TOWNSEND-RALE



<u>INDEX</u>

RALEIGH- LOT 00.0101 BLAKE POND

(MODEL# 3501) ELEVATION 4 - GR

103 HOMES

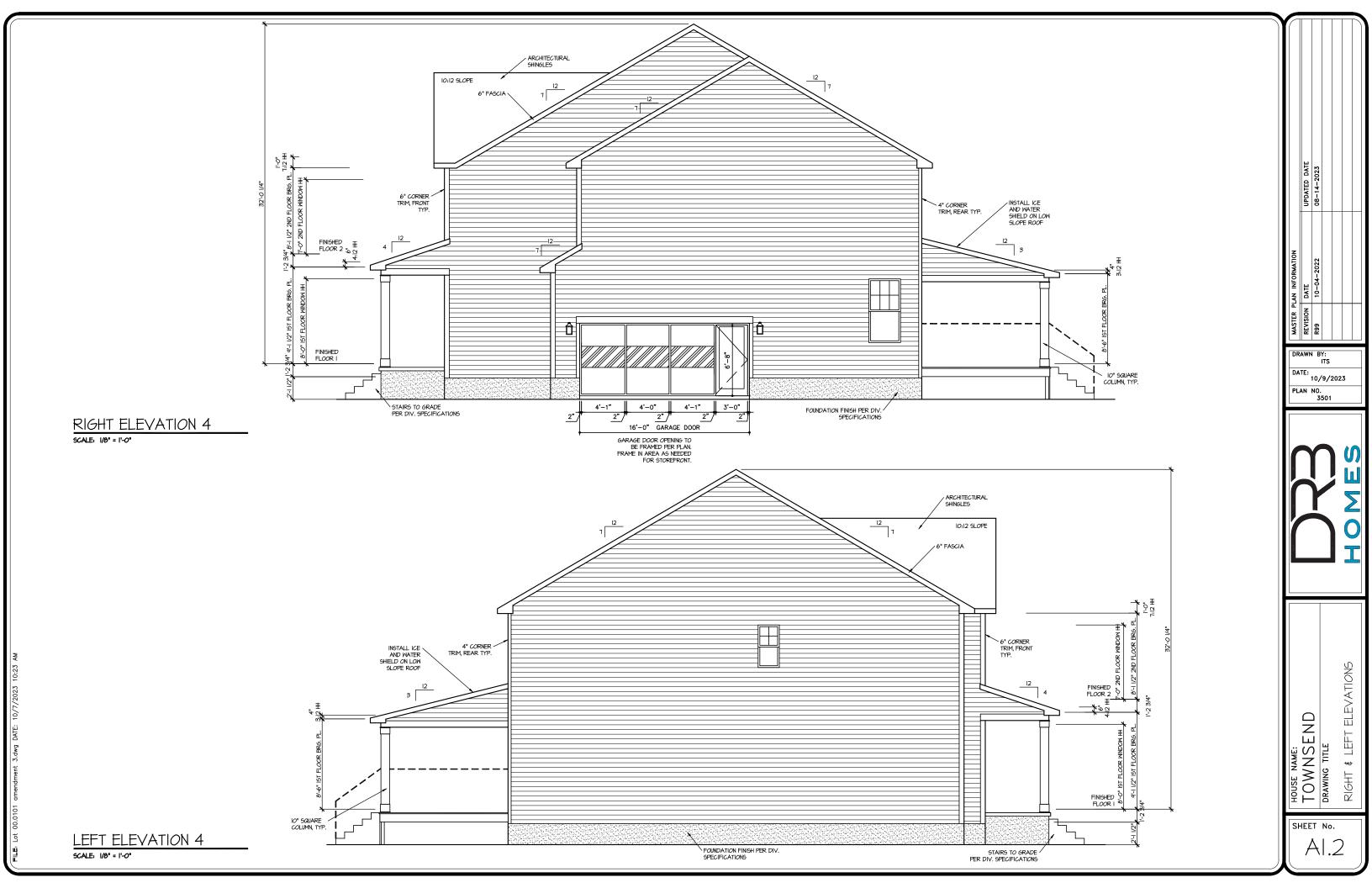
AREA CALCULATIONS ELEVATION 4 FIRST FLOOR GARAGE FRONT PORCH - ELEVATION 4		HEATED 1588 SF	COVERED / UNHEATED 439 SF 116 SF	UNCOVERED
SECOND FLOOR		1913 SF		
OPTIONS REAR PORCH			462 SF	
	TOTAL	3501 SF	1017 SF	

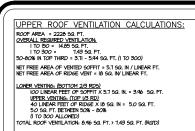
17 WHIMBREL COURT

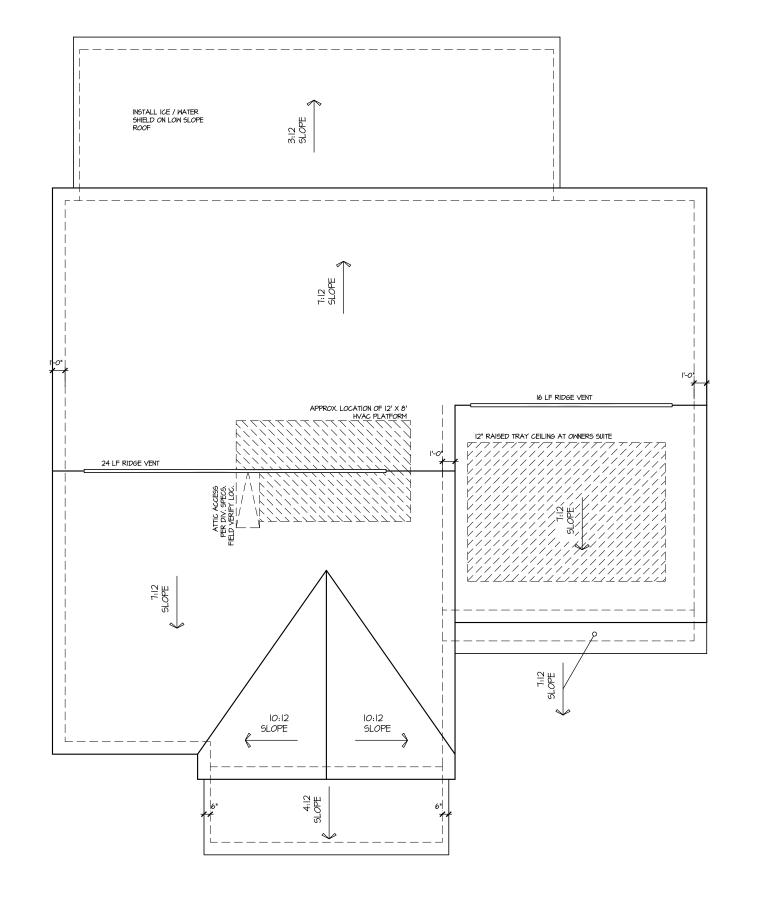
LOT	SPECIFIC	
1	LOT 00.0101	BLAKE POND
		TOWNSEND R99 ELEVATION 4
2	ADDRESS	17 WHIMBREL COURT LILLINGTON, NC 27546
	ABBINESS	17 MINIBREE GOOK! ELECTIONS, NO 27010
	 	
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FRONT & REAR ELEVATIONS

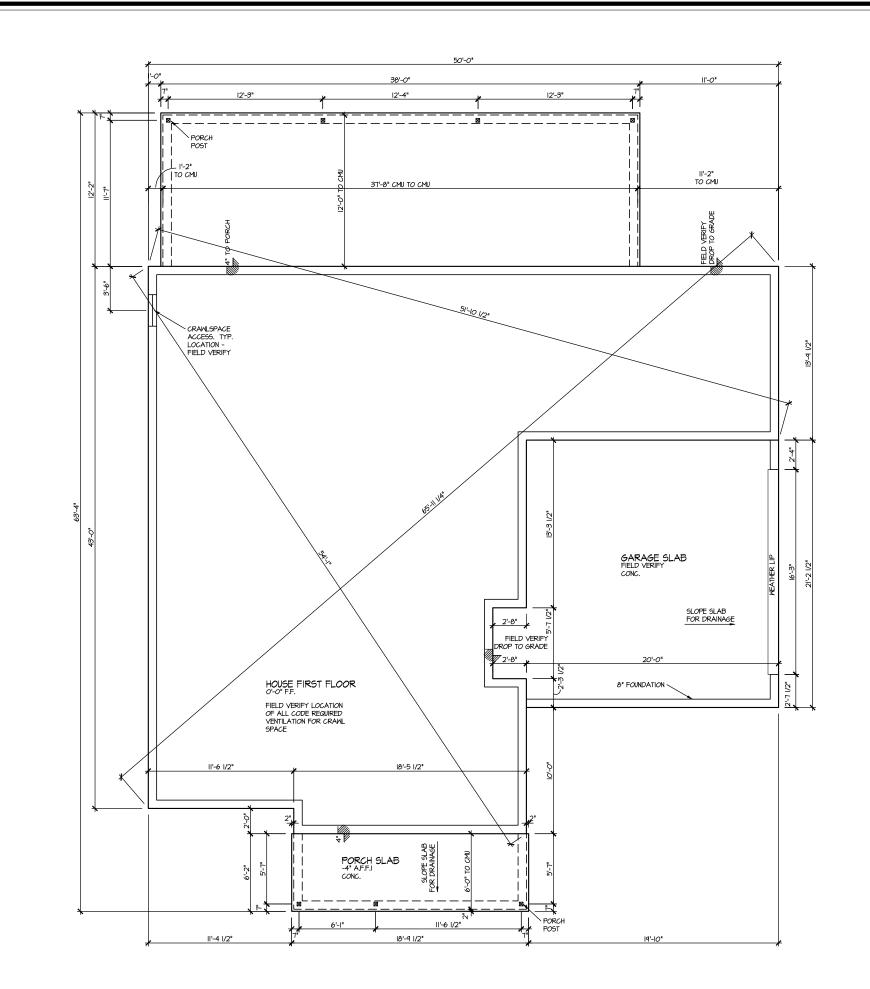






ROOF PLAN ELEV. 4
SCALE: 1/8" = 1'-0"

