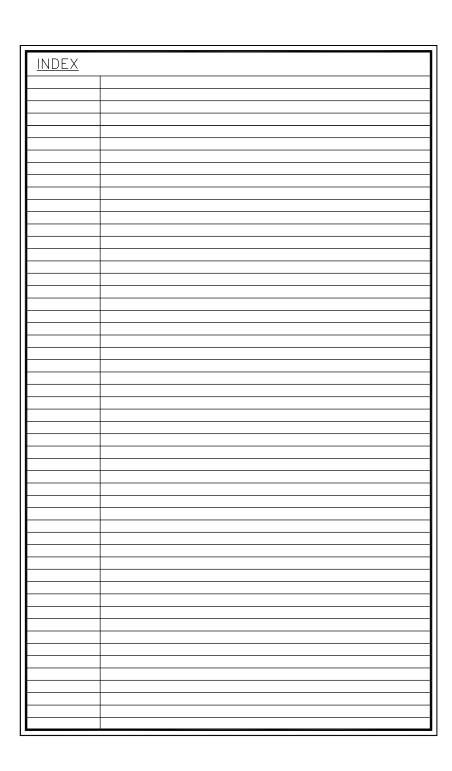
MALBEC-RALE

RALEIGH - LOT 00.0071 THE FARM AT NEILL'S CREEK

(MODEL# 1930)

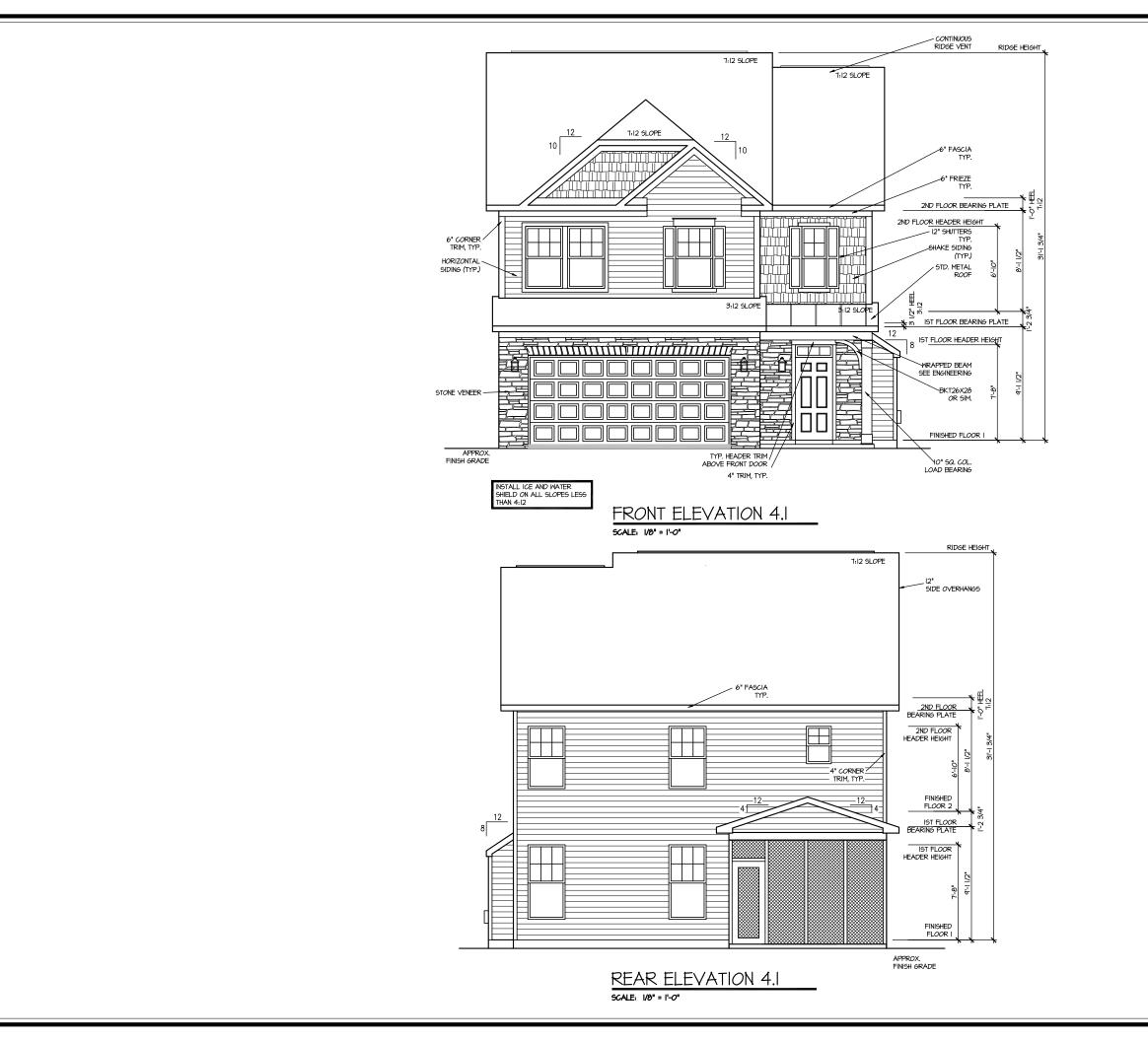
ELEVATION 4.1 - GL 313 Winding Creek Drive





AREA CALCULATIONS		COVERED / UNHEATED	
ELEVATION 4.1	HEATED	UNHEATED	UNCOVERED
FIRST FLOOR	885 SF		
GARAGE		448 SF	
FRONT PORCH - ELEVATION 4.1		57 SF	
SECOND FLOOR	1100 SF		
ADTION O			
OPTIONS DODGE PARKET		107.05	
SCREENED PORCH	10.05	127 SF	
FIREPLACE	10 SF		
TOTAL	1995 SF	670.65	
TOTAL	1995 5F	632 SF	
			+
			+
			+
			+
			+

LOT	SPECIFIC	
	LOT 00.0071	THE FARM AT NEILL'S CREEK
'	LOT 00.0071	
_		MALBEC REV. RALE 1 ELEVATION 4.1
2	ADDRESS	313 WINDING CREEK DR LILLINGTON, NC 27546



MASTER PLAN INFORMATION

REVISION DATE

1-RALE 07-06-2018 11-08-2023

DRAWN BY:
ITS

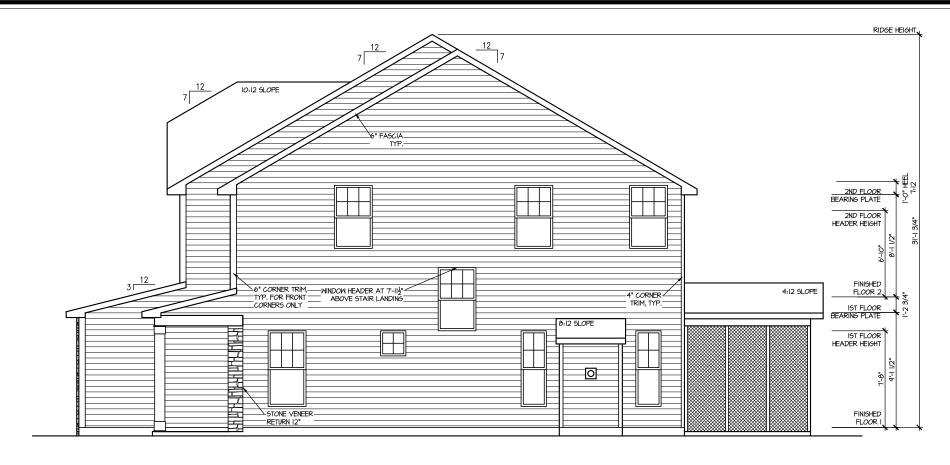
DATE:
02/17/2024

PLAN NO.
1930

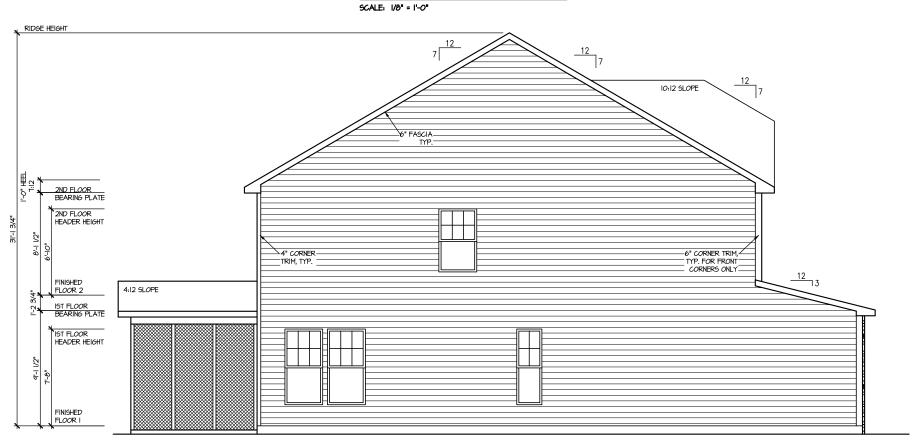


FRONT & REAR ELEVATIONS

MALBEC DRAWING TITLE



RIGHT ELEVATION 4.1 SCALE: 1/8" = 1'-0"



