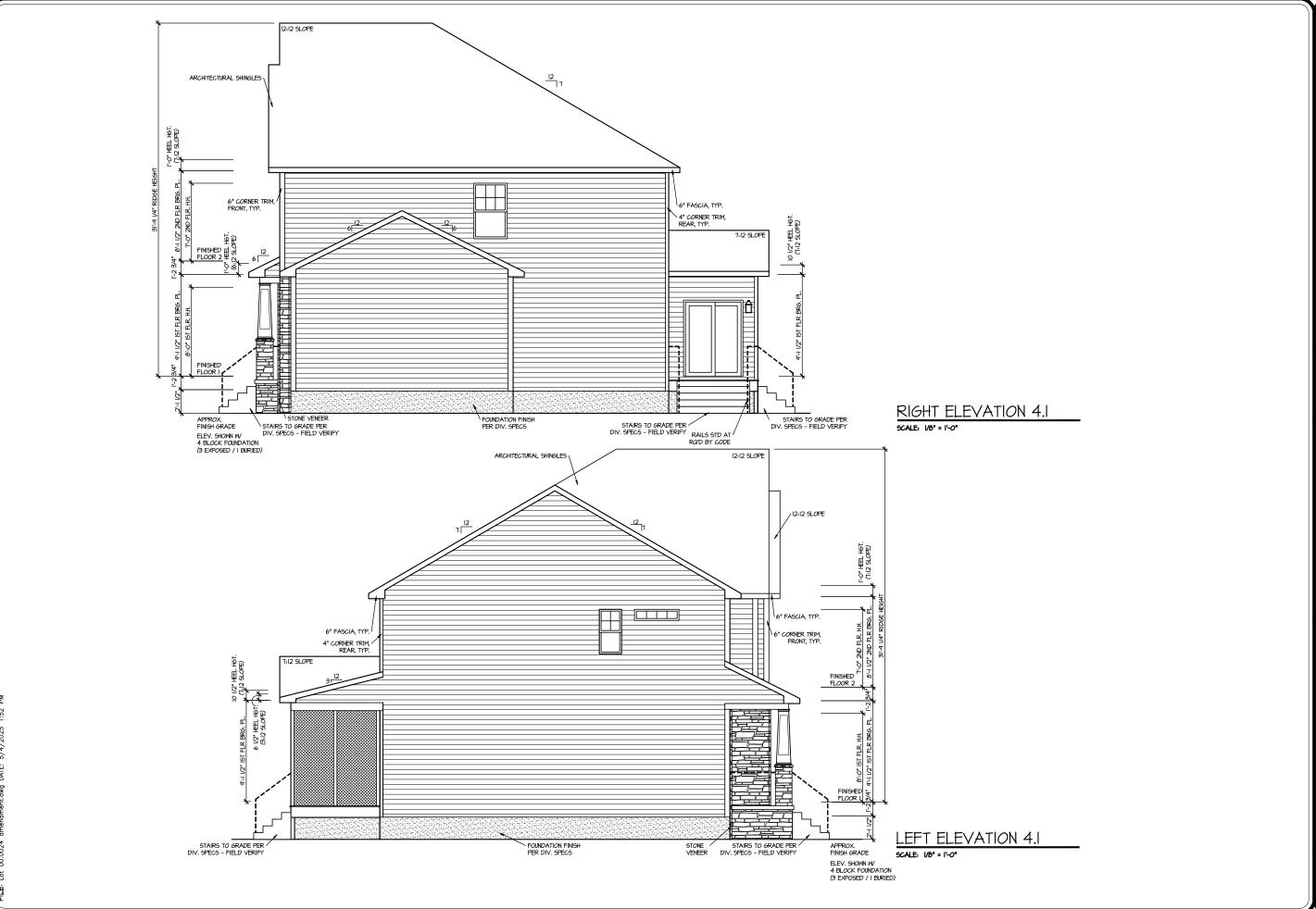
PLAN NO. 2223



HOUSE NAME:
ELMHURST
DRAWING TITLE
FRONT & REAR ELEYATIONS

EET No.

SHEET No.



| MASTER PLAN INFORMATION | REVISION | DATE | 3-RALE | 08-23-2019 | 07-01-2024 |

DRAWN BY: ITS

DATE: 05/04/2025

PLAN NO. 2223



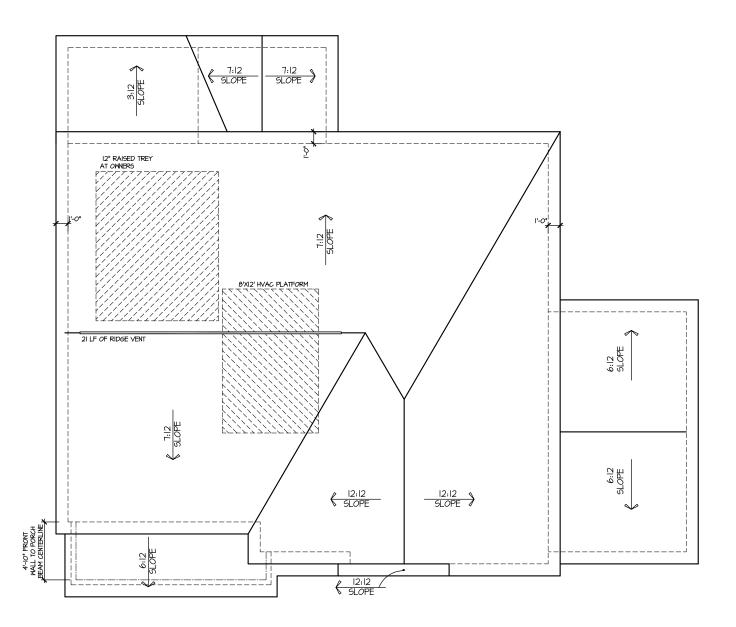
LEFT ELEVATIONS

HOUSE NAME:
ELMHURST
DRAWING TITLE
RIGHT & LEFT

SHEET No.

A.

ROOF VENTILATION CALCULATIONS: OPT. THIRD FLOOR
ROOF AREA = 1331 50. FT.
OVERALL REQUIRED VENTILATION:
1 TO 150 = 26.11 60. FT.
1 TO 300 = 4.45 50. FT.
1 TO 300 = 4.05 50. FT.
1 LOWER VENTING. (BOTTOM 2/3 RDS)
56 LINEAR FEET OF 50/FFIT X 5.1 50. IN. = 2.21 50. FT.
1 LOWER VENTING. (TOP 1/3 RD)
21 LINEAR FEET OF RIDGE X 16 50. IN. = 2.6 50. FT.
2.21 50. FT. BETWEEN 50% - 80%
(1 TO 300 ALLOWED)
TOTAL ROOF VENTILATION: 4.61 50. FT. > 4.45 50. FT. (R0D)



ROOF PLAN ELEV. 4.1

I**LE**: Lot 00.0024 amendment.dwg DATE: 5/4/2025 1:52 PM

HOUSE NAME:
ELMHURST
DRAWING TITLE
ROOF PLAN

UPDATED DATE 07-01-2024

DRAWN BY:

PLAN NO. 2223

DATE: 05/04/2025

SHEET No.

VENT CALCULATIONS

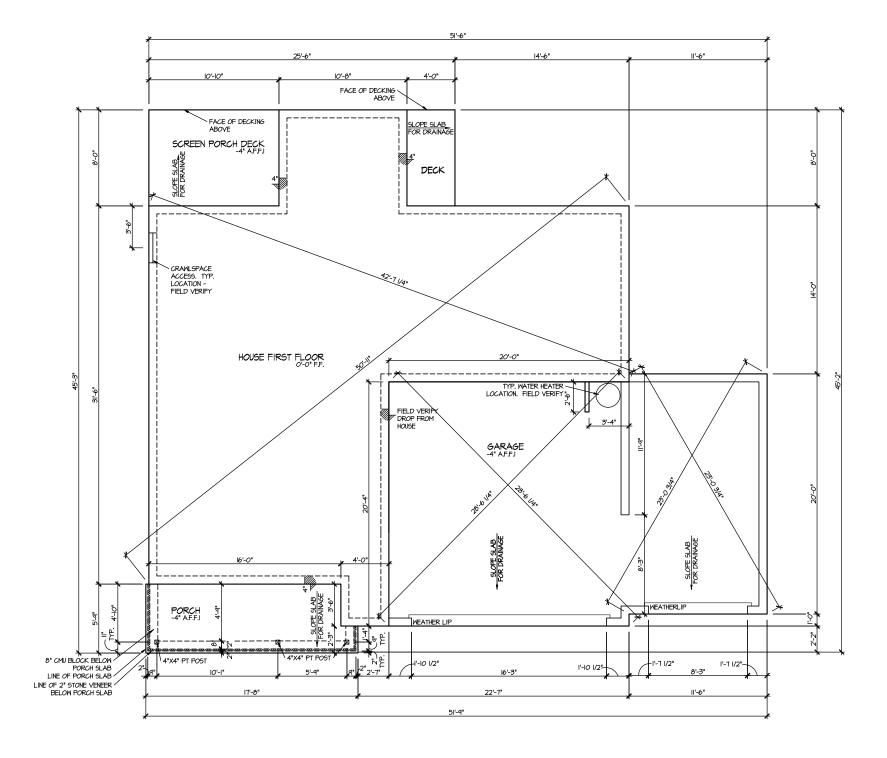
CRAWL AREA = 437 SQ. FT.

OVERALL REQUIRED VENTILATION:

I TO 150 = 6.3 SQ. FT.