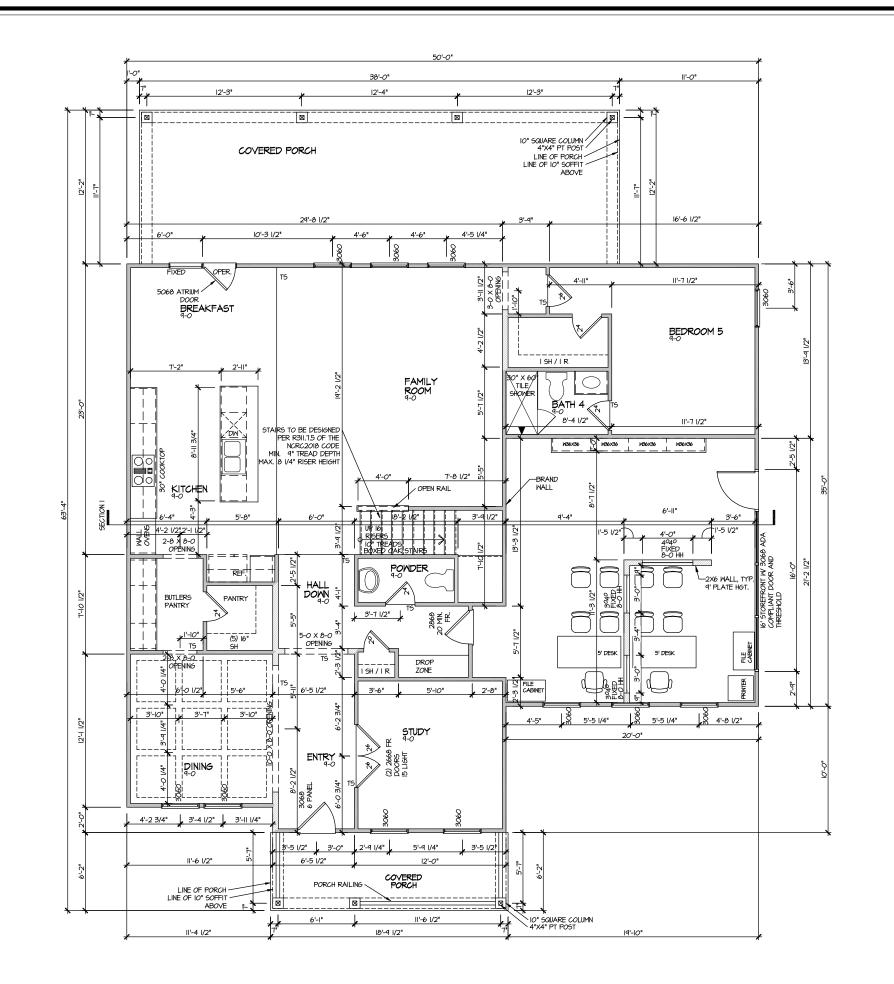
DRAWN BY: DATE: 10/9/2023 PLAN NO. 3501 HOUSE NAME:
TOWNSEND
DRAWING TITLE ROOF PLAN



ELEVATION 4 CRAWL SPACE PLAN SCALE: 1/8" = 1'-0" DRAWN BY:
ITS
DATE:
10/9/2023
PLAN NO.
3501

UPDATED DATE 08-14-2023

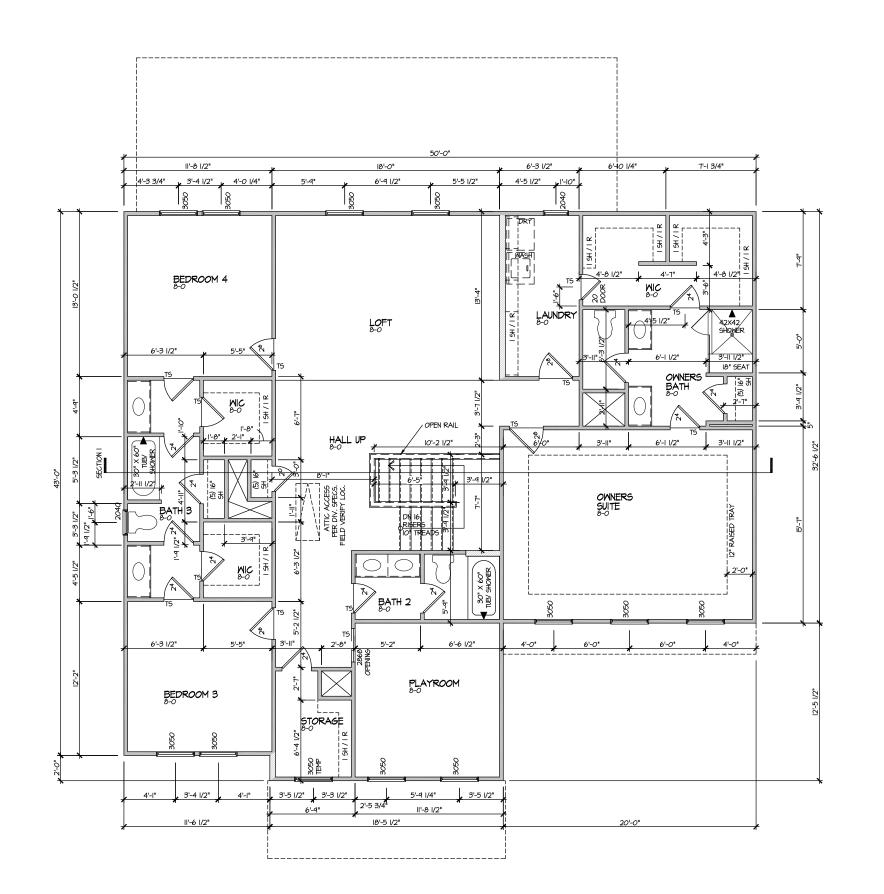
HOUSE NAME:
TOWNSEND
DRAWING TITLE
CRAML SPACE PLAN



ELEVATION 4 FIRST FLOOR PLAN SCALE: 1/0° = 1'-0°

MASTER PL REVISION R99 DRAWN BY: DATE: 10/9/2023 PLAN NO. 3501 FIRST FLOOR PLAN HOUSE NAME: TOWNSEND

E: Lot 00.0101 amendment 3.dwg DATE: 10/7/2023 10:



00.0101 amenament 3.awg DAIE: 10//

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

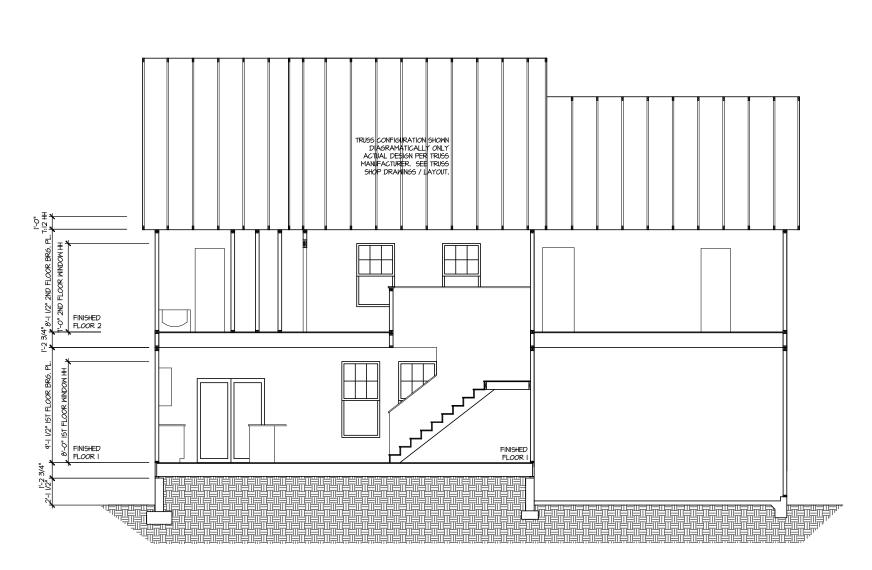
UPDATED DATE 08-14-2023

DRAWN BY: ITS DATE: 10/9/2023

PLAN NO. 3501

HOUSE NAME:
TOWNSEND
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No. A3.2