LEFT ELEVATION 4.I

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

DRAWN BY:

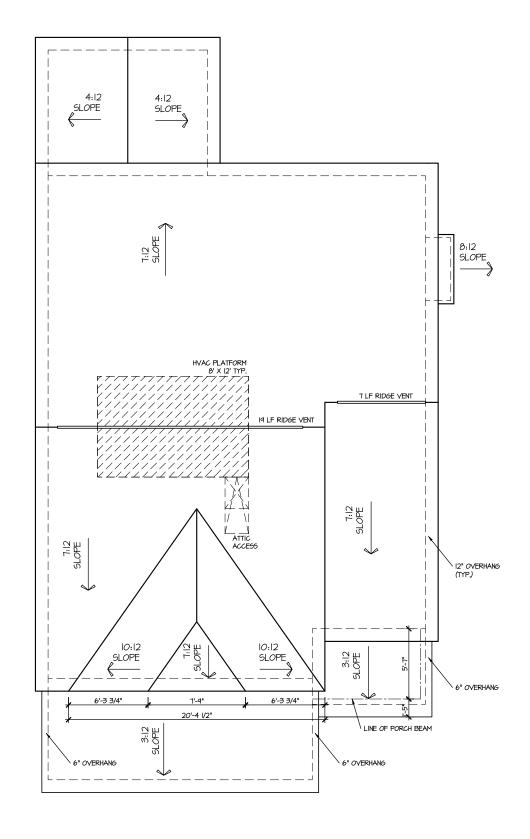
DATE: 02/17/2024 PLAN NO. 1930



RIGHT & LEFT ELEVATIONS

HOUSE NAME:
MALBEC
DRAWING TITLE

| UPPER ROOF VENTILATION CALCULATIONS:
| ROOF AREA = 1244 50, FT. |
| OVERALL REQUIRED VENTILATION. |
| OVERALL REQUIRED VENTILATION. |
| OVERALL REQUIRED VENTILATION. |
| 10 300 = 0, 41 50, FT. |
| 10 300 = 0, 41 50, FT. |
| 10 300 = 0, 41 50, FT. |
| 10 300 = 0, 41 50, FT. |
| 10 300 = 0, 41 50, FT. |
| 10 300 = 0, 41 50, FT. |
| 10 300 | NOT A STANDARD STAND LOWER VENTING. (BOTTOM 2/3 RDS)
65 LINEAR FEET OF SOFFIT X 5.1 50. IN. = 257 50. FT.
UPDER VENTING. ICID (J. 80.1)
26 LINEAR FEET OF RIDGE X 16 50. IN. = 3.25 50. FT.
3.5 50. FT. ALL FLEET SOR - 5.0%
TOTAL ROOF VENTILATION 5.62 50. FT. > 4.15 50. FT. (ROID)

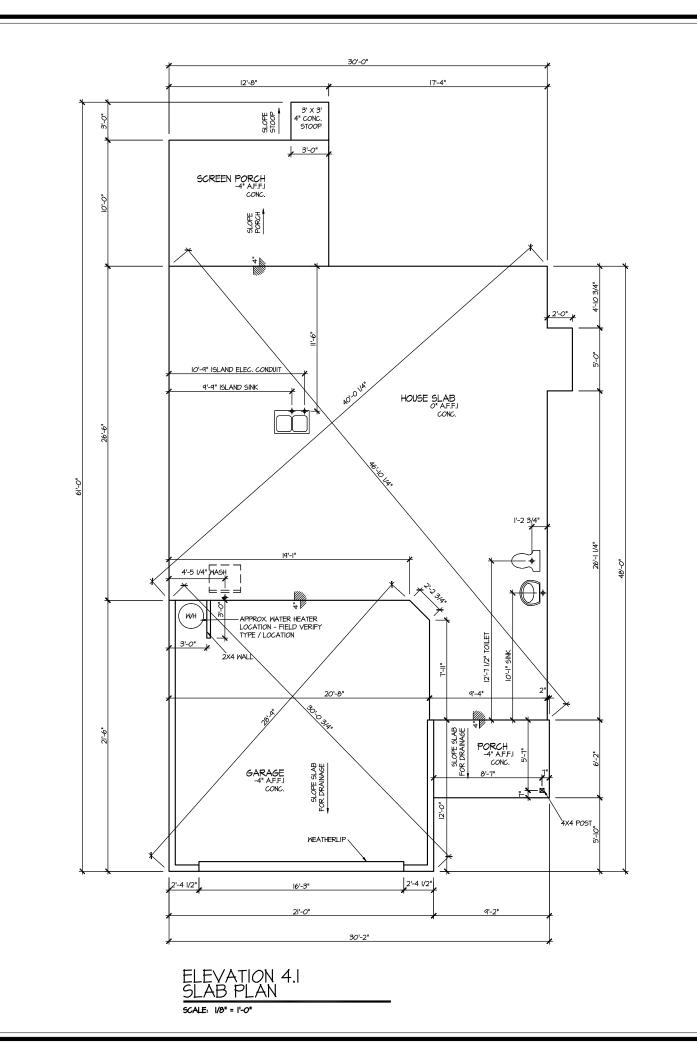


ROOF PLAN ELEV. 4.1

DRAWN BY: DATE: 02/17/2024 PLAN NO. 1930



HOUSE NAME:
MALBEC
DRAWING TITLE
ROOF PLAN



DATE:

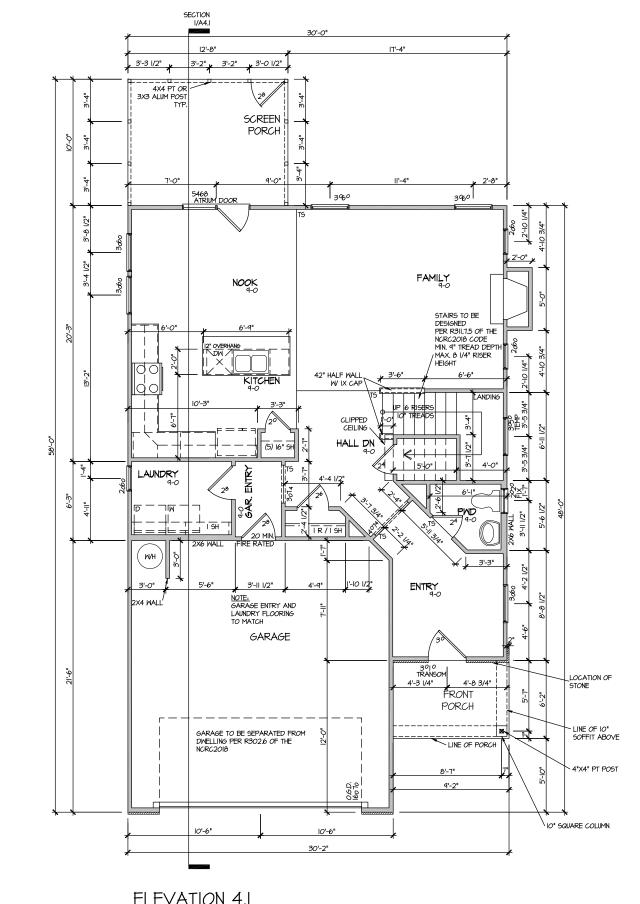
OZ/17/2024

PLAN NO.

