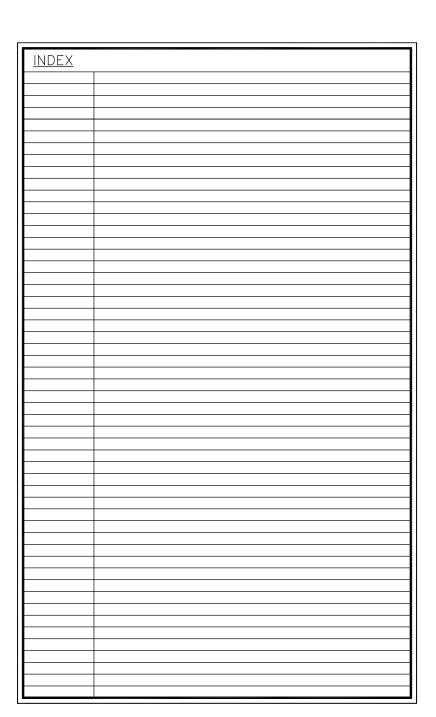
BURTON-RALE

RALEIGH- LOT 00.0131 BLAKE POND SF

(MODEL# 2491) ELEVATION 4 - GR





-				
li	ADEA CALCULATIONS			
П	AREA CALCULATIONS		COVERED /	
П	ELEVATION 4	HEATED	UNHEATED	UNCOVERED
П	FIRST FLOOR	1079 SF		
П	GARAGE		414 SF	
П	FRONT PORCH - ELEVATION 4		104 SF	
П				
П	SECOND FLOOR	1412 SF		
П				
Ш	OPTIONS			
Ш	1ST FLOOR			
Ш	REAR PORCH		462 SF	
	3RD CAR GARAGE		264 SF	
Ш				
Ш	2ND FLOOR			
Ш	FRONT PORCH SECOND FLOOR - ELEV. 4		104 SF	
Ш				
П				
Ш	TOTAL	2491 SF	1348 SF	
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63 Great Smoky Place

LOT SPECIFIC BURTON SF BURTON R2 ELEVATION 4			
1 LOT 00.0131 BLAKE POND SF BURTON R2 ELEVATION 4	LOT	CDECIEIC	
1 LOT 00.0131 BLAKE POND SF BURTON R2 ELEVATION 4	LUI	SPECIFIC	
BURTON R2 ELEVATION 4			
BURLION KZ ELEVATION 4 2 ADDRESS 63 GREAT SMOKY P1 LILLINGTON, NC 27546		201 00.0131	DUDTON DO SISTATION 4
ADDRESS 63 GREAT SMOKY P1 LILLINGTON, NC 27546			BURTUN KZ ELEVATIUN 4
	2	ADDRESS	63 GREAT SMOKY P1 LILLINGTON, NC 27546
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STAIRS TO GRADE
PER DIV. SPECIFICATIONS

FOUNDATION FINISH PER DIV. OPT. RAILINGS SPECIFICATIONSID. AS REQ'D BY CODE

4" CORNER / TRIM, TYP.

FINISHED FLOOR I

APPROX. FINISH GRADE

FRONT ELEVATION 4 SCALE: 1/8" = 1'-0"

REAR ELEVATION 4

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

FINISHED P

SHEET No. A.

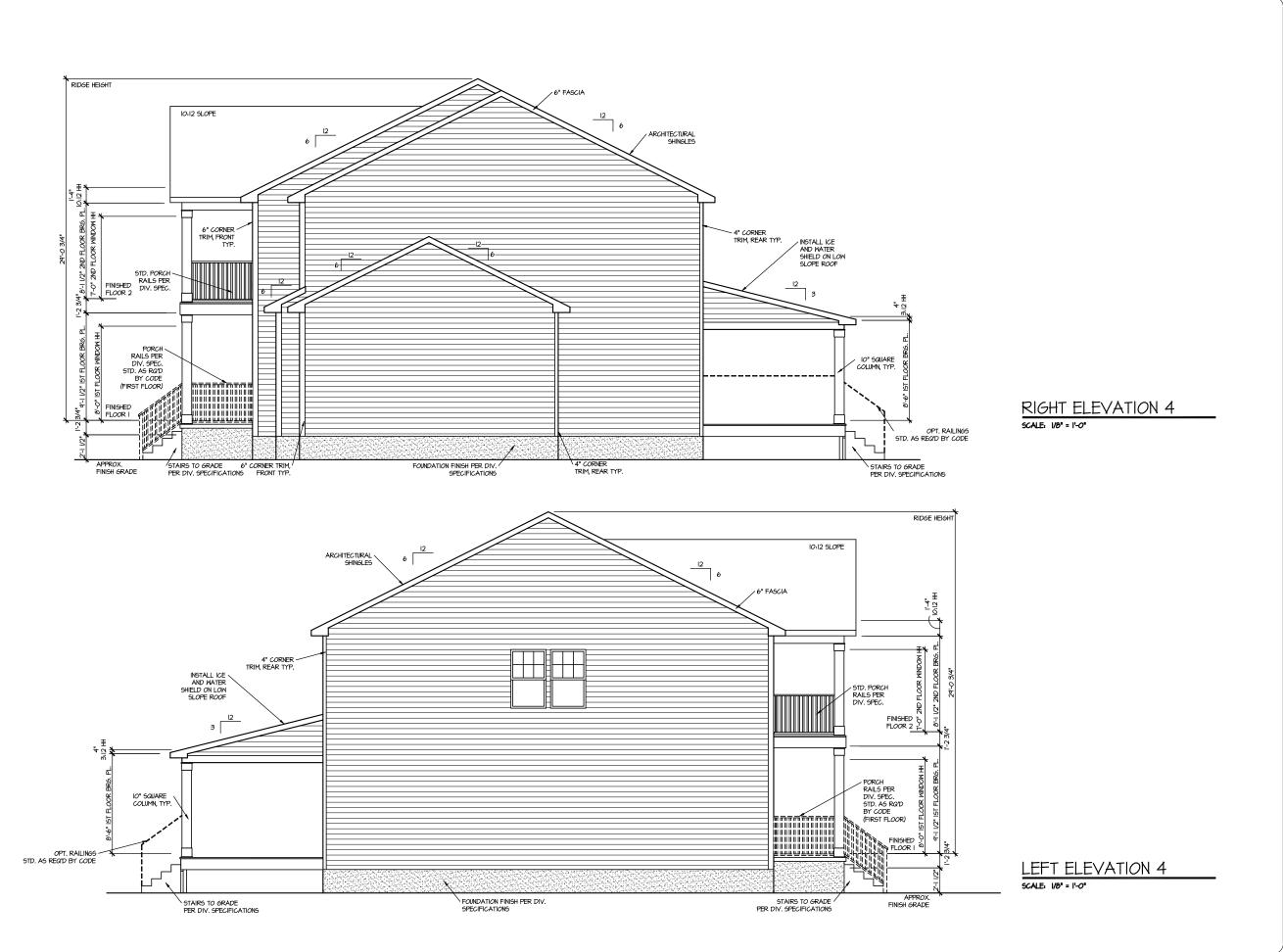
HOUSE NAME:
BURTON
DRAWING TITLE

DRAWN BY:

DATE: 05/20/2025 PLAN NO. 2491

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DRAWN BY: ITS DATE: 05/20/2025

PLAN NO. 2491



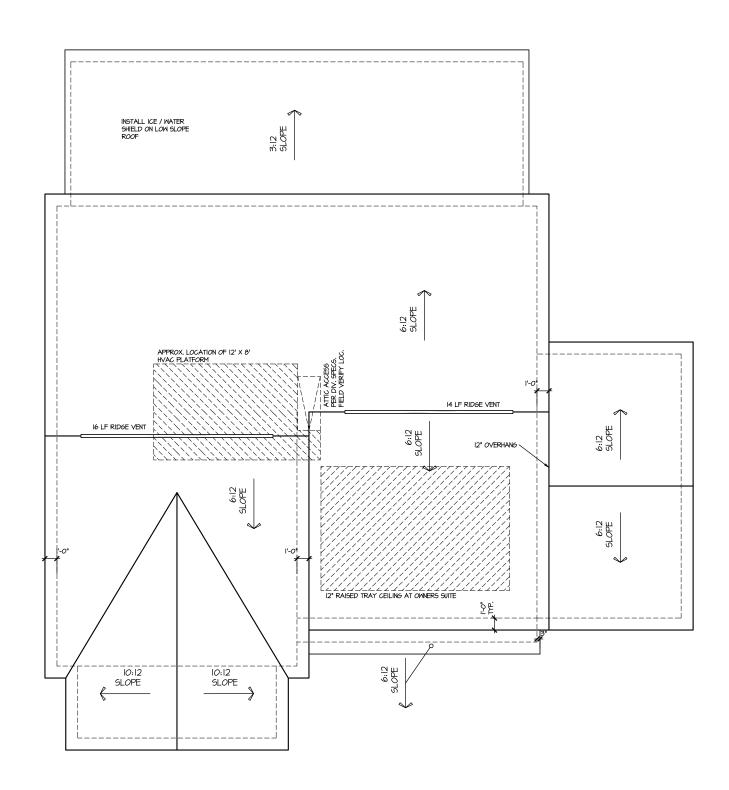
DRAWING TITLE RIGHT & LEFT ELEVATIONS

HOUSE NAME:
BURTON
DRAWING TITLE

SHEET No.

UPPER ROOF VENTILATION CALCULATIONS:
ROOF AREA = 1665 50, FT.
CAESALL ESCARSED VENTILATION.
1 TO 30.0 50.5 50.5 FT.
1 TO 30.0 50.5 50.5 FT.
50-00% IN TOP THIRD = 2.70 - 4.44 50. FT. (1 TO 30.0)
NET FREE AREA OF VENTED SOFT = 51 50. IN / LINEAR FT.
NET FREE AREA OF RIDGE VENT = 10 50. IN / LINEAR FT.