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

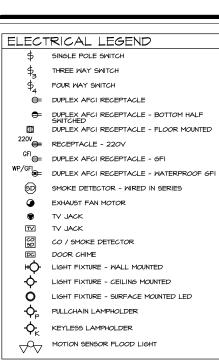
HOUSE NAME:
TOWNSEND
DRAWING TITLE BUILDING SECTION

OI

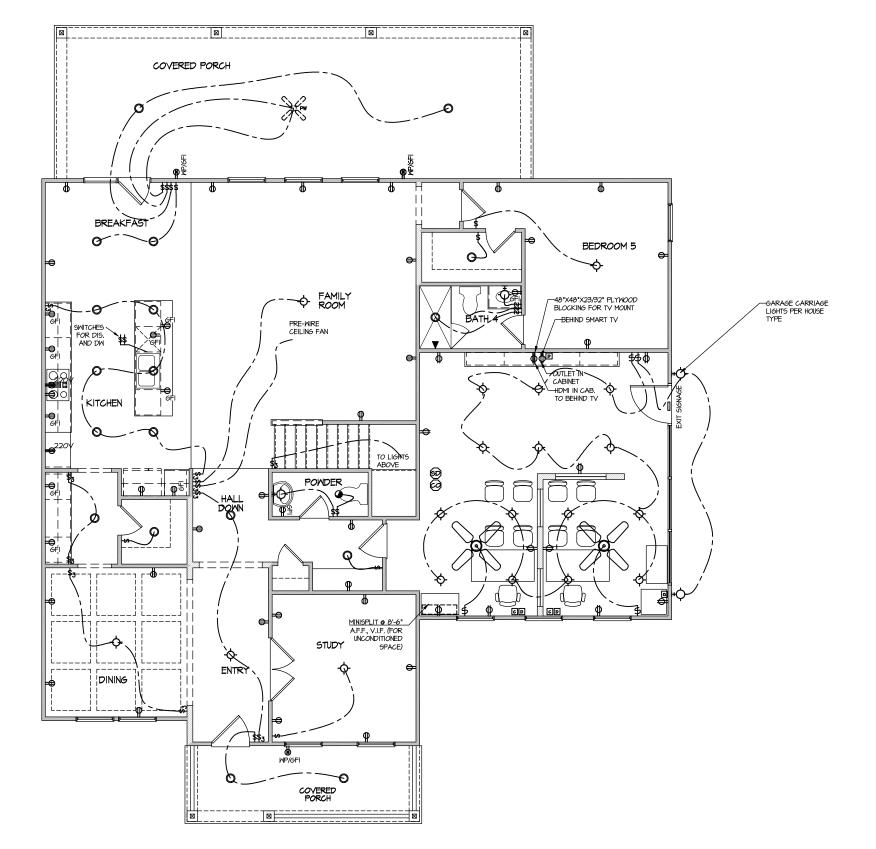
MASTER PLAN INFORMATION
REVISION DATE
R99 10-04-2022

DRAWN BY: DATE: 10/9/2023 PLAN NO. 3501

SHEET No. A4.I



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



ELECTRICAL PLAN FIRST FLOOR - ELEV. 4

SHEET No.

FLOOR ELECTRICAL

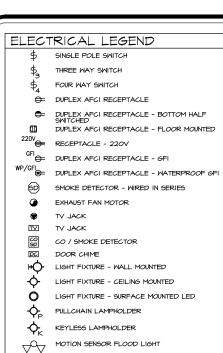
HOUSE NAME:
TOWNSEND
DRAWING TITLE

UPDATED DATE 08-14-2023

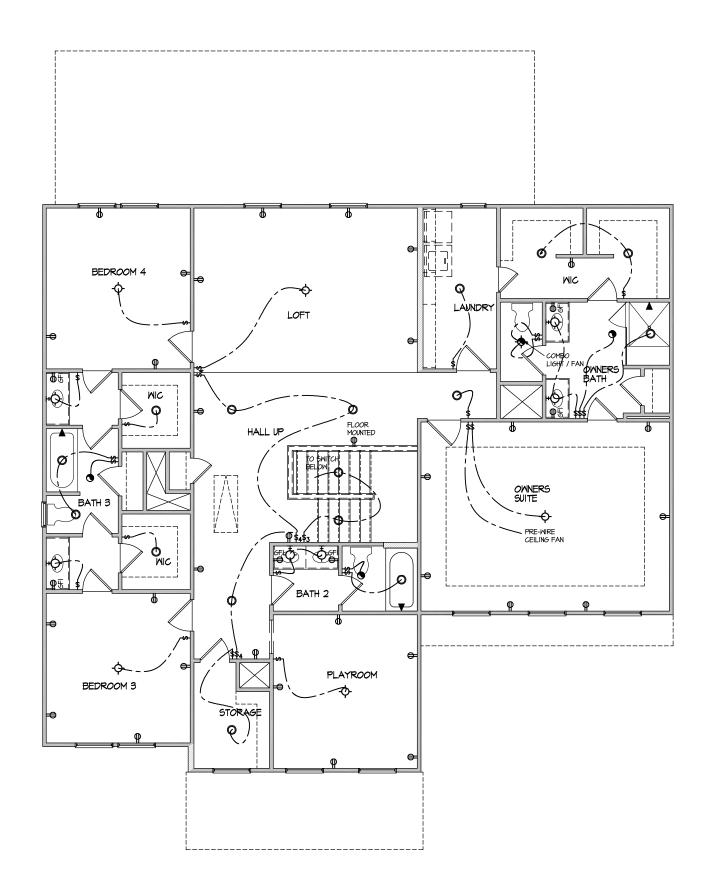
DRAWN BY:

DATE: 10/9/2023

PLAN NO. 3501



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



ELECTRICAL PLAN SECOND FLOOR - ELEV. 4 SCALE: 1/8" = 1'-0" OWNSEND

SECOND FLOOR ELECTRICAL

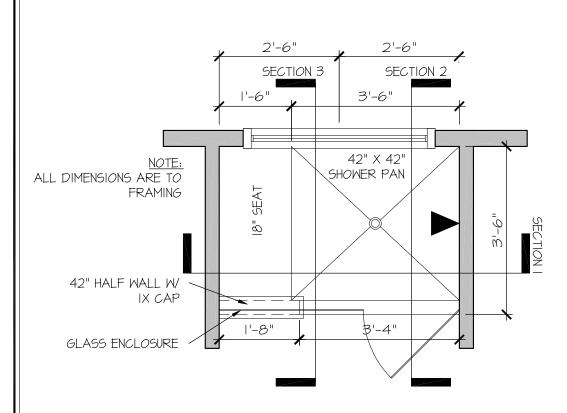
UPDATED DATE 08-14-2023

MAS REVI

DRAWN BY:

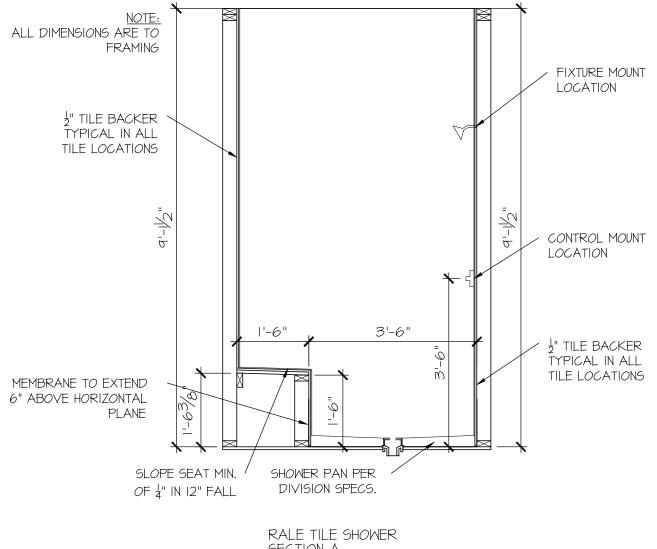
DATE: 10/9/2023

PLAN NO. 3501



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

~ "

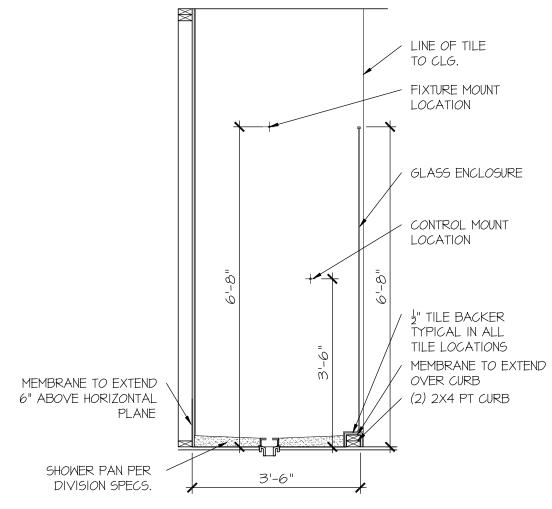


E ILE SHOWER DETAIL

OUSE NAME:

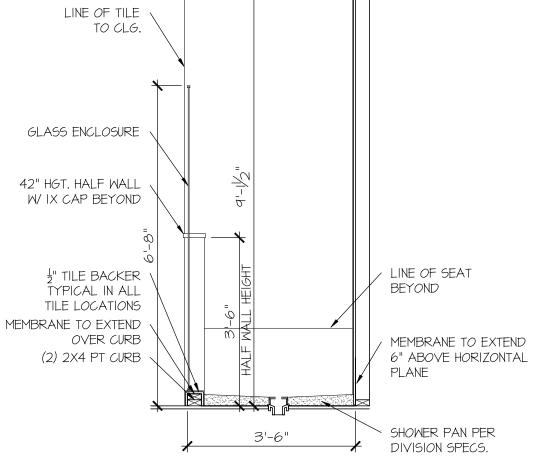
SHEET No.