1930

HOMES

HOUSE NAME:
MALBEC
DRAWING TITLE
SLAB PLAN



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

E: Lot 00.0071.dwg DATE: 2/17/2024 2:32 P

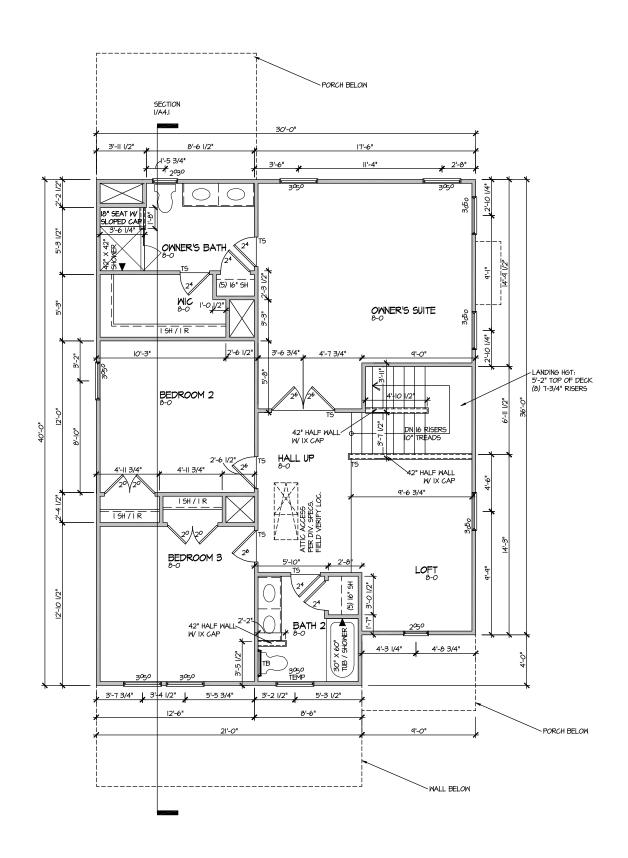
HOM EN

DRAWN BY: ITS DATE: 02/17/2024

PLAN NO. 1930

HOUSE NAME:
MALBEC
DRAWING TITLE
FIRST FLOOR PLAN

SHEET No. A3.1



ELEVATION 4.1 SECOND FLOOR PLAN SCALE: VO' = 1'-0'

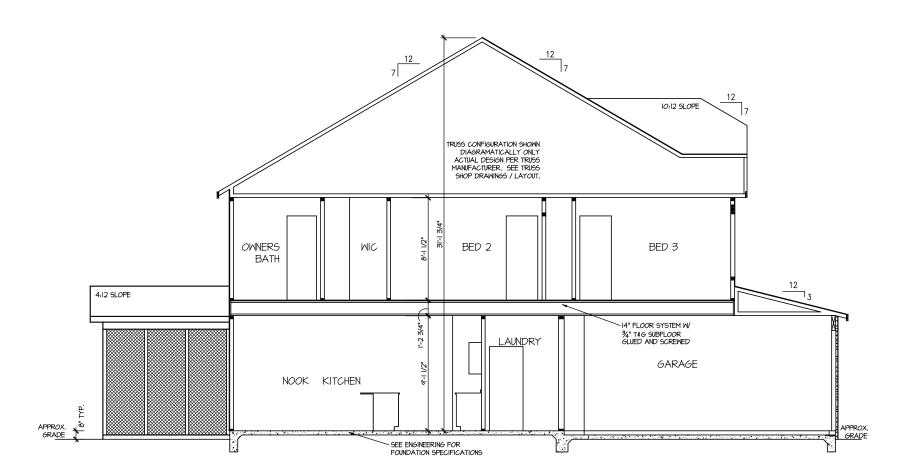
: Lot 00.0071.dwg DATE: 2/17/2024 2:32 PM

DRAWN BY:
ITS
DATE:
02/17/2024
PLAN NO.
1930

UPDATED DATE

HOUSE NAME:
MALBEC
DRAWING TITLE
SECOND FLOOR PLAN

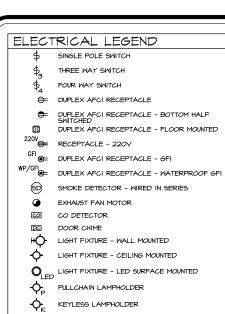
SHEET No. A3.2



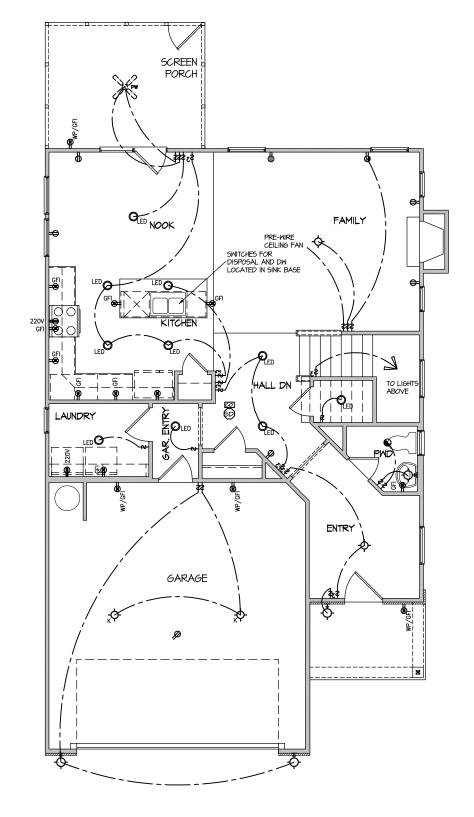
SECTION I

DRAWN BY: DATE: 02/17/2024 PLAN NO. 1930 HOUSE NAME:
MALBEC
DRAWING TITLE
BUILDING SECTION

SHEET No. A4.I



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



ELECTRICAL PLAN FIRST FLOOR - ELEV. 4.1 SCALE: 1/0"

FILE: Lot 00.0071.dwg DATE: 2/17/2024 2:32 PM

SHEET No.

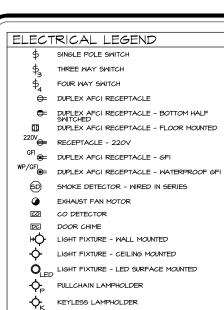
NAME: BEC G TITLE

HOUSE NAMALB

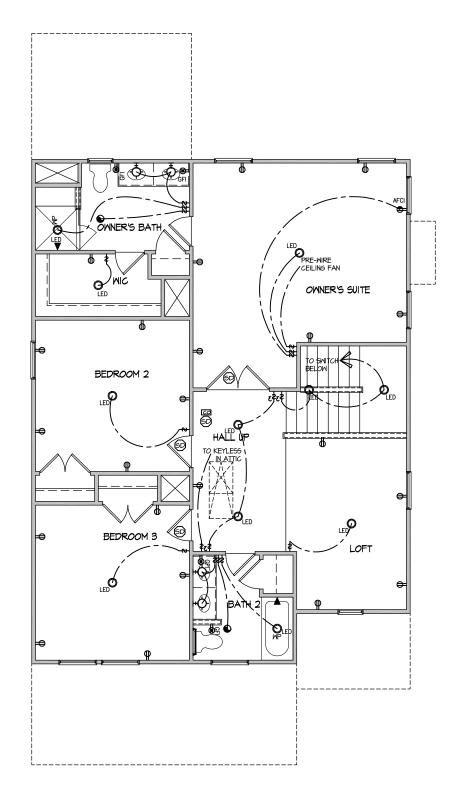
FLOOR ELECTRICAL

FIRST

DRAWN BY: ITS DATE: 02/17/2024 PLAN NO. 1930



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.