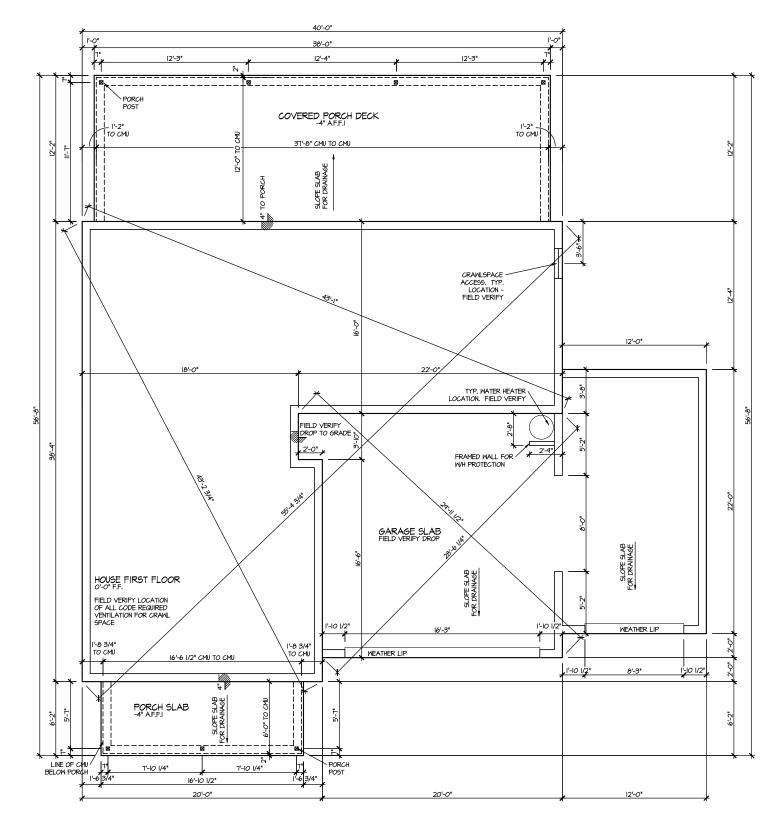
LOHER VENTING. (BOTTOM 2/3 RDS)
TO LINEAR FEET OF SOFFIT X 5.7 5.0. IN. = 3.01 5.0. FT.
UPER VENTING. (CP. J. 26. D. 5.0. IN. = 3.75 5.0. FT.
0. SO LINEAR FEET OF RIDGE X ID 50. IN. = 3.75 5.0. FT.
0. TO 30.0 ALLOWED)
TOTAL ROOF VENTILATION 3.76 50. FT. > 5.55 50. FT. (ROTD)



ROOF PLAN ELEV. 4 SCALE: 100" = 1"-0"

DRAWN BY: DATE: 05/20/2025 PLAN NO. 2491 HOUSE NAME:
BURTON
DRAWING TITLE
ROOF PLAN

SHEET No. AI.3



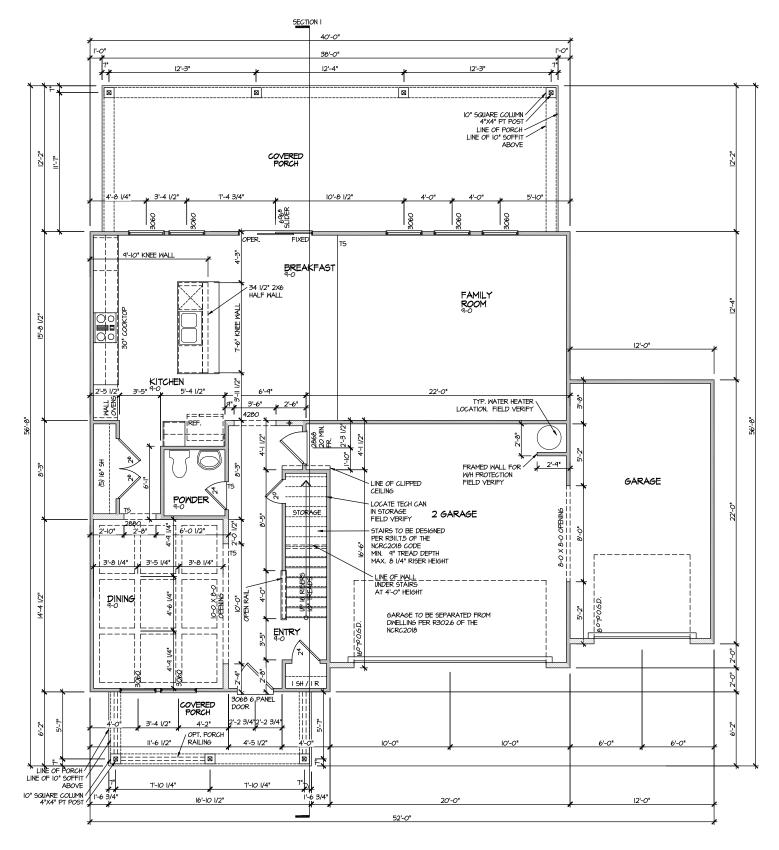
ELEVATION 4 CRAWL SPACE PLAN scale: 1/8" = 1'-0" m C

DRAWN BY:

DATE: 05/20/2025 PLAN NO. 2491

HOUSE NAME:
BURTON
DRAWING TITLE
CRAML SPACE PLAN

SHEET No.



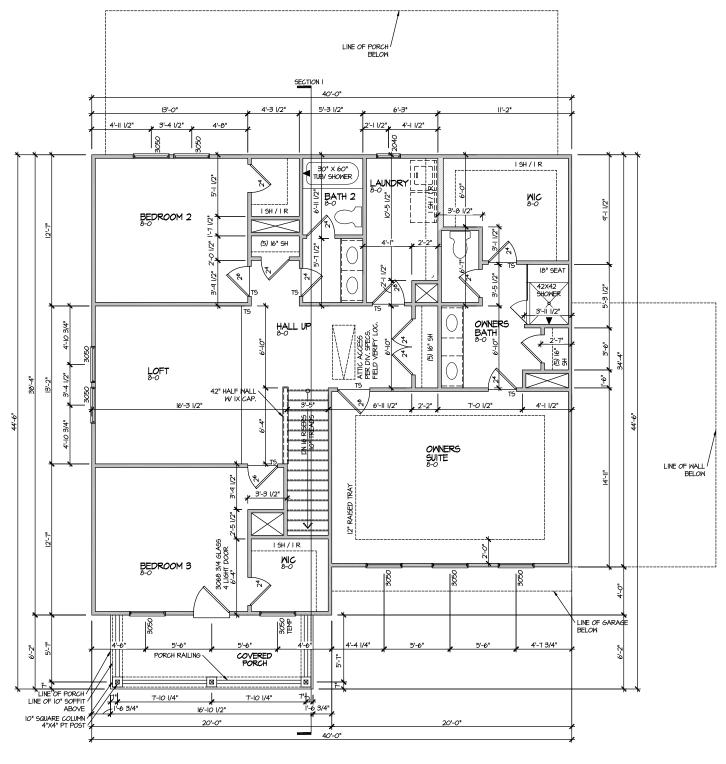
ELEVATION 4 FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"

DRAWN BY: DATE: 05/20/2025 PLAN NO. 2491

HOUSE NAME:
BURTON
DRAWING TITLE

SHEET No.

A3.



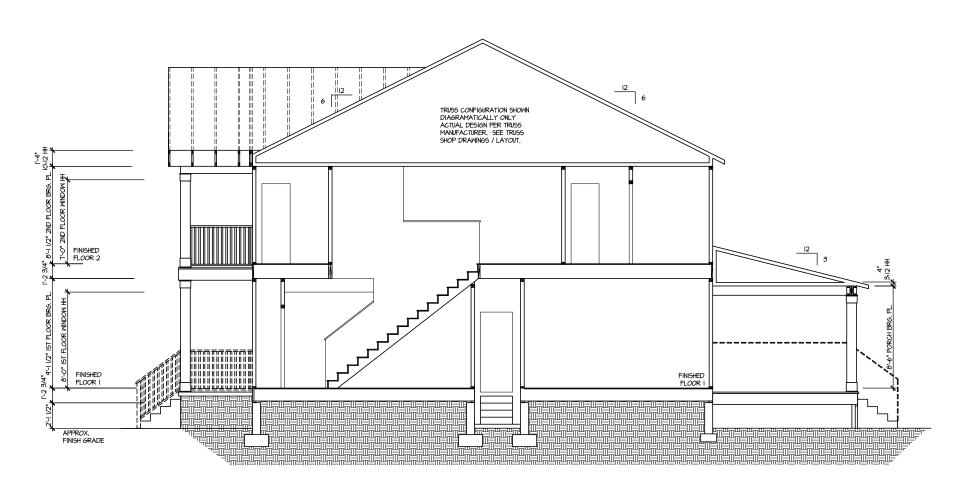
ELEVATION 4 SECOND FLOOR PLAN SCALE: 1/8" = 1'-0"

t 00.0131.dwg DATE: 5/20/2025 12:10 PM

HOUSE NAME:
BURTON
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No.

A3.2



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

DRAWN BY:

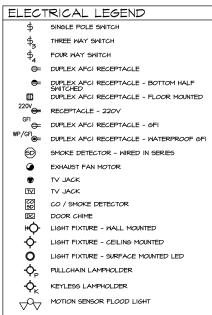
DATE: 05/20/2025

PLAN NO. 2491

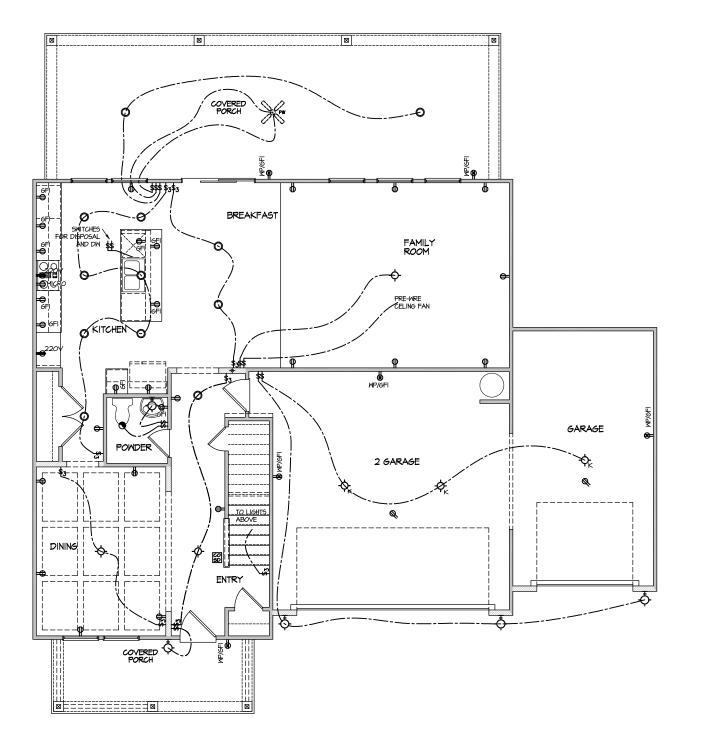


SECTION HOUSE NAME:
BURTON
DRAWING TITLE
BUILDING SE

SHEET No. **A4**.



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

' FILE: Lot 00.0131.dwg DAIE: 5/20/2025 12:10 PM

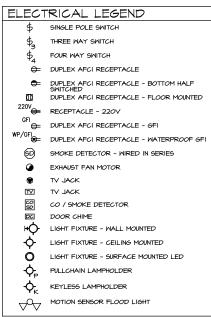
HOUSE NAME:
BURTON
DRAWING TITLE
FIRST FLOOR EL

DRAWN BY:

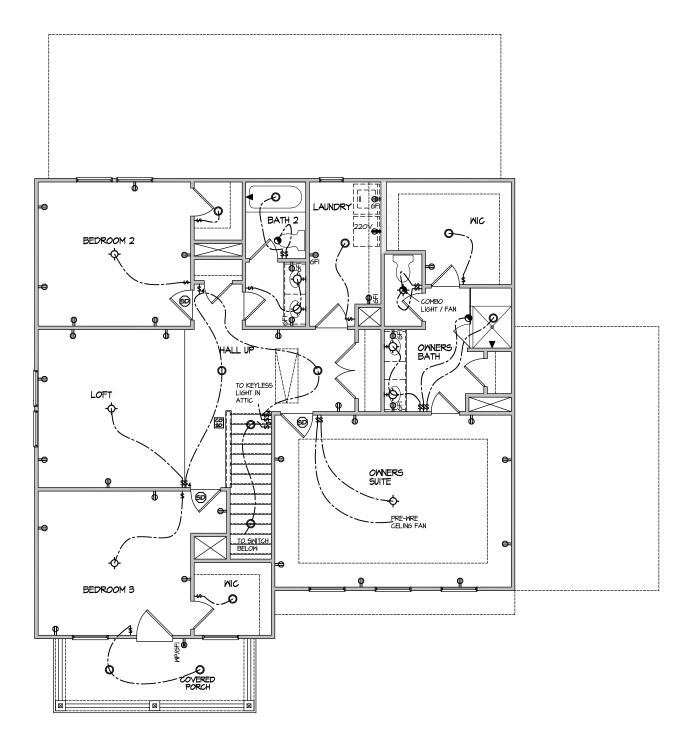
DATE: 05/20/2025

SHEET No.