P||.2



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





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

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 0 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 @ 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 & INTERSECTING WALLS	(2) NAILS	(2) NAILS

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

(ONLY ACCEPTABLE WHERE * ARE SHOWN)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF 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 FLEMEN 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.

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

TRUGGES/ LOIGTS 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 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)

GENERAL STRUCTURAL NOTES

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

DESIGN LOADS

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

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)

(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(I) FOR ALL CONNECTIONS, TYP, U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS, 0 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 SPRICE-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 WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX. UN.O.) • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (1)2x4/6 FLAT @ OPENINGS UP TO 4'. (2)2x4/6 FLAT UP TO 8' ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING "LSL" - Fb=2325 psi: Fv=3I0 psi: E=I,55xI0^6 psi
 - 'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 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 M+K 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"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/5" SIMPSON SDS SCREMS (OR 3½" TRUSSLOK SCREMS) @ 16" O/C. USE A MINIMUM OF 3 ROMS 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 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 ROMS OF $\frac{1}{4}$ "x6" SIMPSON SDS SCREWS (OR 6 $\frac{3}{4}$ " 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 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 I/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABM44Z BASE, U.N.O.

FLOOR FRAMING

- 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 I/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 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" x 0,113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.
- #6 x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN FACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES (3) H2 5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO
 - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS W/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 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/ $2\frac{3}{8}$ " x 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD. - W/ 2 3" x 0.113" NAILS @ 3"O.C. @ PANEL EDGES & @ 6" O.C. FIELD.

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

34 PPORT 2 5½° - 3½° VENEER № 40 pol MAXIMUM MEIGHT L HAVE 4° MIN. BEARING L NOT BE FASTENED BACK TO HEADER.

- I/O SHALL NOT BE PASTENDE PACK TO FEADER IN WALL #46°06. W/3° DIA. X 3'5'
 LONG LEE PASTENDE PACK TO DOD FEADER IN WALL #46°06. W/3° DIA. X 3'5'
 LONG LEE PASTENDE BE WINDERSCHALL ZUITED PACES.

 LONG LEE PASTENDE BE WINDERSCHALL ZUITED PACES.

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 STO ALLOW FOR YEARY JUNIT FRINGHING.

 STO ALLOW FOR YEARY JUNIT FRINGHING.
- R QUEEN YENEER USE L4x3%". OR 3½" YENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 3½" THICK.

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

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 20 MPH WIND IN 2018 NCSBC:RO

(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 ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST

THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I. 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 3/8"x0.II3" NAILS @ 6" O.C. AT EDGES & ● 12" O.C. IN THE PANEL FIELD. TYP, U.N.C.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1½" 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 34" 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

- 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 SHEARWAI OR 3" O.C. OSB SHEARWALL.

► INDICATES HOLDOWN BELOW

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, I2" MAX, FROM PLATE ENDS - UTIL I7ING
- I/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 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 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 BSMT, FND, 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.O LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
- THAN 5% OR MORE THAN 7% AIR ENTRAINMENT • ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY
- TO DEVELOP . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR
- 15'-0" O.C. (MAXIMUM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I.I RATIO) WITH A MAXIMUM OF I.15 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 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 VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES, METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN *
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
▶ HD-3	SIMPSON STHD14/14RJ 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 MANUF, RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

a: 10/11/23 CAR PROFESSION, O. MGINE SEPHT. R



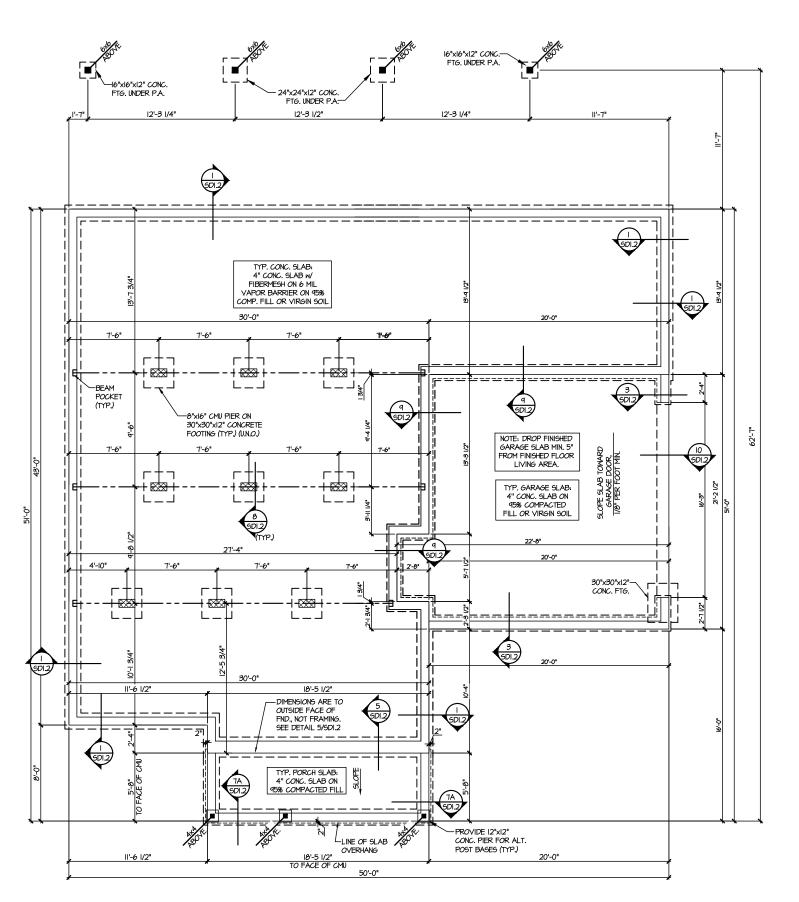
I&K project numbe 126-2306

oject mgr: **JTR** rawn by: BGI sue date: 08-25-2

REVISIONS initial:



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eal: 10/11/23 H CAR SENGINEE MEPH T. R

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M&K project number: 126-2306

JTR drawn by: BGL issue date: 08-25-2

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LEGEND

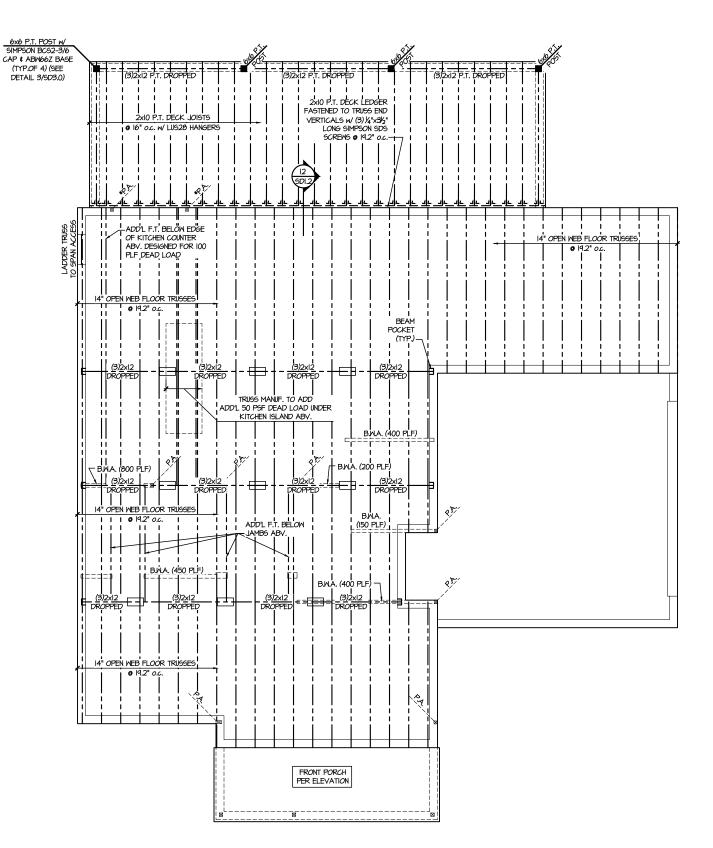
- IIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP.
 REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

