### McGINNIS

DUNCANS CROSSING LOT 0038



PLAN ID 070121

### 110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

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

AREA TABULATION		
FIRST FLOOR	1001	
SECOND FLOOR	1371	
TOTAL	2372	
GARAGE	410	
FRONT PORCH (COVERED) B&C MASSINGS	108	
REAR PATIO (COVERED)	200	

### **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

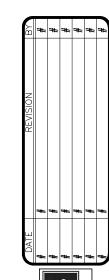
PLAN REVISIONS			
DATE	BY	REVISION PAGE #	
2/23/2021	MM	PROTOTYPE WALK CHANGES - SEE REVISION SHT	ALL
4/7/2021	AW	Added elevations J & K	A1.10, A1.11
7/1/2021	AW	2ND Prototype walk changs - see revision sheet	A2.1-A2.3, A5.1-A5.3, A7.2-A7.3
9/2/2021	ВВ	ADDED FOURTH TURTLE BACK VENT TO C MASSING REAR ELEVATION	A2-3, A6.3
2/1/2022	AW	Added LED light in Laundry hall on same switch as Loft lights	A7.3

### DUNCANS CROSSING LOT 0038



ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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



SMITH DOUGLAS HOMES

SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115
WOODSTOCK, GA 30188
www.smithdouglos.com

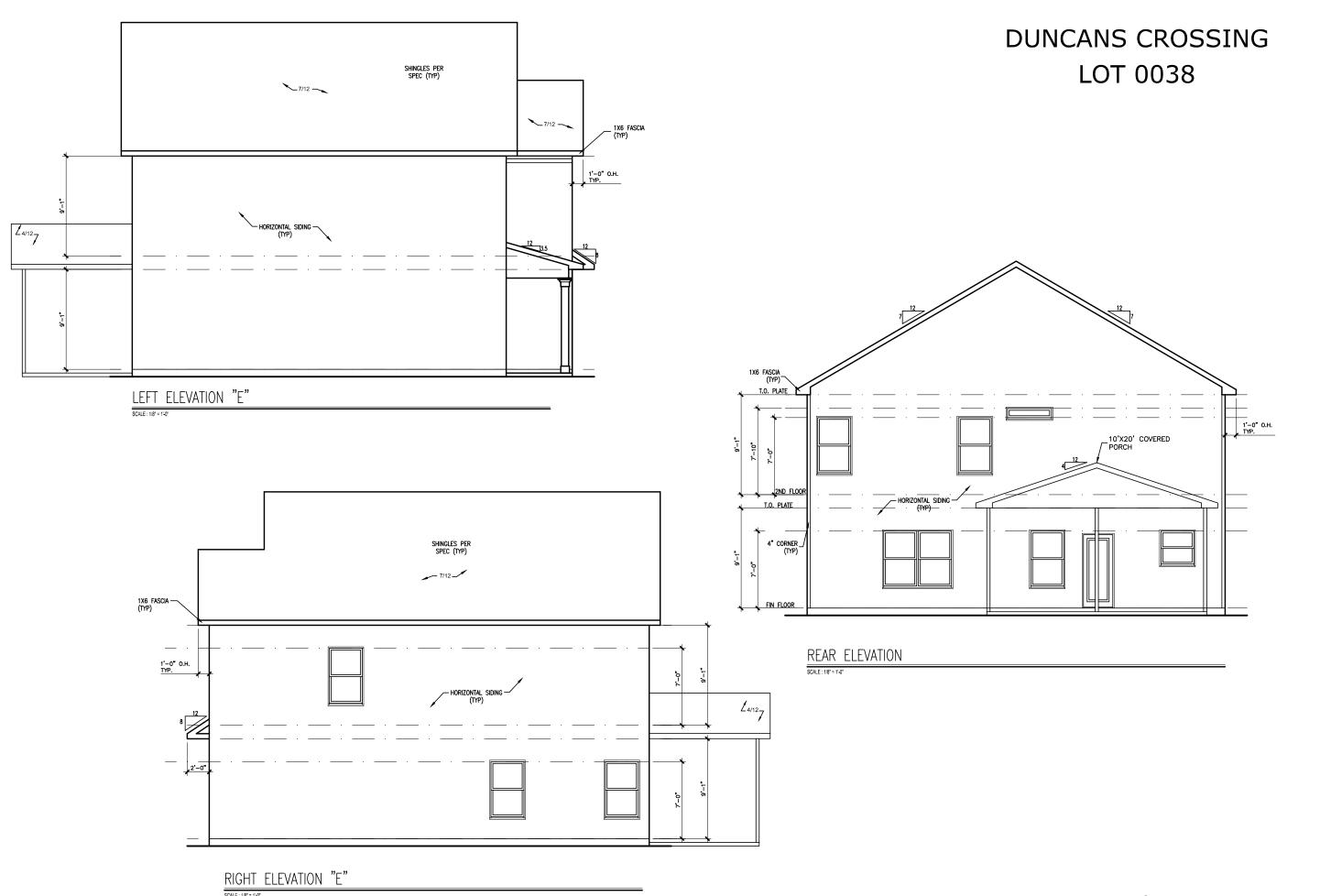
ELEVATION

ELEVATIONS

McGINNIS

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without written consent from SMITH DOUGLAS HOMES.

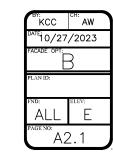




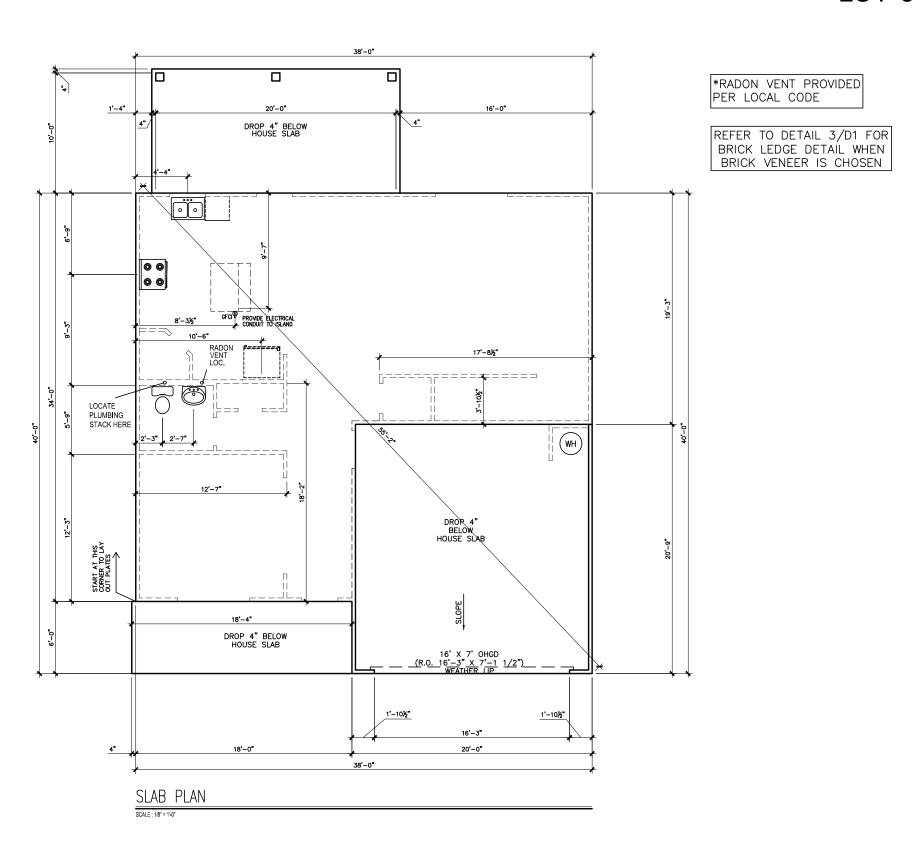


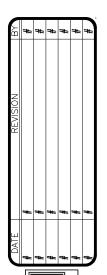
SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglos.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and relate drawings are not to be reproduced without writts consent from SMITH DOUGLAS HOMES.



### DUNCANS CROSSING LOT 0038







FOUNDATION PLAN SLAB PLAN McGINNIS

SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115
WOODSTOCK, GA 30188
www.smithdouglos.com

SMITH DOUGLAS HOMES
expressly reserves it's
property rights in these
plans and drawings.
These plans and related

PLAN ID:

PAGE NO:

AW

DATE OPT:

PLAN ID:

ELEV:

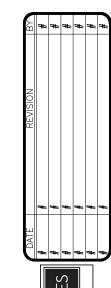
ALL

ELEV:

A3.1

### 1'-4" COVERED PATIO PROVIDE 3 ROWS OF BLOCKING FOR CABINETS AT 35", 54" & 84" A.F.F. (TYP. @ CORNER) <u></u> (2) 2X12 #2 SYP HEADER 8'-6½" KITCHEN 9' clg. ht. BREAKFAST 9' CLG. HT. 00 00 FAMILY ROOM 9' CLG. HT. (2) 2X4 W PWDR 9' clg. ht. WH LOC. OF A/C TBD PER SITE CONDITIONS/ COMMUNITY EXCEPTIONS 3'-7" STUDY 9' CLG. HGT. START AT THIS CORNER TO LAY OUT PLATES FOYER 9' CLG. HT. GARAGE 9'-0" clg. 3'-0½" 2'-8" 12'-3½" COVERED PORCH 16' X 7' OHGD (R.O. 16'-3" X 7'-1 1/2") 16'-0" 20'-0" FIRST FLOOR PLAN

### DUNCANS CROSSING LOT 0038





FLOOR PLAN FIRST FLOOR McGINNIS

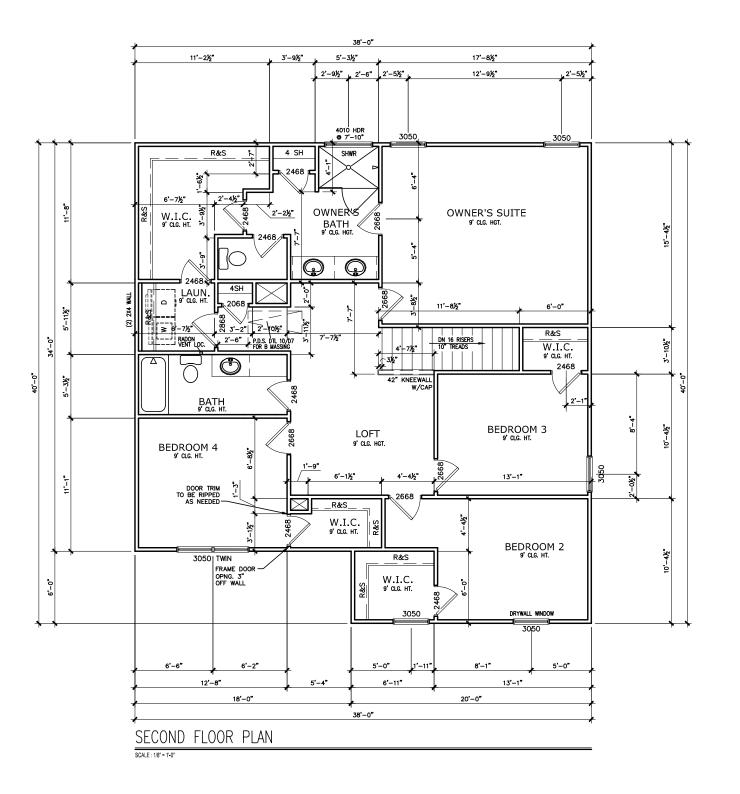
SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without writte consent from SMITH DOUGLAS HOMES.