NET FREE AREA OF VENT = 62 SQ. IN PER VENT WITTEN AUTOMATIC VENT B-EBLACK (MB) OR EQUAL

<u>VENTING REQUIREMENT:</u>
6.3 SQ. FT / 62 SQ. IN = 14.63 VENTS = 15 VENTS



ELEVATION 4.1 CRAWL SPACE PLAN SCALE: 1/8" = 1'-0"

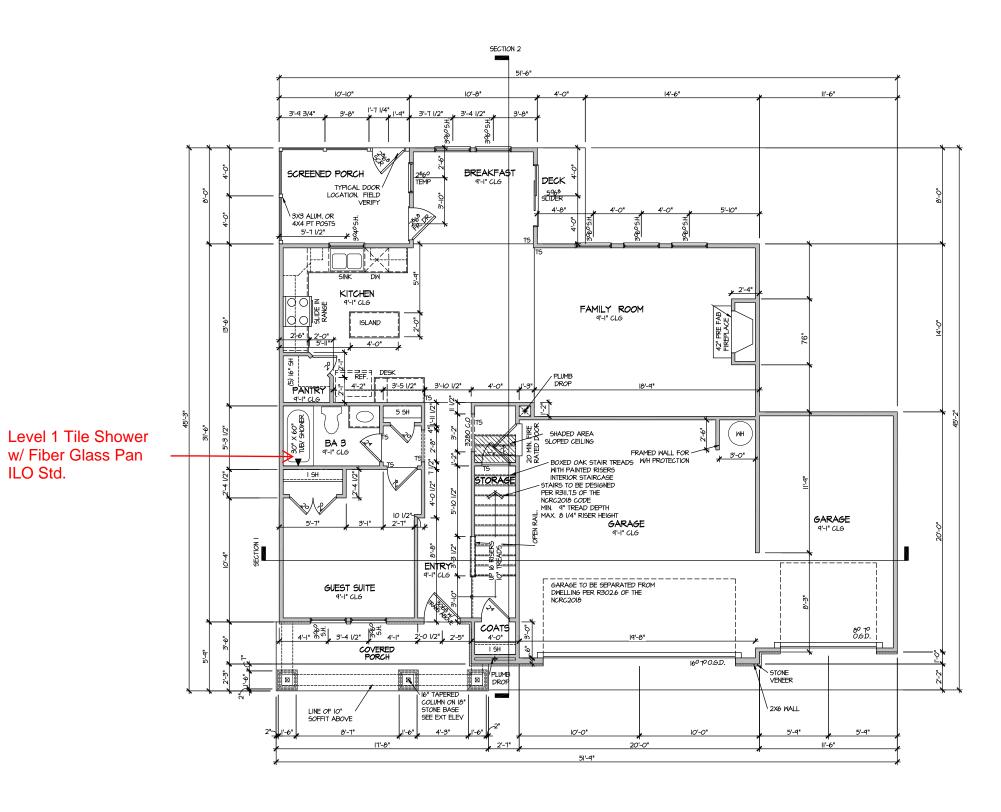
DRAWN BY:

DATE: 05/04/2025 



SPACE HOUSE NAME:
ELMHURST
DRAWING TITLE
CRAML SPACE

SHEET No. A2.



DRAWN BY:

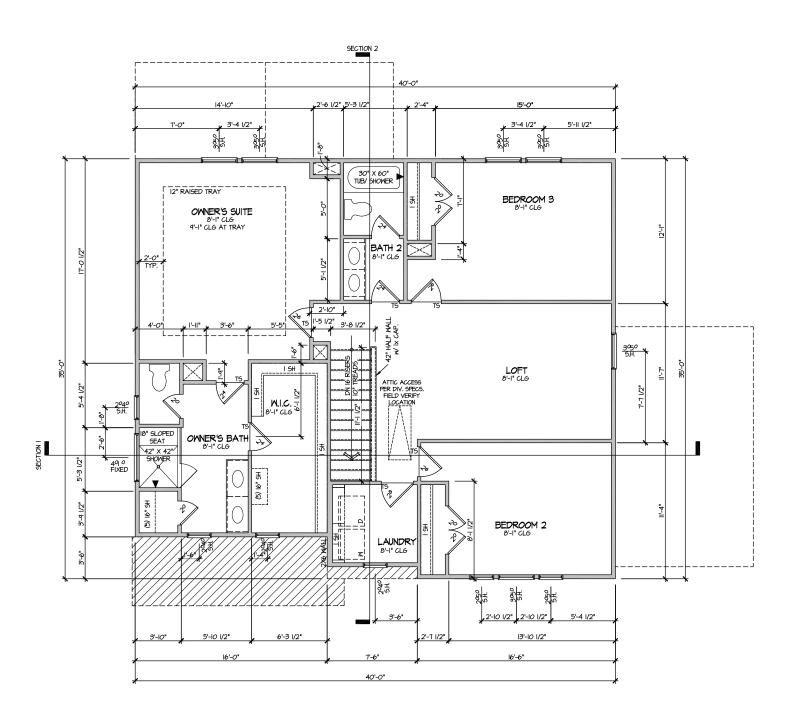
HOUSE NAME:
ELMHURST
DRAWING TITLE

SHEET No. A3.

DATE: 05/04/2025 PLAN NO. 2223

ELEVATION 4.1 FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"

ILO Std.

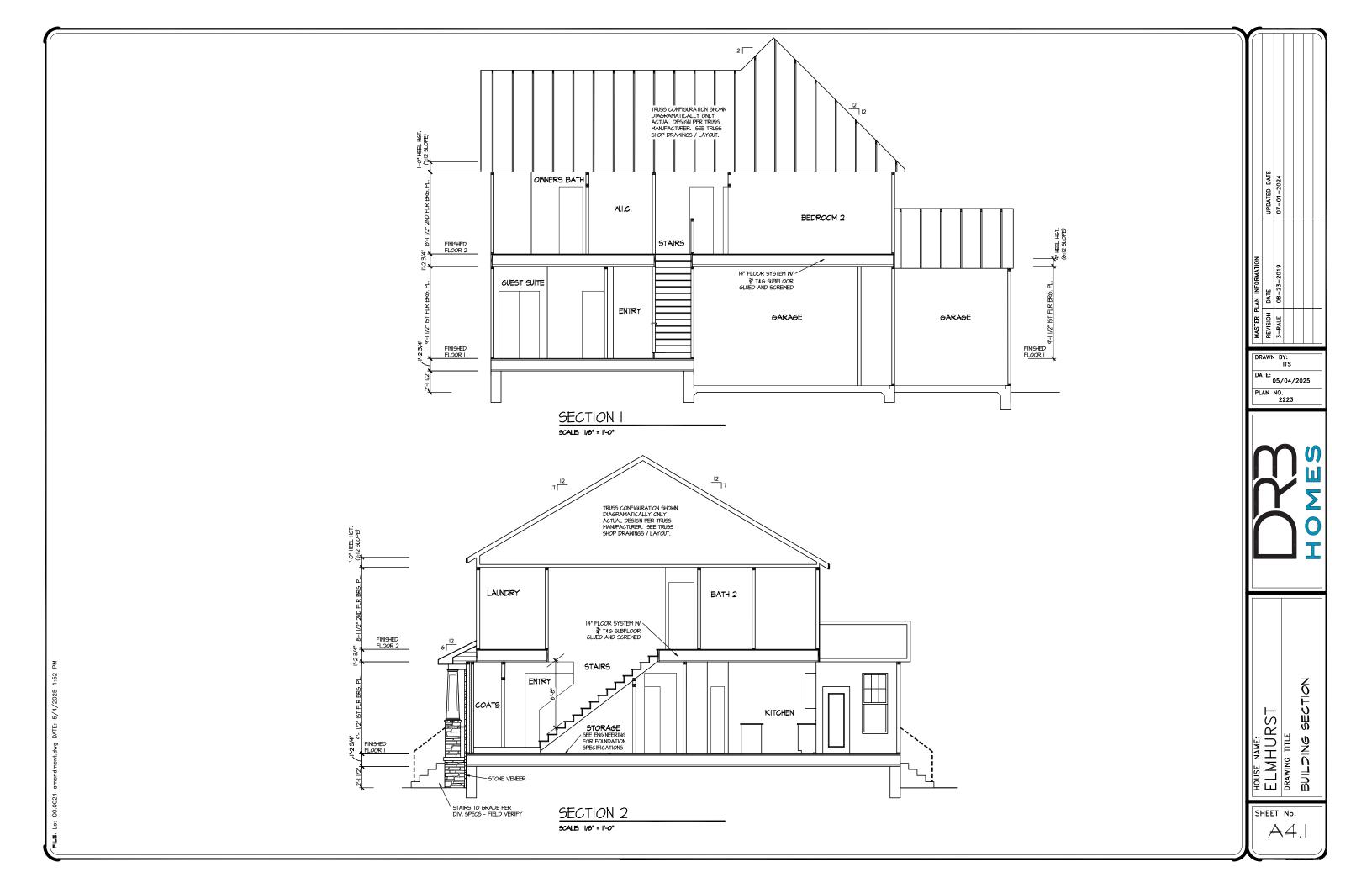


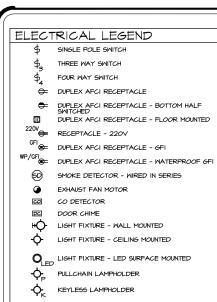
ELEVATION 4.1 SECOND FLOOR PLAN SCALE: 1/8" = 1'-0" | MASTER PLAN INFORMATION | MASTER PLAN INFO



HOUSE NAME:
ELMHURST
DRAWING TITLE
SECOND FLOOR PLAN

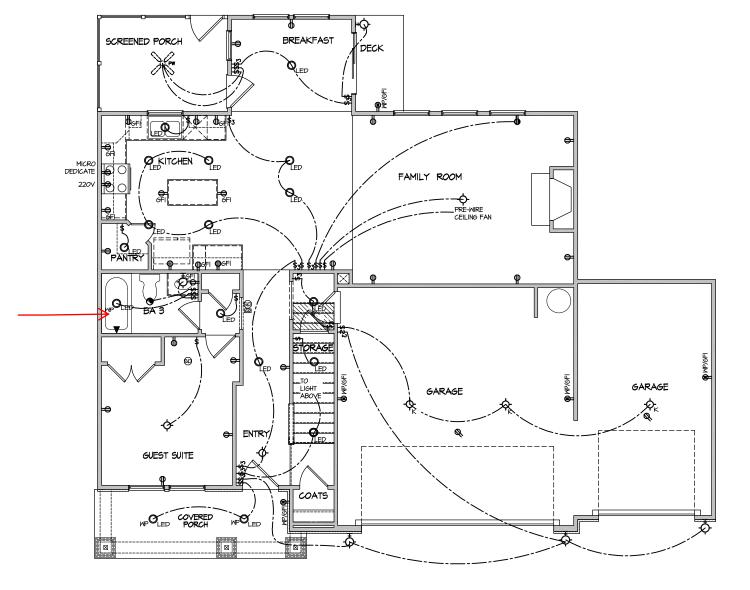
SHEET No.