BLAKE POND LOT 101 - TOWNSEND 4 RALEIGH, NC

OUNDATION



IST FLOOR FRAMING PLAN

ENGINEERED BEAM MATERIAL SCHEDULE BEAM NUMBER LVL OPTION FLITCH OPTION STEEL OPTION 2)2xI0 + (I) ¼"xII¼" STEEI FLITCH PLATE - H 001 (2)134"×914" - H 3½"x9¼" - н (2)134"×9½" - F N/A (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - F 002 (2)|%"x|4" - F 3%"xI4" - F (3)13/4"×14" - F WI2xI4 003 (3)2xl2 + (2) %"xll"," STEEL FLITCH PLATES -(3)13/4"x18" - FT 51/4"x18" - FT WI2x26 -(2)2xl2 + (I) I"xII¼" STEEL FLITCH PLATES - F 004 (2)134"x18" - FT 3½"xl8" - FT N/A (2)2xl0 + (1) 以"xl以" STEEL FLITCH PLATE - F 005 (2)13/4"x14" - F 3½"xl4" - F (2)13/4"x14" -N/A (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F 006 (2)|3/4"x|4" - F 3½"xl4" - F N/A N/A (3)2x12 + (2) ¼"x11¼" STEEL FLITCH PLATES - F 001 (3)13/4"×14" - F 5¼"xl4" - F (4)1¾"x14" -WI2xI4 - F (2)13/4"×14" - F 3½"xl4" - F (3)13/4"×14" - F 009 (2)|3/"v|4" - F 3½"xl4" - F N/A N/A WA (2)2xI0 + (I) ¼"xII¼" STEEL FLITCH PLATE - H 010 N/Α (2)13/4"x91/4" - H 31/2"x91/4" - H (2)134"×915" - H (2)2×10 + (1) ¼"xI¼" STEEL FLITCH PLATE - H NΑ (2)13/4"x9/4" - H 31/3"x91/4" - H (2)13/4"x91/5" - H 012 N/A NΑ N/A N/A 013 N/A N/A (3)134"x914" - H (2)134"×714" - H

BEAM NOTATION: - "F" INDICATES FLUSH BEAM - "FT" INDICATES FLUSH TOP BEAM - "FB" 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 TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN

PLATES IN SUCCESSION W (2) 3"X0.120" NAILS @ 8" O.C.

FOR FLUSH BOTTOM BEAMS PROVIDE 2X STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"X0.120" NAILS @ 8" O.C.

Walter Barre ENGINEE SEPH T. RI

al: 10/11/23 CAR

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RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

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SD2, REFERS TO SD2, IA FOR LVL/PSL/LSL BEAMS OR SD2.IB ANS FOR FLITCH BEAMS OR SD2.IC

LEGEND

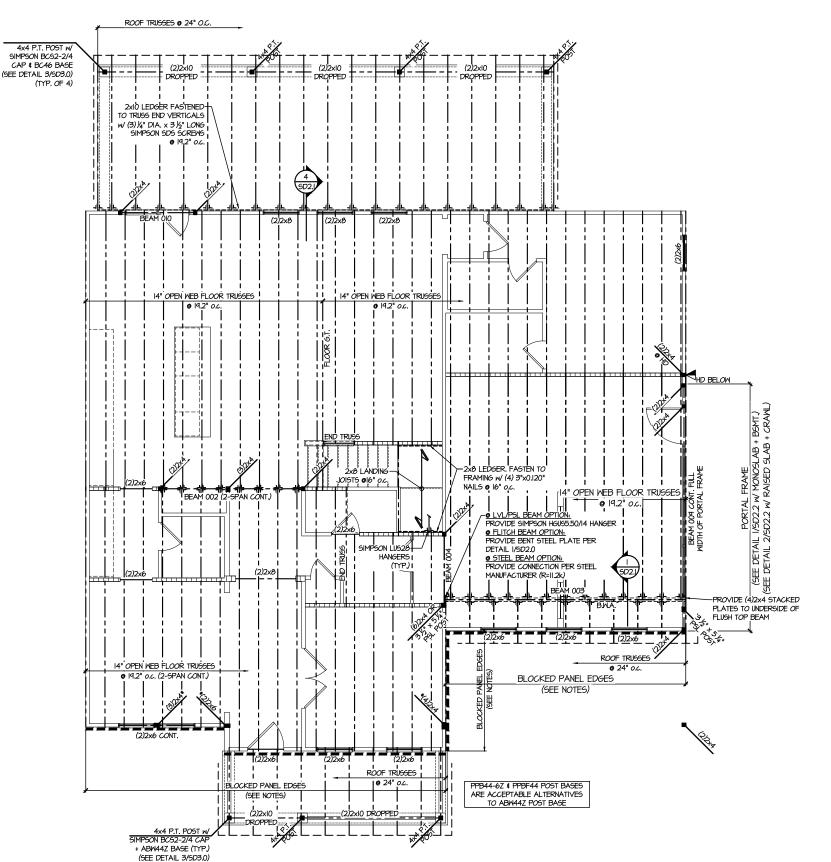
FOR STEEL BEAMS

- 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

AKE POND OR BLAKE LOT 101 - T RALEIGH, 1

TOWNSEND 4



2ND FLOOR FRAMING PLAN

ENGINEERED BEAM MATERIAL SCHEDULE BEAM LVL OPTION FLITCH OPTION STEEL OPTION 2)2xI0 + (I) ¼"xII¼" STEEI FLITCH PLATE - H 001 (2)134"×914" - H 3½"x9¼" - н (2)134"×9½" - F N/A (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - F 002 (2)|%"x|4" - F 3%"xI4" - F (3)|%"x|4" - F WI2xI4 003 (3)2xl2 + (2) 5/4"xll4" STEEL FLITCH PLATES -(3)13/4"x18" - FT 51/4"x18" - FT WI2x26 -(2)2xi2 + (i) i"xil¼" steel flitch plates - f 004 (2)134"x18" - FT 3½"xl8" - FT N/A (2)2xl0 + (1) 以"xl以" STEEL FLITCH PLATE - F 005 (2)13/4"x14" - F 3½"xl4" - F (2)13/4"×14" -N/A (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F 006 (2)|3/4"x|4" - F 3½"xl4" - F N/A N/A (3)2x12 + (2) ¼"x11¼" STEEL FLITCH PLATES - F 001 (3)13/4"×14" - F 5¼"xl4" - F (4)1¾"x14" -WI2xI4 - F (2)13/4"x14" - F 3½"xl4" - F (3)13/4"×14" - F 009 (2)|3/"v|4" - F 3½"xl4" - F N/A N/A WA (2)2xI0 + (I) ¼"xII¼" STEEL FLITCH PLATE - H 010 N/Α (2)13/4"×91/4" - H 31/2"x914" - H (2)13/4"×91/2" - H (2)2×10 + (1) ¼"xI¼" STEEL FLITCH PLATE - H (2)13/4"x9/4" - H 3 K"x4K" - H (2)13/4"x91/5" - H NΑ 012 NΑ N/A N/A 013 N/A N/Α (3)134"×914" - H (2)134"×714" - H

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

PLATES IN SUCCESSION W (2) 3"X0.120" NAILS @ 8" O.C.

FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" O.C.

William H SEPH T. RI

al: 10/11/23 CAR ENGINEE

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

JTR frawn by: BGL ssue date: 08-25-2

REVISIONS

initial: DPM

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TOWNSEND 4 POND

AKE

BLAKE LOT 101 - T RALEIGH, 1

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

LEGEND

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

FOR FLITCH BEAMS OR SD2.IC

FOR STEEL BEAMS

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

BEAM / HEADER

• = = INDICATES SHEAR WALL & EXTENT

JL METAL HANGER

S3.

