BENSON II

HARRINGTON PLACE LOT 0018



PLAN ID 110122.0101

PAGE #

A5.1, A5.2,

A5.2.1,A7.2,

110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

DATE

12/9/2022

BY

ΑW

DRAWING INDEX COVER SHEET A0.0 FRONT ELEVATIONS A1.1 SIDE & REAR ELEVATIONS A2.1 **SLAB FOUNDATION** A3.1 A5.1 FIRST FLOOR PLANS & DETAILS A5.2 SECOND FLOOR PLANS & DETAILS **ROOF PLANS** A6.1 A7.2-A7.3 **ELECTRICAL PLANS**

AREA TABULATION		
FIRST FLOOR	726	
SECOND FLOOR	1087	
TOTAL	1813	
GARAGE	408	
FRONT PORCH (COVERED)	76	
REAR PATIO	120	

			A7.3, A7.3.1
9/21/2023	BB	Removed tub and shower sizes from all affected pages	A5.2, A5.2.1
			l

PLAN REVISIONS

REVISION

Prototype walk revisions - see revision sheet

GOVERNMENTAL CODES & STANDARDS

HOME TO BE BUILT TO CONFORM TO ALL APPLICABLE LOCAL CODES, PRACTICES AND STANDARDS

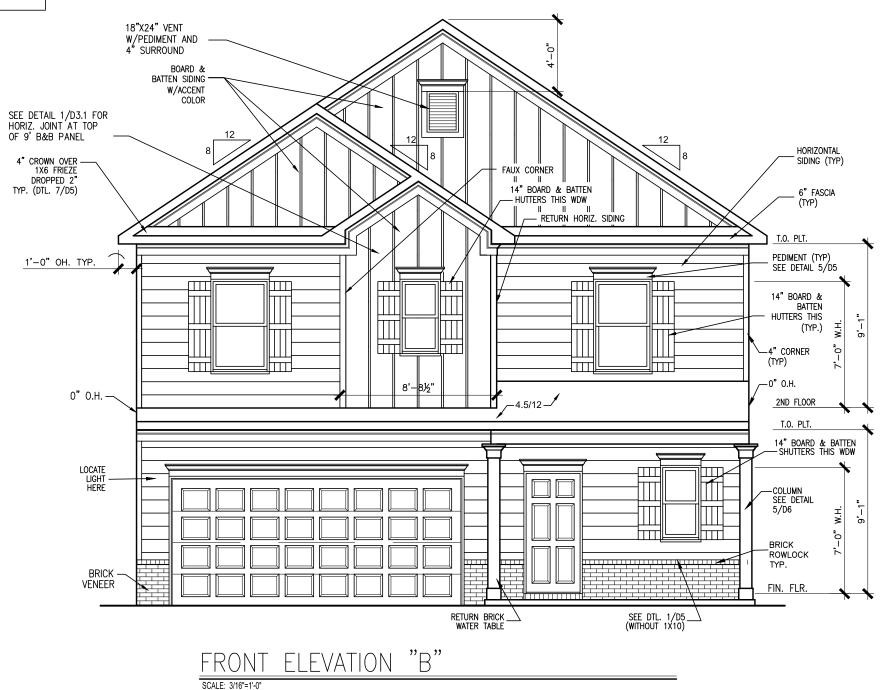
BUILDING CODE ANALYSIS / DESIGN CRITERIA

HOME TO BE BUILT TO MEET OR EXCEED ALL LOCAL CODES AND DESIGN CRITERIA

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

HARRINGTON PLACE LOT 0018

SEE SHEET D3 OF SDH TYPICAL DETAILS FOR SOFFIT DETAILS PER SOFFIT MATERIAL



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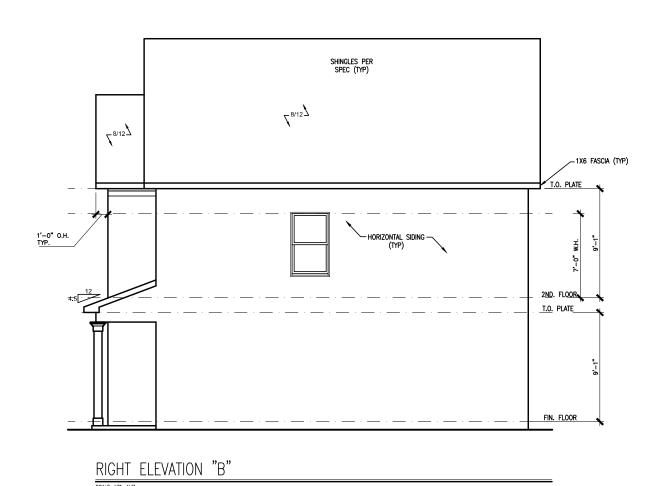
ELEVATIONS FRONT ELEVATION BENSON II

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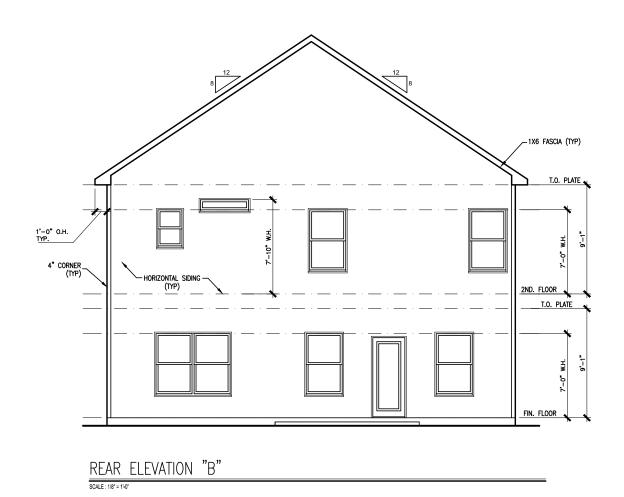
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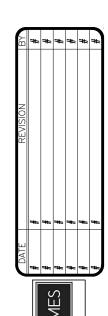


SHINCLES PER SPEC (TYP) TO. PLATE HORZONTAL SIDNIG ZND. FLOOR 12 4.5 FIN. FLOOR LEFT ELEVATION "B" SOUR TIP = 10"



HARRINGTON PLACE LOT 0018



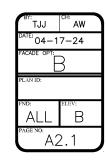


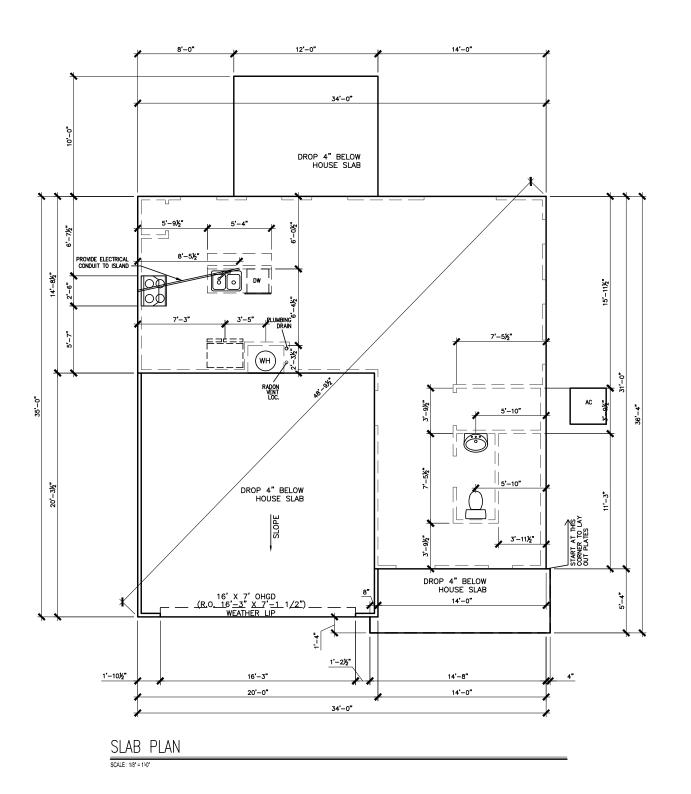


SIDES AND R
BENSON

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*RADON VENT PROVIDED PER LOCAL CODE