DRAWN BY:

DATE: 02/17/2024

SECOND FLOOR ELECTRICAL

NAME: BEC S TITLE

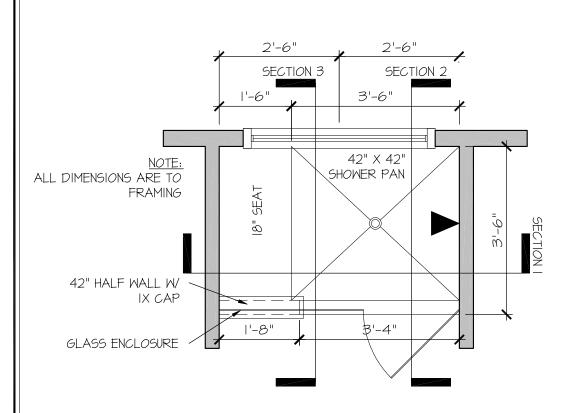
MALE

SHEET No.

PLAN NO. 1930

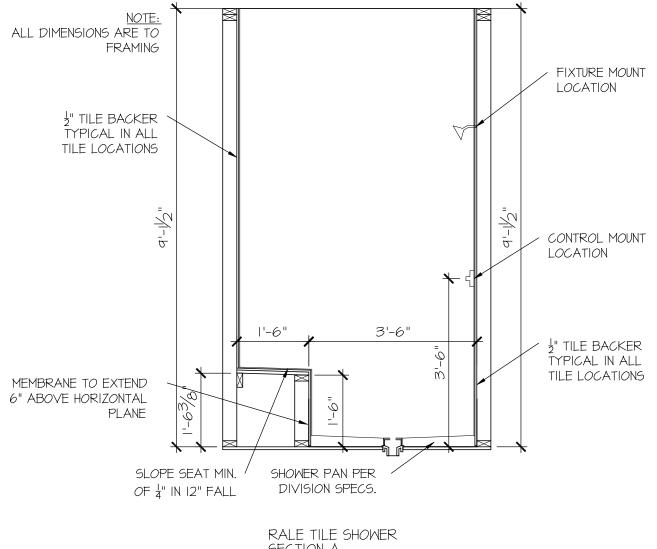
ELECTRICAL PLAN SECOND FLOOR - ELEV. 4.1 SCALE: 1/8" = 1'-0"

= |'-O"



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



SEAL

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

PLAN NO.

24 X 36 SCALE

~ "

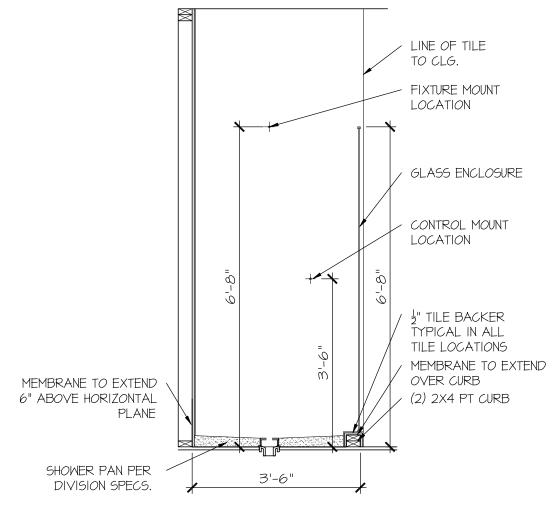


E ILE SHOWER DETAIL

OUSE NAME:

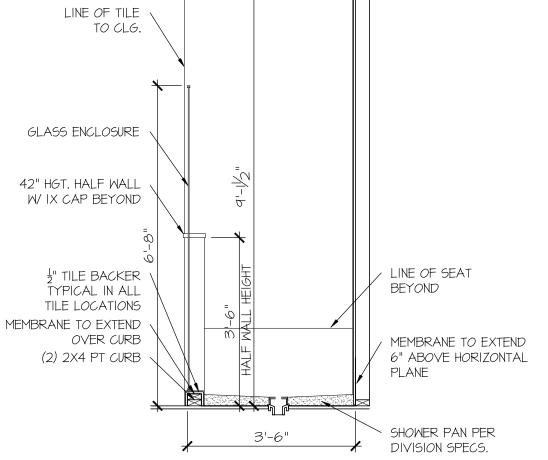
SHEET No.

P||.2

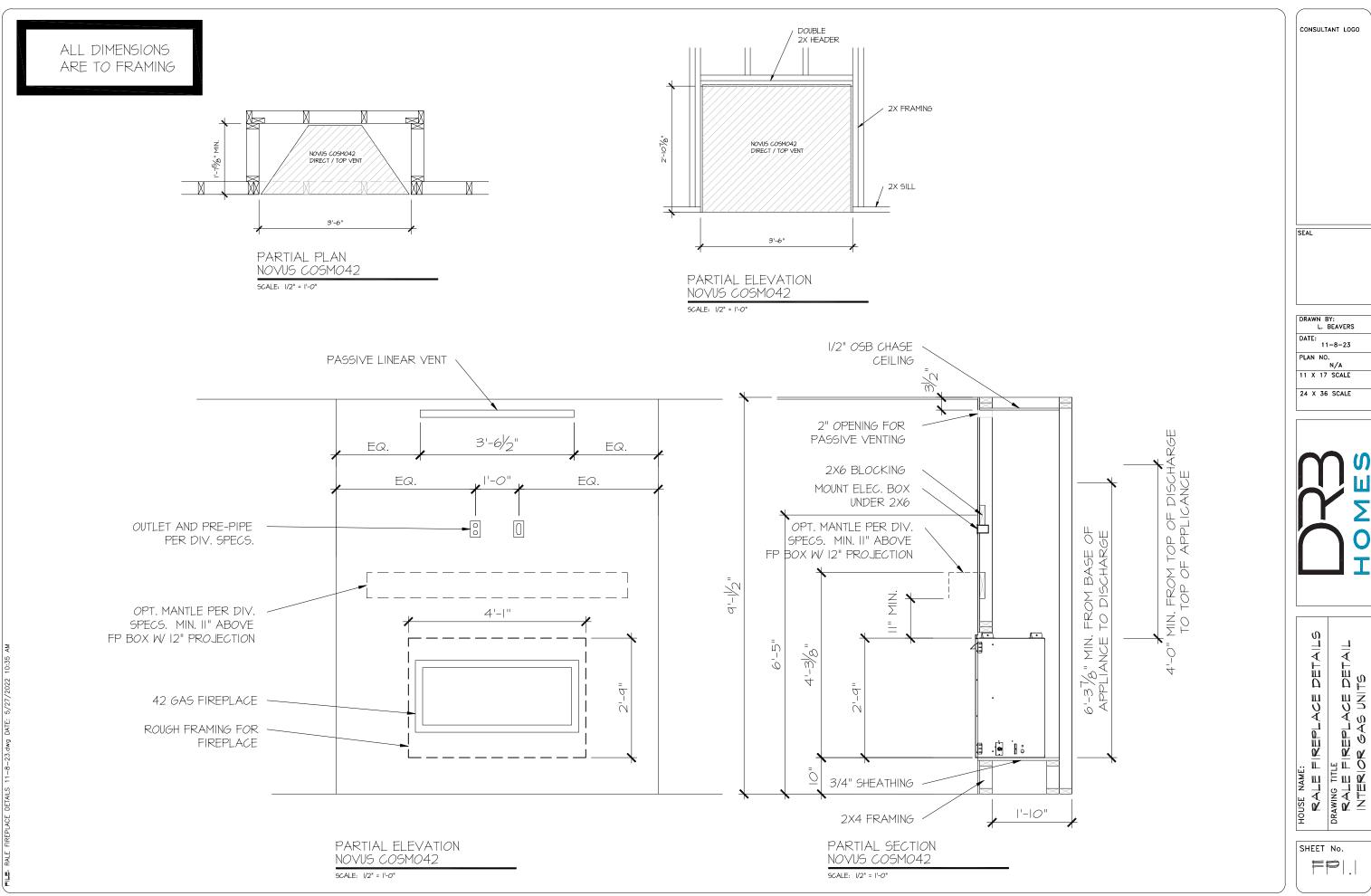


SCALE: 1/2" = 1'-0"





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



CONSULTANT LOGO

DRAWN BY: L. BEAVERS DATE: 11-8-23 PLAN NO. 11 X 17 SCALE



WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

ROOF

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

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) (ADD'L IO PSF @ TILE)

LATERAL 120 MPH. EXPOSURE B. SEISMIC A/B

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

GENERAL FRAMING

ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS. ALL NAILS SPECIFIED ARE MIN 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(1) FOR ALL CONNECTIONS, TYP, U.N.O.

 EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS)
 I6" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, UN.O. WALLS OVER 12' TALL SHALL BE PER PLAN.

ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRICE-PINE-FIR #2 (SPE) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY. CODE TABLES HAVE NOT BEEN USED.

ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" OC (MAX. UNO) . 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:

 "LSL" - Fb=2325 psi: Fv=3I0 psi: E=L55xI0^6 psi • '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

OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO MH FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3" \times 0.120" NAILS @ 8" O/C OR 2 ROWS %" \times 3%" SIMPSON SDS SCREWS (OR 3%" 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 NAIL S/SCREWS 2" FROM EDGE SOLID 3 K" OR 5 K BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS

FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF $\mbox{\it k}^{*}$ "x6" SIMPSON SDS SCREWS (OR 6 $\mbox{\it k}^{*}$ " 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 KING STID MINIMIM - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE

NUMBER OF JACK STUDS REQUIRED, U.N.O.,

DESCRIPTION OF BLDG. ELEMENT 3"x0.131" NAILS

BLK'G. BTWN. JOISTS TO TOP PL. (3) TOENAILS

DOUBLE TOP PLATE LAP SPLICE (9) NAILS IN LAPF

(ONLY ACCEPTABLE WHERE * ARE SHOWN)

JOIST TO SOLE PLATE

DOUBLE TOP PLATE

INTERSECTING WALLS

SOLE PLATE TO JOIST/BLK'S

TOP OR SOLE PLATE TO STU

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 BCS2-2/4 CAP & ABM44Z BASE, U.N.O.

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

(3) TOENAILS

NAII S @ 24" a

OENAILS @ 8" o

2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS.

FLOOR FRAMING

I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. 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. FASTEN TO FRAMING MEMBERS W GLUE AND 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12"o.c. FIELD.

2 3 × 0.120 NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD.

2 3" × O II3" NAII S @ 3" O C @ PANEL EDGES & @ 6" O C IN FIELD #6 x 2" MIN. SCREMS @ 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 ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) • ALL BEARING POINTS. PROVIDE (2) H2.51 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.C

ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."

SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO:

- RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS w/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)

ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS

W 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES \$ @ 12" O.C. FIELD. - w/ 2 🖁 × 0.120" NAILS • 4"o.c. • PANEL EDGES \$ • 8" O.C. FIELD. · W/ 2 🖁 × 0.113" NAILS 🛭 3"O.C. 🗗 PANEL EDGES 🛭 🗗 O.C. FIELD.

SYMBOL SPECIFICATION HD-I SIMPSON HTT4 HOLD-DOWN SIMPSON MSTC66 STRAP TI → HD-2 (CENTER STRAP ON FLOOR SYSTEM LINO.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)

HD-3 SIMPSON STHDI4/I4RJ HOLD-DOWN

HOLD-DOWN SCHEDULE

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN 3/8 DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF, RECOMMENDATIONS, DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

SD2. | REFERS TO SD2. | A FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

3"x0.120" NAILS (3) TOENAILS*

(3) NAILS @ 4" o.c 3) TOENAILS*

(3) NAILS TOENAILS **©** 6" O.C

(II) NAILS IN LAPPED ARE

(3) TOFNAIL S*

NAILS @ 16" o

NAII 5 @ 16" 00

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: O 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 R30113 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 UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R60235& R80211

EXT. WALL SHEATHING SPECIFICATION

7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 ¾"x0.II3" NAILS @ 6" O.C. AT EDGES & @ I2" O.C. IN THE PANEL FIELD. TYP, U.N.O.

HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.

ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

ALT. STAPLE CONNECTION SPEC: 1/5" 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 3/8" 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 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 STANDARD SHEAR TRANSFER DETAILING IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.

DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.

ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING

PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

> INDICATES EXTENT OF INT. OSB SHEARWALL OR 3" O.C. OSB SHEARWALL

INDICATES HOLDOWN BELOW

VENEER LINTEL SCHEDULE

(M	AX)	ABOVE LINTEL	SILLE ANOLE SIZE
3'	₽.	20 FT. MAX	L3"x3"x¼"
		3 FT. MAX	L3"x3"x¼"
6	'-O'	I2 FT. MAX	L4"x3"x/4"
		20 FT. MAX	L5"x3½"x¾"
a	٠ <u>.</u>	3 FT. MAX	L4"x4"x¼" *
ľ	~	I2 FT. MAX	L5"x3½"x¾"
		I6 FT. MAX	L6"x3½"x¾"
4'	-6"	I2 FT. MAX	L6"x3½"x¾"
16	٩̈.	2 FT. MAX	L7"x4"x½" **
		3 FT. MAX	L8"x4"x½" **

SUPPORT 2 %" - 3 ½" VENEER W 40 psf MAXIMUM WEIGHT. ALL HAVE 4" MIN. BEARING

THEIGHT OF VENEER

JOYALL SUFFLIKE (2 76 - 3 76 VEREEN W 40 PER PANISHEN PERSHI).

19 SHALL HAVE PHINL EEARING

19 SHALL HAVE PHINL EEARING

19 SHALL BY THE PROTEINED BACK TO HEADER.

10 SHALL BE FASTINED BACK TO HEADER.

10 SHALL BE FASTINED BACK TO HEADER IN HALL 94890. M/S DIA x 3 5/4

MAY WHEER HAVE PREST OF ANY FORTICAL OF STOCK OFFER THE OFFENING.

11 LLINITES SHALL BE LONG LES VERTICAL.

11 LLINITES SHALL BE LONG LES VERTICAL.

11 MAY DEE CUT IN THE FIELD TO DEE 3 5/4 HOTE OVER THE BEARTING LENGTH ONLY. THIS IS TO ALLOH FOR MOTTAR JOINT FINSHING.

EE STRUCTURAL PLANS FOR ANY LINITEL CONDITION NOT BICOMPASSED BY THE BOOVER PARAMETERS.

R GUEEN VENEER USE L4x9%*. OR 9½" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF VENEER < 9½" THICK,

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.

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

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

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:

(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 IO' TALL WALL ANCHOR REQUIREMENTS) ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.

 BUILDER TO 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 ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:

4,000 psi: FOUNDATION WALLS 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE 60.000 psi

BASEMENT FOUNDATION WALL DESIGN BASED ON:

• 9' OR 10' HEIGHT (AS NOTED ON PLAN - TALLER WALLS MUST BE ENGINEERED

NOMINAL WIDTH (9 ½" FOR 10" THICK WALL).

BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYP! 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 END WALL WITH 2" CLEAR REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.

 FOR OPENINGS UP TO 36". PROVIDE MINIMUM 10" CONCRETE DEPTH OVER OPENING OR (3)2x10 W/ (2)2x6 JACK STUDS, U.N.C

LARGER OPENINGS SHALL BE PER PLAN.

• ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT

• ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.

• FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.

PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY

• 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 BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 \$ 530.1. CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.

PROVIDE 2x8 x 16" LONG PT 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

MEANS & METHODS NOTES

FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY 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 ELEMENT 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 VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY OR WARRANTY TOLERANCES.