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MESIDENTIAL STRUCTURAL ENGINEERI

M&K project number: 126-23061

JTR drawn by: BGL issue date: 08-25-23

REVISIONS:

initial:

BLAKE POND Lot 101 - Townsend 4 Raleigh, nc ROOF

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

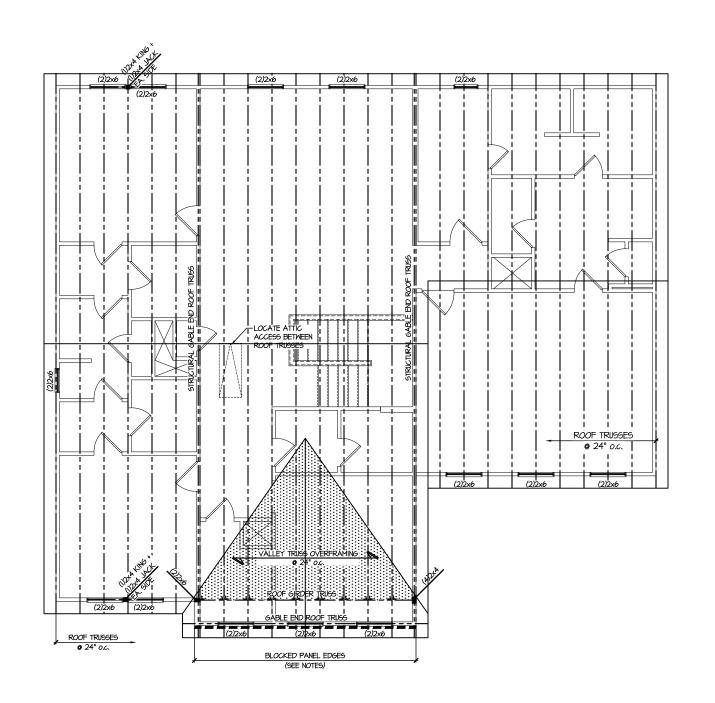
LEGEND

• == INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

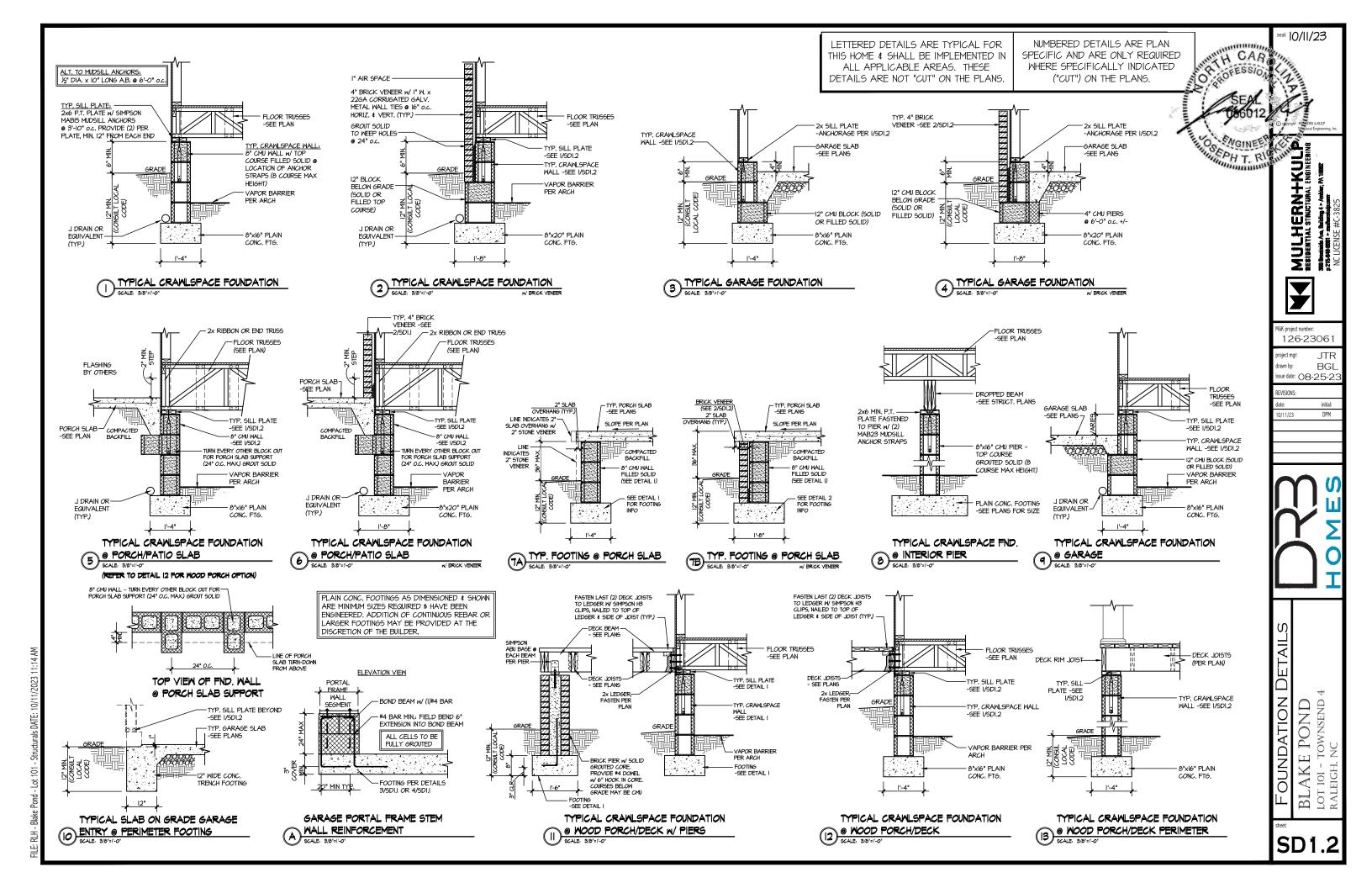
IIIIIIII INTERIOR BEARING WALL

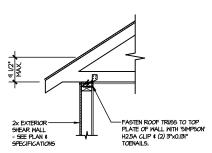
● □===□ BEARING WALL ABOVE BEAM / HEADER

JL METAL HANGER



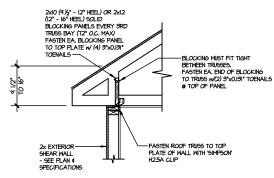






TYPICAL SHEAR

TRANSFER DETAIL @ ROOF HEEL HEIGHT LESS THAN 4½" NO BLOCKING REQ'D



TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

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



OSB/PLYWOOD SHEATHING UP VERTICALS OF ROOF TRUSSES, & FASTEN W

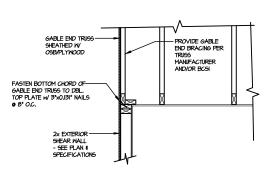
2%"x0.120" NAILS @ 6" O.C.

· 2x BLK'G IN EA. TRUSS BAY FASTENED TO DBL TOP PLATE w/ (3) 3"x0.131" NAILS.

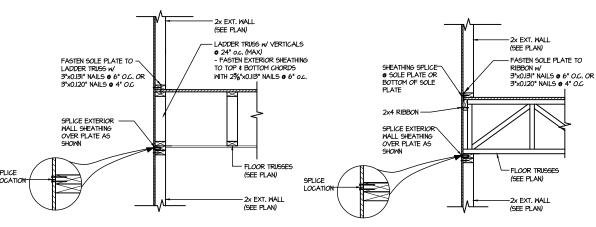
- FASTEN ROOF TRUSS TO TOP PLATE OF WALL WITH 'SIMPSON' H2.5A CLIP & (2) 3"X0.131" TOENAILS.

2x BLK'6 TO FIT TIGHT IN EA.

TRUSS BAY FASTENED TO TRUSS w/(2) 3"x0.131" TOENAILS @ EA. END.

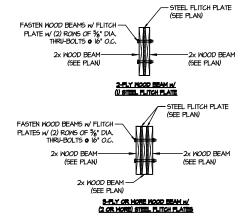


TYPICAL GABLE END DETAIL SOLLE: 3/8"=1"-0"

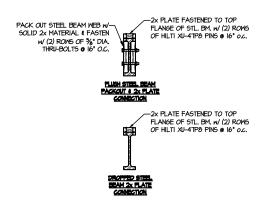


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

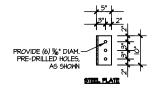


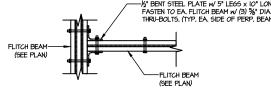


TYPICAL FLITCH BEAM CONNECTION DETAIL

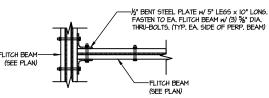


TYPICAL STEEL BEAM CONNECTION DETAIL
SCALE 9/4*-1"-0"





TYPICAL FLITCH BEAM TO FLITCH BEAM CONNECTION DETAIL



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

TOWNSEND ' AKE BL

POND

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al: 10/11/23

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

M&K project number:

roject mgr:

drawn by:

REVISIONS

126-2306

issue date: 08-25-2

JTR

BGL

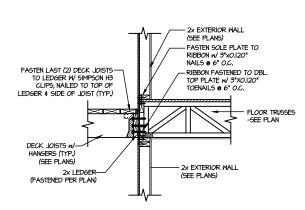
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TH CAR

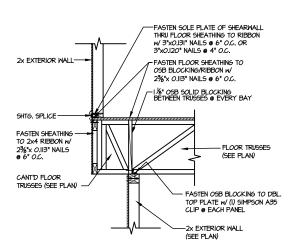
OSEPH T. RI



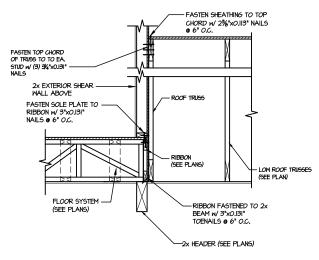


DECK LEDGER CONNECTION DETAIL

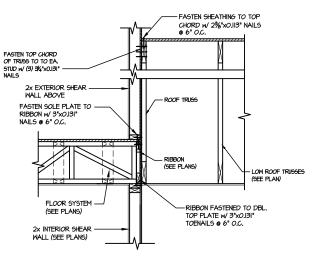
SCALE 944**-11-0*



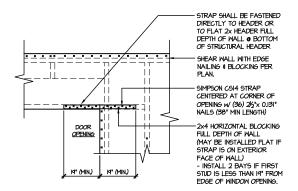
SHEAR TRANSFER DETAIL BETWEEN 2 FLOORS @ CANT'D EXT. WALL



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

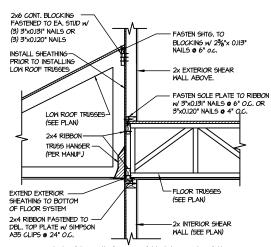


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

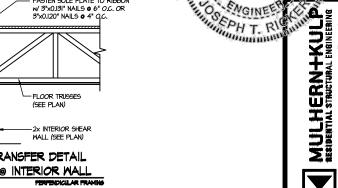


- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL
- WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED IS "FROM EDGE TO ALLOW FOR DOOR NAILING REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION SCALE NTS



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



126-2306 **JTR** roject mgr: frawn by: BGL ssue date: 08-25-2 REVISIONS initial: DPM

M&K project number:

al: 10/11/23

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PROFESSION.