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

Level 1 Tile Shower w/ Fiber Glass Pan ILO Std.



ELECTRICAL PLAN FIRST FLOOR - ELEV. 4.1 scale: 1/8" = 1'-0"

SHEET No.

DRAWN BY:

DATE: 05/04/2025 PLAN NO. 2223 ELECTRICAL LEGEND

SINGLE POLE SWITCH

THREE WAY SWITCH \$ FOUR WAY SMITCH

DUPLEX AFCI RECEPTACLE

DUPLEX AFCI RECEPTACLE - BOTTOM HALF SMITCHED

DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED

220V RECEPTACLE - 220V

GFI ⊕ DUPLEX AFCI RECEPTACLE - GFI

WP/GFI DUPLEX AFCI RECEPTACLE - WATERPROOF GFI

6D SMOKE DETECTOR - WIRED IN SERIES

EXHAUST FAN MOTOR 60 DETECTOR

DC DOOR CHIME

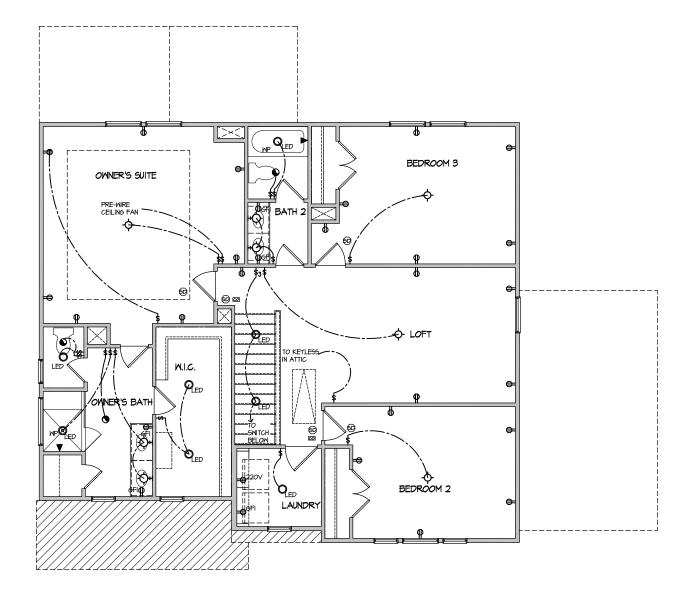
HO LIGHT FIXTURE - WALL MOUNTED

- LIGHT FIXTURE - CEILING MOUNTED OLED LIGHT FIXTURE - LED SURFACE MOUNTED

PULLCHAIN LAMPHOLDER

♠ KEYLESS LAMPHOLDER

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



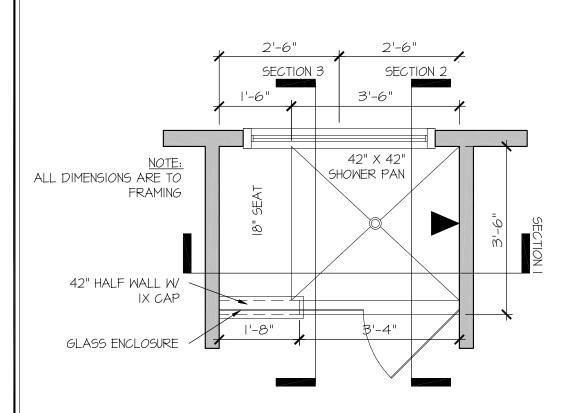
ELECTRICAL PLAN SECOND FLOOR - ELEV. 4.1 SCALE: 1/8" = 1'-0"

ΠÍ ᇳ HOUSE NAME:
ELMHURST
DRAWING TITLE
SECOND FLOO

DRAWN BY:

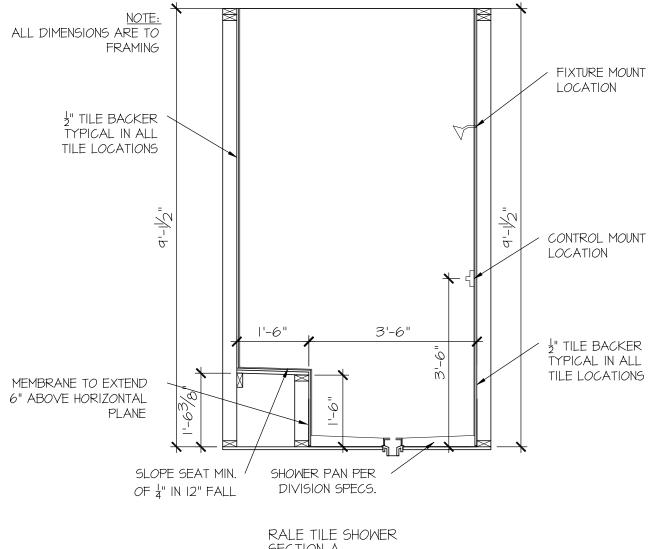
DATE: 05/04/2025 PLAN NO. 2223

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

~ "

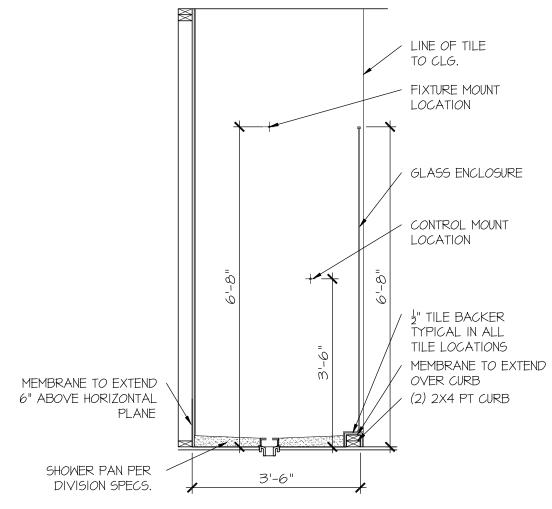


E ILE SHOWER DETAIL

OUSE NAME:

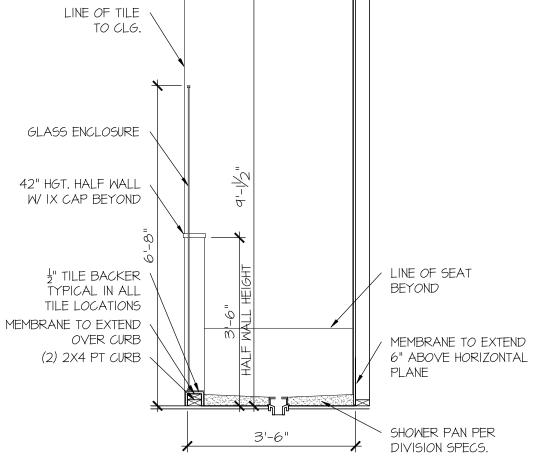
SHEET No.

P||.2



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





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

DESCRIPTION OF BLDG, ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'G.	(3) NAILS @ 4" o.c.	(3) NAILS 🛭 4" o.c.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" O.C.	TOENAILS @ 6" O.C.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS <b>⊙</b> 24" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE	NAILS @ 24" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE LAP SPLICE	(9) NAILS IN LAPPED AREA	(II) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS €	(2) NAILS	(2) NAILS
INTERSECTING WALLS		
* 2K"-O IIS IG AN ACCEPTABLE AL	TERMATIVE TO A STUDION GAME GO	ACING OF NIMBER OF NAILS

-  $\omega_2$  xu.ii) is an acceptable alternative to a 3\*x0.120\*, same spacing or number of nails. (only acceptable where \* are shown)

#### LEGEND

- IIIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ■ FF 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.

#### 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)2×6
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" O.C. (MAX.)

#### MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS NCLUDES, BUT IS NOT LIMITED TO, THE ADDITION O NECESSARY SHORING, SHEETING, TEMPORAR' BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING FLEMENT N CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIEY LEVELNESS AND MAKE AD JUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY

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

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.

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

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

#### GENERAL STRUCTURAL NOTES

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

DEAD = 7 PSF T.C., 10 PSF B.C. LIVE = 16 PSF LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES)

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

2000 PSE ASSUMED ALLOWARIE 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 DIAMETER AND LENGTH REQUIRED FOR CONNECTION ALL HANGER 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(I) FOR ALL CONNECTIONS TYP IINO
- 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. MALLS 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 (KII N-DRIFD). 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., U.N.O.)

  • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (1)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'. ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
- 'LSL' Fb=2325 psi; Fv=310 psi; E=1.55x10^6 ps LVL' - Fb=2600 psi: Fv=285 psi: E=2.0xl0^6 psi
- '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 MAK 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  $3\frac{1}{2}$ " 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 ½" OR 5 ¼" BEAMS ARE ACCEPTABLE. USE 2 ROMS OF NAILS FOR 2x6 & 2x8
- FOR 4 PLY BEAMS OF FOUAL 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 14" 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 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 I/2" DIA, BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BC52-2/4 CAP & ABW44Z BASE, U.N.O.