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/, IOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING

I/4" DEAD LOAD

FLOOR FRAMING BY OTHERS LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAL LOAD. (NOT DIFFERENTIAL DEFLECTION)

THE STRUCTURE IS DESIGNED TO BE SELE

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OFESSIO

ADDITIONAL NOTES FOR TRUSS &

A. ROOF TRUSSES:

FLOOR TRUSSES. ATTIC TRUSSES. & I-JOISTS: I/8" DEAD LOAD FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO

REVISIONS

ERNH

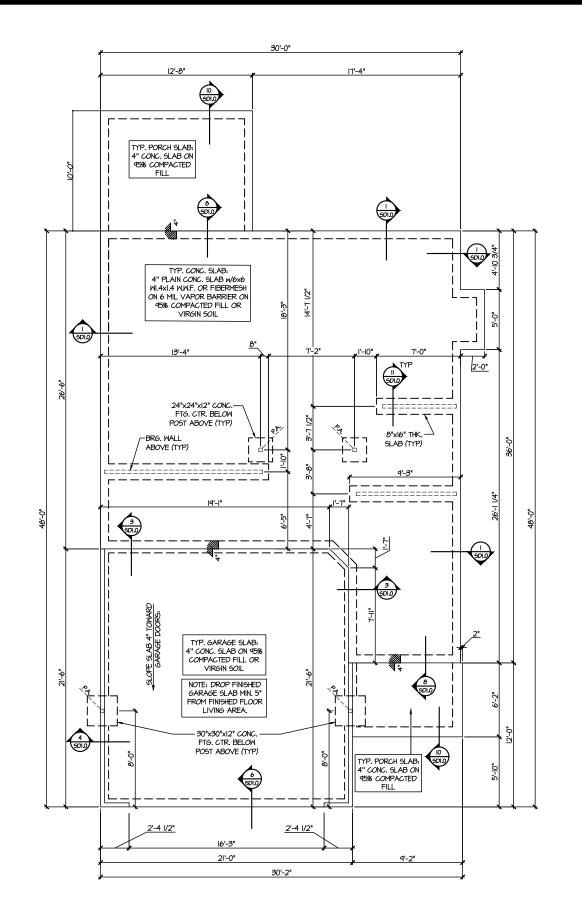
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MONO SLAB FOUNDATION PLAN SCALE: 1/8"=1"0"

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MUCHERN+KULP
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126-22076

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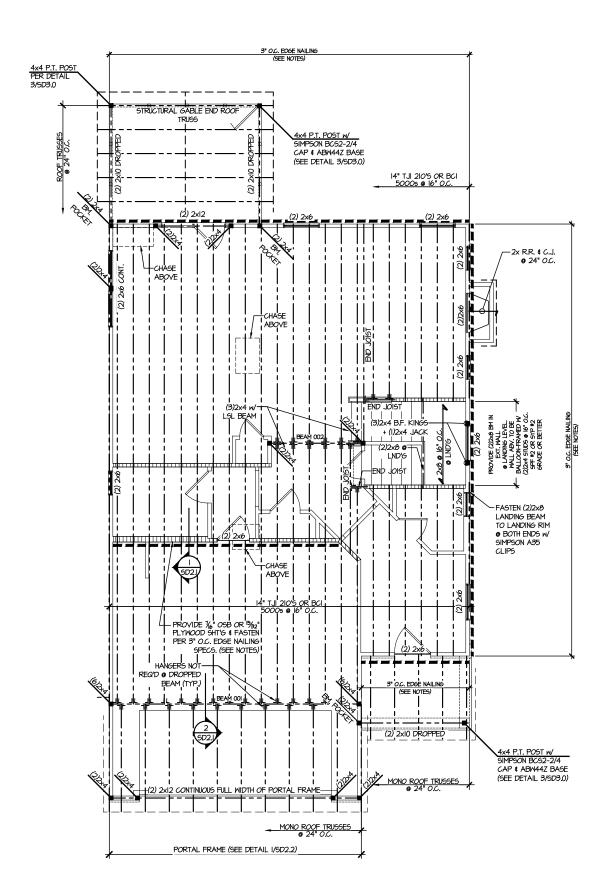
FARM AT NEIL'S CREEK LOT 71 - MALBEC 4.1
RALEIGH, NC **OUNDATION PLANS**

LEGEND

- IIIII INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- ullet = = 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

S1.0



REFER TO SCHEDULE. ENGINEERED BEAM MATERIAL SCHEDULE

2/29/24 H CAR SEPH T. R

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RESIDENTIAL STRUCTURAL ENGINEERING

Y M&K project number

126-22076

JTR drawn by: LAN issue date: 02-20-24

initial:

REVISIONS:

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

LEGEND

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

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(3)194"×18" - FT	5¼"xl8" - FT	N/A	(4)2xl2 + (3) ½"xll¼" STEEL FLITCH PLATES - FB	WI2x26 - F
002	(2)134"×14" - F	3½"xl4" - F	(3)13/4"×14" - F	(2)2x12 + (1) ¼"x1l¼" STEEL FLITCH PLATES - FB	WI2xI4 - F

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

- "H" INDICATES FLUSH BOTTOM BEAM
 "D" INDICATES DROPPED BEAM
 "H" INDICATES DROPPED OPENING HEADER
 REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
 REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS
 FOR FLUSH TO'P BEAM'S PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN
 PLATES IN SUCCESSION W (2) 3"X0.120" NAILS 6 8" O.C.
- FOR FLUSH BOTTOM BEAMS PROVIDE 2X STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W (2) 3"XO.120" NAILS @ 8" O.C.

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

S2.0

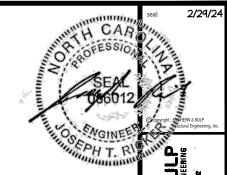
CREEK

NEIL'S

FARM AT NE LOT 71 - MALBEC 41
RALEIGH, NC

RAMING

OOR



MUCHERN+KULP

RESIDENTIAL STRUCTURAL ENSINEERING

STRUCTURAL ARTINITY THE PROPERTY OF THE PROP Y

M&K project number: 126-22076

JTR drawn by: LAN issue date: 02-20-24

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

LEGEND

• = = 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.

 INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE

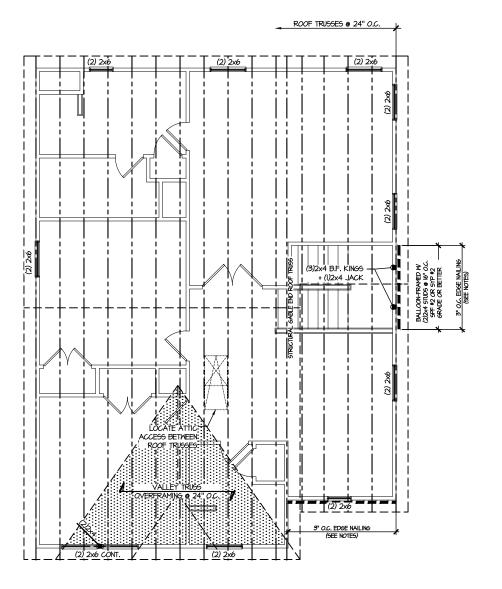
• --- BEAM / HEADER

JL METAL HANGER

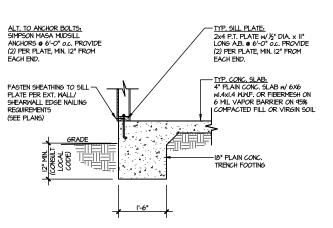
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FARM AT NEIL'S CREEK
LOT 71 - MALBEC 4.1
RALEIGH, NC ROOF

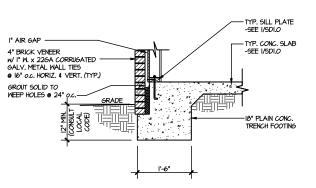
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ROOF FRAMING PLAN



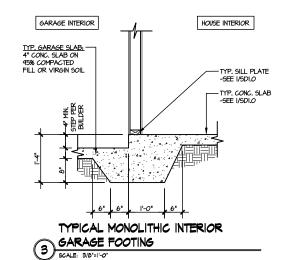
TYPICAL SLAB ON GRADE
PERIMETER FOOTING
SCALE: 9/8/31/-0*