OR.



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TOWNSEND ' POND AKE LOT 101 - 7 RALEIGH, 1 BL

SD2.1A

EXTERIOR SHEARWALL ABOVE

FASTEN LAST (2) DECK JOISTS— TO LEDGER W SIMPSON H3 CLIPS, NAILED TO TOP OF LEDGER & SIDE OF JOIST (TYP.)

DECK JOISTS W/-

HANGERS (TYP.)

(SEE PLANS)

2x LEDGER-(FASTENED PER PLAN)

- 2x EXTERIOR WALL

RIBBON w/ 3"x0.120"

NAII 5 @ 6" OC

2x EXTERIOR WALL

(SEE PLANS)

DECK LEDGER CONNECTION DETAIL

SCALE 9/4*-11*-0*

FASTEN SOLE PLATE TO

-RIBBON FASTENED TO DBL.

FLOOR TRUSSES

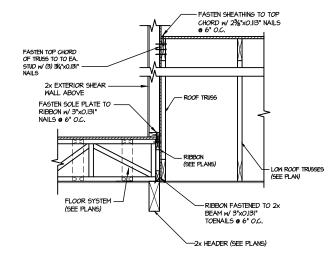
-SEE PLAN

TOP PLATE w/ 3"XO.120" TOENAILS @ 6" O.C.

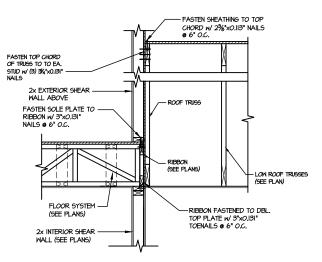
(SEE PLANS)

-FASTEN SOLE PLATE OF SHEARWALL THRU FLOOR SHEATHING TO RIBBON w/ 3"x0.131" NAILS @ 6" O.C. OR 3"x0.120" NAILS @ 4" O.C. 2x EXTERIOR WALL-FASTEN FLOOR SHEATHING TO OSB BLOCKING/RIBBON w/ 23/8"× 0.113" NAILS @ 6" O.C. -1 1/8" OSB SOLID BLOCKING BETWEEN TRUSSES @ EVERY BAY SHTG. SPLICE FASTEN SHEATHING TO 2x4 RIBBON W 2%"x O.II3" NAILS 6 6" O.C. - FLOOR TRUSSES (SEE PLAN) CANT'D FLOOR TRUSSES (SEE PLAN) - FASTEN OSB BLOCKING TO DBI TOP PLATE w/ (I) SIMPSON A35 CLIP @ EACH PANEL -2x EXTERIOR WALL (SEE PLAN)

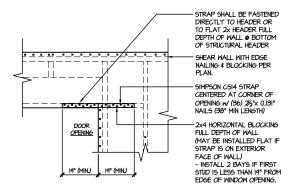
SHEAR TRANSFER DETAIL BETWEEN (2) FLOORS @ CANT'D EXT. WALL



TYPICAL SHEAR TRANSFER DETAIL 6 BETWEEN FLOORS @ INTERIOR WALL

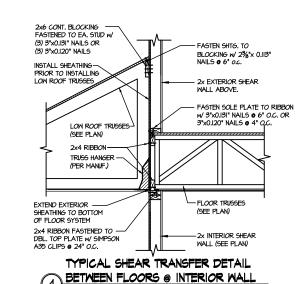


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE NETALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION



M&K project number: 126-2306

MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI

JTR roject mgr: frawn by: BGL ssue date: 08-25-2

al: 10/11/23

TH CAR PROFESSION.

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SEPH T. R

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REVISIONS initial: DPM

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TOWNSEND ' POND AKE LOT 101 - 7 RALEIGH, 1 BL

SD2.1B

- 2× EXTERIOR WALL

RIBBON w/ 3"x0.120" NAILS @ 6" O.C.

2x EXTERIOR WALL

DECK LEDGER CONNECTION DETAIL

SCALE 944-1-0*

(SEE PLANS)

FASTEN LAST (2) DECK JOISTS-

DECK JOISTS W/

(SEE PLANS)

2x LEDGER-(FASTENED PER PLAN)

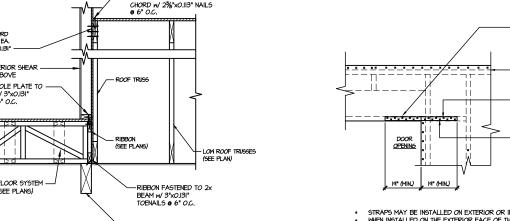
TO LEDGER W SIMPSON HS CLIPS, NAILED TO TOP OF LEDGER & SIDE OF JOIST (TYP.)

FASTEN FLOOR SHEATHING TO OSB BLOCKING/RIBBON W/ 23/8"x O.113" NAILS @ 6" O.C. - 1 %" OSB SOLID BLOCKING BETWEEN TRUSSES @ EVERY BAY SHTG. SPLICE-FASTEN SHEATHING TO 2x4 RIBBON W/ 23/8"x O.II3" NAIL5 6 6" O.C. - FLOOR TRUSSES CANT'D FLOOR TRUSSES (SEE PLAN) FASTEN OSB BLOCKING TO DBL. TOP PLATE w/ (I) SIMPSON A35 CLIP @ EACH PANEL -2x exterior Wall

TYPICAL SHEAR TRANSFER DETAIL 3 BETWEEN FLOORS @ INTERIOR WALL

- ROOF TRUSS

(SEE PLANS)



FASTEN TOP CHORD OF TRUSS TO TO EA.

STUD w/ (3) 31/4"x0.131" NAILS

2x EXTERIOR SHEAR WALL ABOVE

FASTEN SOLE PLATE TO

(SEE PLANS)

2x INTERIOR SHEAR WALL (SEE PLANS)

> STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE MALL, STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING

DIRECTLY TO HEADER OR TO FLAT 2x HEADER FULL

SHEAR WALL WITH EDGE

NAILING & BLOCKING PER

- SIMPSON CS14 STRAP CENTERED AT CORNER OF OPENING W/ (36) 2½"x 0.131" NAILS (36" MIN LENGTH)

2x4 HORIZONTAL BLOCKING FULL DEPTH OF WALL

(MAY BE INSTALLED FLAT IF

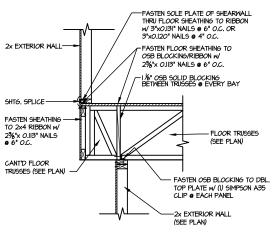
STRAP IS ON EXTERIOR

FACE OF WALL)

- INSTALL 2 BAYS IF FIRST
STUD IS LESS THAN 19" FROM
EDGE OF WINDOW OPENING.