SHEET NO. **■**|.



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



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

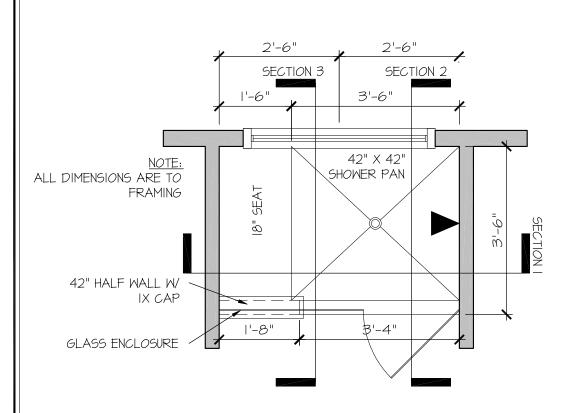
FILE: Lot 00.0131.dwg DATE: 5/20/2025 12:10 PM

HOUSE NAME:
BURTON
DRAWING TITLE
SECOND FLOOR EL

DRAWN BY:

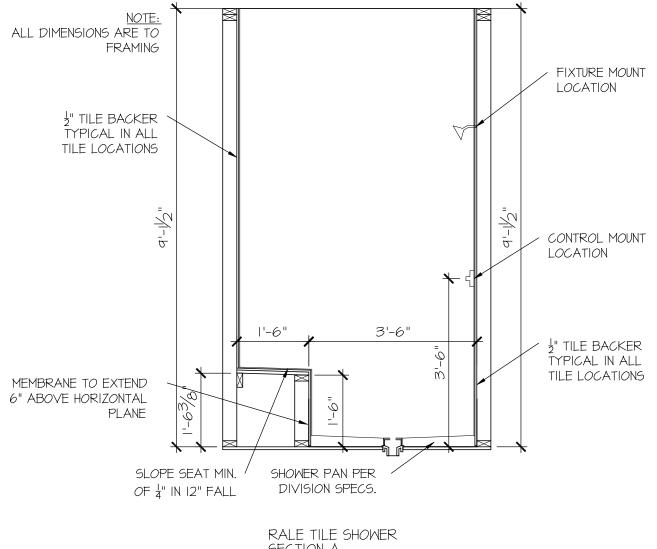
DATE: 05/20/2025 PLAN NO. 2491

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

~ "

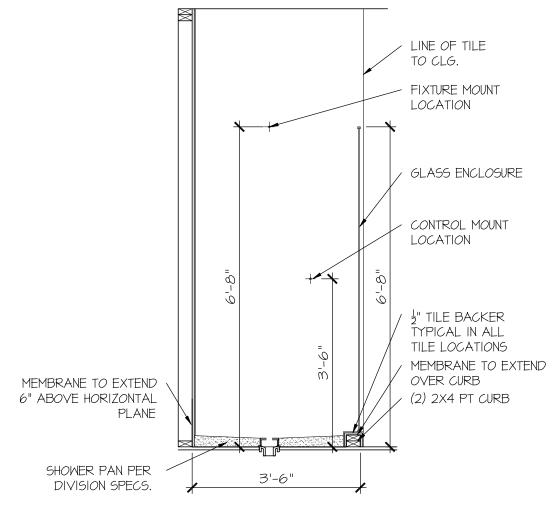


E ILE SHOWER DETAIL

OUSE NAME:

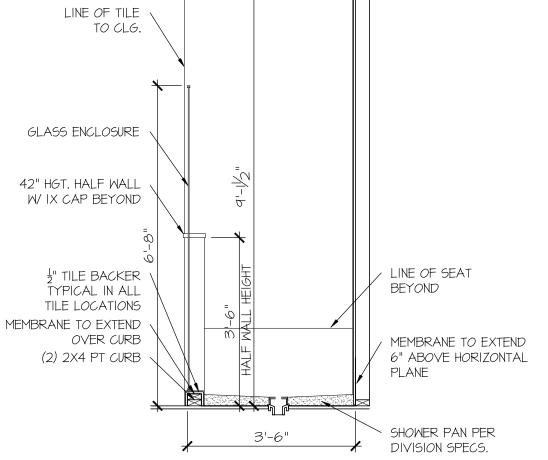
SHEET No.

P||.2



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





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

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: . 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 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

2500 psi: FOOTINGS € INTERIOR SLABS ON GRADE GARAGE & EXTERIOR SLABS ON GRADE

60,000 psi

BASEMENT FOUNDATION WALL DESIGN BASED ON:

. 9' OR 10' HEIGHT (AS NOTED ON PLANS) - TALLER WALLS MUST BE ENGINEERED

 NOMINAL WIDTH (9 ½" FOR 10" THICK WALL). BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE

CLASSIFICATIONS (SC, ML-CL, OR CL). BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY

ADEQUATE TEMPORARY BRACING OR INSTALL IST FLOOR DECK. PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN

CONCRETE BSMT, FND, WALL MITH 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

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 (Fin=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 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

GENERAL STRUCTURAL NOTES

DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODI RESIDENTIAL CODE.

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

DESIGN LOADS: DEAD = 7 PSF T.C., 10 PSF B.C.

LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN) IO PSE T.C., 5 PSE 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) • 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, U.N.O. ◆ WALLS OVER 12' TALL SHALL BE PER PLAN.

ALL HEADERS BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KII N-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., 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 psi 'LVL' - Fb=2600 psi: Fv=265 psi: E=2.0xl0^6 psi

- 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 MH

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 @ 6" O/C OR 2 ROWS ¼"x3½" SIMPSON SDS SCREWS (OR 31/5" 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 3½" OR 5½" BEAMS ARE ACCEPTABLE, USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8

FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C. LISE 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 1" 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 1/2" DIA, BOLTS @ 48" O.C. STAGGERED.

ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABW447 BASE, U.N.O.

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

(ONLY ACCEPTABLE WHERE * ARE SHOWN)

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 ⊘ 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			
* 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 1" x 0.131" NAILS @ 6"04. @ PANEL EDGES & @ 12"04. FIELD.

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

* FASTEN EACH ROOF TRUSS TO TOP PLATE W SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5 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.

◆ FRECT AND INSTALL ROOF TRUSSES PER WICA & TPIS 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. (I-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 L (OR APPROVED FOUAL). FASTEN TO FRAMING MEMBERS

- w/ 2 ½" x 0,131" NAILS @ 6"0,6, @ PANEL EDGES € @ 12" O.C. FIELD. - W 2 3 × 0.120" NAILS @ 4"o.c. @ PANEL EDGES \$ @ 8" O.C. FIELD.

- W/ 2 3 × 0.113" NAILS • 3"o.c. • PANEL EDGES € • 6" O.C. FIELD.

HOLD-DOWN SCHEDULE

5YMBOL	SPECIFICATION	
► HD-I	SIMPSON HTT4 HOLD-DOWN * (%" DIA. ANCHOR)	
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) -OR- MSTC66B3 ALTERNATE	
HD-3	SIMPSON STHDI4/STHDI4RJ	

* UTILIZE THE SSTB24 ANCHOR BOLT ● ALL MONOSLAB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN. FOOTING 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 5/6" DIA.) OR 15" (FOR 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE.

INSTALL PER MANUE INSTRUCTIONS MINIMUM 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

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

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

NON-BEARING HEADER SCHEDULE

SPAN	2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL
UP TO 3'-0"	(I)2x4 FLAT	(I)2x6 FLAT
UP TO 6'-0"	(2)2x4	(3)2x4
JP TO 8'-0"	(2)2x6	(3)2x6
IP TO 12'-0"	(2)2x8	(3)2x8

NOTES:

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

LATERAL BRACING & SHEAR NALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 20 MPH WIND IN 2018 NCSBC:RC (120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1)

EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10. AS PERMITTED BY R301.1.3 OF THE 2018 NCSBC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY CCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIET LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I.I. THIS MODEL HAS PEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5€ R802.II.

EXT. WALL SHEATHING SPECIFICATION

7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 % "XO.II3" NAILS ● 6" O.C. AT EDGES & ● 12" O.C. IN THE PANEL FIELD. TYP, U.N.O.

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

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

ALT, STAPLE CONNECTION SPEC: 15" 16 GA STAPLES (1/4" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 3/4" 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" OC 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 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 SHEARWAL OR 3" O.C. OSB SHEARWALL.

INDICATES HOLDOWN BELOW

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

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	Steel angle size	
3'-0"	20 FT. MAX	L3"x3"x/4"	
	3 FT. MAX	L3'x3'x/4"	
6'-0"	I2 FT. MAX	L4"x3"x/4"	
	20 FT. MAX	L5"x3½"x%"	
	3 FT. MAX	L4"x4"x¼" *	
8'-O"	I2 FT. MAX	L5"x3½"x¾"	
	I6 FT. MAX	L6"x3½"x¾"	
4'-6"	I2 FT. MAX	L6"x3½"x%6"	
16'-0"	2 FT. MAX	L7"x4"x½" **	
10-0	3 FT. MAX	L8"x4"x½" **	

SHALL SUPPORT 2 %" - 3 ½" VENEER W 40 poi MAXIMUM WEIGHT.

16' SHALL HAVE 4" MIN BEARING

16' GUALL LAVE 4" A" MIN BEARING

⟨ 16' SHALL HAVE 4' MIN. BEARING
≥ 16' SHALL HAVE 8' MIN. BEARING
⟨ 16' SHALL NOTE FE FASTING DEACK TO HEADER.
≥ 16' SHALL DE FASTINED BACK TO WOOD HEADER IN MALL @49'0
⋈ ½' DIA. x 3 ½' LONG LAG SCREMS IN 2' LONG VERTICALLY
SLOTTED HOLES.

R HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING. VLL LINTELS SHALL BE LONG LEG VERTICAL. WHEN SUPPORTING VENEER (3" WIDE THE EXTERIOR TOE OF THE

HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 ½" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS, FOR ANY LINTEL Fastened Back to Beam, fasteners shall maintain a 2½" Minimum) Clear Distance from Bottom of Beam,

FOR OUTEN VENETR USE I 4x3x// FOR 31/5" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF

PSL OPTION

36"x914" - H

3½"x|4" - F

3½"x|4" - F

3½"xl4" - F

36"x14" - F

3½"x9¼" - H

7"x18" - F1

3½"xl4" - F

36"x14" - F

3%"x94" - H

3%"xl4" - F

3½"x14" - F

35"x14" - F

3%"x|4" - F

3K"x9¼" - H

5¼"xII%" - D

REFER TO DETAIL DISD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS

REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS

LVL OPTION

(2)13/4"x9/4" - +

(2)13/4"×14" -

(2)13/4"×14" -

(2)13/4"x14" - F

(2)13/4"x14" -

(2)13/4"×9/4" - +

(4)134"×18" - F

(2)|%"x|4" - F

(2)13/4"x14" - F

(2)194°×94° -

(2)13/4"x14" -

(2)134"x14" -

(2)13/4"x14" -

(2)15/4"x14" - F

(2)13/4"×9/4" -

(3)13/"x113/" - D

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

ADDITIONAL NOTES FOR TRUSS &

I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED

TRUSGES/LIGISTS SHALL BE DESIGNED SO THAT

DIFFERENTIAL DEFLECTION BETWEEN ADJACENT

B. FLOOR TRUSSES, ATTIC TRUSSES, \$ I-JOISTS:

PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSI

FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO

LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

LIGHTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS

BEAMS DO NOT EXCEED THE FOLLOWING:

FLOOR FRAMING BY OTHERS:

NOTED OTHERWISE ON PLAN.