REFER TO DETAIL 3/D1
FOR BRICK LEDGE
DETAIL WHEN BRICK
VENEER IS CHOSEN

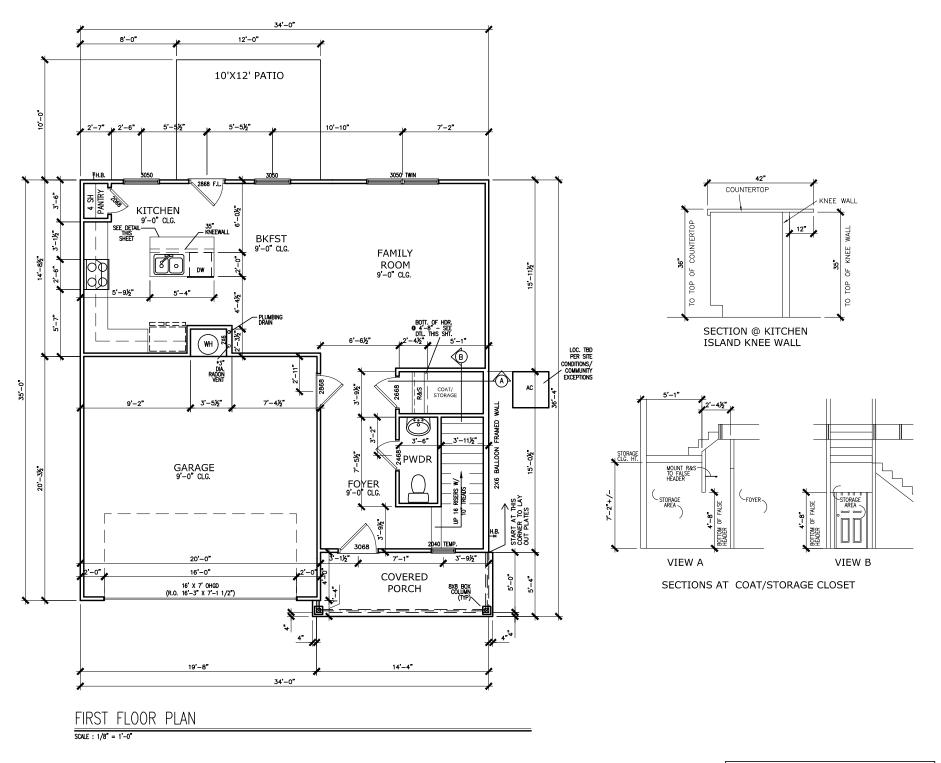




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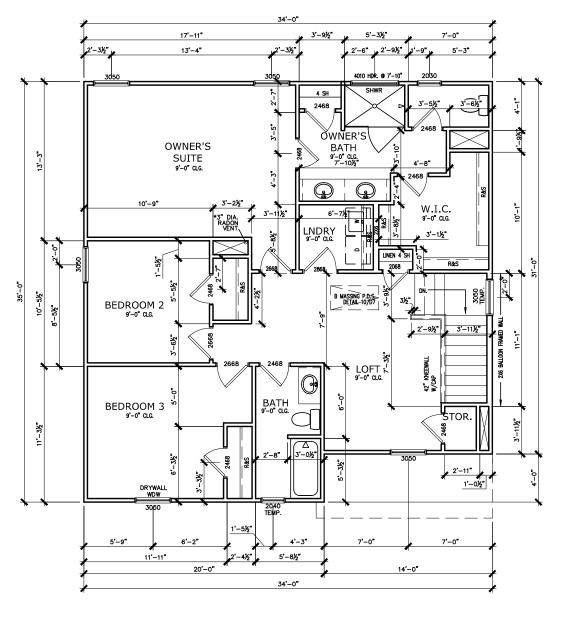




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SECOND FLOOR PLAN

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

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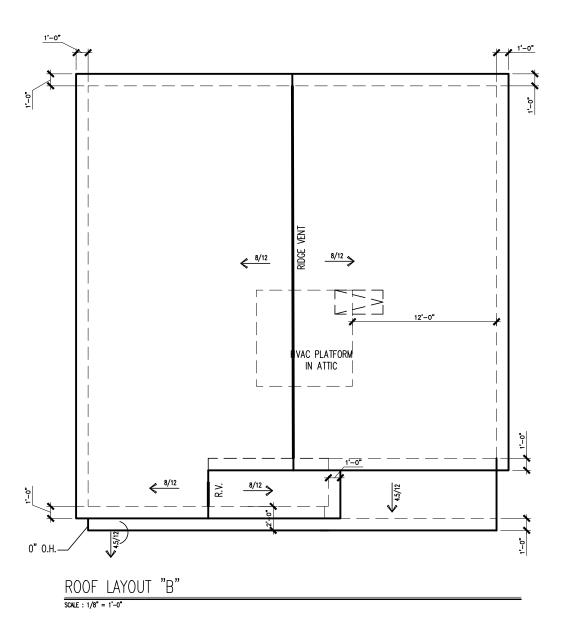
REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12, D12.1, D12.2 & D12.3

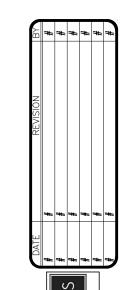


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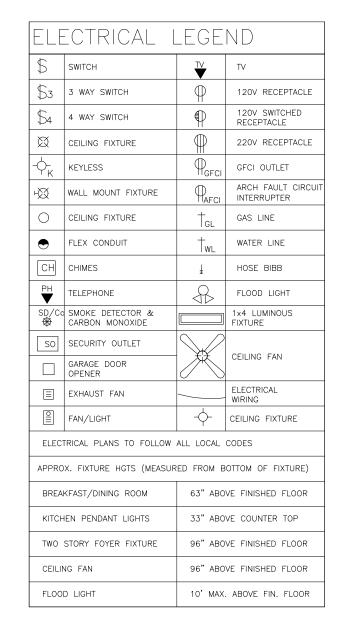


ROOF PLAN ROOF PLAN BENSON II

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NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER

	10'X12' PATIO		
DO NOT INSTALL 220V OUTLET UNLESS ELEC. RANGE SELECTED GFCI GFCI	HEN .	FOYER PWDR COVERED	TV WP GFC AC T/GE WP GFC AC AC SWITCH- ARV.
6'-4" HT. 💢		PORCH GFCI	

FIRST FLOOR ELECTRICAL PLAN

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

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ELECTRICAL PLAN FIRST FLOOR BENSON II

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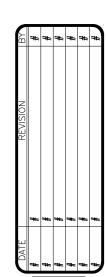
OWNER'S SUITE OWNER'S BATH W.I.C. BEDROOM 2 STOR. BEDROOM 3

SECOND FLOOR ELECTRICAL PLAN SCALE: 1/8" = 1740"

HARRINGTON PLACE LOT 0018

ELECTRICAL LEGEND				
\$	SWITCH	ŢV	TV	
\$3	3 WAY SWITCH	φ	120V RECEPTACLE	
\$4	4 WAY SWITCH	•	120V SWITCHED RECEPTACLE	
Ø	CEILING FIXTURE	•	220V RECEPTACLE	
-ф _к	KEYLESS	P _{GFCI}	GFCI OUTLET	
ΗØ	WALL MOUNT FIXTURE	Pafci	ARCH FAULT CIRCUIT	
0	CEILING FIXTURE	† _{GL}	GAS LINE	
•	FLEX CONDUIT	T _{WL}	WATER LINE	
СН	CHIMES	¥	HOSE BIBB	
PH	TELEPHONE	B	FLOOD LIGHT	
SD/Co	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE	
SO	SECURITY OUTLET		05111110 5411	
	GARAGE DOOR OPENER		CEILING FAN	
	EXHAUST FAN		ELECTRICAL WIRING	
0	FAN/LIGHT		CEILING FIXTURE	
ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES				
APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)				
BREA	KFAST/DINING ROOM	63" ABOVE FINISHED FLOOR		
KITCHEN PENDANT LIGHTS		33" ABOVE COUNTER TOP		
TWO STORY FOYER FIXTURE		96" ABOVE FINISHED FLOOR		
CEILING FAN		96" ABOVE FINISHED FLOOR		
FLOOD LIGHT		10' MAX. ABOVE FIN. FLOOR		

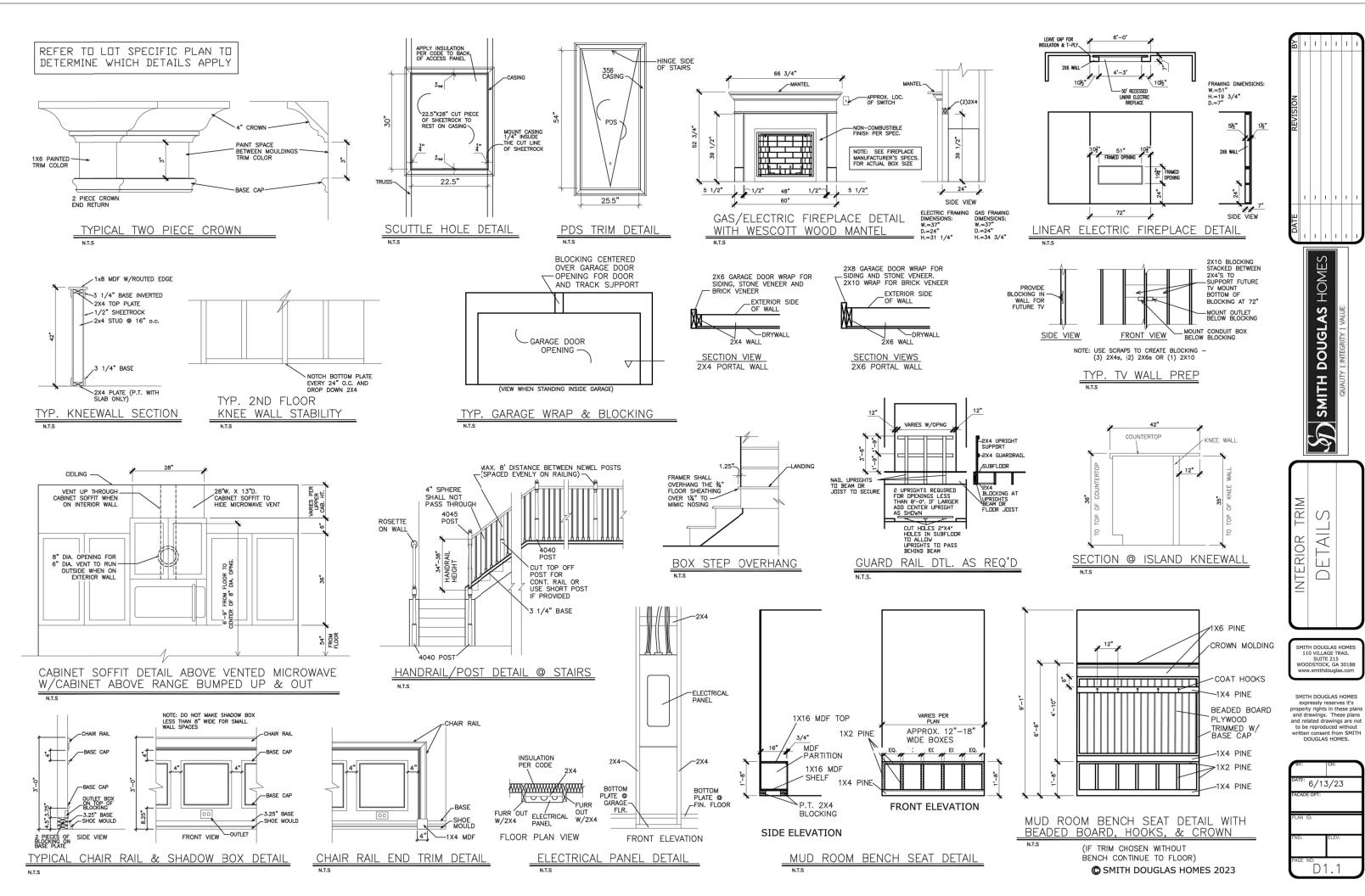
NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER





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

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAIL5	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PL. TO JOIST/RIM OR BLK'G	NAILS @ 4" o.c.	NAILS @ 4" o.c.
STUD TO PLATE	(4) TOENAILS/ (3)END NAILS	(4) TOENAILS/ (4)END NAILS*
RIM TO TOP PLATE	TOENAILS @ 6" o.c.	TOENAILS @ 4" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS EA. END	(3) TOENAILS EA. END*
DOUBLE STUD	NAILS @ 16" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE	NAILS ❷ 12" o.c.	NAILS @ 8" o.c.
DOUBLE TOP PLATE LAP SPLICE	(I2) NAILS IN LAPPED AREA (24" MIN.)	(15) NAILS IN LAPPED AREA (24" MIN.)
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(3) NAILS	(3) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS + (I) SIMPSON H2.5T	(4) TOENAILS + (I) SIMPSON H2.5T
GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" o.c.	TOENAILS @ 6" o.c.
R.T. w/ HEEL HT. 91/4" TO 12"	2xIO BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 6" O.C.	2xIO BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2xI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2xI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. W/ DBL. TOP PL. \$ INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C.	LAP WALL SHTG. W/ DBL. TOP PL. \$ INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG, W DBL. TOP PL. & INSTALL ON TRUSS VERT FASTEN W NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL	LAP WALL SHTG, W DBL. TOP PL. 4 INSTALL ON TRUSS VERT FASTEN W NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL*
WALL TO FOUNDATION	WALL SHTG. LAP W/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.	
* OKINO IIR IG AN ACCEPTABLE AL	TEDNIATIVE TO A 3"VO IOO" GAME GE	DACING OF NIMBER OF NAILS

* 2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. ONLY ACCEPTABLE WHERE * ARE SHOWN)

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.
MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO MEK FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALL ATION

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

- A. ROOF TRUSSES: I/4" DEAD LOAD
- B. ATTIC TRUSSES, & I-JOISTS:
- 1/8" DEAD LOAD

ABSOLUTE DEAD LOAD DEFECTION OF ATTIC TRUSSES WHEN AD JACENT TO ELOOR FRAMING BY OTHERS SHALL BE LIMITED TO 3/16". (NOT DIFFERENTIAL

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"x%;"
8'-0"	3 FT. MAX	L4"x4"x¼" *
	I2 FT. MAX	L5"x3½"x¾"
	I6 FT, MAX	L6"x3½"x¾"
9'-6"	I2 FT. MAX	L6"x3½"x¾"

L LINICLES: SHALL SUPPORT 2 %' - 3 ½' VENEER W 40 psf MAXIMUN 16' SHALL HAVE 4' MIN. BEARING 16' SHALL HAVE 8' MIN. BEARING 16' SHALL NOT DE FASTENED BACK TO HEADER.

« 6º HALL BOT BE FASTIBED BACK TO HEADER.
« 6º HALL BE FASTIBED BACK TO HEADER.
» 6º HALL BE FASTIBED BACK TO HOOD HEADER IN HALL 646°02. W/5' DIA x 3 J/5' LONG LAS SCREEN IN 2' LONG VERTICALLY SOFTED HOLES.
• 6º HANC LE FASTIBED TO HEADER OF HOUSE OF HEADER OF HOUSE OF HEADER OF HOUSE OF HOUS

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NGSBG-RESIDENTIAL CODE & 2018 IRC WITH SOUTH CAROLINA AMENDMENTS
- FOOTING DESIGN 2,000 PSF NET ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2×4/6 SILL PLATES TO CONC 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
- FA4 ANCHOR STRAPS @ 6'-0" O.C
- FASTEN 2xIO SILL PLATES TO PRECAST BSMT WALLS WITH A MINIMUM OF 2 ANCHORS PER PLATE, I2" MAX. FROM PLATE ENDS UTILIZING: • I/2" DIA. BOLTS @ 2'-0" O.C
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W PERIMETER FOUNDATION 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.
- FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: f'c = 4,000 psi: FOUNDATION WALLS 3,000 psi: FOOTINGS & INTERIOR SLABS ON GRADE
 - 3,500 psi: GARAGE & EXTERIOR SLABS ON GRADE = 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
 - . 8' OR 9' HEIGHT (AS NOTED ON PLANS) TALLER WALLS MUST BE ENGINEERED.
- BASEMENT WALL DESIGN IS BASED ON 30 OR 45 PCF BACKFILL SOIL TYPE CLASSIFICATIONS:
 - 30 PCF TYPE (GW, GP, SW, SP) 45 PCF TYPE (GM, GC, SM, SM-SC, ML)
- IMPORTANT IF 60 PCF SOIL TYPE (SC, ML-CL, OR CL) IS UTILIZED FOR BACKELL CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN.
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL Ist FLOOR DECK.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW
- 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:I.5 RATIO
 - · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- TYPICAL REINFORCEMENT DETAILS: PROVIDE 3" MIN. CLEAR COVER WHERE CAST AGAINST EARTH, I 1/2" MIN. CLEAR COVER AGAINST FORMS. LAP ALL REBAR 40 BAR DIAMETERS MIN. (24" FOR #4 BARS) & BEND BARS AND LAP AT CORNERS. PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT
- DIMENSIONS BY OTHERS BUILDER TO VERIEY.

LEGEND

R.T. NDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)

INDICATES I4" DEEP FLOOR I-JOISTS @ 24" O.C MAX. JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER NOTE: I4" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS

- INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE (B.W.A.)

- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

ATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:)MPH WIND IN 2018 NCSBC:R(

\$ 120MPH WIND IN 2018 IRC (120 MPH WIND SPEED IN ASCE 7

WIND MAP PER IRC R301211) EXP. B. RISK CAT. 2 & SEISMIC CAT. A/B.

HE DESIGN WAS COMPLETED PER 2015 \$ 2018 IBC ECTION 1609) & ASCE 7. AS PERMITTED BY R301.1.3 OF THE 2018 NOSBO:RC & 2018 IRC. 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 (ACCEPTED) ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC & 2018 IRC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & FNGINFFRED TO RESIST THE WIND UPLIET LOAD PATH PER SECTIONS R602.3.54 R802.II.

EXT. WALL SHEATHING SPECIFICATION

- •7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3"XO.II3 NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N.O.)
- ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT STAPLE CONNECTION SPEC: 1 3/4" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD.

3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 2 3" x 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE FIELD NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) 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: EASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWALL, AND/OR 3" O.C. EDGE NAILING

INDICATES HOLDOWN

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)2×4
UP TO 8'-0"	(2)2×6	(3)2x6

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

FLOOR FRAMING

- I-JOISTS SHALL BE DESIGNED BY MANUF, TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR WET BED CONSTRUCTED FLOORS - CONTACT M&K FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER "DESIGN
- FLOOR SYSTEMS & SHEATHING HAVE BEEN DESIGNED TO SUPPORT ADDITIONAL DEAD LOAD FROM CERAMIC TILE (EXCLUDING MARBLE OR STONE). HOWEVER, IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO PROVIDE PROPER UNDERLAYMENT, UNCOUPLING MEMBRANE AND MORTAR/GROUT PER THE ASSEMBLY DESIGNATION IN THE TONA HANDBOOK (TILE COUNCIL OF NORTH AMERICA).
- AT I-JOIST FLOORS, PROVIDE I" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O. I-JOIST SHOP DWGS. SHALL BE SUBMITTED TO ARCH. & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- 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 f" x 0,131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD - 2 🖥 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD.
- 2 🖁 × 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.