\*RADON VENT PROVIDED PER LOCAL CODE



### DUNCANS CROSSING LOT 0038



SMITH DOUGLAS HOMES

FLOOR PLANS SECOND FLOOR McGINNIS

SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without write consent from SMITH DOUGLAS HOMES.

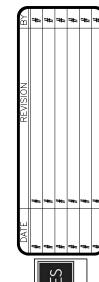


\*RADON VENT PROVIDED PER LOCAL CODE

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

### **←** 4/12 4/12 1'-0" HVAC PLATFORM IN ATTIC 7/12 ₹<sup>7/12</sup>> <u>1'-0"</u> ROOF PLAN "E"

### DUNCANS CROSSING LOT 0038





ROOF PLAN	ROOF PLAN	McGINNIS
-----------	-----------	----------

SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and relater drawings are not to be reproduced without writte consent from SMITH DOUGLAS HOMES.



### COVERED PATIO DO NOT INSTALL DISPOSAL SWITCH AND OUTLET FOR SEPTIC COMMUNITIES GFCI GFCI DISP. DW WPJ FAMILY ROOM BREAKFAST 'KITCHEN*e=====* TO SWITCH ABOVE WH ELECTRICAL PROVIDED AS NEEDED FOYER GARAGE STUDY COVERED

### DUNCANS CROSSING LOT 0038

ELECTRICAL LEGEND			
\$	SWITCH	ŢV ₩	TV
\$3	3 WAY SWITCH	φ	120V RECEPTACLE
\$4	4 WAY SWITCH	•	120V SWITCHED RECEPTACLE
Ø	CEILING FIXTURE	•	220V RECEPTACLE
-\$ <sub>K</sub>	KEYLESS	PGFCI	GFCI OUTLET
Ø	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUI INTERRUPTER
0	CEILING FIXTURE	T <sub>GL</sub>	GAS LINE
lacktriangle	FLEX CONDUIT	† <sub>wL</sub>	WATER LINE
СН	CHIMES	₹	HOSE BIBB
₽H	TELEPHONE	B	FLOOD LIGHT
SD/Cc ₩	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET		OFILING FAN
	GARAGE DOOR OPENER		CEILING FAN
	EXHAUST FAN		ELECTRICAL WIRING
	FAN/LIGHT	- <b>\( -</b>	CEILING FIXTURE
ELEC <sup>-</sup>	TRICAL PLANS TO FOLLOW	ALL LOCAL	CODES
APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)			
BREA	KFAST/DINING ROOM	63" ABO	VE FINISHED FLOOR
KITCHEN PENDANT LIGHTS		33" ABO	VE COUNTER TOP
TWO	TWO STORY FOYER FIXTURE		VE FINISHED FLOOR
CEILIN	CEILING FAN		VE FINISHED FLOOR
FLOO	D LIGHT	10' MAX.	. ABOVE FIN. FLOOR

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

SMITH DOUGLAS HOMES QUALITY I INTEGRITY I VALUE

FIRST FLOOR
McGINNIS

SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in thesplans and drawings. These plans and relate drawings are not to breproduced without writt consent from SMITH DOUGLAS HOMES.



# W.I.C. OWNER'S SUITE FAN FRIME SUITE FAN S

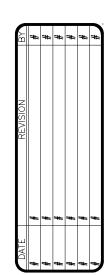
### SECOND FLOOR ELECTRICAL PLAN

SCALE : 1/8" = 1"+

### DUNCANS CROSSING LOT 0038

S SWITCH  TV  TV  S3 3 WAY SWITCH  \$\begin{array}{cccccccccccccccccccccccccccccccccccc	ELECTRICAL LEGEND				
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	LLLCINICAL LLGLIND				
\$\frac{1}{2}\text{A WAY SWITCH}\$  \$\begin{array}{cccccccccccccccccccccccccccccccccccc	$\Box$	SWITCH	TV ▼	TV	
CEILING FIXTURE	\$3	3 WAY SWITCH	φ	120V RECEPTACLE	
## PACE PLACE	\$4	4 WAY SWITCH	<b>P</b>		
WALL MOUNT FIXTURE  CEILING FIXTURE  FLEX CONDUIT  WATER LINE  HOSE BIBB  HOSE BIBB  FLOOD LIGHT  SD/Cd SMOKE DETECTOR & CARBON MONOXIDE  SO SECURITY OUTLET  GARAGE DOOR OPENER  EXHAUST FAN  ELECTRICAL WIRING  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  KITCHEN PENDANT LIGHTS  33" ABOVE FINISHED FLOOR  TWO STORY FOYER FIXTURE  96" ABOVE FINISHED FLOOR		CEILING FIXTURE	•	220V RECEPTACLE	
WALL MOUNT FIXTURE  CEILING FIXTURE  FLEX CONDUIT  TWL  WATER LINE  HOSE BIBB  PH  TELEPHONE  SD/CQ SMOKE DETECTOR & CARBON MONOXIDE  TX4 LUMINOUS FIXTURE  SO SECURITY OUTLET  GARAGE DOOR OPENER  EXHAUST FAN  ELECTRICAL WIRING  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  KITCHEN PENDANT LIGHTS  33" ABOVE FINISHED FLOOR  TWO STORY FOYER FIXTURE  96" ABOVE FINISHED FLOOR	$\phi_{K}$	KEYLESS	P <sub>GFCI</sub>	GFCI OUTLET	
CEILING FIXTURE  FLEX CONDUIT  HUL  WATER LINE  CH  CHIMES  HOSE BIBB  FLOOD LIGHT  SD/Cc SMOKE DETECTOR & TIX4 LUMINOUS FIXTURE  SO SECURITY OUTLET  GARAGE DOOR OPENER  EXHAUST FAN  ELECTRICAL WIRING  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS  96" ABOVE FINISHED FLOOR	茲	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUIT	
TWL  CH CHIMES  ↓ HOSE BIBB  PH TELEPHONE  SD/Cc SMOKE DETECTOR & CARBON MONOXIDE  SO SECURITY OUTLET  GARAGE DOOR OPENER  EXHAUST FAN  ELECTRICAL WIRING  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  KITCHEN PENDANT LIGHTS  33" ABOVE FINISHED FLOOR  TWO STORY FOYER FIXTURE  96" ABOVE FINISHED FLOOR	0	CEILING FIXTURE	+	GAS LINE	
PH TELEPHONE FLOOD LIGHT  SD/Cc SMOKE DETECTOR & 1x4 LUMINOUS FIXTURE  SO SECURITY OUTLET  GARAGE DOOR OPENER  EXHAUST FAN ELECTRICAL WIRING  FAN/LIGHT CEILING FIXTURE  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS 33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOOR	•	FLEX CONDUIT	† <sub>wL</sub>	WATER LINE	
SD/Cq SMOKE DETECTOR & TX4 LUMINOUS FIXTURE  SO SECURITY OUTLET  GARAGE DOOR OPENER  EXHAUST FAN  ELECTRICAL WIRING  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS  33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE  96" ABOVE FINISHED FLOOR	СН	CHIMES	¥	HOSE BIBB	
CARBON MONOXIDE  SO SECURITY OUTLET  GARAGE DOOR OPENER  EXHAUST FAN  ELECTRICAL WIRING  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS  33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE  96" ABOVE FINISHED FLOOR	PH	TELEPHONE	8	FLOOD LIGHT	
CEILING FAN  CEILING FAN  CEILING FAN  CEILING FAN  CEILING FAN  ELECTRICAL WIRING  FAN/LIGHT  CEILING FIXTURE  CEILING FIXTURE  CEILING FIXTURE  CEILING FIXTURE  CEILING FIXTURE  CEILING FIXTURE  CEILING FAN  CEILING FAN  CEILING FAN  CEILING FAN  CEILING FAN  CEILING FAN  WIRING  CEILING FAN  CEILING FAN  CEILING FAN  CEILING FAN  CEILING FAN  WIRING  CEILING FAN  CEILING  CEILING FAN  CEILING  CEILING FAN  CEILING FA					
SARAGE DOOR OPENER  EXHAUST FAN  ELECTRICAL WIRING  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS  33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE  96" ABOVE FINISHED FLOOR	SO	SECURITY OUTLET		2511112 511	
WIRING  FAN/LIGHT  FAN/LIGHT  ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM  63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS  33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE  96" ABOVE FINISHED FLOOR				CEILING FAN	
ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES  APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS 33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOOR	≣	EXHAUST FAN			
APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)  BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR  KITCHEN PENDANT LIGHTS 33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOOR	0	FAN/LIGHT	<b>-</b>	CEILING FIXTURE	
BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR KITCHEN PENDANT LIGHTS 33" ABOVE COUNTER TOP TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOOR	ELEC <sup>-</sup>	TRICAL PLANS TO FOLLOW	ALL LOCAL	CODES	
KITCHEN PENDANT LIGHTS 33" ABOVE COUNTER TOP  TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOOR	APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)				
TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOOR	BREA	KFAST/DINING ROOM	63" ABO	VE FINISHED FLOOR	
	KITCHEN PENDANT LIGHTS		33" ABO	VE COUNTER TOP	
CEILING FAN 96" ABOVE FINISHED FLOOR	TWO STORY FOYER FIXTURE		96" ABO	VE FINISHED FLOOR	
	CEILI	CEILING FAN		VE FINISHED FLOOR	
FLOOD LIGHT 10' MAX. ABOVE FIN. FLOOR	FLOO	D LIGHT	10' MAX.	. ABOVE FIN. FLOOR	