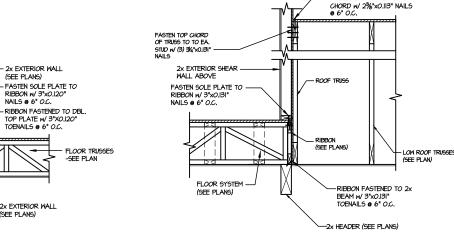
. REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION
SCALE NTS

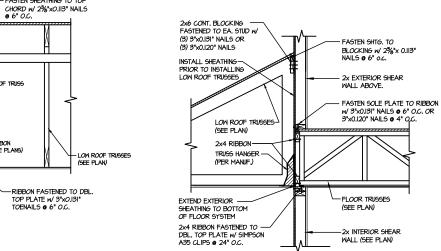


SHEAR TRANSFER DETAIL BETWEEN 2 FLOORS @ CANT'D EXT. WALL

FASTEN SHEATHING TO TOP



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



al: 10/11/23

MULHERN+KULP HESIDENTIAL STRUCTURAL ENGINEERING

M&K project number: 126-2306

ssue date: 08-25-2

frawn by:

REVISIONS

JTR

BGL

initial:

DPM

TH CAR

P ROFESSION

ENGINEE

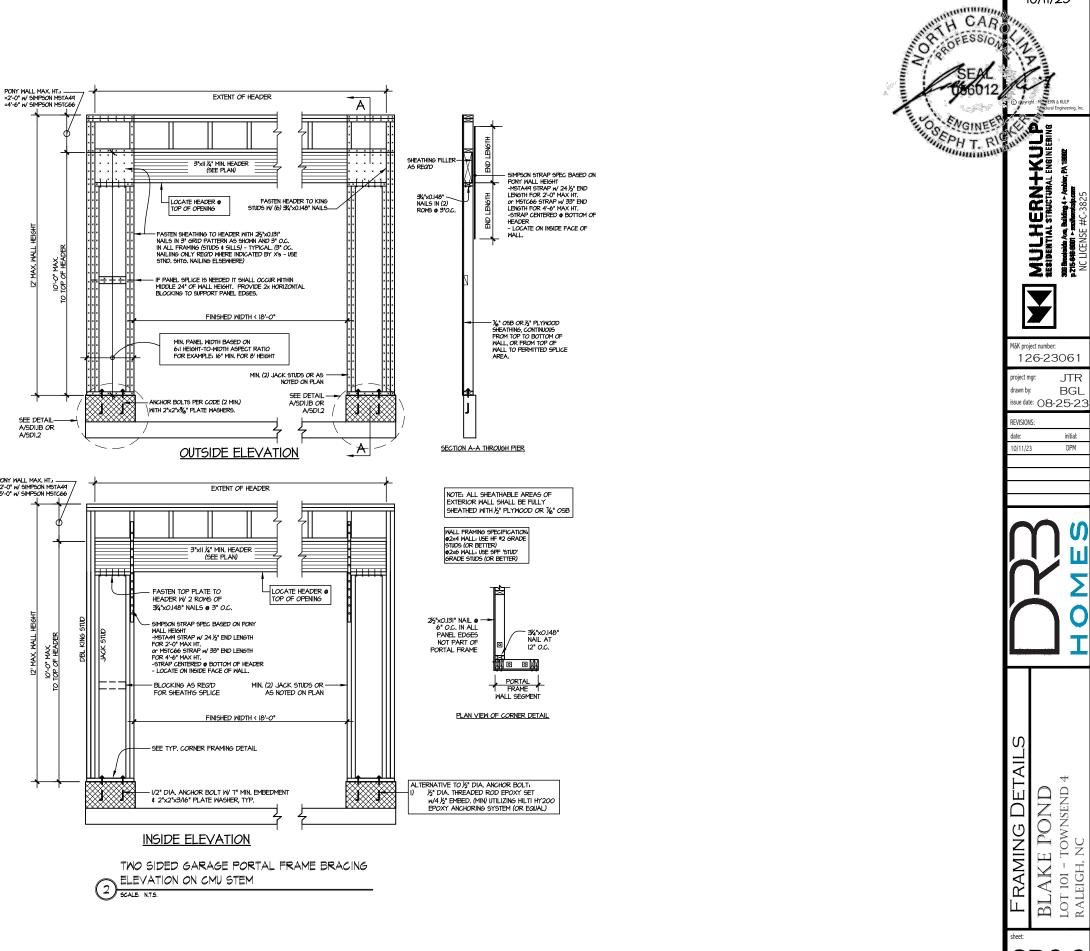
OSEPH T. RI

OR

TOWNSEND ' POND BLAKE I LOT 101 - TC RALEIGH, NO

SD2.1C

Ŋ



SD2.2

a: 10/11/23

JTR

BGL

initial:

DPM

MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING

M&K project number:

126-2306

JTR drawn by: BGL issue date: 08-25-23

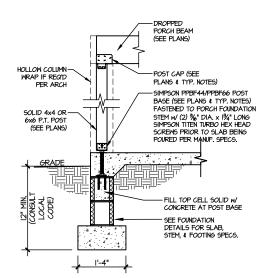
REVISIONS: initial: DPM



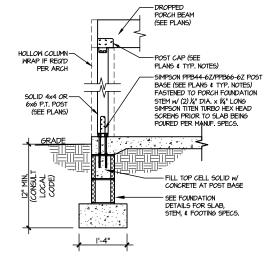
FRAMING DETAILS BLAKE POND Lot 101 - Townsend 4 Raleigh, nc

SD3.0

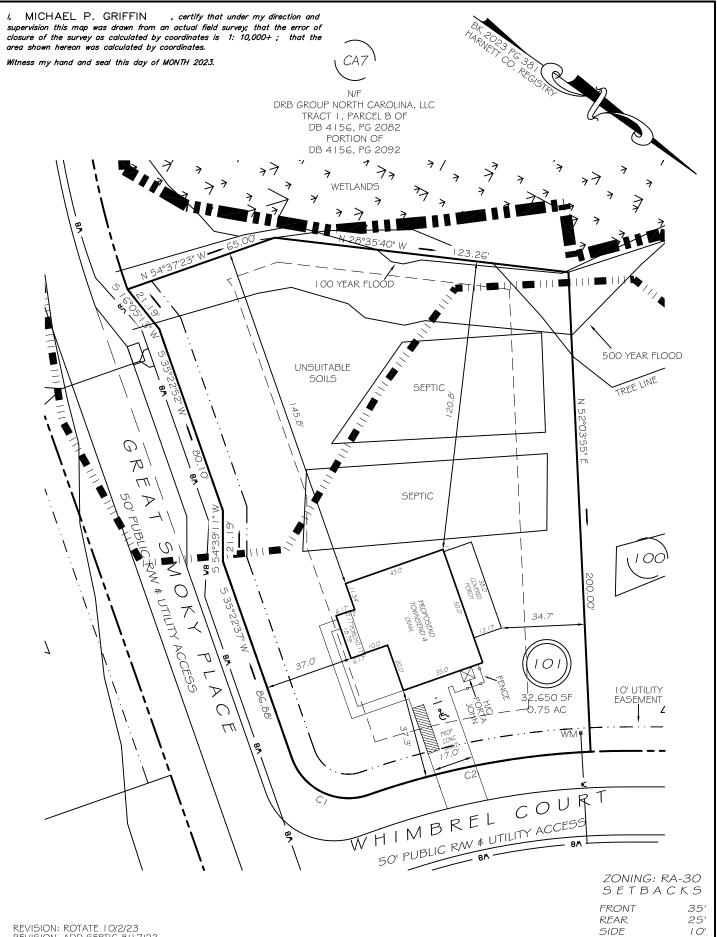
-DROPPED PORCH BEAM (SEE PLANS) HOLLOW COLUMN— WRAP IF REQ'D PER ARCH -POST CAP (SEE PLANS & TYP. NOTES) -POST BASE (SEE PLANS & SOLID 4x4 OR-6x6 P.T. POST (SEE PLANS) TYP. NOTES) W 为 DIA. ANCHOR BOLT OR SIMPSON TITEN HD W MIN. 6" EMBED. GRADE 12" MIN. (CONSULT LOCAL CODE) SEE FOUNDATION DETAILS FOR SLAB, STEM, & FOOTING SPECS. 1'-4" TYPICAL PORCH POST CONNECTION 3 DETAIL INSTALLED AFTER SLAB POUR SCALE, NONE CRANLSPACE FOUNDATION



TYPICAL PORCH POST CONNECTION DETAIL INSTALLED PRIOR TO SLAB POUR
SCALE: NONE CRAVESPACE FOUNDATION



TYPICAL PORCH POST CONNECTION B DETAIL INSTALLED PRIOR TO SLAB POUR SCALE: NONE CRANLSPACE FOINDATION



REVISION: ROTATE 10/2/23 REVISION: ADD SEPTIC 8/17/23 REVISION: MODEL 8/17/23

C| R=25.00' L=39.27' N09°37'23"W 35.36' C2 R=325.00' L=94.66' N46° | 6'44"W 94.33'

RELIMINAR

NOT FOR RECORDATION,

SALES OR CONVEYANCE

LEGEND

EIP EXISTING IRON PIPE IRON PIPE SET RIGHT OF WAY IPS R/W NOW OR FORMERLY EXISTING IRON STAKE

FLARED END SECTION FES WM CO WATER METER CLEAN OUT FIRE HYDRANT CATCH BASIN





LAND SURVEYING, INC.

P. O. B O X 1 4 8 F U Q U A Y - V A R I N A , N C 27526 (9 1 9) - 5 6 7 - 1 9 6 3

DRAWN BY KDF	DATE 8/17/23
CHECKED <u>BY</u> MPG	SCAL <u>E</u> 1" = 40'

PLOT PLAN

BLAKE POND SUBDIVISION

LOT 101

WHIMBREL COURT

LILLINGTON, N.C.

HARNETT COUNTY NEILL'S CREEK & GROVE TOWNSHIP