ROOF FRAMING

- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - W/ 2 ½" × 0.131" NAILS • 6"o.c. • PANEL EDGES € • 12" O.C. FIELD.
- w/ 2 🖁 × 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD. - W/2 🖁 × 0.113" NAILS @ 3"O.C. @ PANEL EDGES & @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC
- FASTEN EACH ROOF TRUSS TO TOP PLATE W USP RTTA CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) RT7A CLIPS AT 2-PLY GIRDER TRUSSES, (3) RT7A CLIPS AT 3-PLY
- GIRDER TRUSSES & ROOF BEAMS AT ALL BEARING POINTS METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.C
- ROOF TRUSS SHOP DWGS. SHALL BE SUBMITTED TO ARCH & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT SHORT SPAN ROOF TRUSSES w/2x4 LEDGER FASTENED TO FRAMING w/(2) 3" x 0.120" NAILS @ 16" O.C. (UP TO 7' SPAN)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS 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

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN 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 MAY BE WITHIN CONTRACTUAL INDUSTRY OR WARRANTY TO FRANCES

GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NCSBC-RESIDENTIAL CODE \$ 2018 IRC WITH SOUTH CAROLINA AMENDMENTS
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

 DESIGN LOADS: LIVE = 20 PSF DEAD = 7 PSF T.C., 10 PSF B.C. ROOF

LOAD DURATION FACTOR = 1.25 FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS)

ADD'L IO PSF @ CERAMIC TILE IN BATHS & LAUND.

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 (IRC TABLE R602.3(1)) 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.
- EXT. & INT. BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SPF/SP "STUD" GRADE LUMBER, OR BETTER, U.N.O...

 • WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED W. GYP WALL BOARD (ONE SIDE MIN.) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SP) LUMBER, OR BETTER. SUPPORT ALL HEADERS/ BEAMS W (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 NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED

(1)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'.

- WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX., U.N.O.)

 HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- PENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING: • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10^6 psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING: "LVL" - Fb=2400 psi; FcII=2500 psi; E=I.8xI0^6 psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 134" MAX, WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS 8" O/C OR 2 ROWS LISP WS35 SCREWS (OR 3/4" TRUSSI OK SCREWS) @ 16" O/C, LISE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 ½" OR 5 ¼" BEAMS ARE ACCEPTABLE USE 2 ROWS OF NAILS FOR 2x6 & 2x8
- FOR 4 PLY BEAMS OF FOUAL 13/4" MAX WIDTH FASTEN PLIES TOGETHER WITH 3 ROWS OF USP WS6 SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF I4" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS
- CONTINUOUS TO FND./BEARING. BLOCKING TO MATCH POST ABOVE. ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE USP BCS22-4 CAP & PA44E BASE, U.N.O.
- CORROSION NOTES
- BUILDER RESPONSIBLE TO DETERMINE CORROSION-RESISTANCE REQUIREMENTS AND COMPATIBILITY OF HARDWARE, FASTENERS AND CONNECTORS FOR ENVIRONMENTAL EXPOSURE AND IN CONTACT W/ PRESERVATIVE-TREATED WOOD OF ACTUAL FINAL CONDITIONS AND SOURCED MATERIALS. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- ALL FASTENERS AND CONNECTORS EXPOSED TO SALT WATER (WITHIN 300' OF SALT WATER SHORELINE, INCLUDING VENTED SPACES) SHALL BE STAINLESS STEEL.

-larrington

MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI (Svay, Stitle 165 v maffemikaja smr

C-3825 #

lulhern+Kulp project numbe 256-22019

SMK RAF ssue date: 01.13.2023

initial:

REVISIONS

SMITH DOUGL HOMES

STRUCTURAL NOTES MOD

H WIND ZONE CAROLINA BENSON 120 MPH NORTH (

GENERAL



MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINERRINS

1905 Breutside Betwey, Salte 1905 - Algher 1979-77-4974 - medhenkapeans NC License # C-3825

Aulhern+Kulp project number 256-22019

SMK RAP issue date: 01.13.2023

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initial:

SMITH DOUGLAS HOMES

MODEL

BENSON

120 MPH WIND ZONE NORTH CAROLINA

FOUNDATION

MONO-SLAB

REFER TO SO.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

RT. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

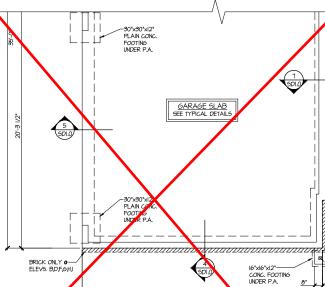
INDICATES 14" DEEP FLOOR I-JOISTS © 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER

- JOIST MANUFACTURER SHALL DESIGN FLOOR - SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE

• □===□ BEARING WALL ABOVE (B.W.A.)

• — BEAM/HEADER

• * INDICATES POST ABOVE (P.A.) PROVIDE SOLID



PARTIAL MONO-SLAB FOUNDATION PLAN SCALE: 1/4"=1'-0" ON 22x34 1/8"=1'-0" ON 11x17

OPT. SIDE ENTRY GARAGE ALL ELEVS, SIM. SEE BASE ELEV, FOR ADD'L INFO

_ot 18

OF INDICATES TRUSS OVERFRAMING OF 24" O.C. (TYP. U.N.O.)

NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

• JL METAL HANGER

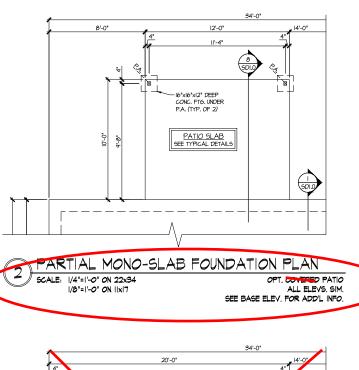
MONO-SLAB FOUNDATION PLAN SCALE: |/4"=|'-0" ON 22x34 |/8"=|'-0" ON ||x|7

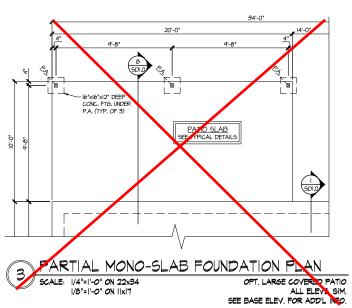
SLAB-ON-GRADE SEE TYPICAL DETAILS

19'-8 1/2"

(5DI.0)

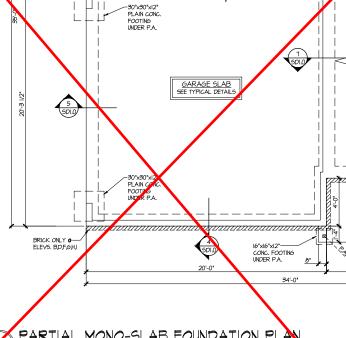
BRICK ONLY @ ELEVS. "B, D, F, G, H, I"





-16"x16"x12" CONC. FOOTING UNDER P.A.

ALL ELEVS. SIM.

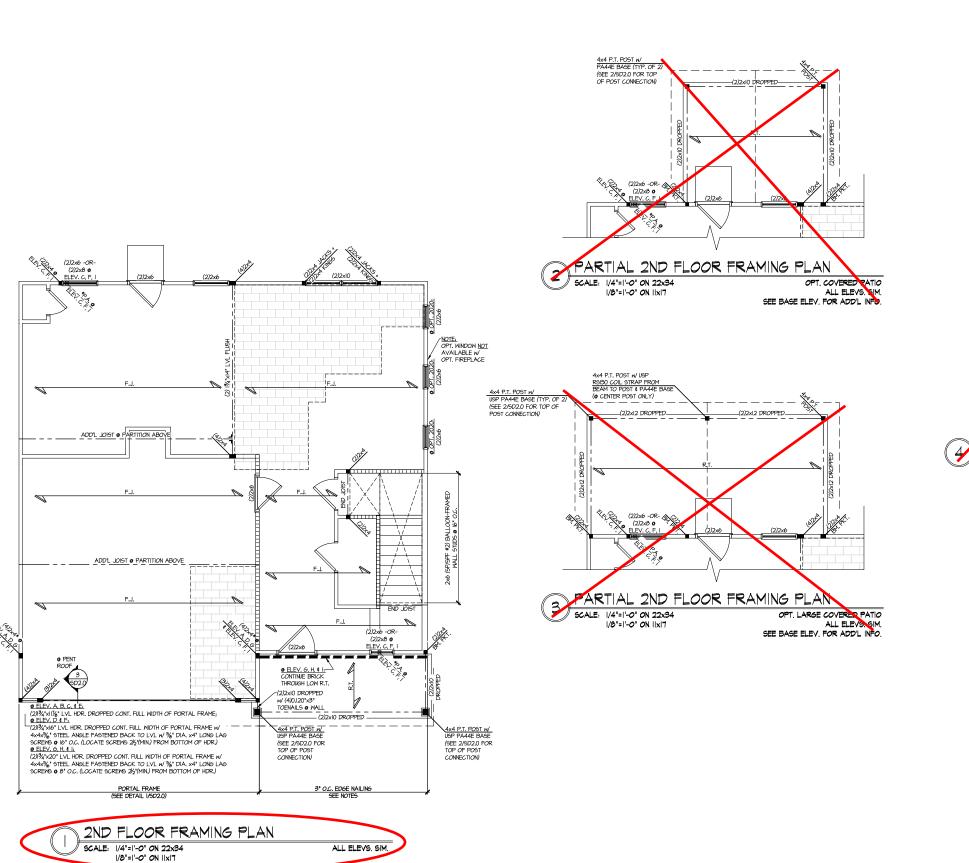


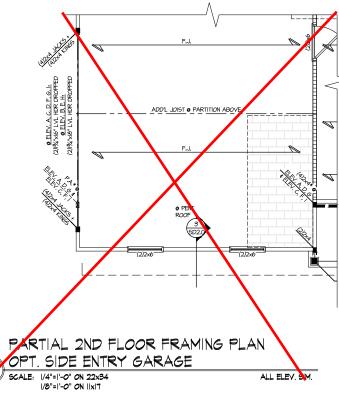
Harrington

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR

• IIIIIII INTERIOR BEARING WALL

BLOCKING UNDER POST OR JAMB ABOVE.