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



ELECTRICAL PLAN

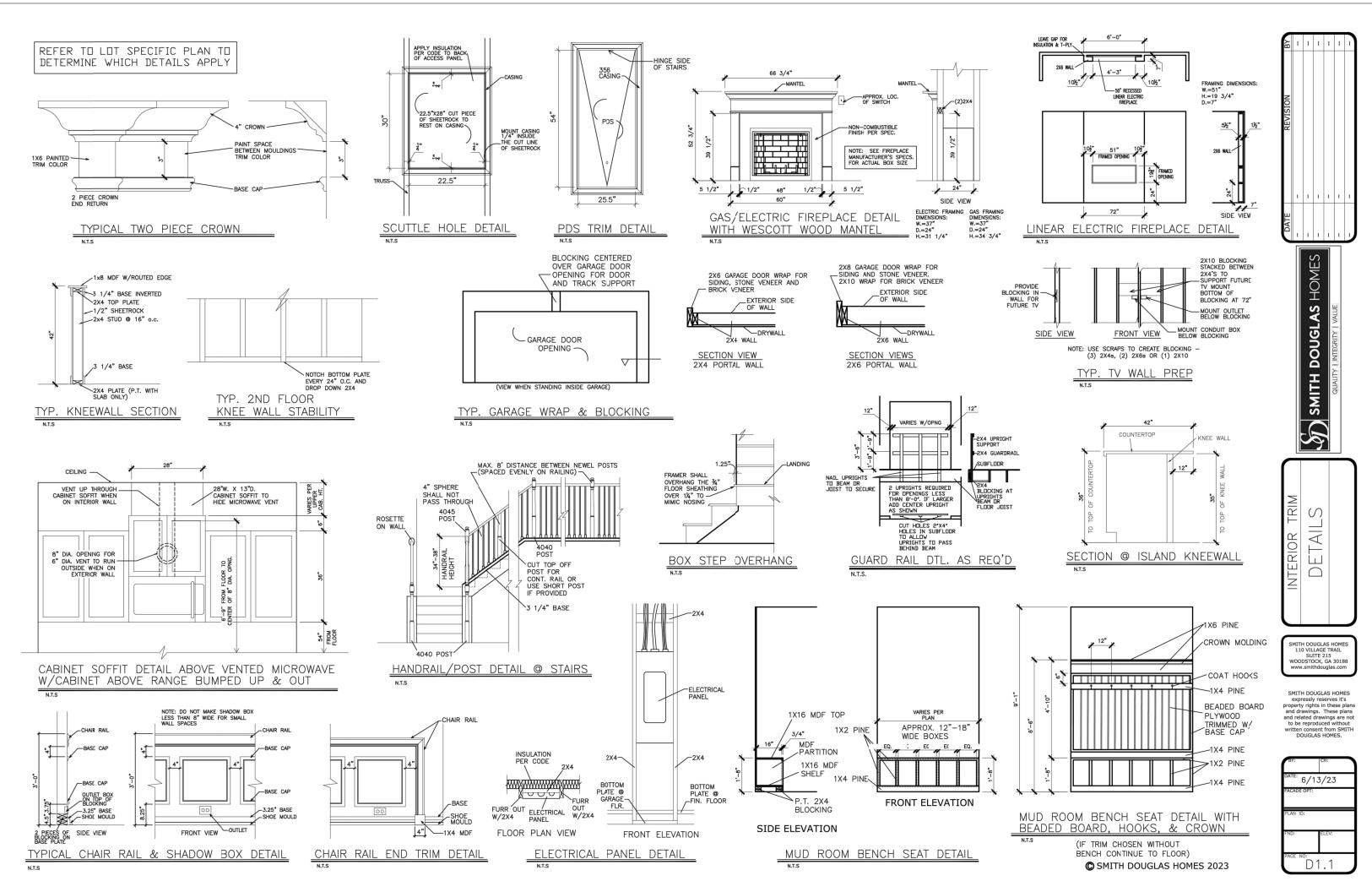
ECOND FLOOR

McGINNIS

SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115
WOODSTOCK, GA 30188
www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be eproduced without writter consent from SMITH DOUGLAS HOMES.





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

DESCRIPTION OF BLDG, ELEMENT   3"XO.131" NAILS   3"XO.120" NAILS			
SOLE PL. TO JOIST/RIM OR BLK'G STUD TO PLATE  (4) TOENAILS (3)END NAILS (4) TOENAILS (4) TOENAILS (4) TOENAILS (4) TOENAILS (5) BLK'G, BTINN, JOISTS TO TOP PL.  (3) TOENAILS e.A. END (3) TOENAILS EA. END (4) TOENAILS EA. END (5) TOENAILS EA. END (6) TOENAILS EA. END (7) PLATE LAP SPLICE (8) NAILS e 10" o.c. (8) NAILS e 10" o.c. (9) NAILS in LAPPED AREA (24" MIN.) (15) NAILS (16) NAILS in LAPPED AREA (24" MIN.) (15) NAILS in LAPPED AREA (24"	DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
## STILD TO PLATE  ## TO FOP PLATE  ## TO FOP PLATE  ## TO FOP PLATE  ## TO FOR PLATE  ## FASTENED TO PLATE  ## TO FOR PLATE  ## TO FOUNDATION  ## TO FOR PLATE  ## TO FOR PLATE	JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
RIM TO TOP PLATE  TOENAILS • 6* o.c.  BLY'G, BTWN, JOISTS TO TOP PL.  (3) TOENAILS EA. END  (4) TOENAILS EA. END  (5) NAILS = 16* o.c.  NAILS • 0 16* o.c.  NAILS • 0 16* o.c.  NAILS • 0 16* o.c.  (24* MIN)  (7) NAILS IN LAPPED AREA  (15) NAILS IN LAPPED AREA  (24* MIN)  (24* MIN)  (3) NAILS  (3) NAILS  (4) TOENAILS • (4) TOENAILS + (1) SIMPSON H2.5T  (7) SIMPSON H2.5T  (8) SIMPSON H2.5T  (9) SIMPSON H2.5T  (10) SIMPSON H2.5T  (10) SIMPSON H2.5T  (11) SIMPSON H2.5T  (12) SIMPSON H2.5T  (13) TOENAILS • (4) TOENAILS • (1) SIMPSON H2.5T  (14) TOENAILS • (1) SIMPSON H2.5T  (15) NAILS  (15) NAILS IN LAPPED AREA  (24* MIN)  (24* MIN)  (24* MIN)  (3) NAILS  (4) TOENAILS • (24* MIN)  (3) NAILS  (4) TOENAILS • (4) TOENAILS • (1) SIMPSON H2.5T  TOENAILS • (1) TOENAILS • (1) SIMPSON H2.5T  TOENAILS • (2) SI	SOLE PL. TO JOIST/RIM OR BLK'G	NAILS @ 4" o.c.	NAILS @ 4" o.c.
BLK'S. BTWN. JOISTS TO TOP PL.   (3) TOENAILS EA. END   (3) TOENAILS EA. END	STUD TO PLATE	(4) TOENAILS/ (3)END NAILS	(4) TOENAILS/ (4)END NAILS*
DOUBLE STUD  NAILS @ 16" O.C.  (15) NAILS IN LAPPED AREA (24" MIN) (24"	RIM TO TOP PLATE	TOENAILS @ 6" o.c.	TOENAILS @ 4" o.c.*
DOUBLE TOP PLATE  NAILS © 12" O.C.  NAILS © 16" O.C.  (12) NAILS IN LAPPED AREA (24" MIN.)  (3) NAILS  (3) NAILS  (3) NAILS  (3) NAILS  (3) NAILS  (4) TOENAILS + (1) SIMPSON H2.5T  (3) MPSON H2.5T  (4) TOENAILS + (1) SIMPSON H2.5T  (1) SIMPSON H2.5T  (24) MIN.)  (4) TOENAILS + (1) SIMPSON H2.5T  (3) NAILS  (4) TOENAILS + (1) SIMPSON H2.5T  (4) TOENAILS • (1) SIMPSON H2.5T  (4) TOENAILS • (6" O.C.  R.T. W HEEL HT. 12" TO 16"  AND ELK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENAILS • (6" O.C.  R.T. W HEEL HT. 12" TO 16"  AND ELK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENAILS • (6" O.C.  R.T. W HEEL HT. UP TO 24"  LAP WALL SHTG, W DBL. TOP PL  § INSTALL ON TRIJES VERT FASTEN W NAILS • (6" O.C.  R.T. W HEEL HT. 24" TO 48"  LAP WALL SHTG, W DBL. TOP PL.  § INSTALL ON TRIJES VERT FASTEN W NAILS • (6" O.C.  ROVIDE 2x BLK • EA. BAY AT TOP OF HEEL*  WALL SHTG, LAP W SILL PL. \$ FASTEN W NAILS • (6" O.C.  PROVIDE 2x BLK • EA. BAY AT TOP OF HEEL*	BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS EA. END	(3) TOENAILS EA. END*
DOUBLE TOP PLATE LAP SPLICE (24" MIN) (24" MIN) (3) NAILS (4) TOENAILS + (1) SIMPSON H2.5T (	DOUBLE STUD		NAILS @ 16" o.c.
(24" MIN.) (24" MIN.) (24" MIN.) (24" MIN.) (24" MIN.) (3) NAILS (3) NAILS (3) NAILS (3) NAILS (3) NAILS (4) TOENAILS + (1) SIMPSON H2.5T (1) SIMPSON H2.5T (1) SIMPSON H2.5T (24) BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENAILS 9 6" O.C. R.T. W HEEL HT. 12" TO 16" R.T. W HEEL HT. 12" TO 16" R.T. W HEEL HT. 12" TO 16"  R.T. W HEEL HT. 12" TO 16"  R.T. W HEEL HT. 12" TO 40" LAP WALL SHTG, W DBL. TOP PLATE W TOENAILS 9 6" O.C. R.T. W HEEL HT. 14" TO 40" LAP WALL SHTG, W DBL. TOP PL. (1) INSTALL ON TRUSS VERT FASTEN W NAILS 9 6" O.C. R.T. W HEEL HT. 24" TO 40" R.T. W HEEL HT. 24" TO 40"  R.T. W HEEL HT. 24" TO 46"  R.T. W HEEL HT. 24" TO 46"  R.T. W HEEL HT. 24" TO 46" LAP WALL SHTG, W DBL. TOP PL. (1) INSTALL ON TRUSS VERT FASTEN W NAILS 9 6" O.C. PROVIDE 2x BLK 9 EA BAY AT TOP OF HEEL  WALL TO FOUNDATION  WALL SHTG, LAP W SILL PL. (1) FASTENEN W NAILS 9 6" O.C. PROVIDE 2x BLK 9 EA BAY AT TOP OF HEEL	DOUBLE TOP PLATE		NAILS @ 8" o.c.
NTERSECTING WALLS	DOUBLE TOP PLATE LAP SPLICE		
(i) SIMPSON H2.5T  GAB. END TRUSS TO DBL. TOP PL.  TOENALIS @ 8" o.c.  RT. W HEEL HT. 9 1/4" TO 12"  2xl0 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENALIS @ 6" o.c.  RT. W HEEL HT. 12" TO 16"  2xl2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENALIS @ 6" o.c.  2xl2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENALIS @ 6" o.c.  RT. W HEEL HT. 12" TO 16"  2xl2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W TOENALIS @ 6" o.c.  LAP WALL SHTG. W DBL. TOP PL.  (INSTALL ON TRUSS VERT FASTEN W NAILS @ 6" o.c.  RT. W HEEL HT. 24" TO 48"  LAP WALL SHTG. W DBL. TOP PL.  (INSTALL ON TRUSS VERT FASTEN W NAILS @ 6" o.c.  RATENED TO DBL. TOP PL.  (INSTALL ON TRUSS VERT FASTEN W NAILS @ 6" o.c.  RATEN W NAILS @ 6" o.c.  PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL "  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 "  WALL SHTG. W DBL. TOP OF HEEL "		(3) NAILS	(3) NAILS
GAB. END TRUSS TO DBL. TOP PL.  TOENALS • 8" O.C.  R.T. W HEEL HT. 9" /4" TO 12"  R.T. W HEEL HT. 12" TO 16"  R.T. W HEEL HT. 24" TO 48"  R.T. W HEEL HT. 12" TO 16"  R.T.	RAFTER/TRUSS TO TOP PLATE		
FASTENED TO DBL. TOP PLATE W TOENAILS @ 6" O.C.  R.T. W HEEL HT. 12" TO 16"  R.T. W HEEL HT. UP TO 24"  LAP WALL SHTG, W 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.  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.  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.  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.  ROVIDE 2X BLK @ EA. BAY AT TOP OF HEEL.  WALL SHTG. LAP W SILL PL. 4  FASTENED TO DBL. TOP PLATE W TOENAILS @ 6" O.C.  PROVIDE 2X BLK @ EA. BAY AT TOP OF HEEL.	GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" O.C.	TOENAILS @ 6" o.c.
FASTENED TO DBL. TOP PLATE W TOENALLS @ 6" O.C.  R.T. W HEEL HT. UP TO 24"  LAP WALL SHTG. W DBL. TOP PL. LAP WALL SHTG. W DBL. TOP PL. (INSTALL ON TRIJSS VERT FASTEN W NAILS @ 6" O.C.  R.T. W HEEL HT. 24" TO 48"  LAP WALL SHTG. W DBL. TOP PL. LAP WALL SHTG. W DBL. TOP PL. (INSTALL ON TRIJSS VERT FASTEN W NAILS @ 6" O.C.)  R.T. W HEEL HT. 24" TO 48"  LAP WALL SHTG. W DBL. TOP PL. LAP WALL SHTG. W DBL. TOP PL. (INSTALL ON TRIJSS VERT FASTEN W NAILS @ 6" O.C.)  PROVIDE 2X BLK @ EA. BAY AT TOP OF HEEL.  WALL SHTG. LAP W SILL PL. (INSTALL ON TRIJSS VERT FASTEN W NAILS @ 6" O.C.)  PROVIDE 2X BLK @ EA. BAY AT TOP OF HEEL.	R.T. w/ HEEL HT. 91/4" TO 12"	FASTENED TO DBL. TOP PLATE	FASTENED TO DBL. TOP PLATE
# 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. *  INSTALL ON TRUSS VERT FASTEN W NAILS ** 6" O.C. *  INSTALL ON TRUSS VERT FASTEN W NAILS ** 6" O.C. *  PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK ** FASTEN W NAILS ** 6" O.C. PROVIDE 2X BLK **	R.T. w/ HEEL HT. 12" TO 16"	FASTENED TO DBL. TOP PLATE	FASTENED TO DBL. TOP PLATE
# INSTALL ON TRUSS VERT FASTEN w/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL  WALL 5HTG, LAP w/ SILL PL. & FASTENED PER SHEAR WALL	R.T. w/ HEEL HT. UP TO 24"	& INSTALL ON TRUSS VERT	& INSTALL ON TRUSS VERT
FASTENED PER SHEAR WALL	R.T. w/ HEEL HT. 24" TO 48"	¢ INSTALL ON TRUSS VERT FASTEN w/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT	& INSTALL ON TRUSS VERT FASTEN w/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT
	WALL TO FOUNDATION	FASTENED PER SHEAR WALL	