A. ROOF TRUSSES: I/4" DEAD LOAD

1/8" DEAD LOAD

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

001

002

003

AE00

004

005

006

001

008

009

AP00

010

OIOA

OII

012

ENGINEERED BEAM MATERIAL SCHEDULE

LSL OPTION

(2)13/4/46" - 1

(2)13/4"×14" -

(2)15/4"×14" - F

(2)13/4"x14" -

(2)13/4"×9/5" - 1

(2)|%'x|4" - F

(2)13/4"x14" - F

(2)134"×91/2" -

(2)13/4"×14" -

(2)13/4"×14" -

(2)13/1414" -

(2)15/4"x14" - F

(2)13/4"×91/5" - 1

N/A

FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN

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.

FLITCH OPTION

2)2x10 + (1) ¼"x4¼" STEE FLITCH PLATES - H

2)2x12 + (1) %"x114" 5TEE1

(2)2x12 + (1) %"x114" STEE FLITCH PLATES - FB

2)2x12 + (1) **%**"x1**1**4" 5TEE FLITCH PLATES - FB

'2)2xi2 + (i) %"xiik" Steel Flitch Plates - FB

4)2x12 + (3) %"xII4" STEEL

(2)2x12 + (1) %"x114" 5TEE FLITCH PLATES - FB

2)2xi2 + (i) %"xil4" Stee Flitch Plates - FB

(2)2x10 + (1) ¼"x4¼" 5TEEL FLITCH PLATES - H

2)2xI2 + (I) %"xIIK" STEEI FLITCH PLATES - FB

2)2x12 + (1) %"x114" STEE1

(2)2x12 + (1) %"x1以" STEE FLITCH PLATES - FB

2)2x12 + (1) %"x114" 5TEE FLITCH PLATES - FB

(2)2x10 + (1) /4"x9/4" STEEL FLITCH PLATES - H

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELIS SUPPORTING AND STABLE AFTER THE BUILDING FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS SHE CONTRACTOR'S SOLE RESPONSIBILITY FIG DETERMINE THE ERECTION PROCEDURES SEQUENCE TO INSURE THE SAFETY OF THE BUILIF AND ITS COMPONENTS DURING CONSTRUCTION. INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING TEMPORARY 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 5 DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME IN CONTACT WITH FLOOR FRAMING ARE LEVEL. NCLUDING, 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.

STEEL OPTION

WBxIO - H

WI2xI4 - F

WI2xI4 - F

WI2xI4 - F

W8xIO - H

WI2x30 - F

WI2vI4 - F

WI2xI4 - F

W8xIO - H

WI2xI4 - F

WI2xI4 - F

WI2xI4 - F

W8xIO - H

CAR ROFESSIO ENGINE EPH T. R

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5/28/2

V

1&K project numbe 126-2306

rawn by: KF(ssue date: 02-16-24 EVISIONS

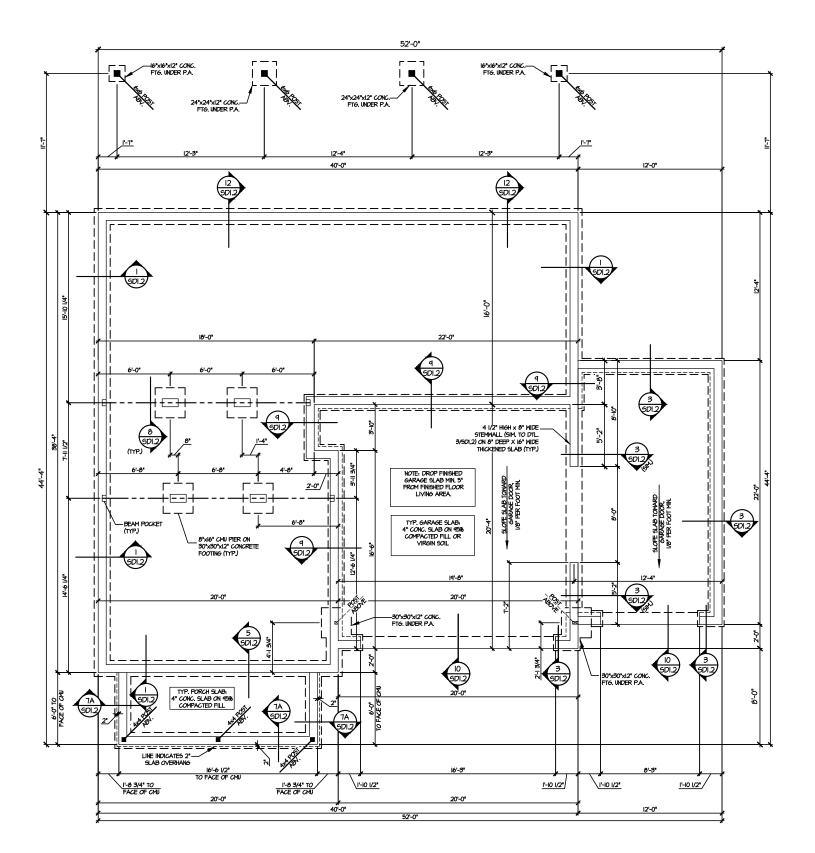
initial: 5-28-25



OMMUNI $\widehat{\bigcap}$ Ú

POND BURTON NC AKE LOT 131 -RALEIGE BL





CRAML SPACE FOUNDATION PLAN
SCALE: 1/80"=1'-0"



M&K project number: 126-2306

5/28/2

drawn by: issue date: 02-16-24

05-28-25

BLAKE POND COMMUNITY Lot 131 - Burton 4 Raleigh, nc

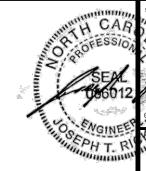
LEGEND

- IIIIII 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

S1.

OUNDATION



MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINERING

SUB-Models And Balling 4 - Andre A 19900

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5/28/25



M&K project number: 126-2306

drawn by: KFG issue date: 02-16-24

REVISIONS

initial: 05-28-25 JAD

LEGEND

■ ■ ■ INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

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

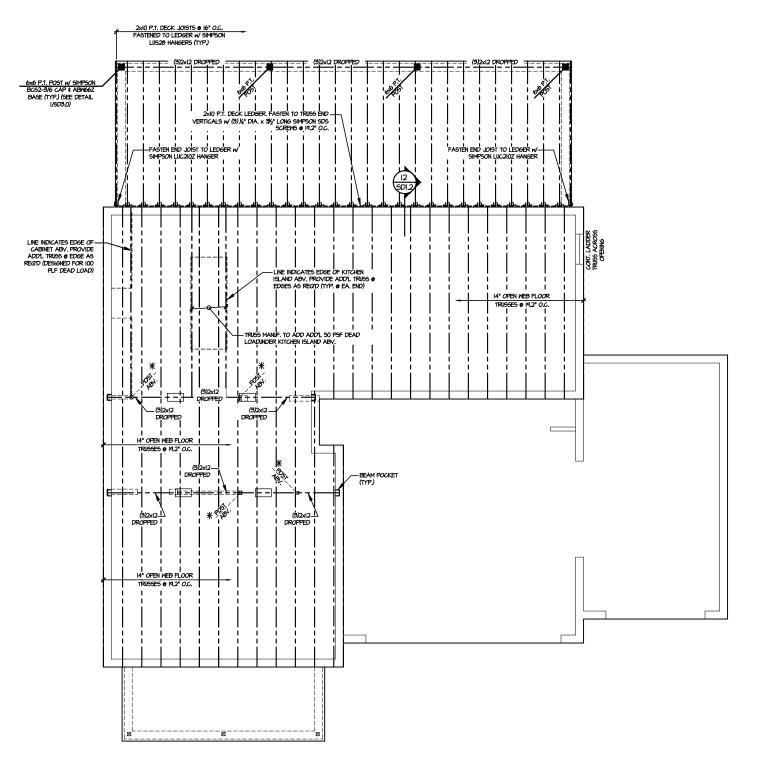
REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES \$ SCHEDULES