Harrington _ot 18

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

RT. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

O.F. INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)

INDICATES 14" DEEP FLOOR I-JOISTS © 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR JOIST MANUFACTURER SHALL DESIGN FLOOR

SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE

INTERIOR BEARING WALL

● □□□□□ BEARING WALL ABOVE (B.W.A.)

BEAM/HEADER

• JL METAL HANGER

INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

7/14/23

MULHERN+KULP
RESIDENTIAL STRECTORAL ENGINEERINS 1905 Brackside Perkwey, Suite 1905 - Alpha 1978-777-4874 - medianikajanen NC License # C-3825

lulhern+Kulp project number 256-22019

SMK RAF issue date: 01.13.2023

REVISIONS: initial:

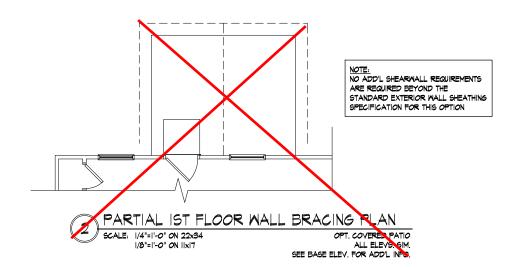
SMITH DOUGLAS HOMES

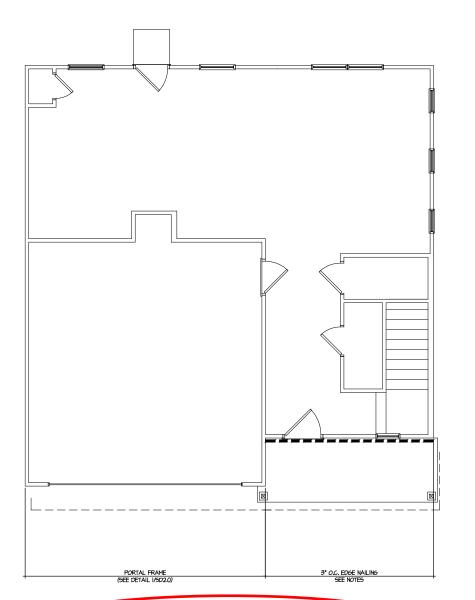
PLAN

MODEL FRAMING FLOOR BENSON 2ND

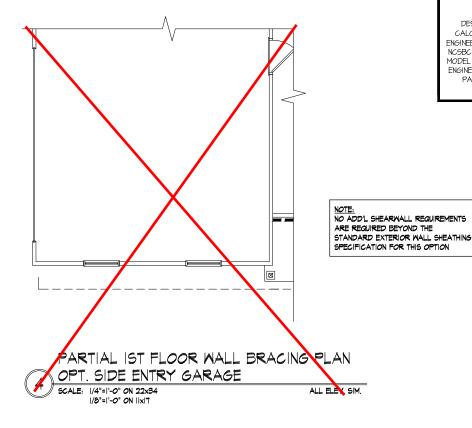
120 MPH WIND ZONE NORTH CAROLINA

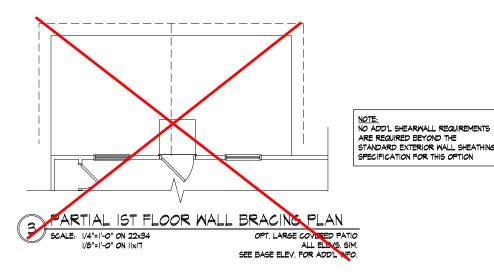
S2.0M





IST FLOOR WALL BRACING PLAN SCALE: 1/4"=1'-0" ON 22x34 1/8"=1'-0" ON 11x17 ALL ELEVS, SIM,





SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:

OMPH WIND IN 2018 NCSBC:R # 120MPH WIND IN 2018 IRC

(120 MPH WIND SPEED IN ASCE 7 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 \$ 2018 IBC (SECTION 1609) & ASCE 7, AS PERMITTED BY R301.1.3 F THE 2018 NCSBC:RC & 2018 IRC. 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 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC & 2018 IRC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

_ATERAL/WALL BRACING & WALL

7/16" 05B OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3"x0.113 NAILS @ 6" O.C. A EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N.

ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS, AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE

EXT. WALL SHEATHING SPECIFICATION

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

 ALT STAPLE CONNECTION SPEC. 1 3/4" 16 GA STAPLES (1/6" CROWN) • 3" O.C. AT EDGES \$ • 6" O.C IN FIELD.

3" O.C. EDGE NAILING

• AT DESIGNATED AREAS - FASTEN PANEL EDGES OF MOOD STRUCTURAL WALL SHEATHING TO FRAMING W 2 3 × 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE
AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING
- PRE-MANUFACTURED PANELIZED WALLS:
 FASTEN TOGETHER END STUDS OF WALL PANELS
 SHEATHED W/ OSB OR PLYWOOD W/3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB
SHEARWALL, AND/OR 3" O.C. EDGE NAILING

NDICATES HOLDOWN

Harrington ot 18

THIS LEVEL HAS BEEN DESIGNED FOR 9'-I" PLATE HEIGHT

REFER TO 50.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

R.T. NDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

OF. INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)

F.J. NDICATES 14" DEEP FLOOR 1-JOISTS @ 24" O.C.
MAX, JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX, IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE ELOOR - JOIST MANUFACTURER SHALL DESIGN FLOOR - SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE

INTERIOR BEARING WALL

• □□□□□ BEARING WALL ABOVE (B.W.A.)

BEAM/HEADER

• JL METAL HANGER

INDICATES POST ABOVE (P.A.) PROVIDE SOLID

7/14/23

Structural Engin

MULHERN + KULP RESIDENTIAL STRUCTURAL ENSINERING SESSENCIAL PARAMETERS - Aphrens, 84,3002 9.719-771-471 - mathematican NC License # C-3825



Aulhern+Kulp project number 256-22019

SMK RAF ssue date: 01.13.2023

REVISIONS: initial:

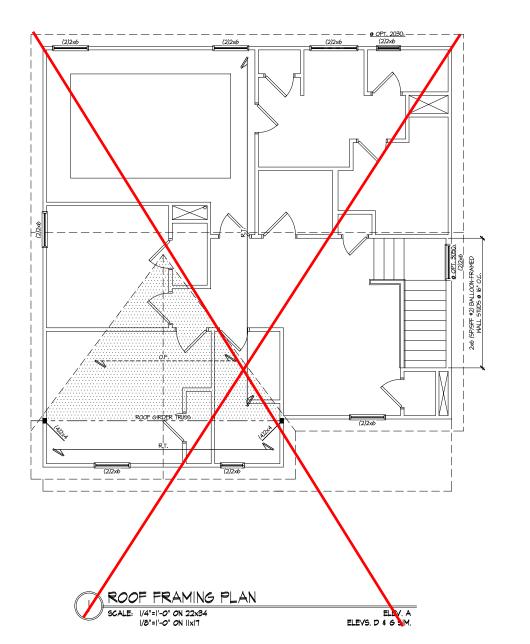
SMITH DOUGLAS HOMES

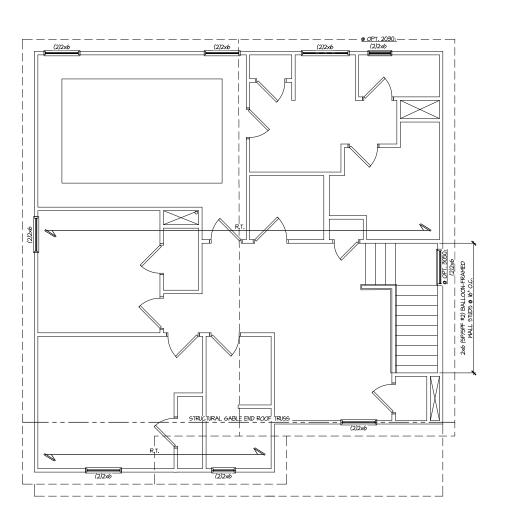
PLAN BRACING MODE WALL

120 MPH WIND ZONE NORTH CAROLINA BENSON

S

FLOOR









Mulhern+Kulp project number:

256-22019 SMK

RAP issue date: 01.13.2023

initial:

SMITH DOUGLAS HOMES

Harrington

THIS LEVEL HAS BEEN DESIGNED FOR 9'-I" PLATE HEIGHT

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

Lot 18

LEGEND

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F.J. INDICATES 14" DEEP FLOOR 1-JOISTS @ 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE
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NOTE: 14" FLOOR TRUSESS @ 24" O.C. MAX. IS AN
ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.