2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. DNLY 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. FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO M&K FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

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

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

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

### 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"x¼"
6'-0"	I2 FT. MAX	L4"x3"x¼"
	20 FT. MAX	L5"x3½"x¾"
8'-0"	3 FT. MAX	L4"x4"x¼" *
b'-U"	I2 FT. MAX	L5"x3½"x¾"
	l6 FT, MAX	L6"x3½"x3%"
9'-6"	I2 FT. MAX	L6"x3½"x%;"

L LINI (13-9) HALL SUPPORT 2 5%' - 3 ½' VENEER x/ 40 ps/ MAXIMUM VEIGHT. 6° SHALL HAVE 4° MIN. BEARING 16° SHALL HAVE 8° MIN. BEARING 16° SHALL NOT BE FASTENED BACK TO HEADER.

IS SHALL NOT BE FREIDED BACK TO READER. IN WALL 6400.0. M/S DIA. x 3/5\* TO SHALL BE FREIDED BACK TO ROOD FRANCE IN WALL 6400.0. M/S DIA. x 3/5\* MAX. YEBER HT. APPLIES TO ANY PORTION OF PRICK OVER THE OPENING. HALL INTELS SHALL BE LOAD LES VERTICAL. MEN SHPORTING YEBER 375 MIDE THE EXTERIOR TOE OF THE HORIZONTAL LES MAY BEC UTI IN THE RIED TO BE 3/5 MIDE OVER THE EDERNING LIBSHI ONLY. THIS SHE SHRICHTERAL PLANS FOR ANY LINTEL CANDITION NOT ENCOMPASSED BY THE MENOY FRANCE TO SHALL SHALL

R QUEEN VENEER USE L4x3x/4".

### GENERAL STRUCTURAL NOTES

### FOUNDATION

- DESIGN IS BASED ON 2018 NCSBC-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 2x4/6 SILL PLATES TO CONC FND WITH A MINIMUM OF 2
- ANCHORS PER PLATE, I2" 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 BOMT WALLS WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" 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 VERIEY 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 ACLISIA 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 3500 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 PCE 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 BACKFILL, CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN.
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKELLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL ISE 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 GRADE
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
- . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-O" OC. (MAXIMIM)
- 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 REINFORGEMENT DETAILS: PROVIDE 3" MIN. CLEAR COVER WHERE CAST AGAINST EARTH, LI/2" MIN, CLEAR COVER AGAINST FORMS. LAP ALL REBAR 48 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 VERIFY.

### LEGEND

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

SI ABS

OF. INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.) F.J. NDICATES 14" DEEP FLOOR 1-JOISTS (24" O.C. MAX SPACING), JOIST SERIES AND SPACING SHALL BE

- THE RESPONSIBILITY OF THE JOIST MANUFACTURER D.J. NDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.)
- INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.
  JOIST MANUFACTURER SHALL DESIGN FLOOR
  SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS
- IIIIIIIIII 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

### LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

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

\$ 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 R30113 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 UPLIET LOADS HAVE BEEN CALCULATED UTIL 17ING ASCE 1 (ACCEPTED) ENGINEERING PRACTICE) AS ALLOWED PER 2018 CSBC:RC & 2018 IRC SECTION R802.11.1.1. MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIET LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

### EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING w/ 2 3 "x0.113 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 (%" 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 PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEI 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. 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

### FLOOR FRAMING

- I-, KOISTS SHALL BE DESIGNED BY MANUE 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 LOADS")
- 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 DESIGNATIONS 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 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES \$ @ 12"o.c. FIELD.
- 2 8 × 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 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- w/ 2 ½" x 0,131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12" O.C. FIELD. - w/ 2 3 × 0.120" NAILS @ 4"0.6. @ PANEL EDGES & @ 8" 0.6. FIELD. - W/2 3 × 0.113" NAILS @ 3"o.c. @ PANEL EDGES \$ @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF SHEATHING FIELD'S PER EDGE NAILING SPEC.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W USP RT7A CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS PROVIDE (2) RTTA CLIPS AT 2-PLY GIRDER TRUSSES, (3) RTTA 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"  $\times$  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 EMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH LOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

### GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NGSBG-RESIDENTIAL CODE \$ 2018 IRC
- 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 (I-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
- 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 - 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
- WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX., U.N.O.) . HEADERS IN NON-LOAD BEARING WALLS SHALL BE (I)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15)
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING: • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 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 13/2" MAX, WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"XO.120" NAILS @ 8" O/C OR 2 ROWS USP WS35 SCREWS (OR 31/5" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWG FOR BEAM DEPTHG OF 14" OR GREATER.

  APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3  $\frac{1}{2}$ " OR 5  $\frac{1}{4}$ " BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x6
- FOR 4 PLY BEAMS OF EQUAL 13/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF USP WS6 SCREWS (OR 6 %." TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER, APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID T" 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 &
- 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 EASTENERS AND CONNECTORS EXPOSED TO SALT WATER (WITHIN 300' OF SALT WATER SHORELINE, INCLUDING VENTED SPACES) SHALL BE STAINLESS STEEL.