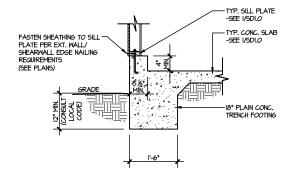


TYPICAL SLAB ON GRADE

PERIMETER FOOTING

SCALE: 3/6"=1"-0" W BRICK VENEER

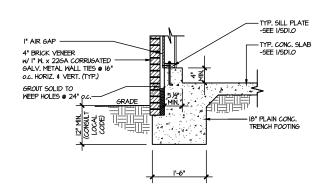




TYPICAL SLAB ON GRADE GARAGE

PERIMETER FOOTING

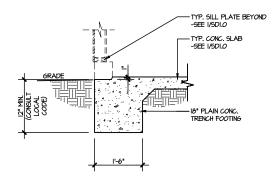
SCALE: 30%-1-0*



TYPICAL SLAB ON GRADE GARAGE

PERIMETER FOOTING

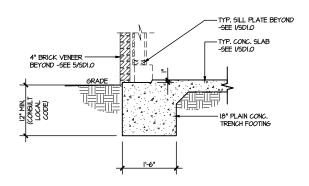
SCALE: 3/5'=1'-0' N/ BRICK VENEER



TYPICAL SLAB ON GRADE GARAGE

ENTRY @ PERIMETER FOOTING

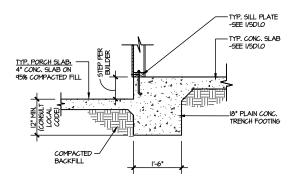
SCALE, 3/8":1"-0"



TYPICAL SLAB ON GRADE GARAGE

ENTRY @ PERIMETER FOOTING

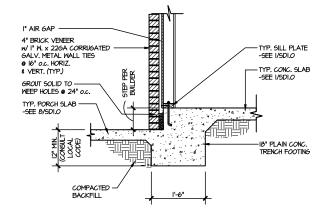
SCALE: 5/95*=1-0" // DRICK VENEER



TYPICAL SLAB ON GRADE PERIMETER

8 FOOTING @ PORCH/PATIO

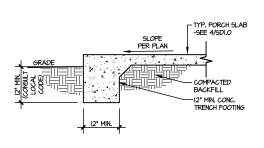
5CALE: 3/5*1*-0*



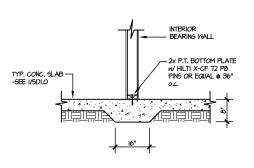
TYPICAL SLAB ON GRADE PERIMETER

POOTING PORCH/PATIO

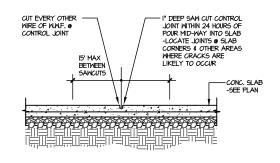
SCALE: 9/8'=1'-0' W BRICK VENER



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL SCALE: 9/8/511-0*



TYPICAL CONTROL JOINT

SCALE: 5/8*=1-0*

LOCATE 8 15-0* 04. MAX

OR CORRERS MERRE CRACKS
LIKELY TO DEVELOP

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

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

Noille Crook 1 of 71 Christian DATE: 2/20/2024 0.E1 AM

FOUNDATION E FARM AT NEIL' lot71 - malbec 4.1 raleigh, nc

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2/29/24

STRUCTURAL ENGINEER

M&K project number: 126-22076

drawn by:

REVISIONS:

JTR

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initial:

ssue date: 02-20-2

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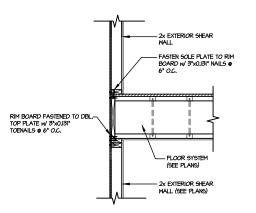
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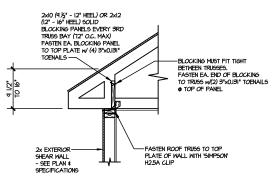
TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 3/8"=1"-0" HEEL HEIGHT LESS THAN HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D

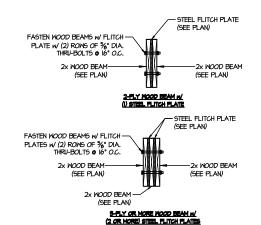


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 3/6"=1"-0"

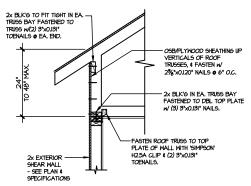


TYPICAL SHEAR

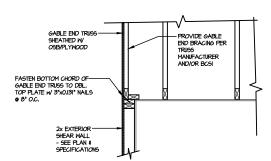
TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D



TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 344-1-67



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS



TYPICAL GABLE END DETAIL SCALE: 3/8"=1"-0"

MULHERN+KULP Y

NUMBERED DETAILS ARE PLAN

SPECIFIC AND ARE ONLY REQUIRED

WHERE SPECIFICALLY INDICATED

("CUT") ON THE PLANS.

-2x PLATE FASTENED TO TOP PACK OUT STEEL BEAM WEB W/SOLID 2x MATTERIAL & FASTEN W/ (2) ROMS OF %" DIA.
THRU-BOLTS @ 16" O.C. FLANGE OF STL. BM. w/ (2) ROWS OF HILTI XU-47P8 PINS @ 16" o.c. -2x PLATE FASTENED TO TOP FLANGE OF STL. BM. w/ (2) ROWS OF HILTI XU-47P8 PINS @ 16" O.C.

TYPICAL STEEL BEAM CONNECTION DETAIL SCALE SIAN-IN-OF

M&K project number

drawn by:

REVISIONS:

126-22076

issue date: 02-20-2

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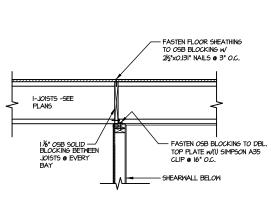
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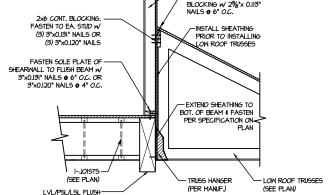
 \simeq \bigcup DETAILS NEIL'S

FARM AT NE LOT 71 - MALBEC 41 RALEIGH, NC

SD2.0

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





SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 3/6"=1"-0" PERPENDIK

2 EXTERIOR SHEARWALL ABOVE

-SHEARWALL ABOVE - Fasten Sheathing to BLOCKING w/ 23/6"x 0.113" NAILS @ 6" O.C. LVL/PSL/LSL FLUSH-TOP BEAM (SEE PLAN) SHEAR TRANSFER DETAIL @

FRAMING DETAILS

FARM AT NEIL'S CREEK LOT 71 - MALBEC 4.1 RALEIGH, NC

2/29/24

MULHERN+KULP

RESIDENTIAL SURFACE

SUBSECULATION OF A MAIN, PA SURFACE

PASS SECTION OF A MAIN, PA SURFACE

NO CLICENSE #C-3825

Y

M&K project number: 126-22076

JTR

LAN issue date: 02-20-24

initial:

project mgr:

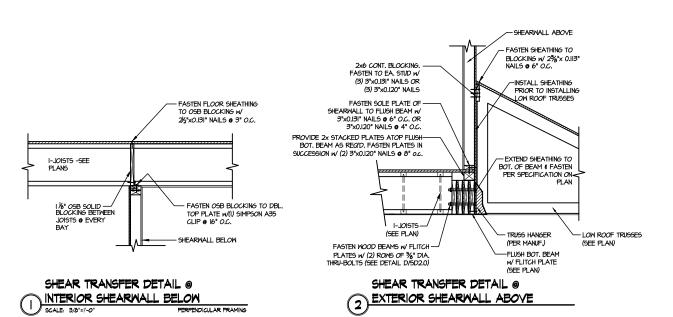
drawn by:

REVISIONS:

TH CAR

SEPH T. RI

SD2.1A



SEPH T. RI MULHERN+KULP

RESIDENTIAL SURFACE

SUBSECULATION OF A MAIN, PA SURFACE

PASS SECTION OF A MAIN, PA SURFACE

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TH CAR

M&K project number: 126-22076

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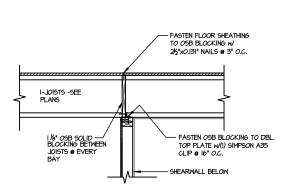
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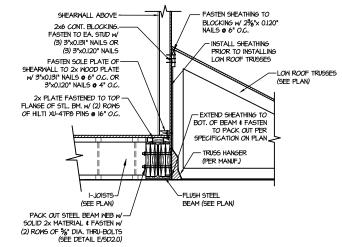
FARM AT NEIL'S CREEK LOT 71 - MALBEC 4.1 RALEIGH, NC FRAMING DETAILS

SD2.1B



SHEAR TRANSFER DETAIL @
INTERIOR SHEARWALL BELOW

SCALE: 3/8'=1'-0' FERFENDICULAR FRAMIN



SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

\$444-0

SEAL GARDINEER GROUPS INC.