JOIST MANUFACTURER SHALL DESIGN FLOOR
F SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE
LOCATIONS.

OF INDICATES TRUSS OVERFRAMING (24" O.C. (TYP. U.N.O.)

** INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

INTERIOR BEARING WALL • □□□□□ BEARING WALL ABOVE (B.W.A.)

BEAM/HEADER

• JL METAL HANGER

PLAN

BENSON II MODEL

ROOF FRAMING

S3.0M

120 MPH WIND ZONE NORTH CAROLINA

SHEATHING SPECIFICATIONS

LATERAL FORCES RESULTING FROM:

<u>OMPH WIND IN 2018 NCSBC:R</u>

120MPH WIND IN 2018 IRC (120 MPH WIND SPEED IN ASCE 7 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 & 2018 IBC (SECTION 1609) & ASCE 7, AS PERMITTED BY R301.1.3 F THE 2018 NCSBC:RC & 2018 IRC. 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 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC & 2018 IRC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.54 R802.II.

_ATERAL/WALL BRACING & WALL

THIS MODEL HAS BEEN DESIGNED TO RESIST

FASTEN SHEATHING W/ 2 3"x0.113 NAILS @ 6" O.C. A EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N. ALL SHEATHING PANELS SHALL BE ORIENTED

VERTICALLY (LONG DIRECTION PARALLEL TO STUDS, AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE

7/16" OSB OR 15/32" PLYWOOD:

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

3" O.C. EDGE NAILING

• AT DESIGNATED AREAS - FASTEN PANEL EDGES OF MOOD STRUCTURAL WALL SHEATHING TO FRAMING W 2 3 × 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE 2 § X OIIB MALES 9 S OK. AND IZ OK. IN THE PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR MALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING
- PRE-MANUFACTURED PANELIZED WALLS:
 FASTEN TOGETHER END STUDS OF WALL PANELS
 SHEATHED W OSB OR PLYWOOD W 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB
SHEARWALL, AND/OR 3" O.C. EDGE NAILING

INDICATES HOLDOWN

Harrington ot 18. THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

REFER TO 50.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR JOIST MANUFACTURER SHALL DESIGN FLOOR

SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE

● □□□□□ BEARING WALL ABOVE (B.W.A.)

BEAM/HEADER

BLOCKING UNDER POST OR JAMB ABOVE.



MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERINS

1005 Bredside Perkvey, Suite 1865 - Alpha 1978-77-4874 - mathemical control NC License # C-3825



Aulhern+Kulp project number 256-22019

> SMK RAF

ssue date: 01.13.2023 REVISIONS:

initial:

SMITH DOUGLAS HOMES

PLAN

BRACING MODE WALL FLOOR BENSON 2ND

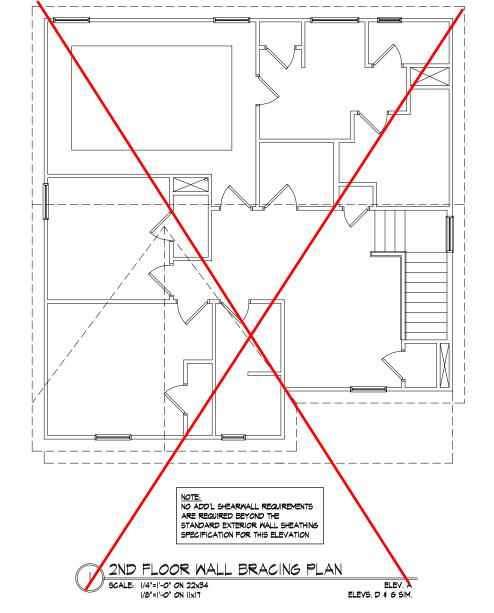
120 MPH WIND ZONE NORTH CAROLINA

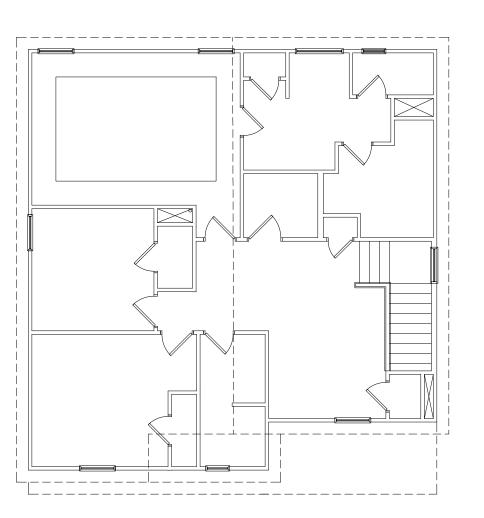
LEGEND R.T. NDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.) OF INDICATES TRUSS OVERFRAMING (24" O.C. (TYP. U.N.O.) INDICATES 14" DEEP FLOOR 1-JOISTS @ 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER

INTERIOR BEARING WALL

• JL METAL HANGER

INDICATES POST ABOVE (P.A.) PROVIDE SOLID

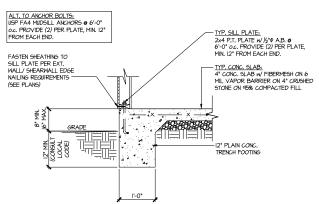


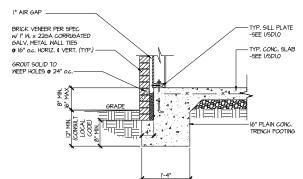


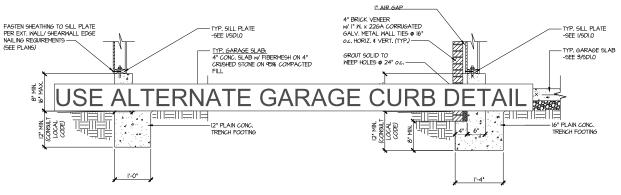
NOTE: NO ADD'L SHEARWALL REQUIREMENTS ARE REQUIRED BEYOND THE STANDARD EXTERIOR WALL SHEATHING SPECIFICATION FOR THIS ELEVATION

2ND FLOOR WALL BRACING PLAN SCALE: 1/4"=1'-0" ON 22x34 1/8"=1'-0" ON 11x17

ELEV. B ELEVS. E & H SIM.







OPT. BRICK (SEE ARCH FOR LOCATIONS)

FASTEN SHEATHING TO-SILL PLATE PER EXT.

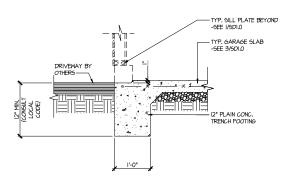
MALL/ SHEARWALL EDGE NAILING REQUIREMENTS (SEE PLANS)

⊈ P05T **€** FOOTING



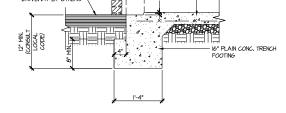


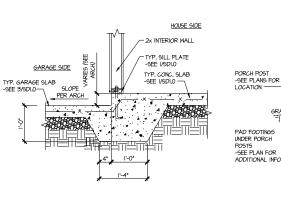




TYPICAL SLAB ON GRADE

PERIMETER FOOTING







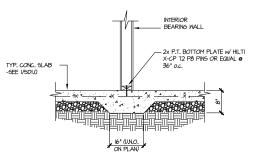
TYP. CONC.

SLAB -SEE I/SDI.0

TYPICAL SLAB ON GRADE GARAGE (5) ENTRY @ PERIMETER FOOTING







TYPICAL THICKENED SLAB @ 9 INTERIOR BEARING WALL



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Mulhern+Kulp project number: 256-22019

SMK RAF issue date: 01.13.2023

REVISIONS: initial:

SMITH DOUGLAS HOMES

MODEL FOUNDATION DETAILS

120 MPH WIND ZONE NORTH CAROLINA BENSON

SD1.0



August 18, 2023

Jody Hunt
Director of Product Development

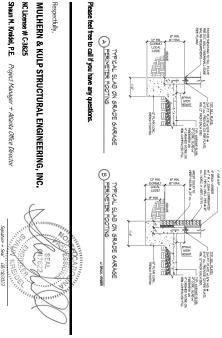
SMITH DOUGLAS HOMES

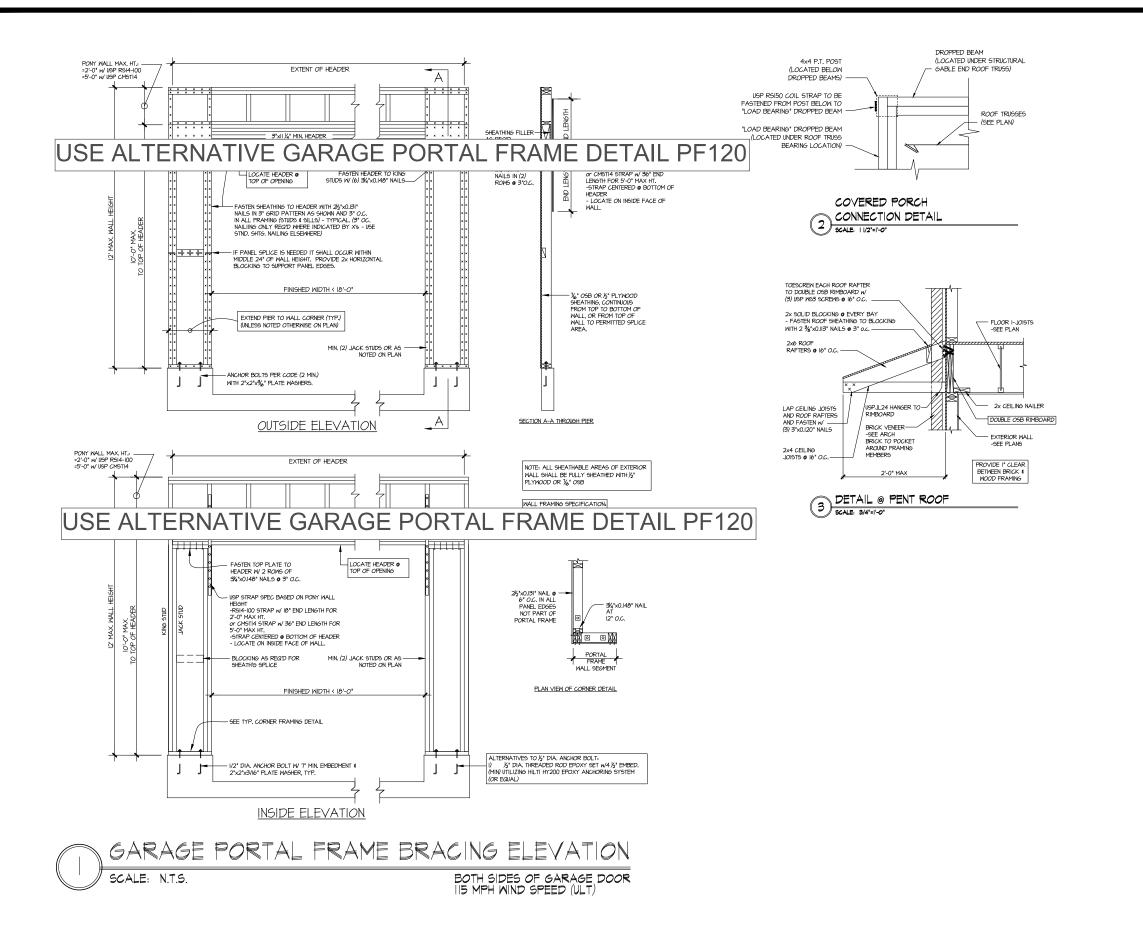
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Woodstock, CA 30188

ALTERNATE GARAGE CURB DETAIL Smith Douglas Homes







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Aulhern+Kulp project number 256-22019

SMK project mgr RAF issue date: 01.13.2023

REVISIONS:

initial:

SMITH DOUGLAS HOMES

MODEL

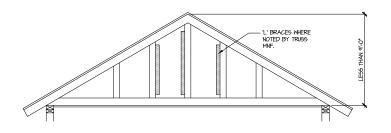
120 MPH WIND ZONE NORTH CAROLINA

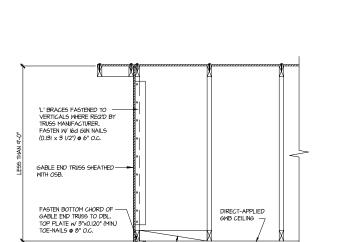
FRAMING DETAILS BENSON

Harrington

_ot 18

SD2.0

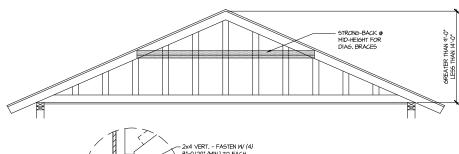


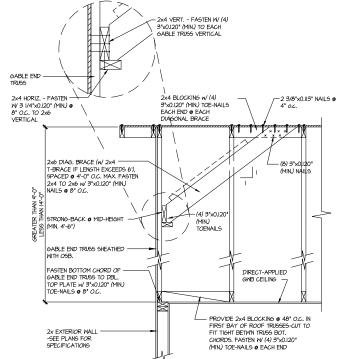


TYPICAL GABLE END BRACING DETAIL A TYPICAL SCALE: NONE

BRACE GABLE END TRUSGES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9'-O'. L' BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.

— PROVIDE 2x4 BLOCKING ● 48" O.C. IN FIRST BAY OF ROOF TRUSSES-CUT TO FIT TIGHT BETWIN TRUSS BOT CHORDS. FASTEN W (3) 3 U4"x0.120" (MIN.) TOE-NAILS ● EACH END





TYPICAL GABLE END BRACING DETAIL

SCALE: NOME REOT & GABLE END TRUSS

REOT & GABLE END TRUSS

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT EXCEEDS 9'-0'. 'L' BRACES NOT REQUIRED.

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

2x Exterior Wall - See Plans

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

> Harrington Lot 18

7/14/23 pyright : MULHERN & KULP Structural Engineering, Inc.

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NC License # C-3825

Mulhern+Kulp project number 256-22019

SMK RAP issue date: 01.13.2023

REVISIONS: initial:

SMITH DOUGLAS HOMES

BENSON II MODEL FRAMING DETAILS

120 MPH WIND ZONE NORTH CAROLINA

SD2.



July 28, 2023

Jody Hunt

Director of Product Development

SMITH DOUGLAS HOMES

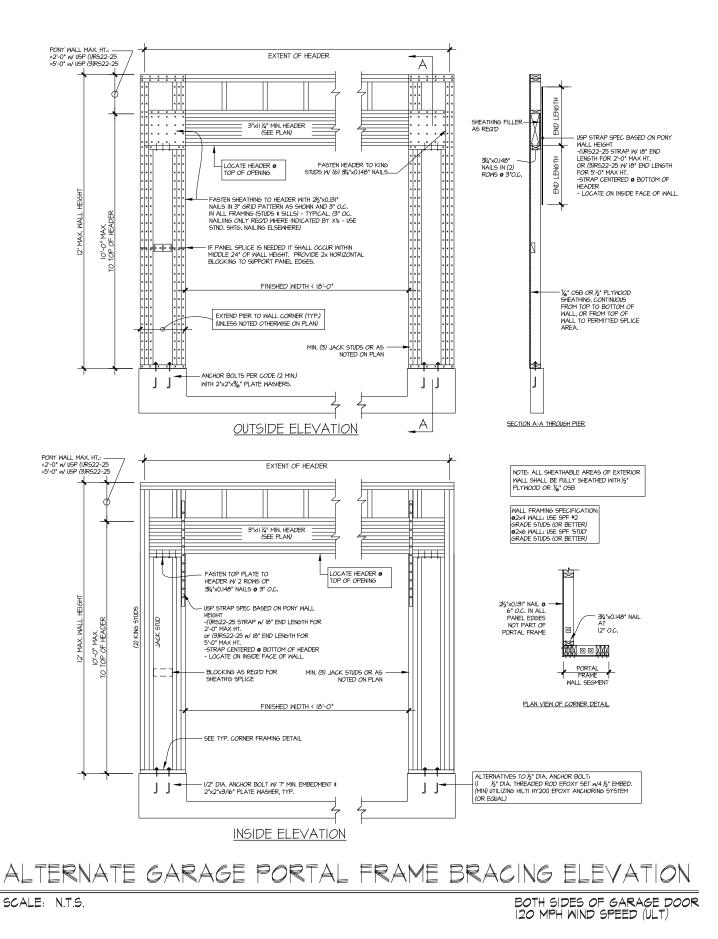
110 Village Trail, Suite 215

Woodstock, CA 30188

ALTERNATE GARAGE PORTAL FRAME DETAIL Smith Douglas Homes

write Garage Portal Frame Detail" on sheet "PF-120" is an acceptable alternative portal frame design for anywhere in North with a wind speed less than or equal to 120mph ultimate wind speed per ASCE 7-16. The "Alternate Garage Partal Frame in 18heet "PF-130" is an acceptable alternative portal frame design for anywhere in North Carolina with a wind speed less than 18heet "PF-130" is an acceptable alternative portal frame design for anywhere in North Carolina with a wind speed less than 18heet per Mostagned by 18heet "PF-130" is an acceptable 27-16. These details only apply to structural plants that have been designed by 18heet "Representation" of the structure of the presentation of the structure of the presentation of the structure of the stru

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PATEMENT - MATHEMATICAL - ANTHON 1982