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERINS C-3825



Mulhern+Kulp project number 256-21009

SMK ILM ssue date: 10-26-202

REVISIONS

JPP MMD

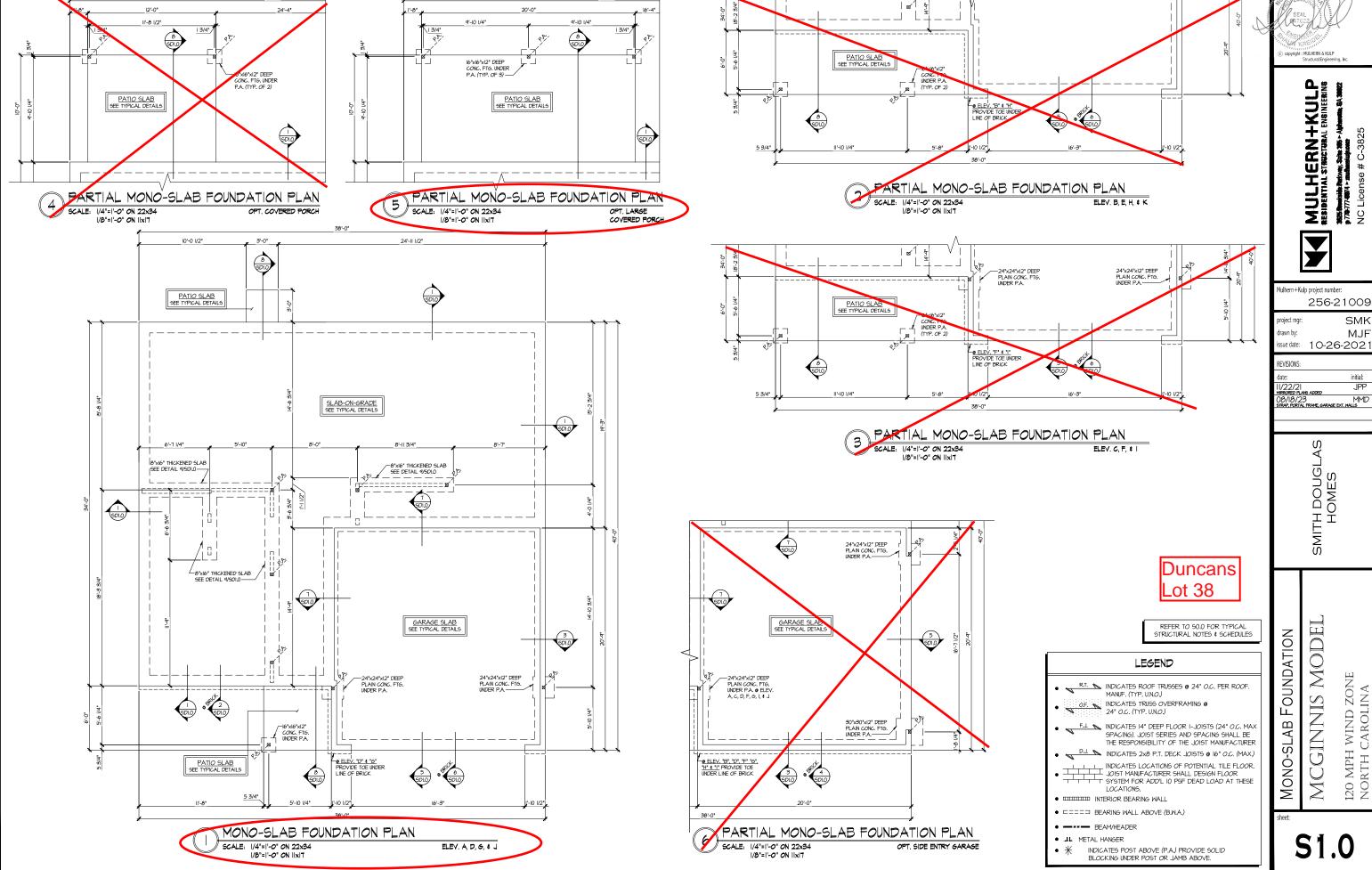
> S DOUGL SMITH HC

STRUCTURAL NOTES  $\Box$ MODI

ZONI GINNIS WIND 120 NO

GENERAL

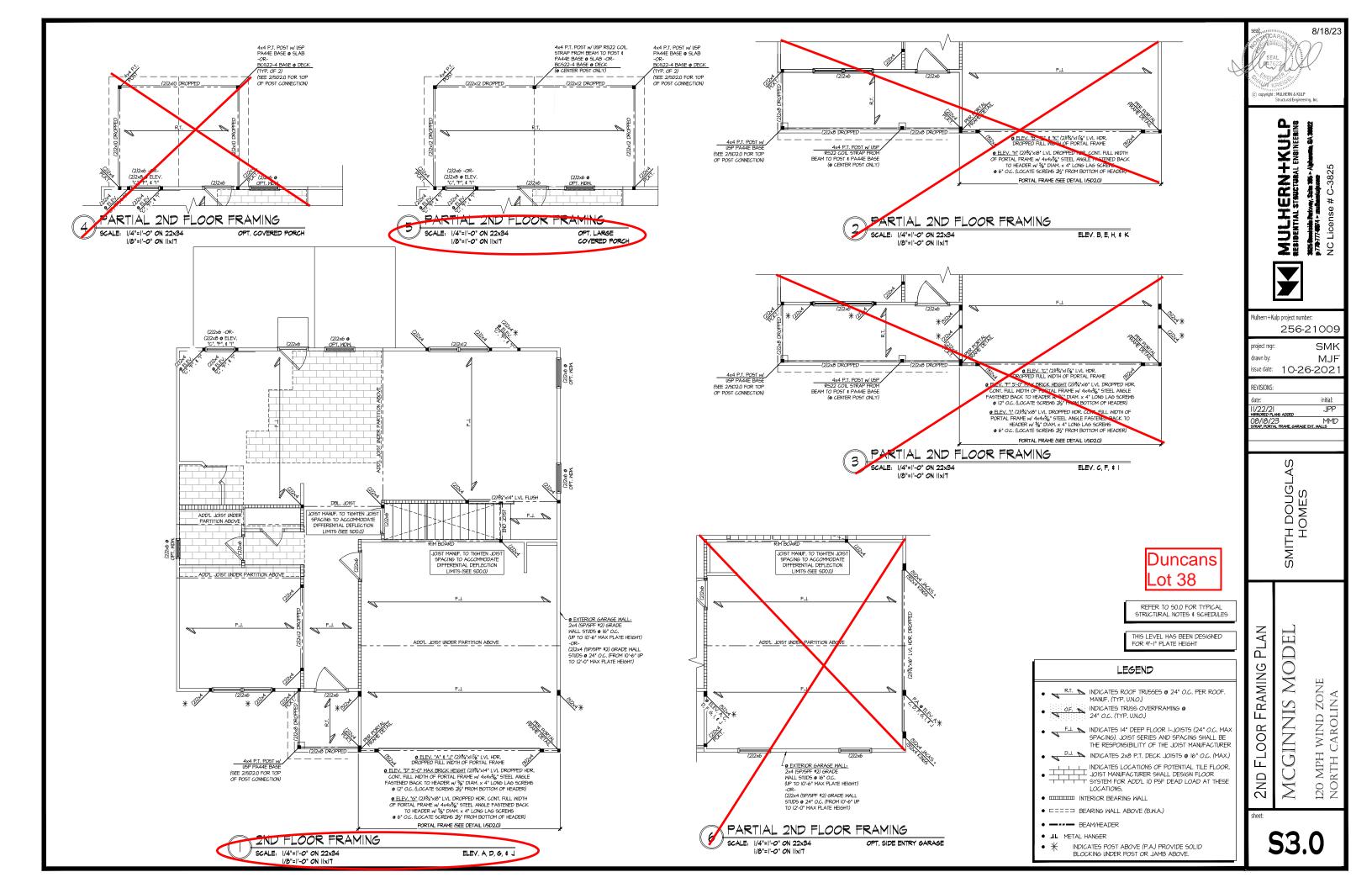
Duncans \_ot 38

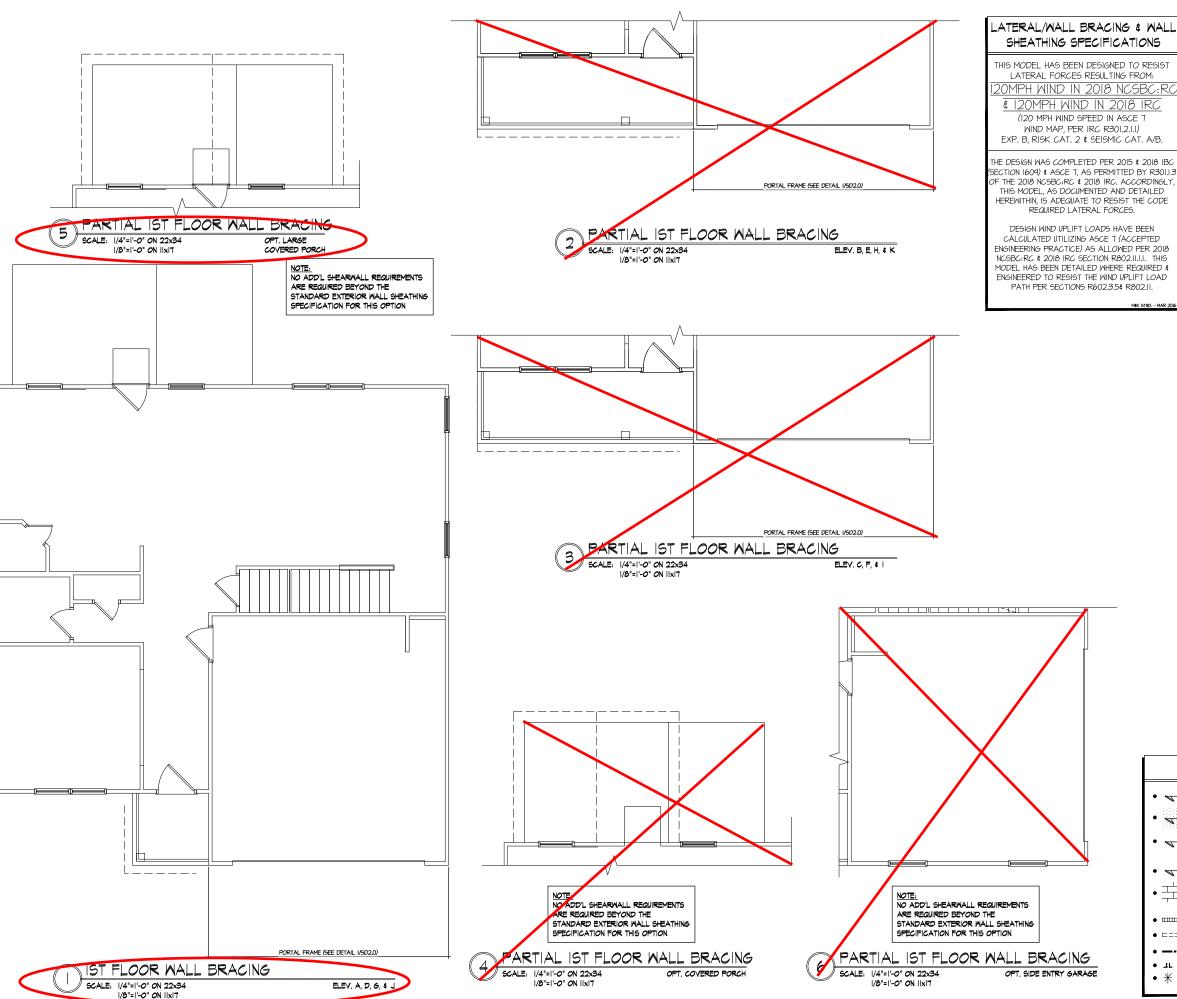


SMK MJF

issue date: 10-26-202

initial: III/22/2| JPP MRRORED PLAIS ADDED 08/18/23 MMD STRAP, PORTAL FRAME, GARAGE EXT. HALLS





THIS MODEL HAS BEEN DESIGNED TO RESIST

OMPH WIND IN 2018 NCSBC:RC

SECTION 1609) & ASCE 7, AS PERMITTED BY R301.1.3 OF THE 2018 NCSBC:RC & 2018 IRC. ACCORDINGLY HEREWITHIN, IS ADEQUATE TO RESIST THE CODE

### EXT. WALL SHEATHING SPECIFICATION

- 1/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3 "XO.113 NAILS @ 6" O.C. A 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 34" 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 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.