#### FLOOR FRAMING

- I- MISTS/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 1/8" 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. EASTEN TO FRAMING MEMBERS W/ GLUE AND
- 2 1 × 0.131" NAILS @ 6"0.c. @ PANEL EDGES & @ 12"0.c. FIELD. - 2 🖁 × 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 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.C.
- FRECT AND INSTALL ROOF TRUSSES PER WICA & TRUS BOSI 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.
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
  - w/ 2 3" x 0.131" NAILS @ 6"04. @ PANEL EDGES & @ 12" 04. 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 * (%" DIA. ANCHOR)
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) -OR- MSTC66B3 ALTERNATE
► HD-3	SIMPSON STHDI4/STHDI4RJ

\* UTILIZE THE SSTB24 ANCHOR BOLT @ ALL MONOSLAB & INTERIOR RAISED SI AB (I.F. THICKENED SI ABS. FOOTINGS) CONDITIONS, MINIMUM 24" MIN OOTING THICKNESS REQUIRED

EPOXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB CONDITIONS ONLY: UTILIZE SIMPSON SET' EPOXY SYSTEM TO FASTE THREADED ROD INTO CONCRETE FOUNDATION, PROVIDE 10" (FOR 5/8" DIA.) OR 15" (FOR 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE.

NSTALL PER MANUE, INSTRUCTIONS, MINIMUM 16" FOOTING THICKNESS REQ'D. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF CONCRETE.

#### 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"x/4"
6'-0"	I2 FT. MAX	L4"x3"x/4"
	20 FT. MAX	L5"x3½"x¾"
	3 FT. MAX	L4"x4"x¼" *
8'-O"	I2 FT. MAX	L5"x3½"x¾"
	I6 FT. MAX	L6"x3½"x¾"
9'-6"	I2 FT. MAX	L6"x3½"x¾"
16'-0"	2 FT. MAX	L7"x4"x½" **
٥	3 FT. MAX	L8"x4"x½" **

- ALL LINTELS:
   9HALL SUPPORT 2 %\* 3 ½\* VENEER w/ 40 psf MAXIMM MEIGHT.
   (b' SHALL HAVE 4\* MIN. BEARING
   16 SHALL HAVE 4\* MIN. BEARING
   16 SHALL NOT BE FASTIBLED BACK TO HEADER.
   16 SHALL DOT BE FASTIBLED BACK TO HOOD HEADER IN MALL 446\*0c.
   16 SHALL BE ASYELOBE DECK TO MOOD HEADER IN MALL 446\*0c.
   16 SHALL BE FASTIBLED BACK TO MOOD HEADER IN MALL 446\*0c.
   16 SHALL BE FASTIBLED BACK TO HOOD BEADER IN MALL 46\*0c.
   16 STEPLED HOOLES.
   16 STEPLED HOOLES.
   16 STEPLED HOOLES.
   17 STEPLED HOOLES.
   18 STEPLED HOOLES.
   18
- HEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT NCOMPAGED BY THE ABOVE PARAMETERS, FOR ANY LINTE FASTENED BACK TO BEAM, FASTENERS SHALL MAINTAIN A 2/2"
  (MINIMUM) CLEAR DISTANCE FROM BOTTOM OF BEAM.
- FOR QUEEN VENEER USE L4x3/4/". \* FOR 3/5" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF

#### 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 VERIEY.
  - 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'-O" 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 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 ACI 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 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 1/3" 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. 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.O. LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
- 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
- . JOINTS SHALL BE LOCATED . IO'-O" 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 (F/m=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 \$ 530.I.
- 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 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 BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY

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

eal: 5/14/25 CAR SEPHT. R

ERN+KUL STRUCTURAL ENGINEER H = 1

4&K project numbe 126-24045

**JTR** frawn by: JAD ssue date: 04-25-25

revisions. 2025-05-14



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M&K project number: 126-24045

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

**REVISIONS:**2025-05-14 KFG

UTILIZE THE SETB24 ANCHOR BOLT @ ALL MONOSLAB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS, MINIMUM 24" MIN. FOOTING THICKNESS REQUIRED.

SIMPSON STHDI4/STHDI4RJ

HOLD-DOWN SCHEDULE

SPECIFICATION

SYSTEM U.N.O.) -OR- MSTC66B3 ALTERNATE

SIMPSON HTT4 HOLD-DOWN \* (5/8" DIA. ANCHOR)

SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR

SYMBOL

HD-I

HD-2

► HD-3

POOTING THICKNESS REQUIRED.

POOXT-SET LATERNATE FOR MONOSLAB & INTERIOR RAISED SLAB

CONDITIONS ONLY: UTILIZE SIMPSON SET' EPOXY SYSTEM TO FASTEN

THEFADED ROD INTO CONCRETE FOUNDATION. PROVIDE 10' (FOR 5/8' DIA.) OR

15' (FOR 7/8' DIA.) MIN. EMBEDMENT INTO, CONCRETE.

INSTALL PER MANUF. INSTRUCTIONS, MINIMM 16' FOOTING THICKNESS REQ'D.

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

#### LEGEND

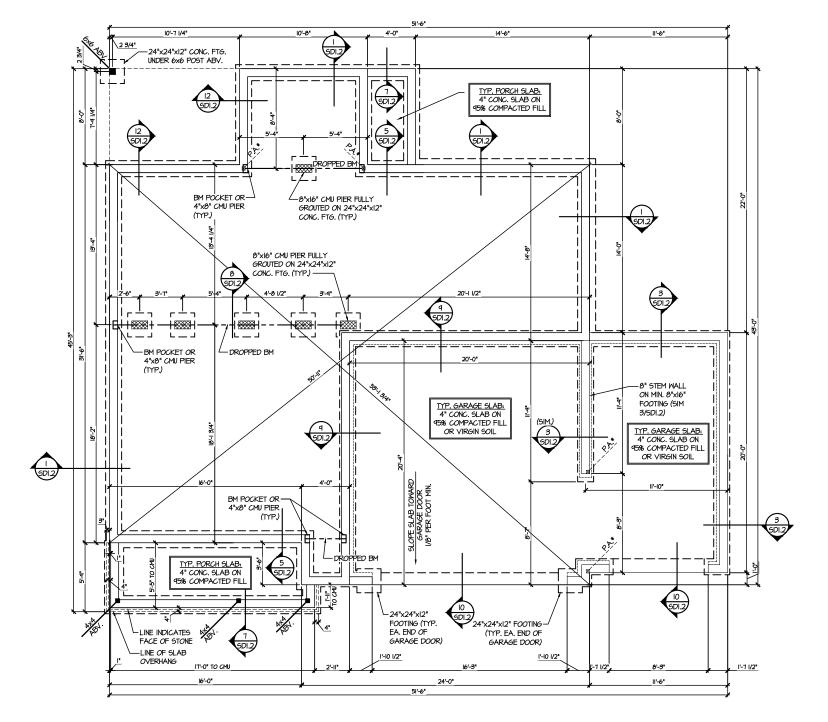
- INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE
- BEAM / HEADER
- == INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING

#### JL METAL HANGER

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

INDICATES HOLD-DOWN OR STRAP.
REFER TO SCHEDULE.

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



CRAMLSPACE FOUNDATION PLAN SCALE: 1/8"=1"-0"

LH - Campbell Ridge - Lot 24 - Structurals DAIE: 5/14/2025 12:00 PN

FOUNDATION PLAN
CAMPBELL RIDGE
LOT 24 - ELMHURST 4.1
RALEIGH, NC

S1.0

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M&K project number: 126-24045

JTR drawn by: JAD issue date: 04-25-25

REVISIONS:

2025-05-14

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CAMPBELL RIDGE LOT 24 - ELMHURST 4.1 RALEIGH, NC

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES

LEGEND

■■■ INDICATES SHEAR WALL & EXTENT

\* INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE,

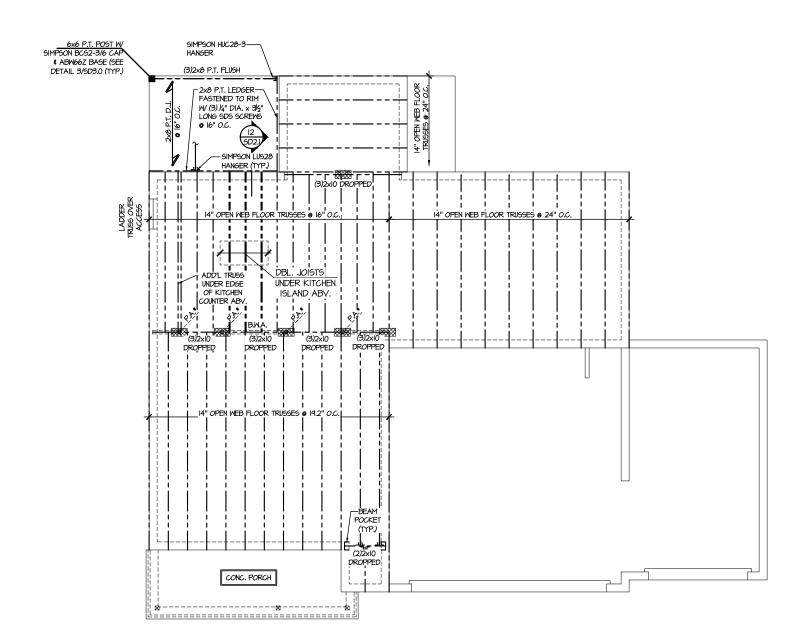
• INTERIOR BEARING WALL

EXTENT OF OVERFRAMING

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

JL METAL HANGER

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



M&K project number 126-24045

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REVISIONS: 2025-05-14

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.