Mulhern+Kulp project number:

project mgr: SMK drawn by: RAP issue date: 07.28.2023

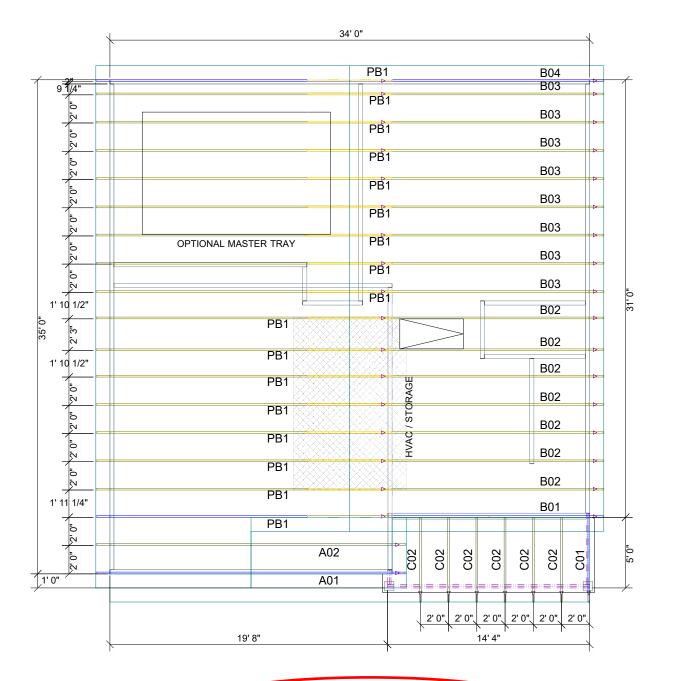
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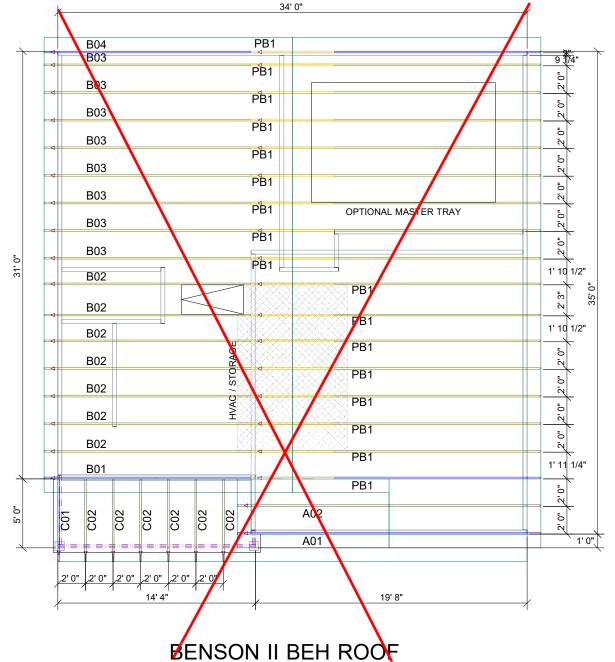
SMITH DOUGLAS HOMES

ALTERNATE PORTAL FRAME
PORTAL FRAME

PF-120

72409328 18 HARRINGTON PLACE





BENSON II BEH ROOF

PLACEMENT PLAN

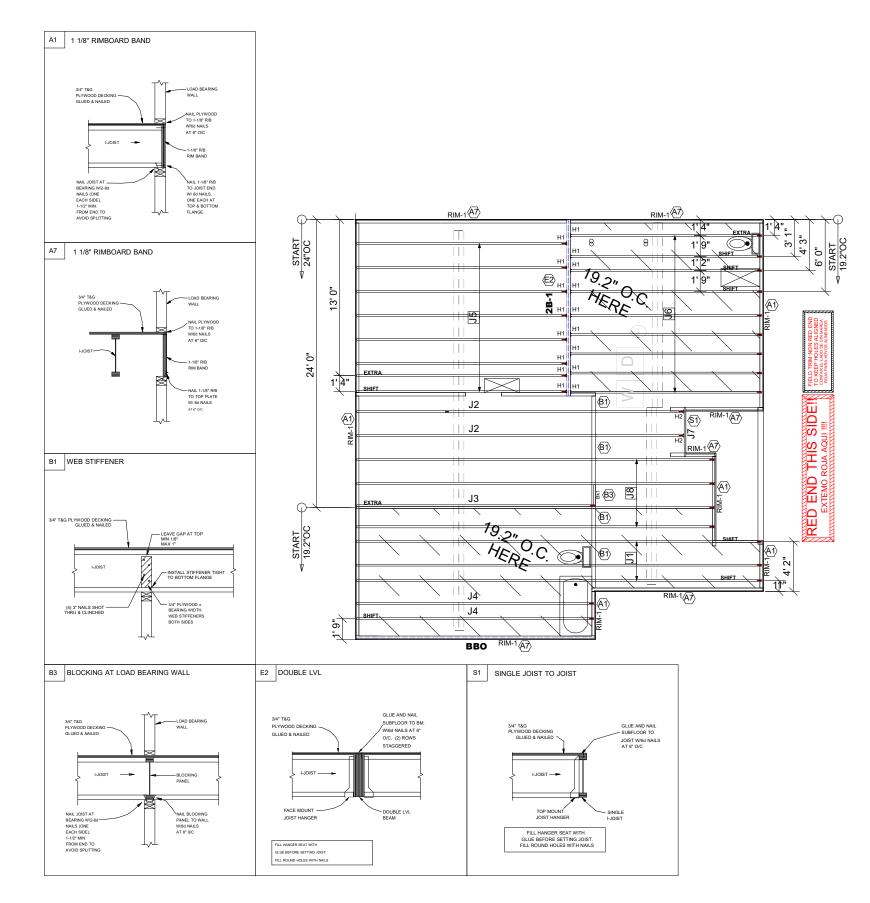
△ INDICATES LEFT END OF TRUSS SCALE: N.T.S

UFP SITE BUILT TRUSSIRAX TRUSSIRAX TRUSSIRATION DOUGLAS -SMITH **R00F** II BEH

-BENSON

DESIGNER HATHCOCK LAYOUT DATE -04.07.2023 ARCH DATE

JOB #: -MASTER



		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	34' 0"	14" TJI® 110	1	3	MFD
J2	28' 0"	14" TJI® 110	1	2	MFD
J3	20' 0"	14" TJI® 110	1	1	MFD
J4	20' 0"	14" TJI® 110	1	2	MFD
J5	18' 0"	14" TJI® 110	1	8	MFD
J6	16' 0"	14" TJI® 110	1	9	MFD
J7	5' 0"	14" TJI® 110	1	1	MFD
J8	30' 0"	14" TJI® 210	1	4	MFD
2B-1	15' 0"	1 3/4" x 14" 2.0E Microllam® LVL	2	2	MFD
RIM-1	16' 0"	1 1/8" x 14" TJ® Rim Board	1	9	MFD
Bk1	2' 0"	14" TJI® 110	1	1	MFD

Connector Summary			
PlotID	Qty	Manuf	Product
H1	17	MiTek	IHFL1714
H2	2	MiTek	TFL1714

GENERAL NOTES:

1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS

NOTED ON PLAN.

2.) FOLLOW SPECIAL SPACING AND LOCATION DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS

AS SHOWN ON PLAN.
3.) ALL INTERIOR WALL PLATES MUST BE LEVEL WITH OUTSIDE WALL TOP PLATES.

WITH OUTSIDE WALL TOP TATES.

4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.

5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.

6.) LOCATE CRIPPLE STUDS IN JOIST SPACE DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.

7.) INSTALL NAILS IN ALL HOLES PROVIDED IN JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER

SEAT BEFORE SETTING JOISTS. 8.) IMPORTANT NOTE! NO STRUCTURAL ANALYSIS OF CONVENTIONAL HEADERS HAS BEEN CONDUCTED IF NOT NOTED. THEY ARE CONSIDERED TO BE ADEQUATE TO SUPPORT THE APPLIED LOADS.

FRAMER NOTE

• Avoid Plumbing Drops

FRAMER NOTE

. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE. 2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN HANGER. FILL ROUND HOLES WITH

CRITICAL !!

INSTALL 2X4 SQUASH BLOCKS IN FLOOR TRUSS SPACE BELOW ALL EXTERIOR DOOR HEADER JACKS. CUT 1/16"

PLAN LEGEND

*INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM) 1B-, 2B-

H-, 1H-, GDH- INDICATES BEAM BELOW TOP PLATE (DROPPED BELOW FLOOR SYSTEM)

*BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY, REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM

SINGLE PLY BEAM (ADD LINE FOR EACH ADDITIONAL PLY)

PLUMBING, ALIGN W/WALL OR SUPPORT FURNITURE

A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS

DOUBLE

____DENOTES DUCT HOLE RUNS

ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED

TALLER THAN TRUSS.

FIELD TRIM NON RED END TO KEEP HOLES ALIGNED CONTAR EL LADO DE SIN MARCA **ROJA PARA HOYOS ALINEADOS**

FIELD LOCATE PLUMBING DROPS/CAN LIGHTS, ETC... PRIOR **TO JOIST SECUREMENT TO** AVOID INTERFERENCE.

LAYOUT FOR 19.2" O/C

1= 19-3/16"	9= 172-13/16"
2= 38-3/8"	10= 192"
3=57-5/8"	11= 211-3/16"
4= 76-13/16"	12= 230-3/8"
5= 96"	13= 249-13/16"
6= 115-3/16"	14= 268-13/16"
7= 134-3/8"	15= 288"
8= 153-5/8"	

FIELD VERIFY DIMENSIONS TO **JOISTS LOCATED UNDER WALLS!!** 2ND FLOOR LAYOUT

SCALE: 1/8"=1'

S | S

BUILT

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UFP

Smith Douglas Homes

Benson II 2nd Floor

DESIGNER PB2 LAYOUT DATE 3/26/2024 **ARCH DATE** 9/1/2022 STRUC DATE 7/14/2023

JOB #: 24032111F2