- 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

Duncans \_ot 38

REFER TO 50.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

### LEGEND

RT. NIDICATES 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 SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER

D.J. NDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.)

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.

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

• IIIIIII 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.

8/18/23

yright : MULHERN & KULP Structural Engineer

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERINS Perkway, Suite 165 - Alph Transferring power The # C-3825

Mulhern+Kulp project number:

256-21009 SMK

NJF ssue date: 10-26-202

REVISIONS:

initial: II/22/2| JPP
MIRRORED PLANS ADDED

08/18/23 MMD
STRAP, PORTAL FRANE, GARAGE EXT. HALLS

SMITH DOUGLAS HOMES

PLAN BRACING MODI

GINNIS

120 MPH WIND ZONE NORTH CAROLINA

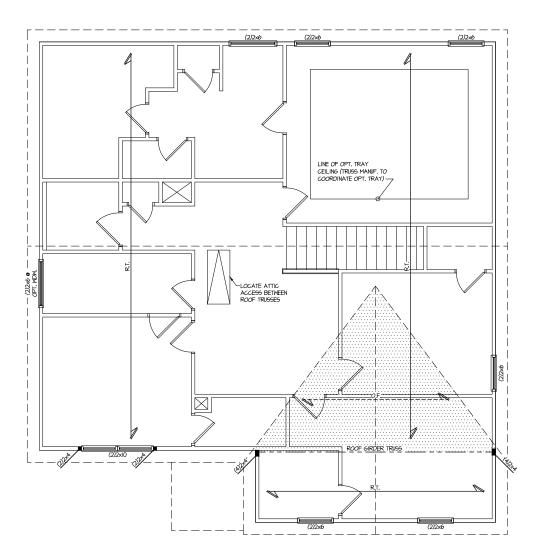
WALL

OOR

급

ST

**S3.0**l





ELEV. A, D, G, & J

MULHERN+KULP

RESIDENTIAL STRUCTURAL ENSINEERING

STEEMISTIC PRINCE, SUP TO - Address SA 2002

\$770-771-601-6 million prince

NC License # C-3825



Mulhern+Kulp project number:

256-21009

SMK MJF issue date: 10-26-202

initial: II/22/2| JPP
MRRORED PLAIS ADDED

08/18/23 MMD
STRAP, PORTAL FRANE, GARAGE EXT. WALLS

SMITH DOUGLAS HOMES

MCGINNIS MODEI FRAMING PLAN

ROOF

**S4.0** 

120 MPH WIND ZONE NORTH CAROLINA

Duncans Lot 38

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

REFER TO 50.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

### LEGEND

• RT. INDICATES 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 I-JOISTS (24" O.C., MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER

• D.J. INDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.) INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.

JOIST MANUFACTURER SHALL DESIGN FLOOR

SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE
LOCATIONS.

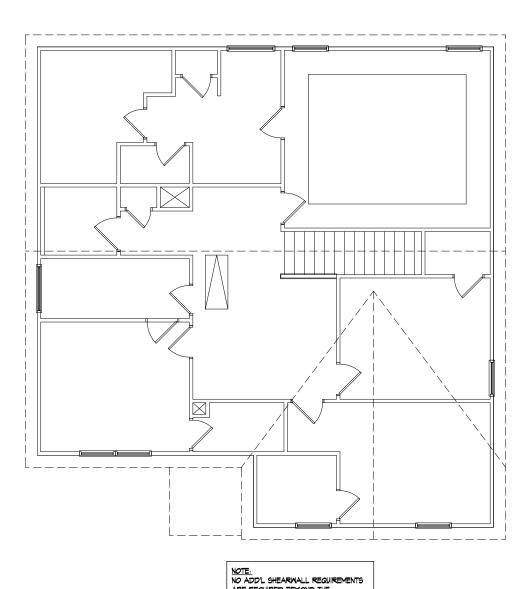
• IIIIIIII INTERIOR BEARING WALL

• CTTT BEARING WALL ABOVE (B.W.A.)

• --- BEAM/HEADER

• JL METAL HANGER

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



ARE REQUIRED BEYOND THE

2ND FLOOR WALL BRACING PLAN

SCALE: 1/4"=1'-0" ON 22x34

1/8"=1'-0" ON 11x17

STANDARD EXTERIOR WALL SHEATHING

ELEV. A, D, G, & J

### \_ATERAL/MALL BRACING & MALL SHEATHING SPECIFICATIONS

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

20MPH WIND IN 2018 NCSBC:RC \$ 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 OF 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.

• 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3 XO.113 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 ¾" 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" x 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.

- 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

### Duncans \_ot 38

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

REFER TO SO.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

F.J. NDICATES 14" DEEP FLOOR 1-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER

LOCATIONS.

• IIIIIII INTERIOR BEARING WALL

■ □□□□□ BEARING WALL ABOVE (B.W.A.)

METAL HANGER

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

EXT. WALL SHEATHING SPECIFICATION

8/18/23

MUCHERN + KULP

RESIDENTIAL STRUCTURAL ENGINEERING

SESTIMATION - STRUCTURAL ENGINEERING

PARTICULAR - ENGINEERING

NC License # C-3825



Mulhern+Kulp project number:

256-21009

SMK MJF ssue date: 10-26-202

REVISIONS:

initial: II/22/21 JPP MIRRORED PLANS ADDED 08/18/23 MMD STRAP, PORTAL FRANE, GARAGE EXT. HALLS JPP

SMITH DOUGLAS HOMES

PLAN BRACING MODI WALL GINNIS

120 MPH WIND ZONE NORTH CAROLINA

FLOOR

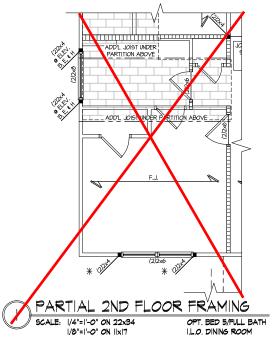
2ND

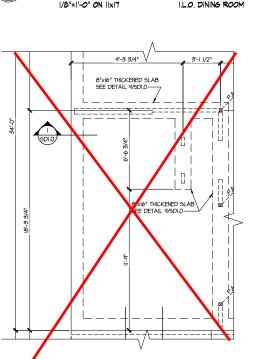
LEGEND

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

D.J. NDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.) INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.
JOIST MANUFACTURER SHALL DESIGN FLOOR
SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE

BEAM/HEADER





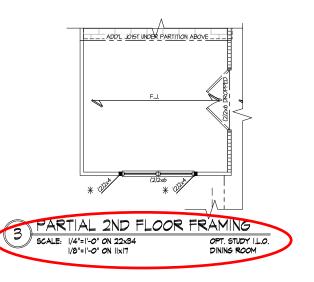
PARTIAL MONO-SLAB FOUNDATION

OPT. BED 5/FULL BATH

I.L.O. DINING ROOM

9 PAR I AL I NO ...

SCALE: 1/4"=1"-0" ON 22x34
1/8"=1"-0" ON IIx17



### Duncans Lot 38

REFER TO SO.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

### LEGEND

• RT. INDICATES 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 I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER

• D.J. INDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.) INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.
JOIST MANUFACTURER SHALL DESIGN FLOOR
SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE

LOCATIONS. • IIIIIIII INTERIOR BEARING WALL

• CTTT BEARING WALL ABOVE (B.W.A.)

• —-- BEAM/HEADER

• JL METAL HANGER

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

MUCHERNAL STRUCTURAL ENGINEERING
SEE ENGLISH PRIVAL, SEE SA STREET STRUCTURAL ENGINEERING
STRUCTURAL STRUCTURAL ENGINEERING
STREET STRUCTURAL ENGINEERING
STRUCTURAL STRUCTURAL ENGINEERING
STRUCTURAL STRUCTURAL ENGINEERING

Mulhern+Kulp project number: 256-21009

SMK MJF issue date: 10-26-202

II/22/2| JPP
MROORED PLAIS ADDED

08/18/23 MMD
STRAP, PORTAL FRAME, GARAGE EXT. MALLS

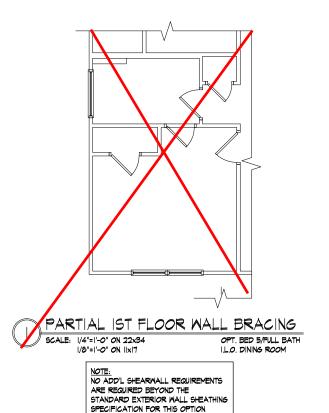
SMITH DOUGLAS HOMES

MCGINNIS MODEI

120 MPH WIND ZONE NORTH CAROLINA

OPTIONS

**S5.0** 



NO ADD'L SHEARWALL REQUIREMENTS ARE REQUIRED BY OND THE STANDARD EXTERIOR AND SHEATHING SPECIFICATION FOR THIS OPTION PARTIAL MONO-SLAB FOUNDATION SCALE: 1/4"=1'-0" ON 22x34 OPT, BED 5/FULL BATH I.L.O. DINING ROOM

### \_ATERAL/MALL BRACING & MALL SHEATHING SPECIFICATIONS

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

\$ 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 OF 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 IIII THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

PARTIAL IST FLOOR WALL BRACING

NOTE: NO ADD'L SHEARWALL REQUIREMENTS

ARE REQUIRED BEYOND THE STANDARD EXTERIOR WALL SHEATHING

SPECIFICATION FOR THIS OPTION

OPT. STUDY I.L.O.