• = = INDICATES SHEAR WALL & EXTENT

SD2.I REFERS TO SD2.IA FOR

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

FOR STEEL BEAMS

INTERIOR BEARING WALL

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

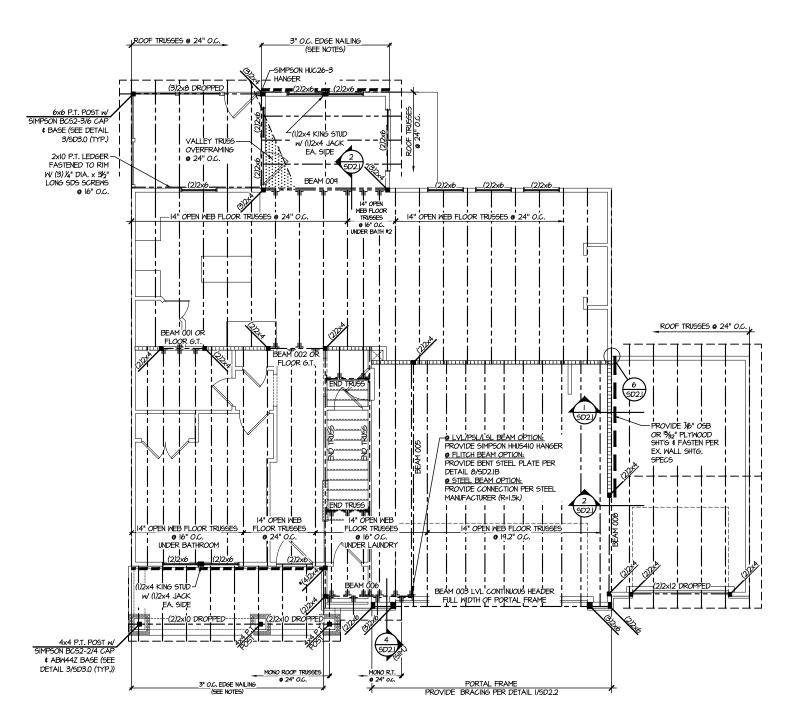
LEGEND

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES

	ENGINEERED BEAM MATERIAL SCHEDULE				
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)13/4"x14" - F	3½"x14" - F	(2)13/4"x14" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - F	WI2xI4 - F
002	(2)13/4"×14" - F	3½"x14" - F	(2)13/4"×14" - F	(2)2x12 + (1) ¼"x11¼" STEEL FLITCH PLATES - F	WI2xI4 - F
003	(3)19/4"x16" - H	7"x16" - H	N/A	(3)2xl2 + (2) ½"xll以" STEEL FLITCH PLATES - H	N/A
004	(3)194"×20" - H	N/A	N/A	N/A	N/A
005	(2)13/4"×14" - F	3½"x14" - F	(2)13/4"×14" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - F	WI2xI4 - F
006	(2)13/4"x14" - F	3½"xl4" - F	(2)13/4"×14" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - F	WI2xI4 - F
001	(2)134"x24" - FT <i>O</i> R (3)134"x22" - FT	N/A	N/A	N/A	WI4x34 - F
000	(2)19/4"×14" - F	3½"xl4" - F	(2)194"×14" - F	(2)2xi2 + (l) 以"xi以" STEEL FLITCH PLATES - F	WI2xI4 - F
004	(2)19/4"×14" - F	3½"xl4" - F	N/A	(2)2xl2 + (I) %"xlK" STEEL FLITCH PLATES - F	WI2xI4 - F
010	(2)1 <sup>3</sup> / <sub>4</sub> "x14" - F	3½"x14" - F	(3)13/4"×14" - F	(2)2xl2 + (l) %"xll¼" STEEL FLITCH PLATES - F	WI2xI4 - F

- BEAM NOTATION:
   "F" INDICATES FLUSH BEAM
   "FT" INDICATES FLUSH TOP BEAM
- THINDICATES FLUSH BOTTOM BEAM
   "D" INDICATES DROPPED BEAM
   "H" INDICATES DROPPED OPENING HEADER

- REFER TO DETAIL D/502.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
  REFER TO DETAIL E/502.0 FOR TYPICAL STEEL BEAM CONNECTIONS
  FOR FLUSH TOP DETAILS PROVIDE 2X STACKED PLATES DENEATH BEAM AS REQ'D. FASTEN
- PLATES IN SUCCESSION W (2) 3"X0,120" NAILS  $oldsymbol{o}$  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  $oldsymbol{o}$  8" O.C.



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

CAMPBELL RIDGE LOT 24 - ELMHURST 4.1 RALEIGH, NC



M&K project number: 126-24045

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

REVISIONS:

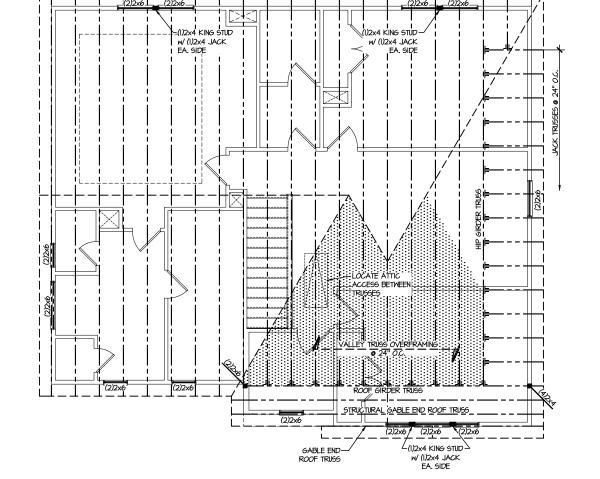
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#### LEGEND

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

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

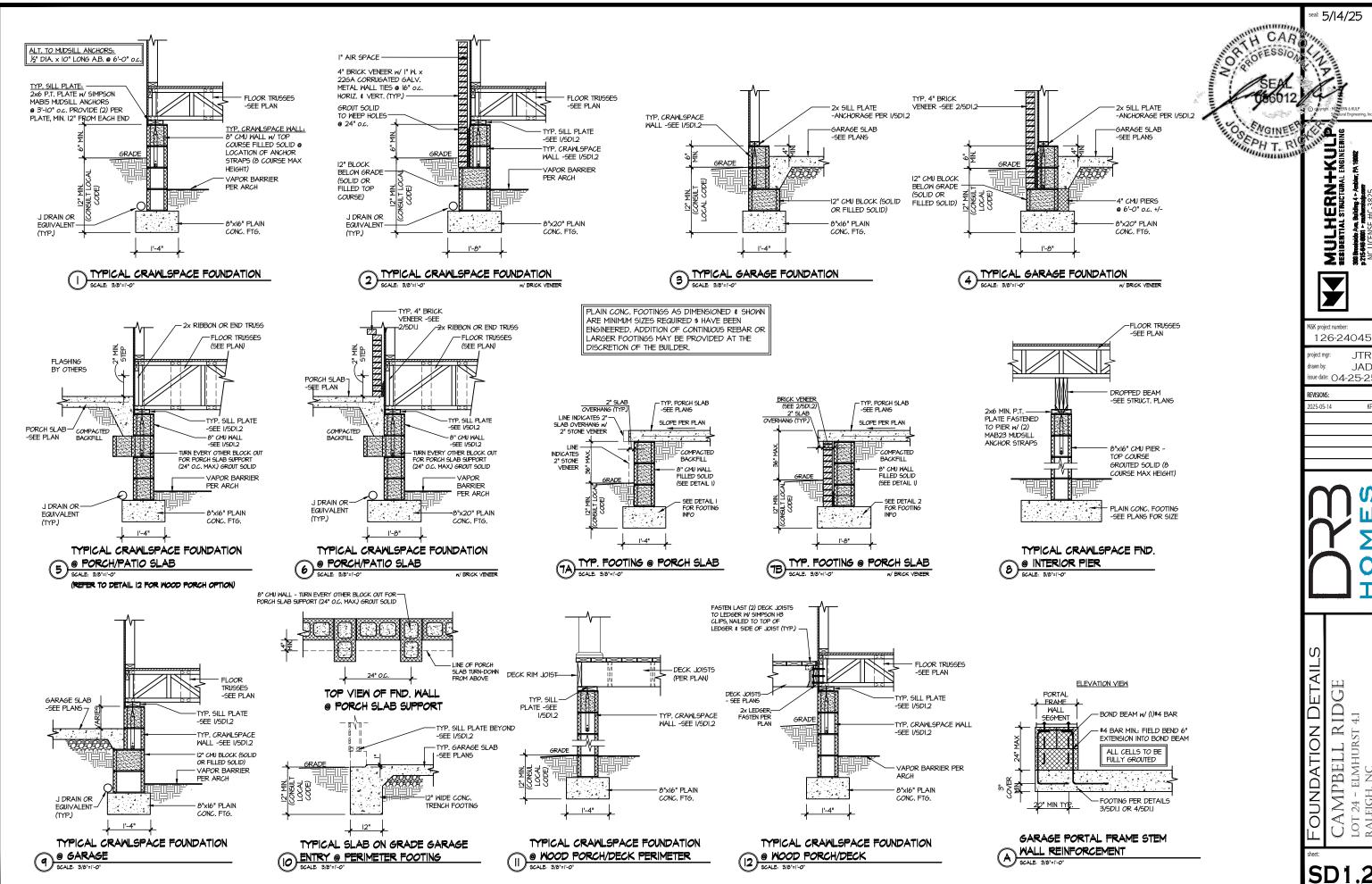


ROOF TRUSSES @ 24" O.C.



CAMPBELL RIDGE
LOT 24 - ELMHURST 4.1
RALEIGH, NC

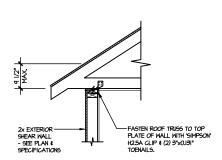
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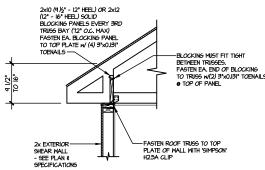


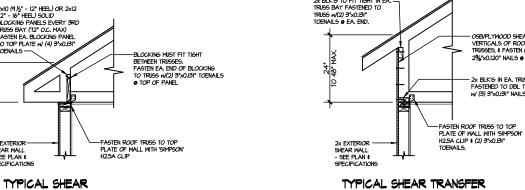
**JTR** 

JAD

RIDGI MPBELL 

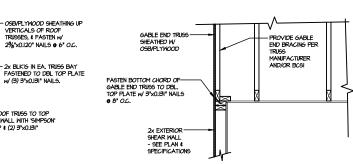






DETAIL @ RAISED HEEL TRUSS

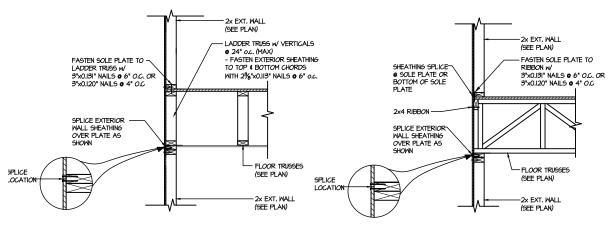
SCALE: 3/8'=1'-0' HEEL HEIGHT UP TO 48" MAX.