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

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

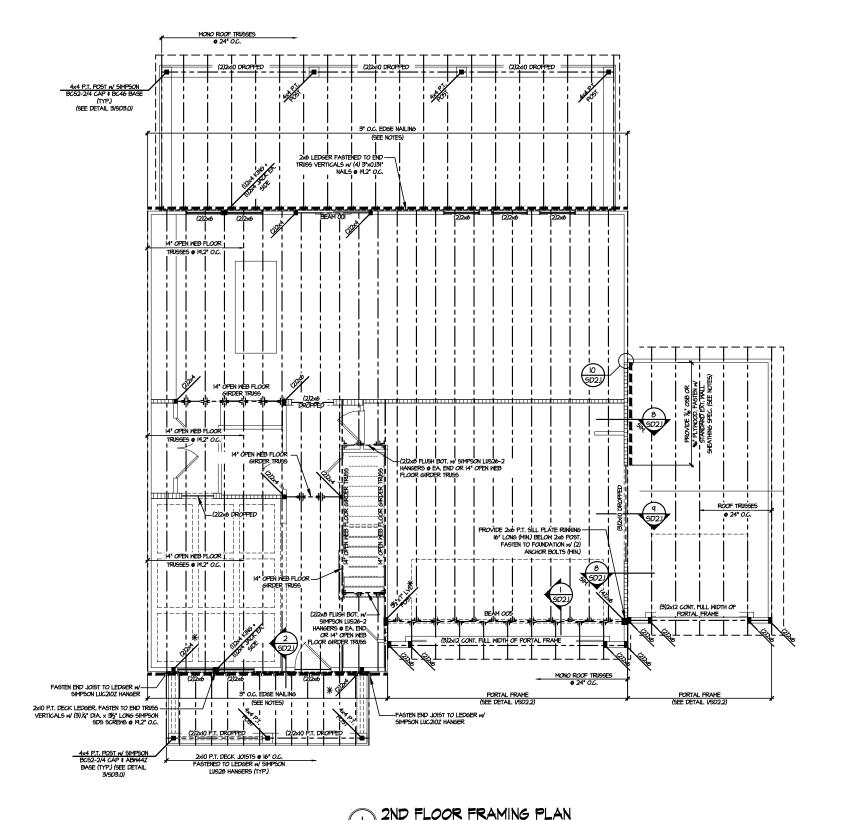
JL METAL HANGER

BLAKE POND COMMUNITY Lot 131 - Burton 4 Raleigh, nc OOR



IST FLOOR FRAMING PLAN





ENGINEERED BEAM MATERIAL SCHEDULE LVL OPTION STEEL OPTION FLITCH OPTION 001 (2)194"×914" - H (2)134"x915" - H (2)2xl2 + (I) %"xll"," STEEL FLITCH PLATES - FB 002 (2)|%'x|4" - F 3½"x14" - F (2)13/4"x14" - F WI2xI4 - F 002A (2)15/4"x14" - F 36"x14" - F (2)15/4"x14" - F WI2xI4 - F (2)2xl2 + (I) %"xll以" STEEL FLITCH PLATES - FB 003 (2)13/4"×14" - F 3%"xl4" - F (2)13/4"×14" - F WI2xI4 - F (2)2x12 + (1) %"xIK" STEEL FLITCH PLATES - FB 003A (2)13/4"×14" - F (2)13/4"×14" - F WI2xI4 - F 3½"xl4" - F (2)2x10 + (1) ¼"x4¼" STEEL FLITCH PLATES - H 004 (2)134"x914" - H (2)134"x9½" - H 3½"x94" - H (4)2xl2 + (3) %"xil4" Steel Flitch Plates - FB 005 (4)13/4"x18" - FT 7"x18" - FT N/A WI2x30 - F (2)2xl2 + (I) %"xIK" STEEL FLITCH PLATES - FB 006 (2)|3/14|4" - F 36"x14" - F (2)|3/"x|4" - F WI2xI4 - F (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - FB 001 (2)13/4"×14" - F (2)13/4"x14" - F WI2xI4 - F 36"x|4" - F 008 (2)15/4"×9/4" - H (2)194"×945" - H MØxIO - H 3½"x9¼" - H 2)2x12 + (1) %"xII¼" STEEL FLITCH PLATES - FB 009 (2)13/4"×14" - F (2)13/4"×14" - F (2)2xl2 + (I) %"xll4" STEEL FLITCH PLATES - FB 009A (2)15/4"×14" - F 3½"x14" - F (2)15/4"x14" - F WI2xI4 - F (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - FB 010 (2)|%'x|4" - F 3%"x14" - F (2)13/4"×14" - F WI2xI4 - F (2)2xl2 + (I) %"xIK" STEEL FLITCH PLATES - FB OIOA (2)13/4"×14" - F (2)13/4"×14" - F WI2xI4 - F 36"x|4" - F OII (2)13/4"×9/4" - H (2)134"x915" - H M8xIO - H 3½"x9¼" - H (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATE - D 012 (3)1¾"x11¾" - D WI0x12 - D

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

- "D" INDICATES DROPPED BEAM

- I'N INDICATES DROPPED OPENING HEADER
REFER TO DETAIL DISD20 FOR TYPICAL FILITCH BEAM CONNECTIONS
REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS

FOR FLUSH TOP DEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W (2) 3"XO.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 \bullet 8" O.C.

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

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

- IIIIII 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.

COMMUNIT ANS RAMING POND (BURTON INC. O

MULHERNHKU RESIDENTIAL STRUCTURAL ENGINER

5/28/2

H CAR

SEPH T. R

Y M&K project number: 126-2306

roject mgr: **JTF** rawn by: KFC

ssue date: 02-16-24 FVISIONS initial: 5-28-25 JAD

BLAKE I LOT 131 - I RALEIGH,

S3.

MULHERN+KULP

5/28/25

Y

M&K project number: 126-23061

KFG drawn by: issue date: 02-16-24

REVISIONS:

initial: 05-28-25 JAD

LEGEND

• == INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

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

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

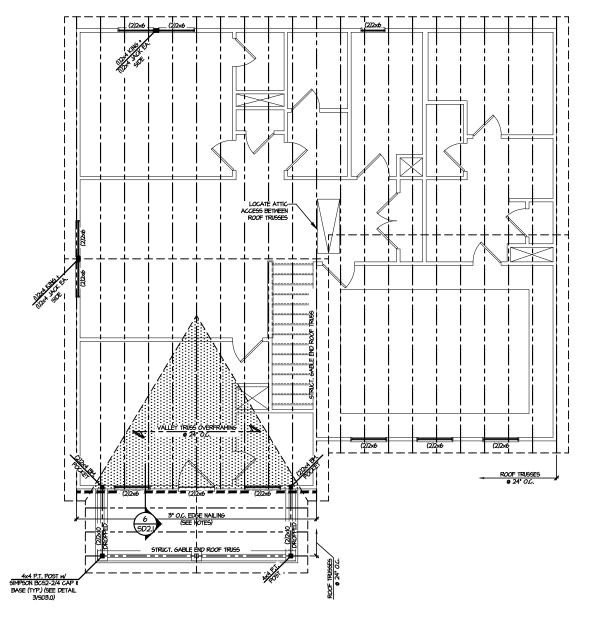
INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

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

• —-- BEAM / HEADER

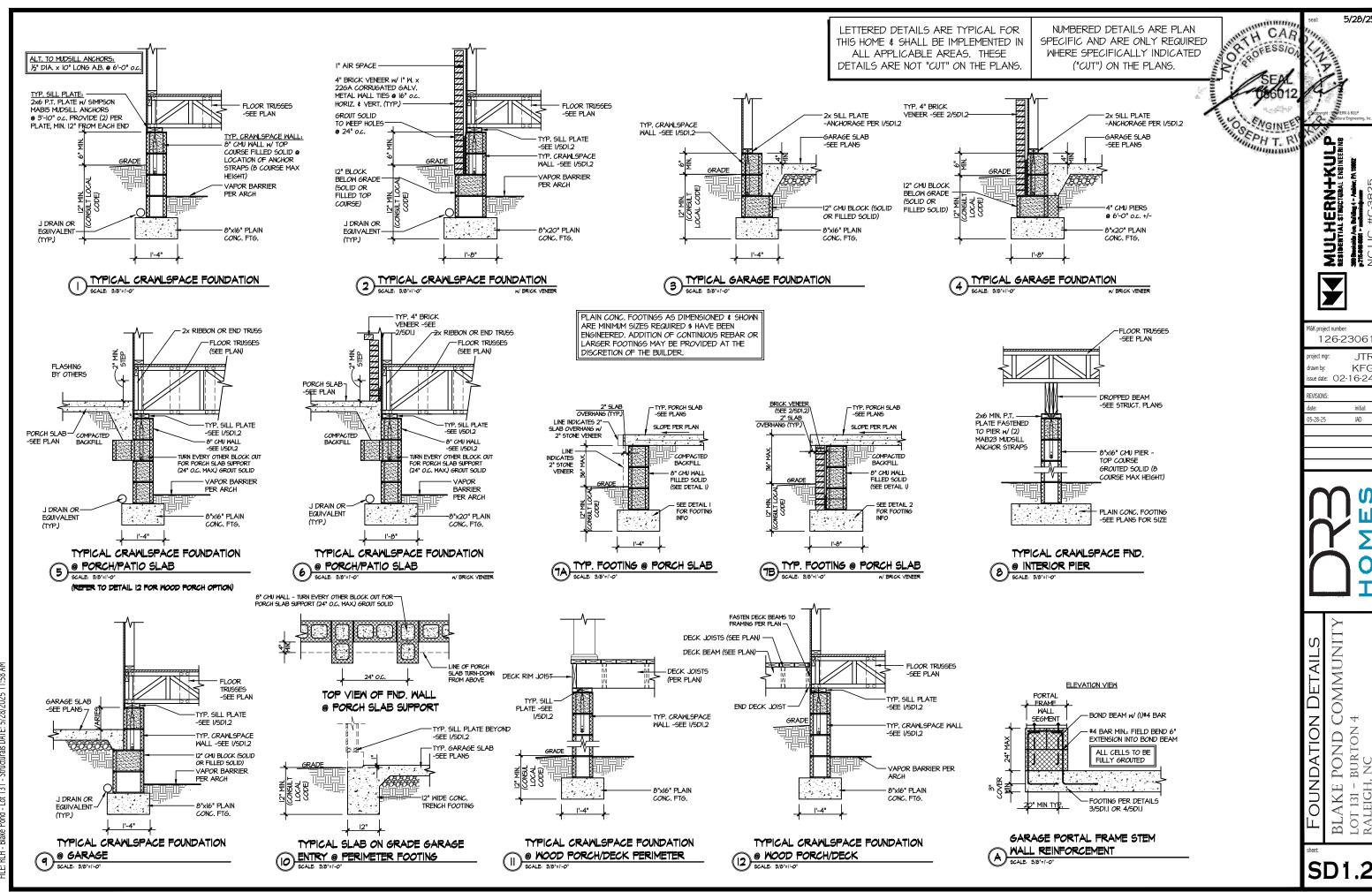
JL METAL HANGER

BLAKE POND COMMUNITY Lot 131 - Burton 4 Raleigh, nc ROOF



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

ROOF FRAMING PLAN



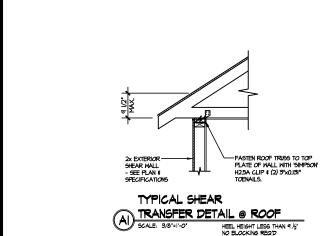
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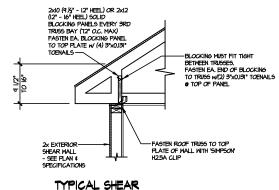
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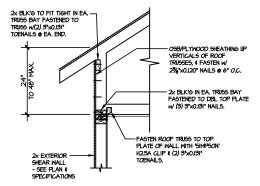
KFC

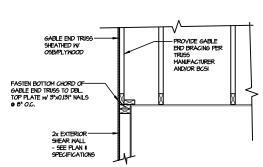
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JAD







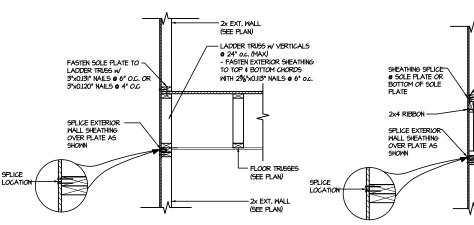




TYPICAL GABLE END DETAIL SON SCALE: 3/0°=1-0°

TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS SCALE. 3/0':11-0'

TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT DETWEEN 4) HEEL HEIGHT BETWEEN 4½" - 16" BLOCKING REQ'D



TYPICAL SHEAR TRANSFER DETAIL

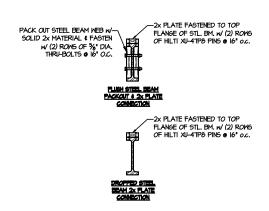
BETWEEN FLOORS @ EXTERIOR WALL
SCALE S/6"=1"-0" PARALLE FRAS

-2x EXT, WALL (SEE PLAN) - FASTEN SOLE PLATE TO RIBBON W 3"x0.131" NAILS • 6" O.C. OR 3"x0.120" NAILS • 4" O.C -FL*oo*r Trusses (See Plan) -2x EXT, WALL

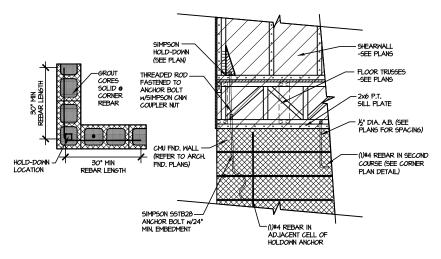
> TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

- Steel Flitch Plate (See Plan) FASTEN WOOD BEAMS W FLITCH -PLATE w/ (2) ROWS OF %" DIA. THRU-BOLTS • 16" O.C. 2x MOOD BEAM -2x WOOD BEAN (SEE PLAN) (SEE PLAN) - STEEL FLITCH PLATE (SEE PLAN) FASTEN WOOD BEAMS W/ FLITCH -PLATES W/ (2) ROWS OF 3/8" DIA. THRU-BOLTS @ 16" O.C. 2x WOOD BEA -2x WOOD BEAM 2x WOOD BEAM

TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE SUP-11-0*



TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 944-11-0*



TYPICAL CORNER FOUNDATION HOLD-DOWN INSTALLATION
SCALE: NTS.