SCALE: 1/4"=1'-0" ON 22x34

/8"=1'-0" ON 11x17

### EXT. WALL SHEATHING SPECIFICATION

• 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3 XO.113 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 ¾" 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" x 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.

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN,
- DESIGN ASSUMES 16" O.C MAX, STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY
- 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

IT WILL BE SPECIFICALLY NOTED ON PLAN.

APPLIED TO STUD FRAMING.

### Duncans \_ot 38

REFER TO 50.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

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

F.J. NDICATES 14" DEEP FLOOR 1-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER

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

• IIIIIII INTERIOR BEARING WALL

• □===□ BEARING WALL ABOVE (B.W.A.)

BEAM/HEADER

JL METAL HANGER

BLOCKING UNDER POST OR JAMB ABOVE.

8/18/23

MULHERN + KULP
RESIDENTIAL STRUCTURAL ENSINEERING
SESTIMATED + INDIRECTOR - Advance SA 1922
F/TO-7/1-4/1-1 - Indirector - Advance SA 1922
NC License # C-3825

Mulhern+Kulp project number:

256-21009 SMK MJF

ssue date: 10-26-202

REVISIONS:

II/22/2| JPP MRRORED PLANS ADDED 08/18/23 MMD STRAP, PORTAL FRANE, GARAGE EXT. MALLS

SMITH DOUGLAS HOMES

MODE GINNIS

120 MPH WIND ZONE NORTH CAROLINA

ONS

OPTI

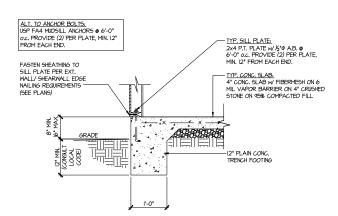
**S5.01** 

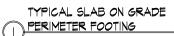
LEGEND RT. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

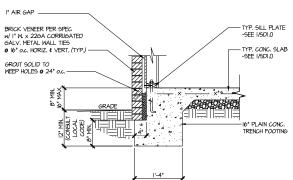
D.J. NDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.)

LOCATIONS.

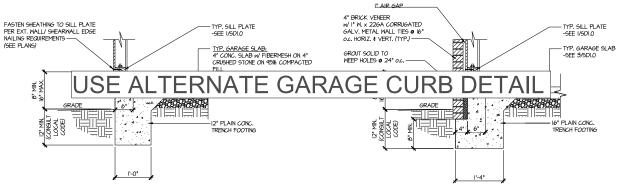
INDICATES POST ABOVE (P.A.) PROVIDE SOLID







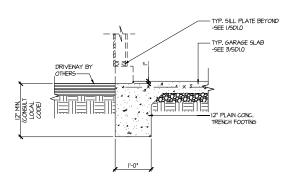




TYPICAL SLAB ON GRADE GARAGE

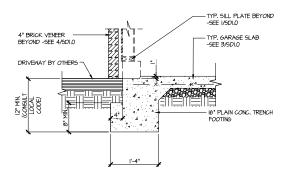
(3) PERIMETER FOOTING





TYPICAL SLAB ON GRADE GARAGE

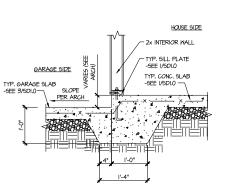
(5) ENTRY @ PERIMETER FOOTING



TYPICAL SLAB ON GRADE GARAGE

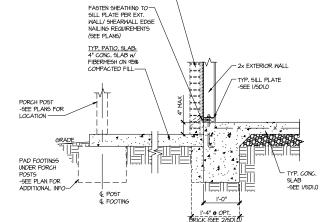
ENTRY @ PERIMETER FOOTING

N/ BRICK VENER



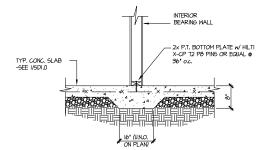
TYPICAL MONOLITHIC INTERIOR

GARAGE FOOTING



OPT. BRICK (SEE ARCH FOR LOCATIONS)

> TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

Duncans Lot 38

SEAL SEAL STATE OF THE STATE OF THE SEAL SCALE OF THE STATE OF THE STA

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERINS
SESTIMATION STRUCTURAL ENGINEERINS
PLETTING - EMBRINGHAM
PLETTING - EMBRING - EMBRINGHAM
PLETTING - EMBRING - EMBRINGHAM
PLETTING - EMBRING - EMBRIN

# C-3825

A SESSION OF THE SESS

Mulhern+Kulp project number: 256-21009

project mgr: SMK drawn by: MJF issue date: 10-26-202

REVISIONS:

date: initial:

11/22/21

HRROGED PLANS ADDED

08/18/23

MMD

STRAP, FORTIAL FRANE, GARAGE EXT. WALLS

SMITH DOUGLAS HOMES

FOUNDATION DETAILS
MCGINNIS MODEL

MCGINNIS M 120 mph wind zone north carolina

SD1.0





3625 Brookside Parkway, Suite 165, Alpharetta, GA 30022 🔻 p 770-777-0074 🔻 mulhernkulp.com

August 18, 2023

lody Hunt

Director of Product Development

## **SMITH DOUGLAS HOMES**

110 Village Trail, Suite 215 Woodstock, GA 30188

## **ALTERNATE GARAGE CURB DETAIL**

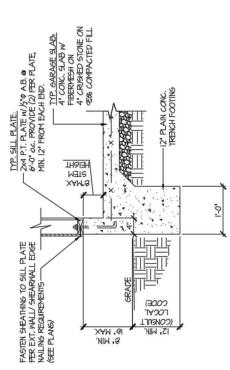
### Smith Douglas Homes

### Reference

Current Structural Plans prepared by Mulhern & Kulp

Jody:

these are an acceptable alternative to the 6" wide curb at the garage per M&K foundation details 3 & 4 on sheet SD-1.0 at 2x4 garage Pursuant to your request, we have prepared this letter to address the "Alternate Garage Curb Details", prepared by Mulhern & Kulp for Smith Douglas Homes shown below. The foundation details shown below call for a 4" wide curb with a maximum of 8" stem wall height; wall locations.



TYP. SILL PLATE.

— 2x4 P.T. PLATE W/\$'\$ AB. \$\text{6} \cdot 6'-0" oz. PROVIDE (2) PER PLATE, MIN. 12" FROM EACH BND. 8"MAX. STEM HEIGHT NIN .8 4" BRICK VENETR
W |" W. x 226A CORRUGATED
6ALY. METAL WALL TIES & I6"
0c. HORIZ. ‡ VERT. (TYP) GROUT SOLID TO WEEP HOLES & 24" (3002) | 1007|T |(00/301|TL |15|| WIN &" MN, 16" MAX.

> TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING 4

M/ BRICK VENERR TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING m

MANDER

Please feel free to call if you have any questions.

Respectfully,

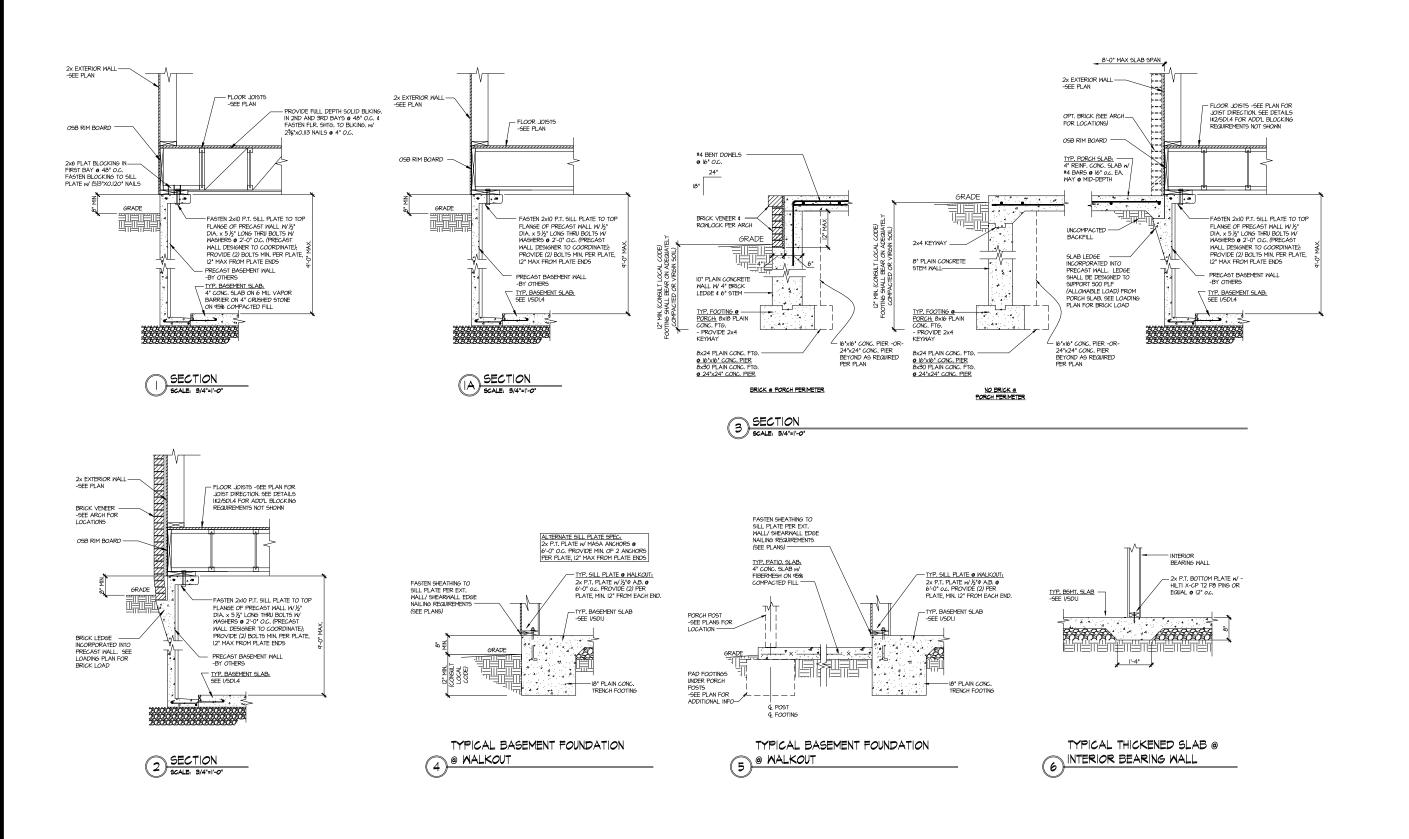
# **MULHERN & KULP STRUCTURAL ENGINEERING, INC.**

NC License # C-3825

Project Manager + Atlanta Office Director Shaun M. Kreidel, P.E.