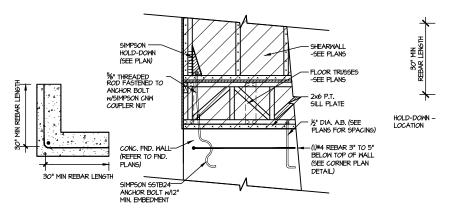
TYPICAL SHEAR TRANSFER DETAIL @ ROOF TRANSFER HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D

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

SCALE: 3/6"=1"-0"



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE S/8"-1"-0" PARALLE FRMS BETWEEN FLOORS @ EXTERIOR WALL TYPICAL SHEAR TRANSFER DETAIL



TYPICAL CORNER FOUNDATION HOLD-DOWN INSTALLATION

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

CAMPBELL RIDGE LOT 24 - ELMHURST 4.1 RALEIGH, NC DETAILS RAMING

seal: 5/14/25

M&K project number 126-24045

issue date: 04-25-25

drawn by:

REVISIONS:

2025-05-14

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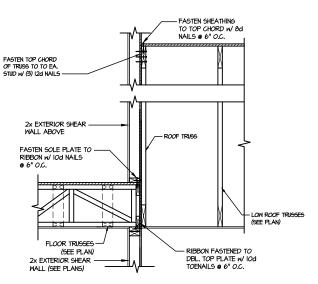
JAD

TH CAR

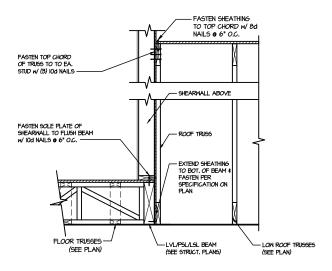
SEPHT. RIV

**SD2.0** 

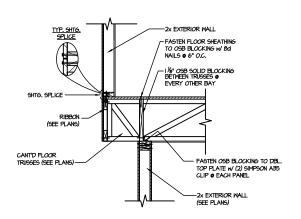
LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.



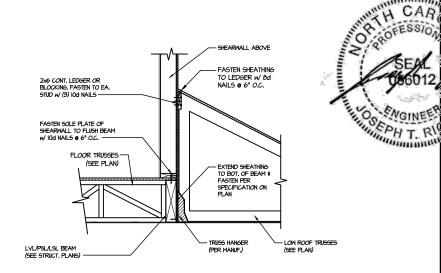
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL

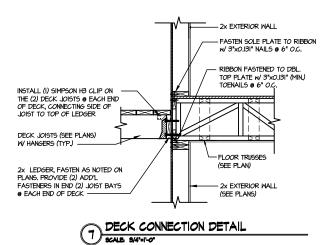


SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE SCALE SALE-SALE

(2)2x8 CONT. RIBBON 2xô LEDGER FASTENED TO DBL RIBBON W (2) I/4" DIA, x 4 I/2" LONG WOOD SCREWS (SIMPSON SDS OR EQ.) 0 16" O.C. w/ (I) SIMPSON RR CONNECTOR, UTILIZE (8) NAILS/SCREWS PER MANUF, REC. CONTIN. ROOF SHEATHING -FASTEN TO TRUSSES W 2 3/8"x0.II3" NAILS @ 6" O.C. (SEE PLAN) - CONT. 2x FASCIA -FASTEN TO RAFTERS W/ (I) SIMPSON LS30 CLIP • EA. TRUSS - CONNECTION OR HANGER PER TRUSS MANUF. FOSER FASTENED TO-LEDGER FASIENED 10— LWALL STUD (Ø 16" MAX) W 1/4" DIA. x 4 1/2" LONG SDS IREMS + (2) 3 1/4"X0.120" NLS 5 DETAIL @ SHED ROOF

-INTERIOR SHEARWALL EXTERIOR WALL-(SEE PLAN) -Fasten Nailers to END Stud W/ 3"x0.131" Nails @ 6" O.C. Vert. Or 3"x0.120" NAILS @ 6" O.C. VERT. PROVIDE ADD'L FLAT-EXTERIOR WALL STUD NAILERS (SEE PLAN)

SHEAR TRANSFER DETAIL @ 6 INTERSECTING INT. SHEARWALL SCALE SATSING OF SHIRE OF



seal: 5/14/25

M&K project number: 126-24045

issue date: 04-25-25

**JTR** 

JAD

project mgr:

drawn by:

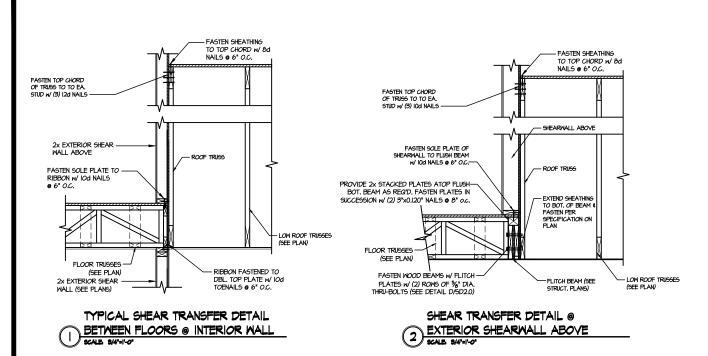
REVISIONS:

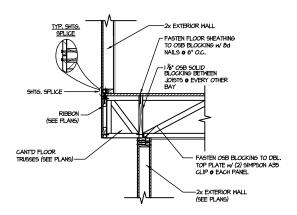
2025-05-14

ENGINE

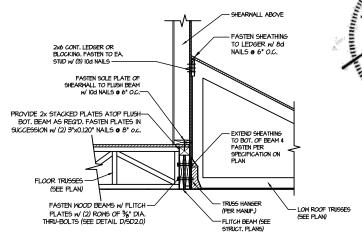
CAMPBELL RIDGE LOT 24 - ELMHURST 4.1 RALEIGH, NC ETAIL

**SD2.1A** 

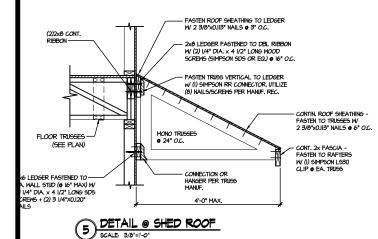


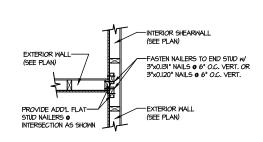




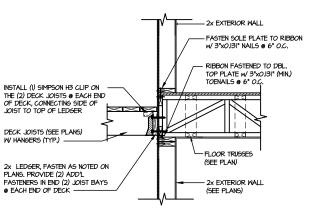


SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

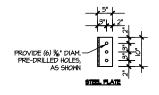


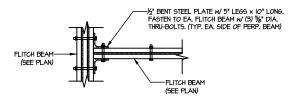






DECK CONNECTION DETAIL





TYPICAL FLITCH BEAM TO FLITCH BEAM CONNECTION DETAIL

seal: 5/14/25

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M&K project number 126-24045

drawn by:

REVISIONS:

2025-05-14

**JTR** 

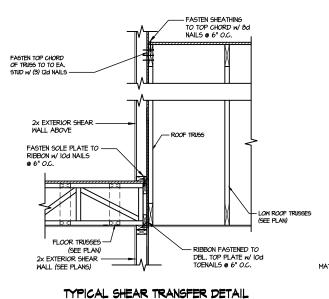
JAD issue date: 04-25-25

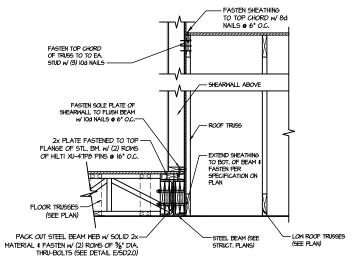
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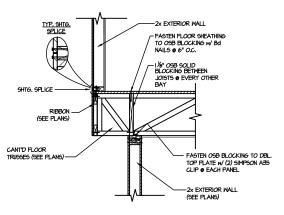
OSEPH T. RIV

RIDGE CAMPBELL RI Lot 24 - elmhurst 4 raleigh, nc

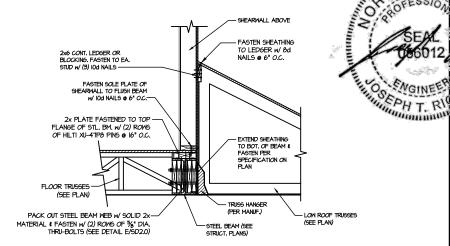
SD2.1B











SHEAR TRANSFER DETAIL @

EXTERIOR SHEARMALL ABOVE

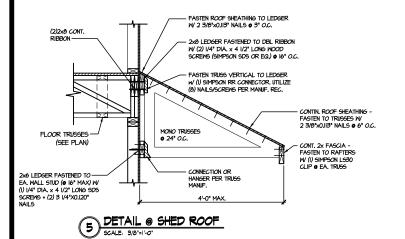
SCALE 944-11-0\*

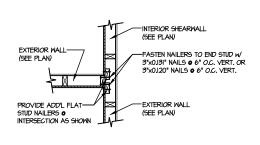


SHEAR TRANSFER DETAIL @

EXTERIOR SHEARMALL ABOVE

SCALE SHATIFOT

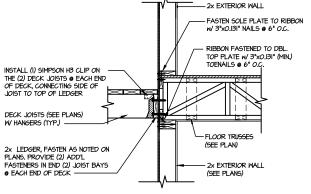




SHEAR TRANSFER DETAIL @

INTERSECTING INT. SHEARWALL

SCALE SIA\*-11-0\* SHITS. ON SAME FACE



DECK CONNECTION DETAIL

RLH - Campbell Ridge - Lot 24 - Structurals DATE: 5/14/2025 12:01 PM

FRAMING DETAILS
CAMPBELL RIDGE
LOT 24 - ELMHURST 4.1
RALEIGH, NC

seal: 5/14/25

M&K project number: 126-24045

issue date: 04-25-25

drawn by:

REVISIONS:

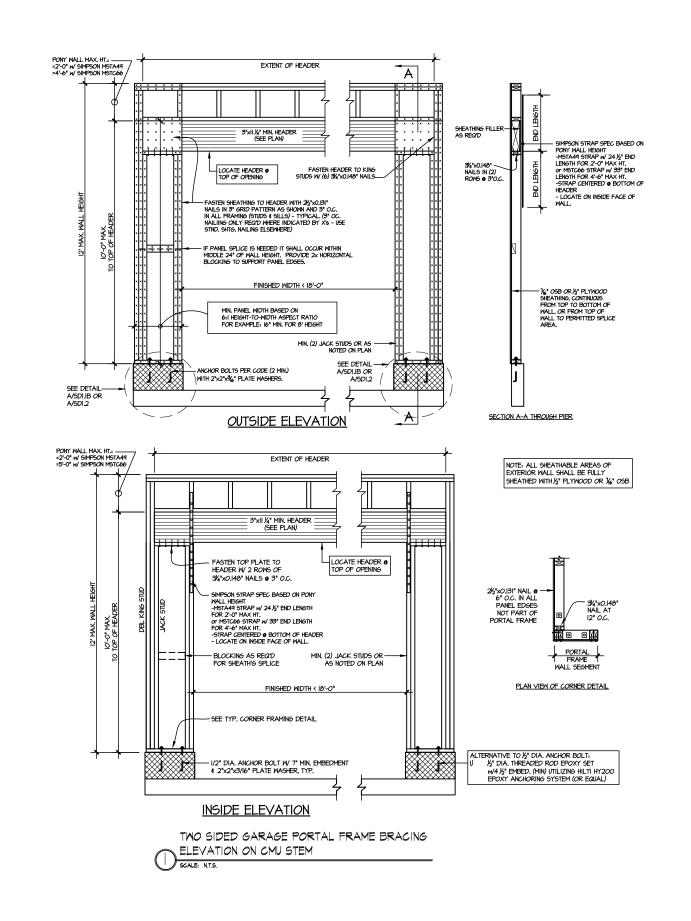
2025-05-14

**JTR** 

JAD

TH CAR

SD2.1C



seal: 5/14/25 TH CAR OSEPH T. RI

MULHERNHKUL HESIDENTIAL STRUCTURAL ENGINEENIN

M&K project number:

126-24045 project mgr: JTR

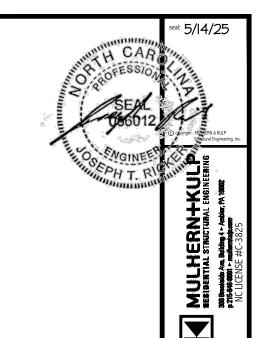
JAD drawn by: issue date: 04-25-25

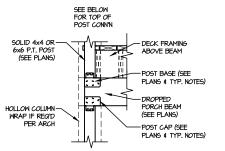
REVISIONS:

2025-05-14

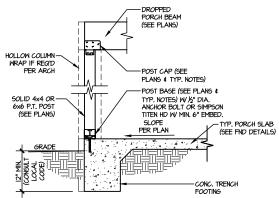
RAMING DETAILS

CAMPBELL RIDGE LOT 24 - ELMHURST 4.1 RALEIGH, NC





#### TYPICAL CONNECTION DETAIL & 2nd FLOOR DECK



TYPICAL PORCH

3 POST CONNECTION DETAIL

SCALE: NONE

SLAB ON OR

AB ON GRADE SHOWN

M&K project number: 126-24045

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

REVISIONS:

2025-05-14

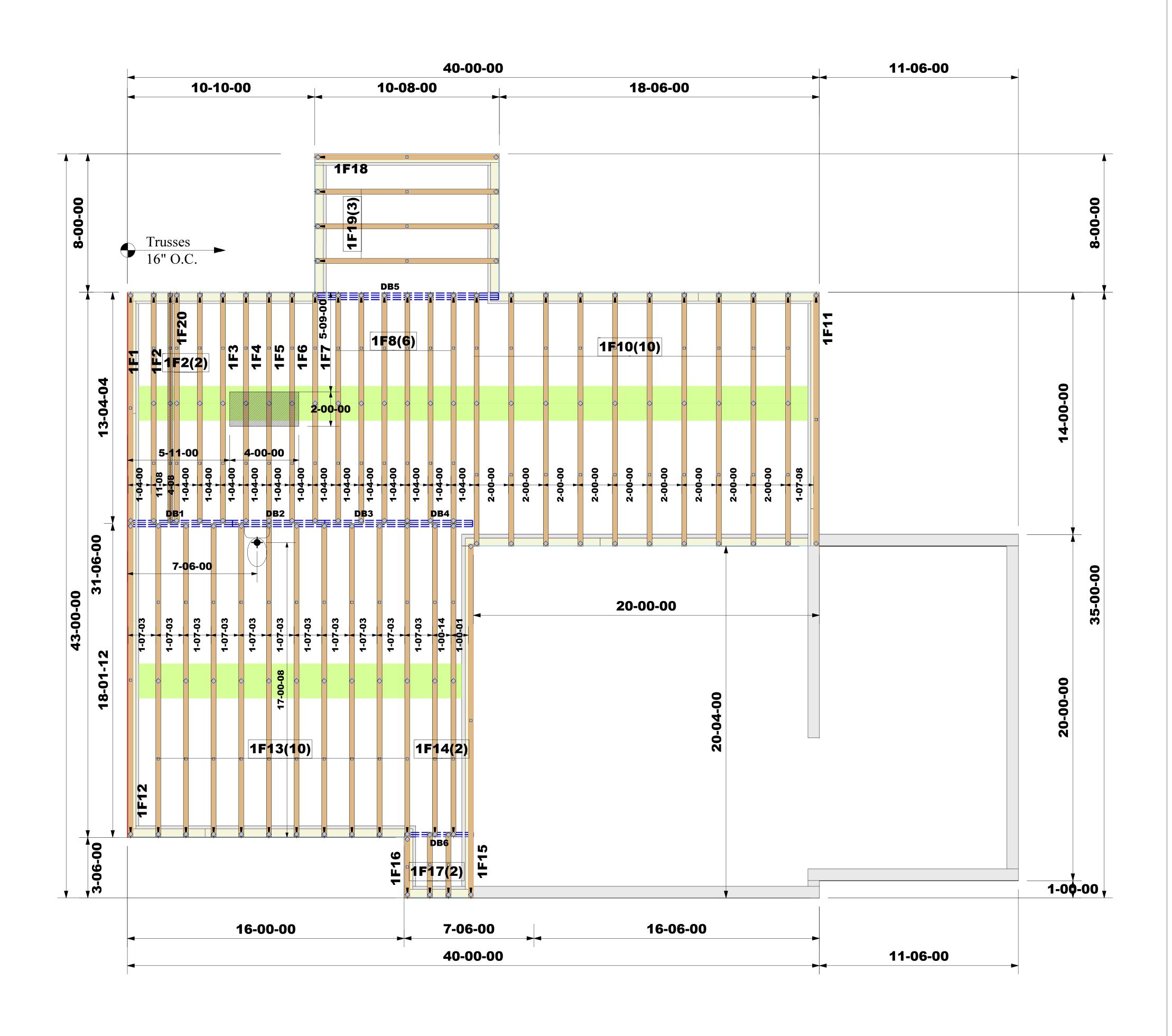
TO MES

RAMING DETAILS

CAMPBELL RIDGE LOT 24 - ELMHURST 4.1 RALEIGH, NC

SD3.0

SCALE: NTS



NOTES
\*EXTERIOR DIMENSIONS ARE
TO SHEATHING.
\*INSTALLATION OF STRONGBACKS
RECOMMENDED (NOT REQUIRED).
\*INSTALL 2X4 NAILERS ON ALL TOP RIBBON
NOTCH CONDITIONS.
\*SEE PROFILE DWGS. FOR TRUSS
ORIENTATION BEFORE INSTALLATION.