> 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.

COMMUNIT -AILS POND (BURTON,

M&K project number:

frawn by:

REVISIONS

5-28-25

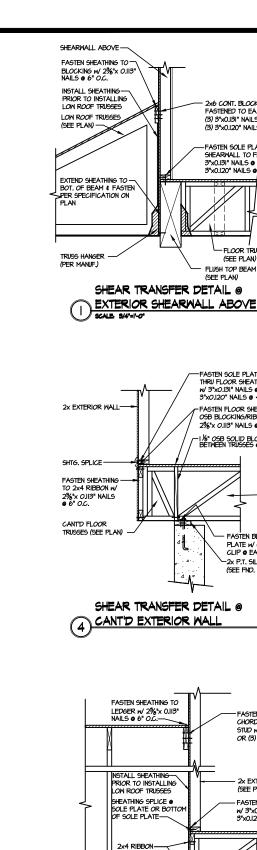
126-2306

KFC issue date: 02-16-24

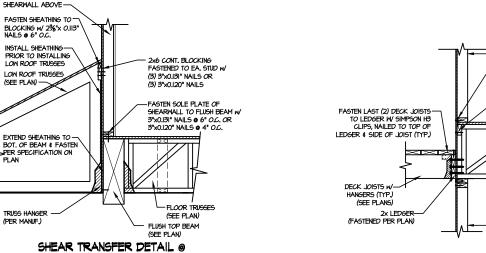
initial:

JAD

BLAKE I LOT 131 - I RALEIGH,



LOW ROOF TRUSSES



FASTEN SOLE PLATE OF SHEARWALL THRU FLOOR SHEATHING TO RIBBON W/ 3"XO.131" NAILS @ 6" O.C. OR

3"x0.120" NAILS @ 4" O.C.

-FASTEN FLOOR SHEATHING TO OSB BLOCKING/RIBBON w/

-1 1/8" OSB SOLID BLOCKING BETWEEN TRUSSES ● EVERY BAY

- FLOOR TRUSSES

(SEE PLAN)

-FASTEN 2x6 LEDGER OR TOP CHORD OF TRUGG TO EA. STUD W (3) 3"XO.131" NAILS OR (3) 3"x0.120" NAILS

- FASTEN SOLE PLATE TO RIBBON w/ 3"x0,131" NAILS **@** 6" O.C. OR 3"x0,120" NAILS **@** 4" O.C.

- 2x Exterior Wall (See Plan)

-FLOOR TRUSSES (SEE PLAN)

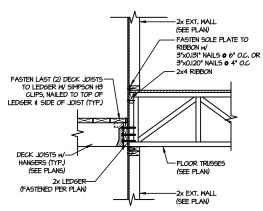
- 2x INTERIOR SHEAR WALL

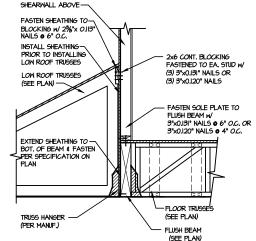
FASTEN BLOCKING TO SILL

PLATE W/ (1) SIMPSON A35 CLIP @ EACH PANEL

-2x P.T. SILL PLATE (SEE FND. DETAILS)

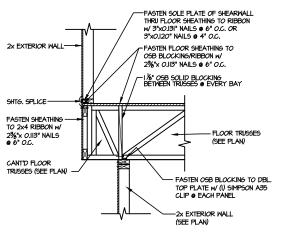
2%"x O.113" NAILS @ 6" O.C.

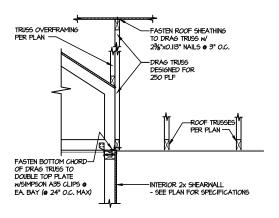




SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE







SHEAR TRANSFER DETAIL

AT INTERIOR SHEARMALL BELOW

-INTERIOR SHEARWALL



FASTEN SHTG. TO

- 2x EXTERIOR SHEAR WALL ABOVE.

-FLOOR TRUSSES

BLOCKING w/ 23/6"x 0.113" NAILS @ 6" o.c.

FASTEN SOLE PLATE TO RIBBON W/ 3"X0.131" NAILS @ 6" O.C. OR 3"X0.120" NAILS @ 4" O.C.

(3) 3"x0.120" NAILS

INSTALL SHEATHING

PRIOR TO INSTALLING LOW ROOF TRUSSES

LOW ROOF TRUSSES

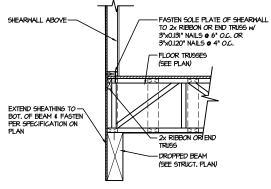
2x4 RIBBON

TRUSS HANGER

SHEAR TRANSFER DETAIL @

HEATHING SPLICE &





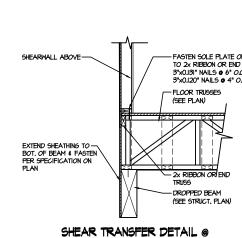


EXTERIOR WALL-

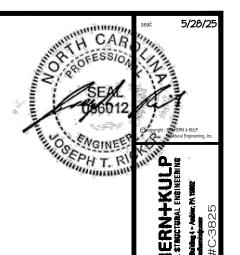
-FASTEN NAILERS TO END STUD W/ 3"x0.131" NAILS • 6" O.C. VERT. OR 3"x0.120" NAILS • 6" O.C. VERT. (SEE PLAN)

TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL EXTERIOR SHEARWALL ABOVE

INTERSECTING INT. SHEARWALL







M&K project number

126-2306 ssue date: 02-16-2 FVISIONS initial: 5-28-25 JAD

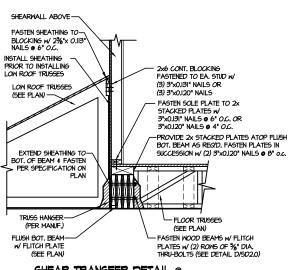


COMMUNIT POND (BURTON , NC

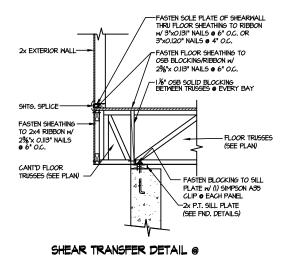
BLAKE | LOT 131 - | RALEIGH,

SD2.1A

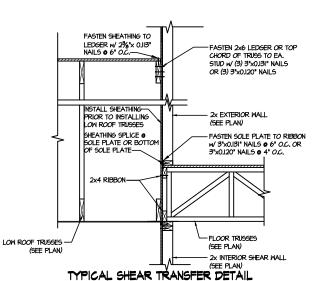




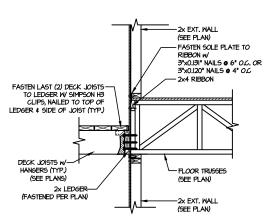
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



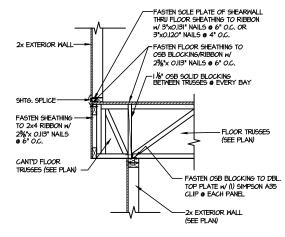
4 CANT'D EXTERIOR WALL



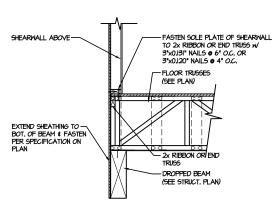
BETWEEN FLOORS @ INTERIOR WALL
SCALE 94"-1"-0"



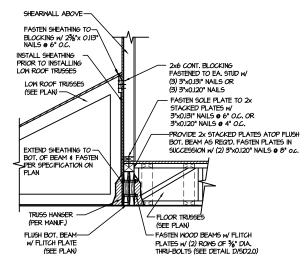
DECK LEDGER CONNECTION DETAIL



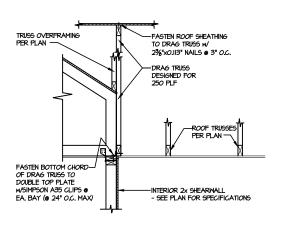
SHEAR TRANSFER DETAIL BETWEEN 5 FLOORS @ CANT'D EXT. WALL



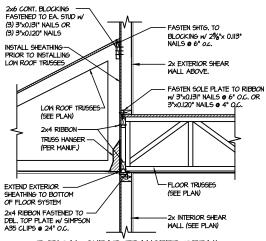
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



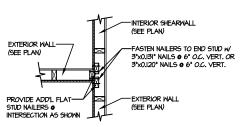
SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE



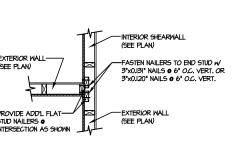
SHEAR TRANSFER DETAIL AT INTERIOR SHEARWALL BELOW



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARMALL



POND (BURTON C. NC BLAKE I LOT 131 - I RALEIGH,

COMMUNIT

AIL

5/28/2

ERN+KUI STRUCTURAL ENGINEEL

1&K project number

5-28-25

126-2306

ssue date: 02-16-2

initial:

JAD

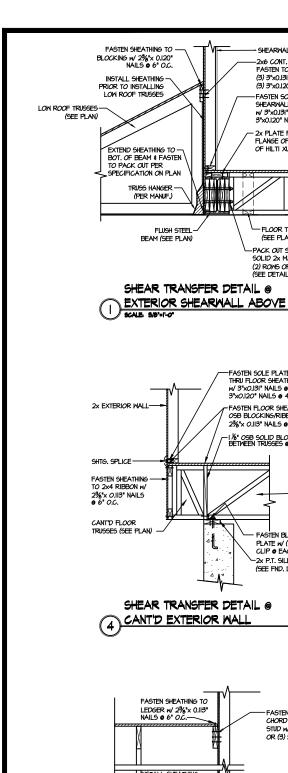
TH CAR

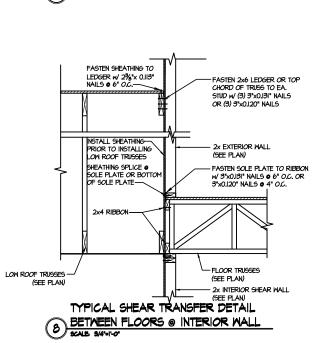
QOFESSIO

ENGINE

SEPH T. R

SD2.1B





SHEARWALL ABOVE

-2x6 CONT. BLOCKING.

(3) 3"x0.131" NAILS OR (3) 3"x0.120" NAILS

(SEE PLAN)

FASTEN SOLE PLATE OF SHEARWALL THRU FLOOR SHEATHING TO RIBBON W/ 3"XO.131" NAILS @ 6" O.C. OR

3"x0.120" NAILS @ 4" O.C.