MULHERN+KULP

TESIDENTIAL STRUCTURAL ENGINEERING
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M&K project number: 126-22076

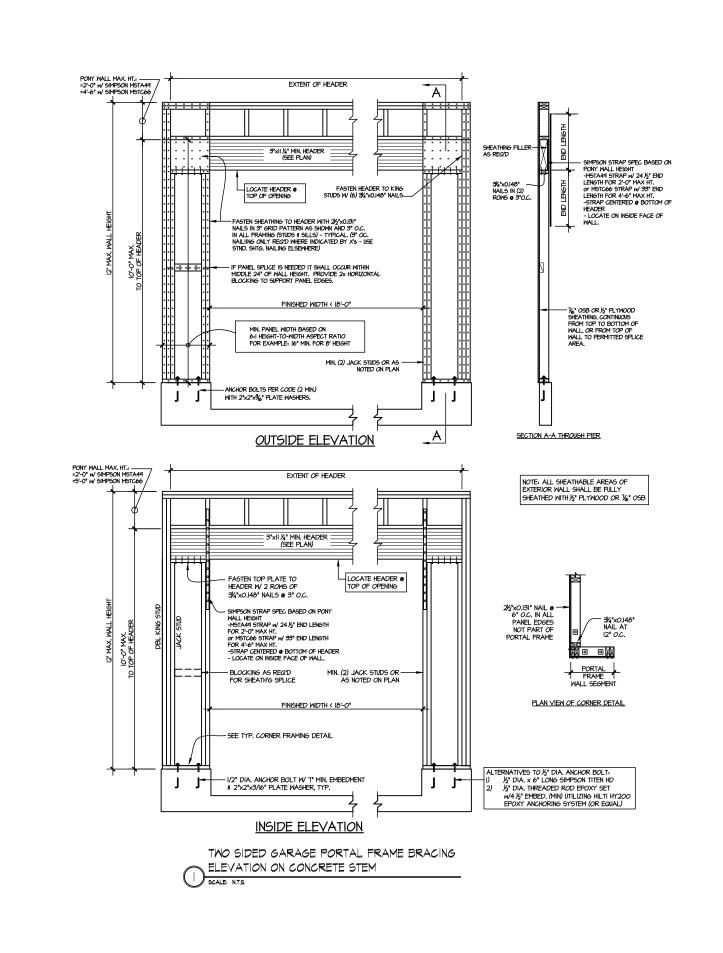
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FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 71 - MALBEC 4.1
RALEIGH, NC

SD2.1C



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MUCHERNA+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
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M&K project number: 126-22076

project mgr: JTR drawn by: LAN issue date: 02-20-24

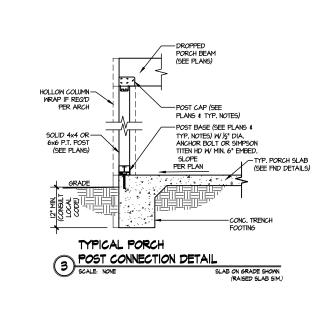
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FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 71 - MALBEC 4.1
RALEIGH, NC

sheet:



2/29/24 MULHERNHKULP
RESIDENTAL STRUCTRAL ENGINEERING
STRUCTURAL ENGINEERING
STRUCTURAL ENGINEERING
STRUCTURAL ENGINEERING

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M&K project number: 126-22076

project mgr: JTR drawn by: LAN issue date: 02-20-24

FARM AT NEIL'S CREEK
LOT 71 - MALBEC 4.1
RALEIGH, NC

SD3.0

Scale:

NTS

Date:
2/26/2024

Designer:
ND
Project Number:
24020110

Sheet Number:

DRB HOMES NC LLC

71 FARM AT NEILLS CREEK MALBEC 4.1

COMPONENT PLAN



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

00/00/00 Name 00/00/00 Name 00/00/00 Name 00/00/00 Name	Revi	Revisions
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48' 0"

TRIANGULAR SYMBOL NEAR END OF

TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS

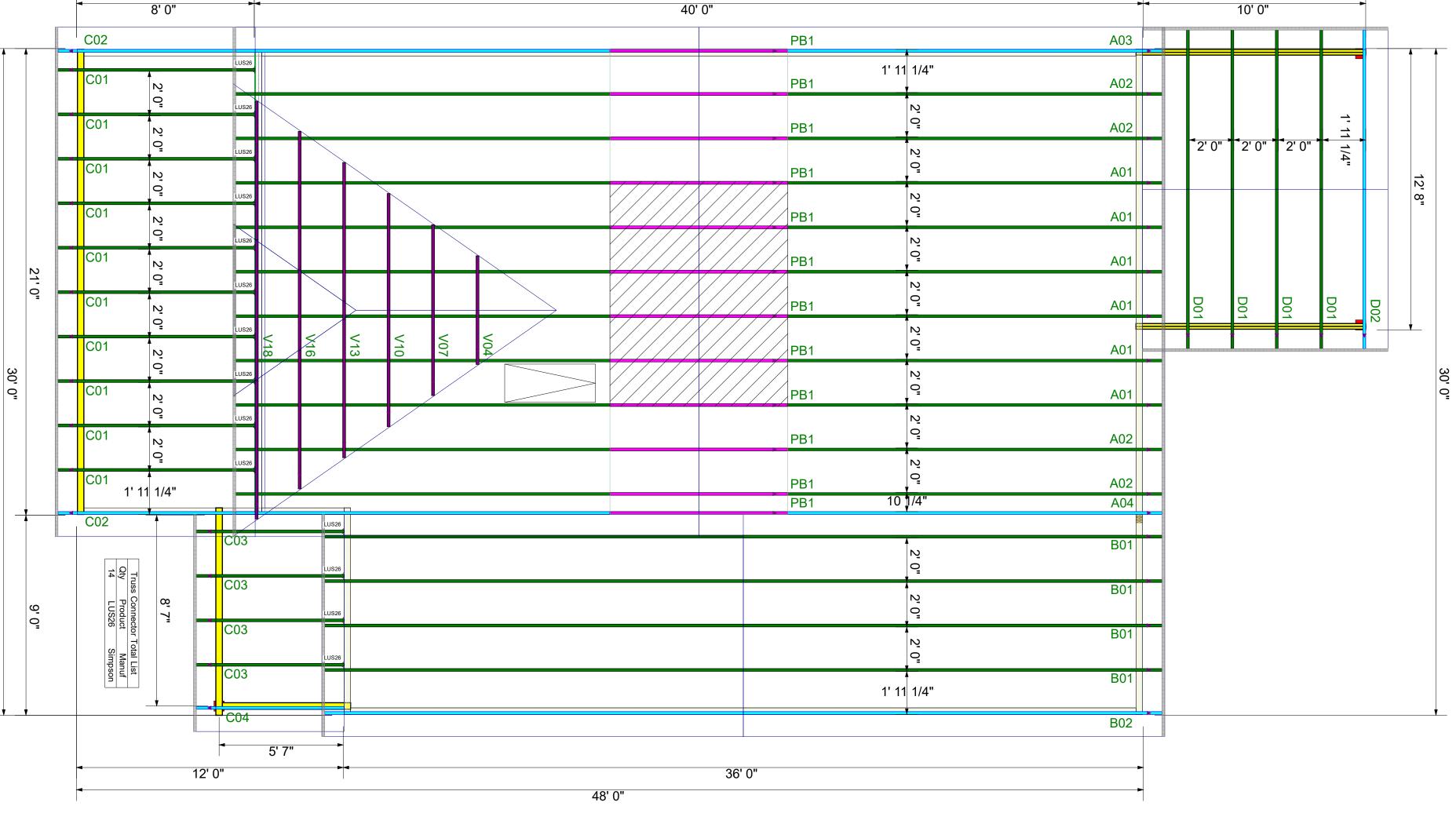
JMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS

** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

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

General Notes:



** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

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

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

2/26/2024

Designer:

ND Project Number: 24020110
Sheet Number: NTS

DRB HOMES NC LLC

71 FARM AT NEILLS CREEK MALBEC 4.1

COMPONENT **PLACEMENT PLAN**



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

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