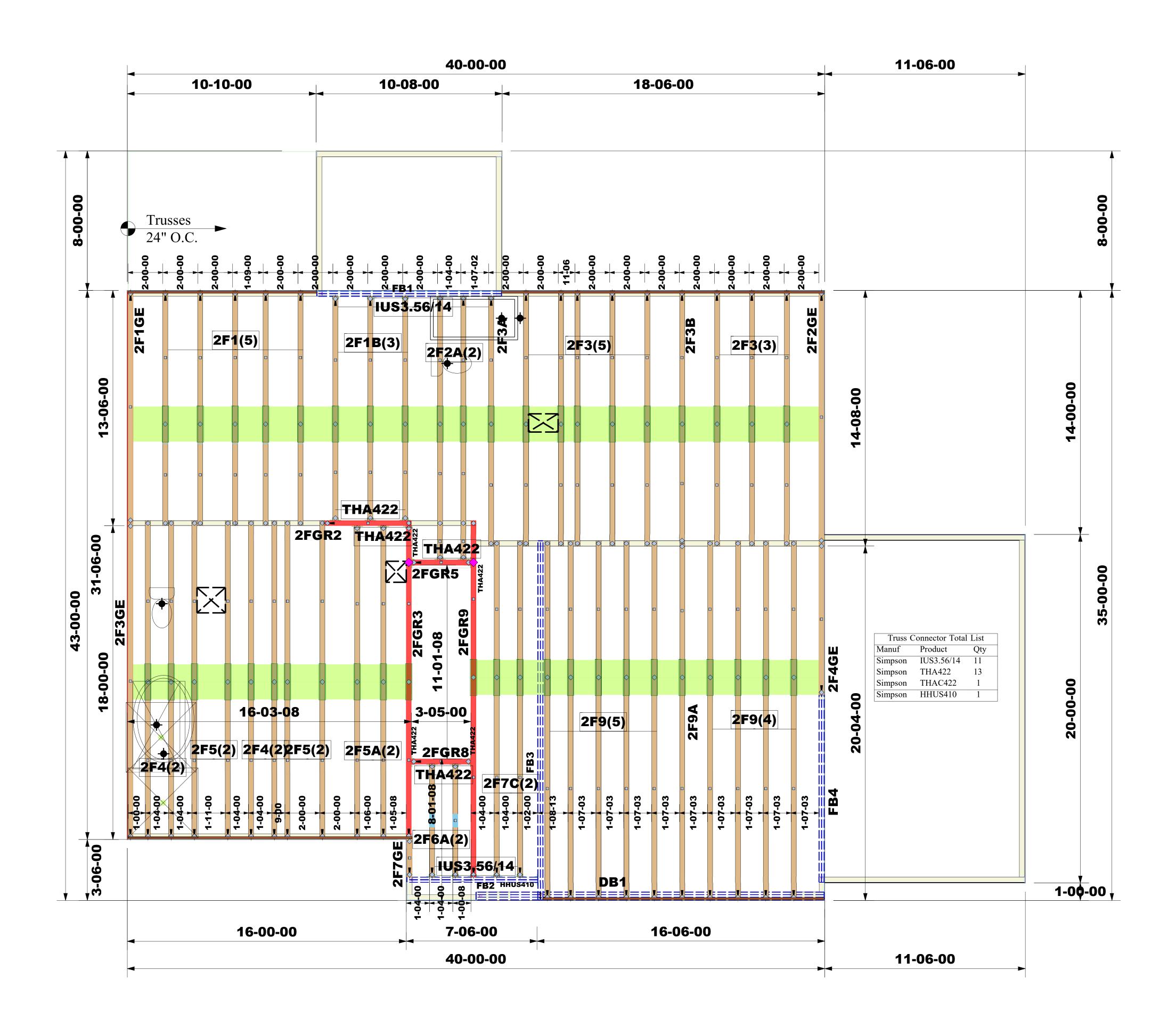
## 1ST FLOOR FRAMING

CAMPBELL RIDGE SF LOT 24
(NC)(RAL)
2223-1 - ELMHURST
EL. 4.1
OPT. 3 CAR GARAGE
OPT.COVERED PORCH
OPT.EXTENDED BREAKFAST
OPT. TRAY CEILING OWNER'S BEDROOM
GARAGE RIGHT/CRAWL SPACE

Job #: <b>2505-6730</b>	WARNING:  CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE	NOTE:  IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO	Customer: DRB Raleigh
	TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC	SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.	Job Name: Campbell Ridge Lot 00.0024 OWF
Designer: Sandy Das	APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMAITON.  TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY	THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS	Lot #: Lot 00.0024
Sales Rep:  Robbie Zarobinski	SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.	INCLUDING THE INSTALLATION, AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.	Model Name: ELmhurst Rev. 3



SCALE: NTS



NOTES
\*EXTERIOR DIMENSIONS ARE
TO SHEATHING.
\*INSTALLATION OF STRONGBACKS
RECOMMENDED ( NOT REQUIRED).
\*INSTALL 2X4 NAILERS ON ALL TOP RIBBON
NOTCH CONDITIONS.
\*SEE PROFILE DWGS. FOR TRUSS
ORIENTATION BEFORE INSTALLATION.

		Products		
PlotID	Length	Product	Plies	Net Qty
FB3	22-00-00	1 3/4" x 14" (2.0E 3100) LVL	2	2
FB1	12-00-00	1 3/4" x 14" (2.0E 3100) LVL	2	2
FB2	8-00-00	1 3/4" x 14" (2.0E 3100) LVL	2	2
FB4	11-00-00	1 3/4" x 14" (2.0E 3100) LVL	2	2
DR1	20-00-00	1 3/4" x 16" (2 0F 3100) L.VI.	3	3

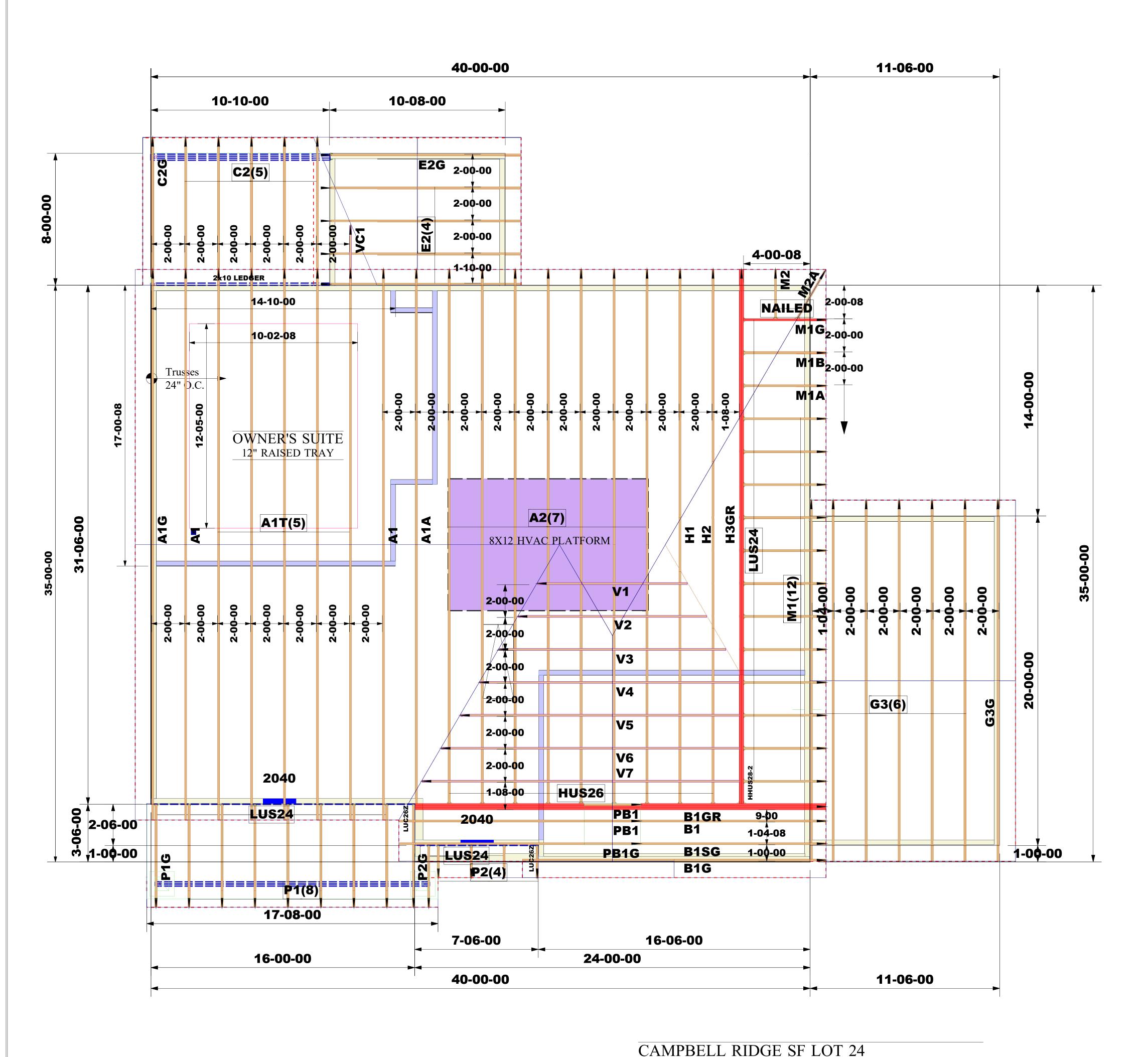
2ND FLOOR FRAMING

CAMPBELL RIDGE SF LOT 24
(NC)(RAL)
2223-1 - ELMHURST
EL. 4.1
OPT. 3 CAR GARAGE
OPT.COVERED PORCH
OPT.EXTENDED BREAKFAST
OPT. TRAY CEILING OWNER'S BEDROOM
GARAGE RIGHT/CRAWL SPACE

Job #: <b>2505-6730</b>	WARNING:  CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF	DESIGNER OR ARCHITECT TO PROVIDE AN	Customer: DRB Raleigh	
	THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC	APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.	Job Name: Campbell Ridge Lot 00.0024 OWF	Third-Party Ti
Designer: Sandy Das	APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMAITON.  TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS. THEY	THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS	Lot #: Lot 00.0024	Stı 201 Thurn
Sales Rep:  Robbie Zarobinski	SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.	INCLUDING THE INSTALLATION, AND BRACING OF	Model Name: ELmhurst Rev. 3	Phon



SCALE: NTS



## ROOF FRAMING PLAN

\*EXTERIOR DIMENSIONS ARE TO SHEATHING

Truss Connector Total List			
Manuf	Product	Qty	
Simpson	LUS24	29	
Simpson	LUC26Z	2	
Simpson	HUS26	10	
Simpson	HHUS28-2	2 1	
Simpson	One H2.5A	80	

(NC)(RAL)
2223-1 - ELMHURST
EL. 4.1
OPT. 3 CAR GARAGE
OPT.COVERED PORCH
OPT.EXTENDED BREAKFAST
OPT. TRAY CEILING OWNER'S BEDROOM
GARAGE RIGHT

Job #:	WARNING:	NOTE:	
2505-6733	CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND	IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST	J
Designer:	DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMAITON.	BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.  THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN	
Sales Rep:	TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT	RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.	\ 
Robbie Zarobinski	DAMAGE OR PERSONAL INJURY.		-