FASTEN FLOOR SHEATHING TO OSB BLOCKING/RIBBON w/

-1 1/8" OSB SOLID BLOCKING BETWEEN TRUSSES @ EVERY BAY

(SEE PLAN)

PLATE w/ (I) SIMPSON A35 CLIP @ EACH PANEL

-2x P.T. SILL PLATE (SEE FND. DETAILS)

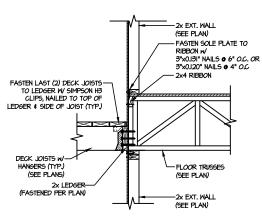
23/8"x 0.113" NAILS @ 6" O.C.

-FASTEN SOLE PLATE OF SHEARWALL TO 2x WOOD PLATE w/ 3"x0.131" NAILS • 6" O.C. OR 3"x0.120" NAILS • 4" O.C.

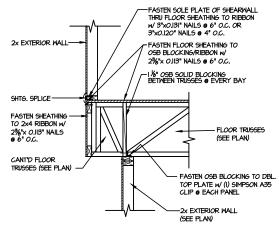
- 2x Plate Fastened to top Flange of Stl. BM. W (2) Rows of Hilti XU-47P8 PINS @ 16" O.C.

-PACK OUT STEEL BEAM WEB w/ SOLID 2x MATERIAL & FASTEN w/

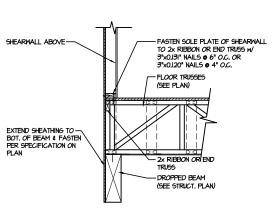
(2) ROWS OF 5/6" DIA. THRU-BOLTS (SEE DETAIL E/SD2.0)



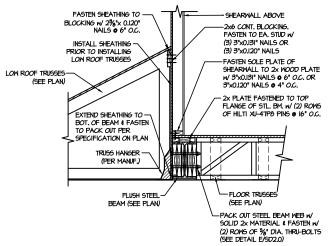




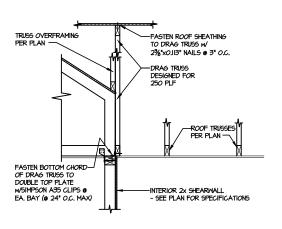




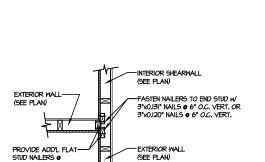
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



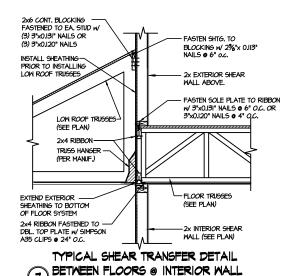
SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE



SHEAR TRANSFER DETAIL AT INTERIOR SHEARWALL BELOW



SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL



LINDWMO \bigcirc POND (BURTON INC BLAKE I LOT 131 - I RALEIGH,

5/28/2

ERN+KUI

1&K project number

5-28-25

126-2306

ssue date: 02-16-2

initial:

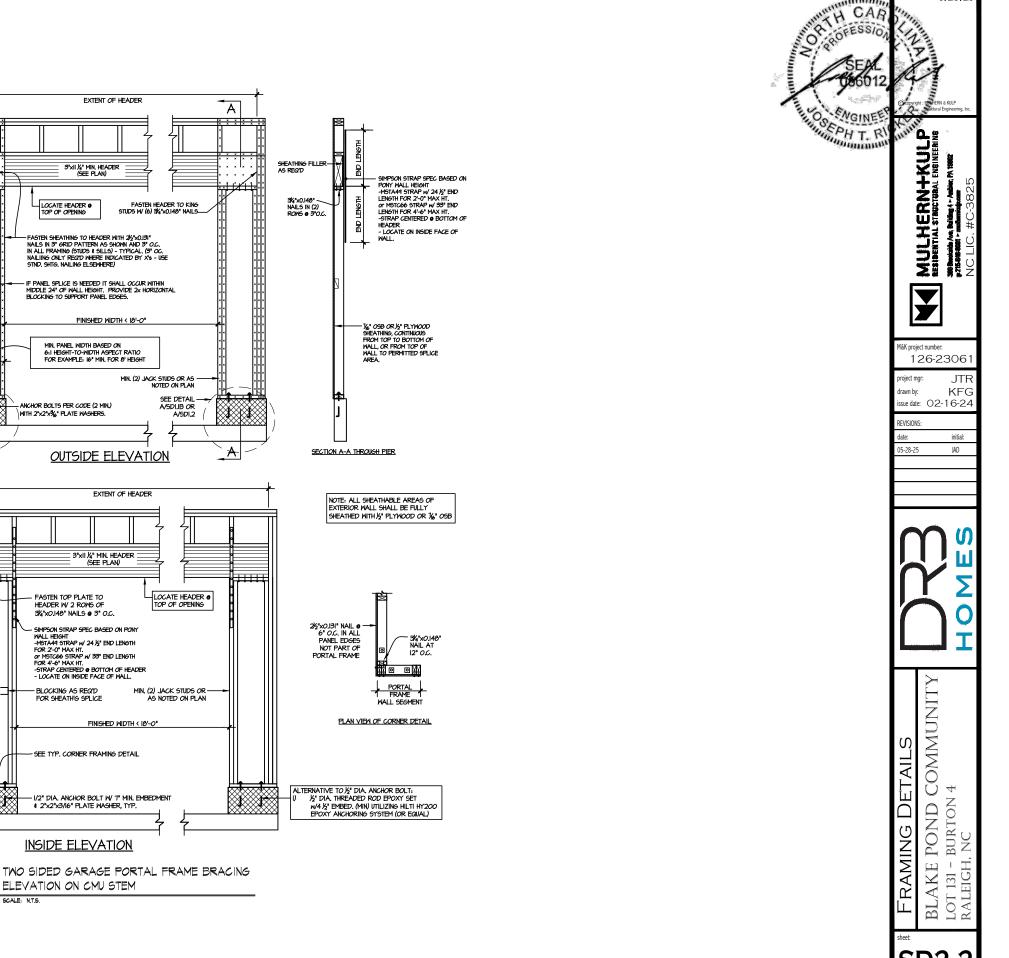
JAD

TH CAR

ROFESSIO

ENGINE SEPH T. R

SD2.1C



PONY WALL MAX. HT.: =2'-0" w/ SIMPSON MSTA49 =4'-6" w/ SIMPSON MSTC66

10'-0" MAX. TOP OF HEAD

PONY WALL MAX. HT.: =2'-0" w/ SIMPSON MSTA49 =5'-0" w/ SIMPSON MSTC66 /

LOCATE HEADER 6 TOP OF OPENING

ANCHOR BOLTS PER CODE (2 MIN.)

- FASTEN TOP PLATE TO HEADER W 2 ROWS OF

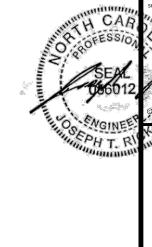
— BLOCKING AS REQ'D FOR SHEATH'G SPLICE

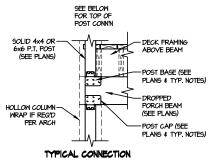
INSIDE ELEVATION

31/4"x0.148" NAILS @ 3" O.C.

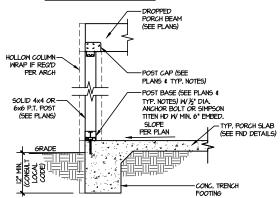
ANCHOR BOLTS PER CODE (2 MIN WITH 2"x2"x%," PLATE WASHERS.

5/28/2





TYPICAL CONNECTION DETAIL @ 2nd FLOOR DECK



TYPICAL PORCH

POST CONNECTION DETAIL

SCALE NOTE

SLAD ON STADE SHOPE

5/28/25

MULHERN+KULP

RESIDENTIAL STRUCTURAL ENSINEERINS

SUB-Models And Balling 44 Andrew P. 1982

Y

M&K project number:

drawn by:

REVISIONS:

05-28-25

126-23061

issue date: 02-16-24

KFG

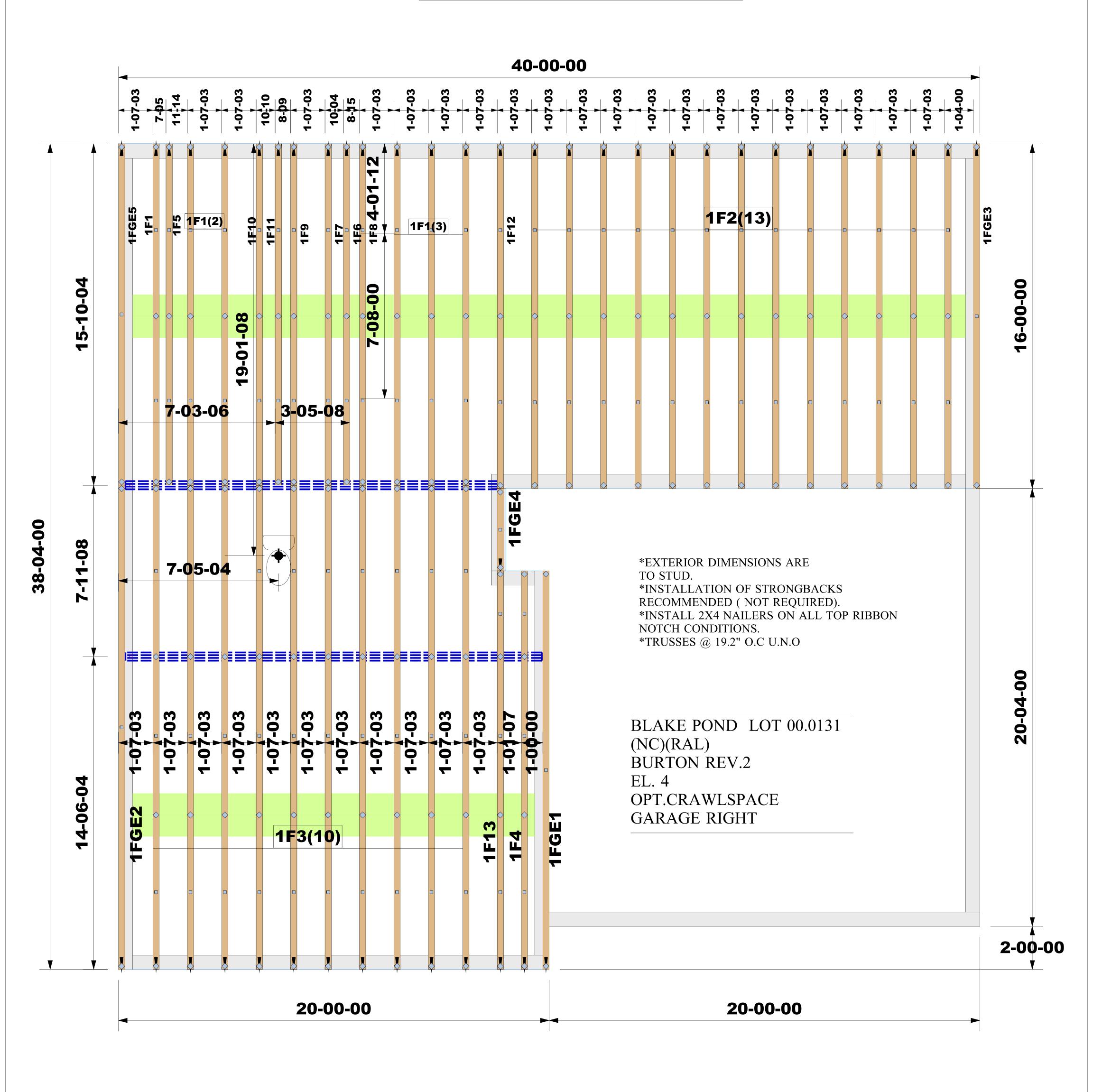
initial:

JAD

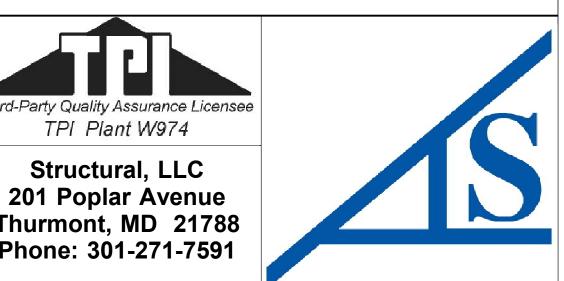
BLAKE POND COMMUNITY Lot 131 - Burton 4 Raleigh, nc FRAMING DETAILS

SD3.0

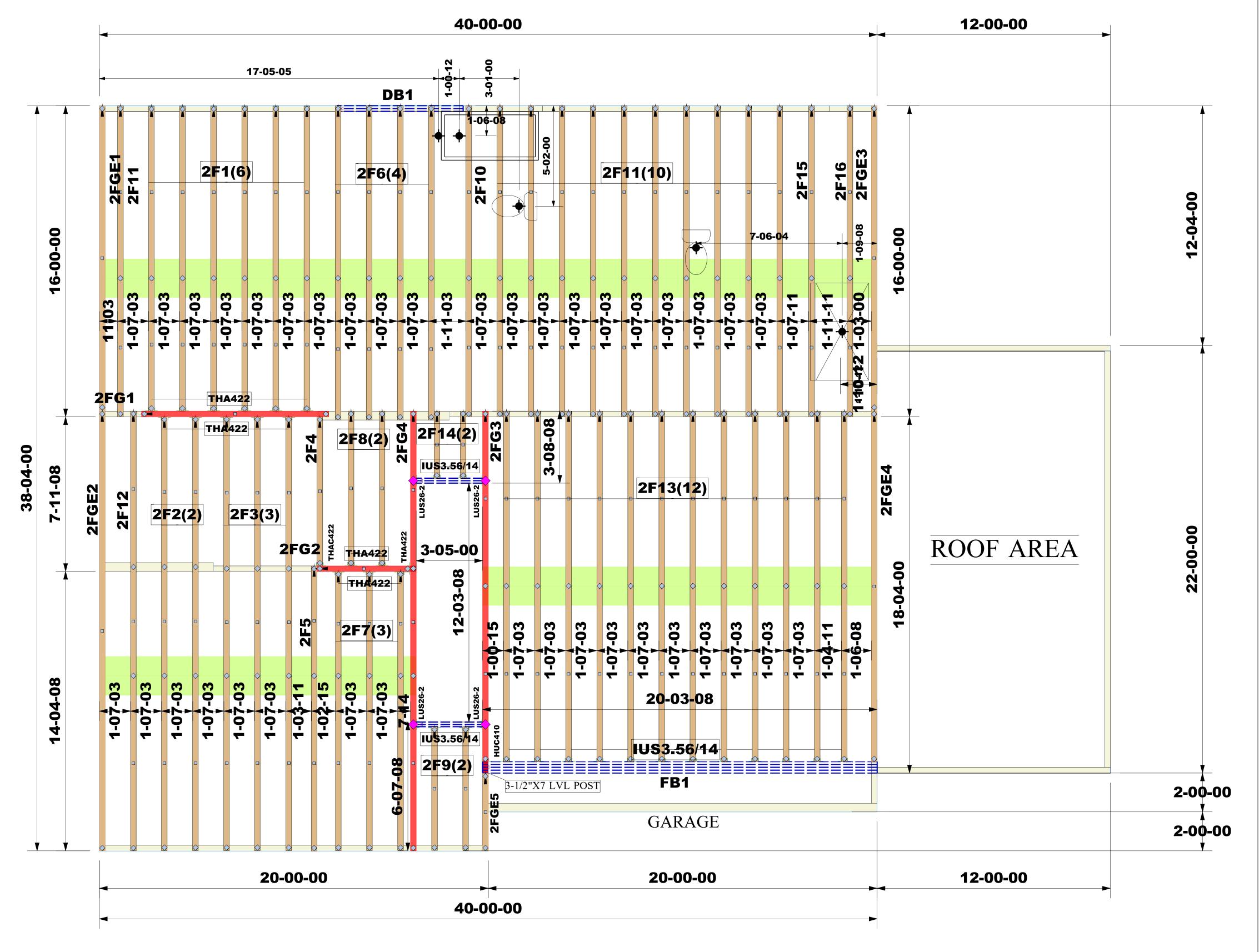
FIRST FLOOR FRAMING



Job #: 2505-7438	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 DESIGNER, FLET 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	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: Blake Pond Lot 00.0131 OWF	Third-Party Qu
Designer: Savvy Nath	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 #: 00.0131	Stru 201 Po Thurmo
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: Burton Rev. 2	Phone:



SECOND FLOOR FRAMING



*EXTERIOR DIMENSIONS ARE
TO STUD.
*INSTALLATION OF STRONGBACKS
RECOMMENDED (NOT REQUIRED).
*INSTALL 2X4 NAILERS ON ALL TOP RIBBON
NOTCH CONDITIONS.

BLAKE POND LOT 00.0131 (NC)(RAL) BURTON REV.2 EL. 4 OPT.CRAWLSPACE GARAGE RIGHT

*TRUSSES @ 19.2" O.C U.N.O

Truss Connector Total List

Manuf Product Qty

Simpson HUC410 1

Simpson IUS3.56/14 16

Simpson LUS26-2 4

Simpson THAC422 1

Simpson THA422 17

Simpson SDW22634 60

SDW22634 FOR 4-PLY LVL PLY-TO-PLY CONNECTION

3111psoir 3D W 22034 00

		Products		
PlotID	Length	Product	Plies	Net Qty
DB1	8-00-00	1 3/4" x 9 1/2" (2.0E 3100) LVL	2	2
FB1	22-00-00	1 3/4" x 18" (2.0E 3100) LVL	4	4

Job #:	WARNING:	NOTE:
2505-7438	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 DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC	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 BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.
Designer:	APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMATION.	THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN
Savvy Nath	TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS. THEY	RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS
Sales Rep:	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.
Robbie Zarobinski		

Customer: DRB Raleigh

Job Name: Blake Pond Lot 00.0131 OWF

Lot #: 00.0131

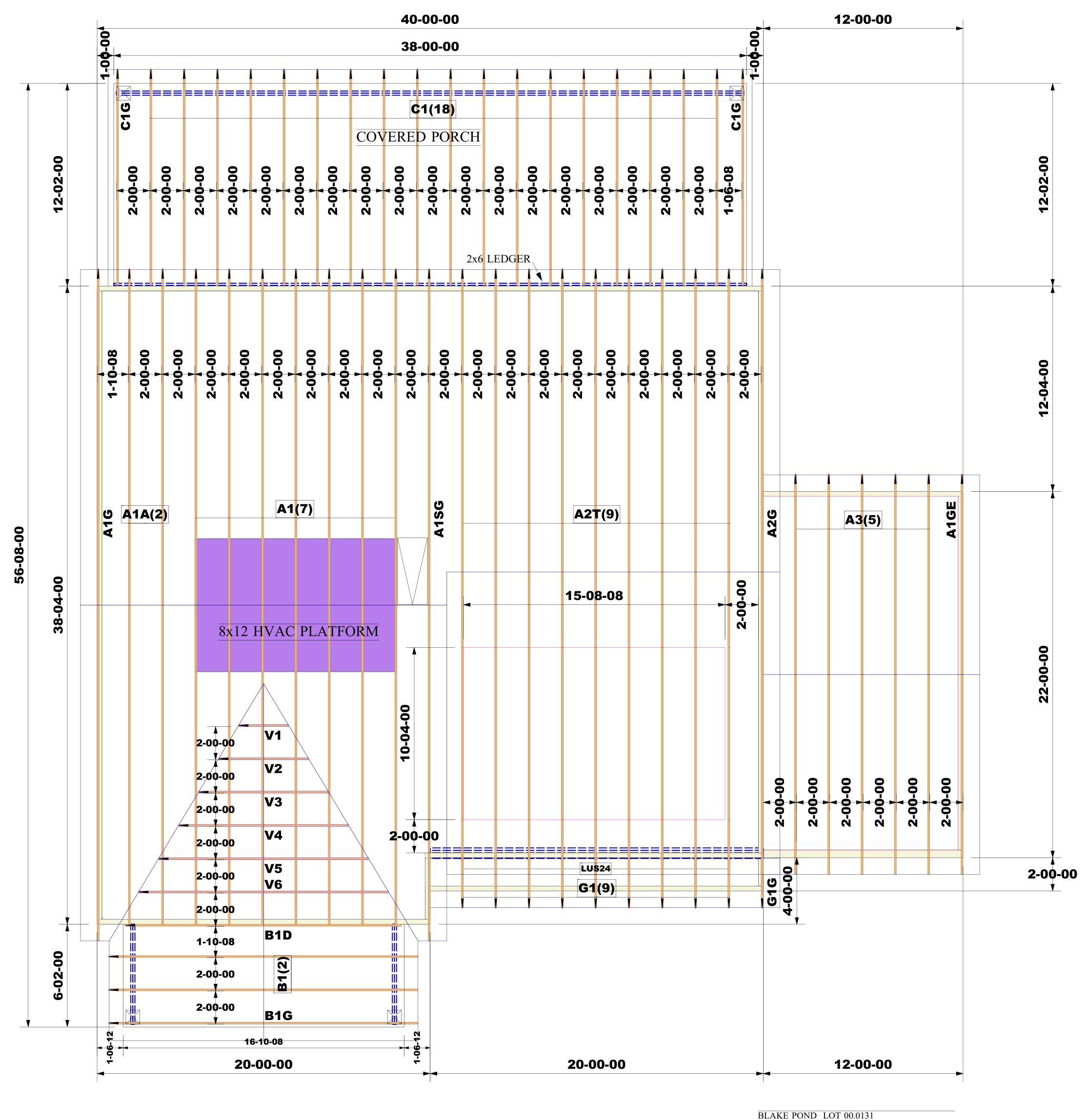
Model Name: Burton Rev. 2

Third-Party Quality Assurance Licensee
TPI Plant W974

Structural, LLC
201 Poplar Avenue
Thurmont, MD 21788
Phone: 301-271-7591



ELEV. 4



*EXTERIOR DIMENSIONS ARE
TO STUD.

*TRUSSES @ 2' O/C U.N.O.

*INSTALL SIMPSON One H2.5A HURRICANE
ANCHOR AT EACH BEARING POINT.

Truss Connector Total List

Manuf Product Qty

Simpson LUS24 11

Simpson One H2.5A 130

(NC)(RAL)
BURTON REV.2
EL. 4
OPT.COVERED PORCH
OPT.TRAY CEILING OWNER'S BEDROOM
OPT.GARAGE 3 CAR FRONT ENTRY
GARAGE RIGHT