P:|Client Files|256 - Smith Douglas Homes|2023|23000 - 2023 Client Admin|2023-08-17 - 4in Garage Curb Letter|Alternate Garage Curb Detail - Letter - NC.docx



8/18/23

MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERINS 

Mulhern+Kulp project number: 256-21009

SMK

MJF issue date: 10-26-202

REVISIONS:

initial: II/22/2| JPP MRRORED PLAIG ADDED 08/18/23 MMD STRAP, PORTAL FRAME, GARAGE EXT. MALLS

SMITH DOUGLAS HOMES

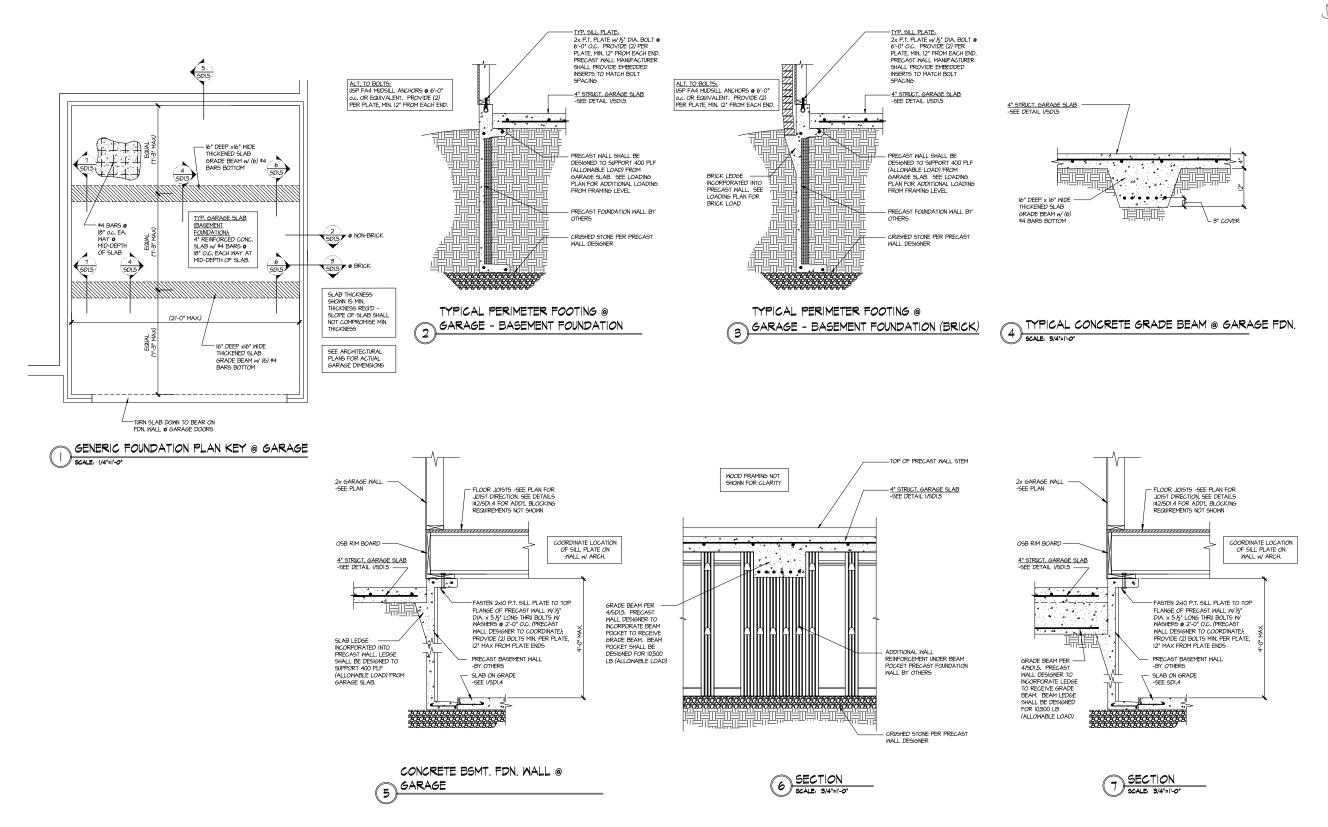
MODE FOUNDATION DETAILS GINNIS

120 MPH WIND ZONE NORTH CAROLINA

Duncans

\_ot 38

**SD1.4** 



Duncans \_ot 38

pyright : MULHERN & KULP Structural Engineeri

8/18/23

ise # C-3825

MULHERN+KULP RESIDENTIAL STRUCTURAL ENSINEERINS



Mulhern+Kulp project number: 256-21009

SMK MJF issue date: 10-26-202

REVISIONS:

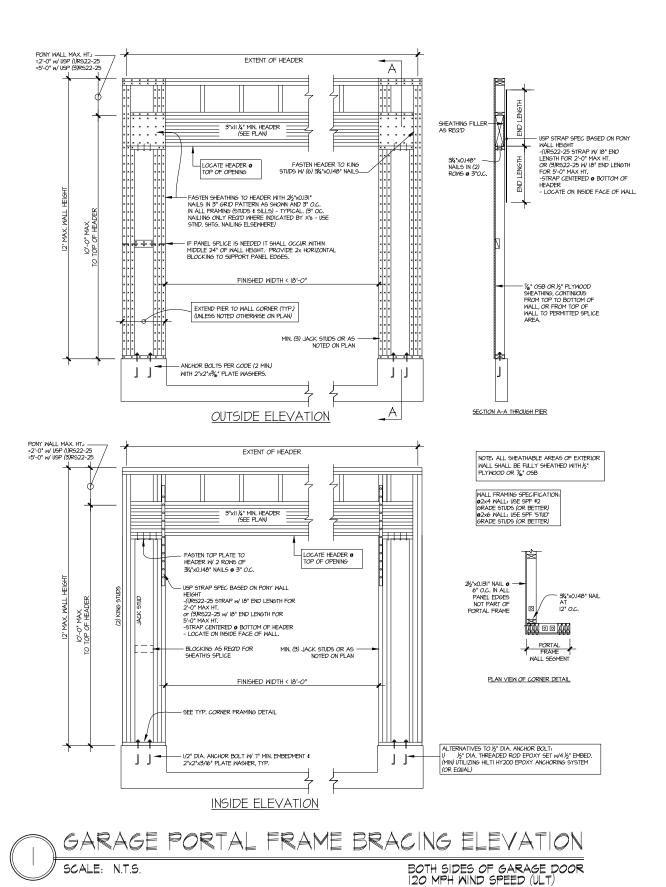
initial: II/22/2| JPP MRRORED PLAIG ADDED 08/18/23 MMD STRAP, PORTAL FRAME, GARAGE EXT. NALLS

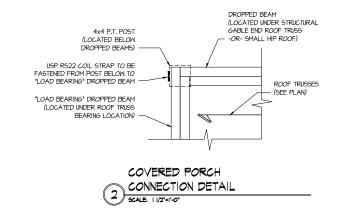
SMITH DOUGLAS HOMES

MODI FOUNDATION DETAILS GINNIS

120 MPH WIND ZONE NORTH CAROLINA MC

SD1.5





8/18/23

MULHERN+KULP

RESIDENTIAL STRUCTURAL ENSINEERINS

SESTEMATION STRUCTURAL ENSINEERINS

\$77877474 - Inchesioneric

NC License # C-3825

Mulhern+Kulp project number: 256-21009

MJF

REVISIONS:

II/22/2| JPP
MIRRORED PLANS ADDED

08/18/23 MMD
STRAP, PORTAL FRAME, GARAGE EXT. HALLS

issue date: 10-26-202

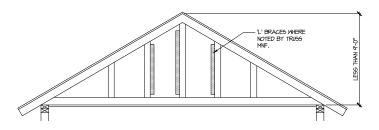
SMITH DOUGLAS HOMES

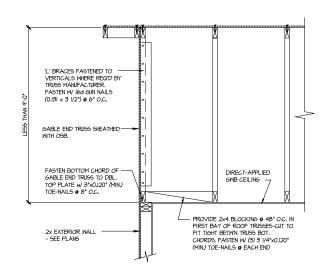
MODE

120 MPH WIND ZONE NORTH CAROLINA MCGINNIS FRAMING DETAILS

**SD2.0** 

Duncans Lot 38





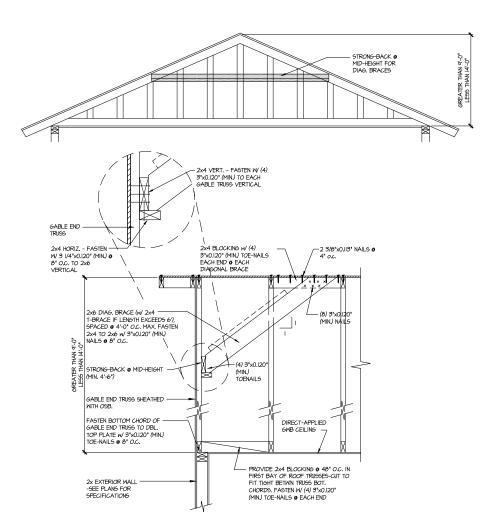
BRACE GABLE END TRUSGES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9'-O'. L' BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.

TYPICAL GABLE END BRACING DETAIL SCALE. NOWE REGIO & GABLE END TRISS

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.



B TYPICAL GABLE END BRACING DETAIL SCALE. NONE RECT & SABLE END TRUSS

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

8/18/23

MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING

RESIDENTIAL STRUCTURAL ENGINEERING

FTG-TIT-GRI - ENGINEERING

FTG-TIT-GRI - ENGINEERING

NC License # C-3825



Mulhern+Kulp project number:

256-21009

SMK MJF issue date: 10-26-202

REVISIONS:

initial: II/22/2| JPP
MIRRORED PLAIG ADDED

08/18/23 MMD
STRAP, PORTAL FRAME, GARAGE EXT. MALLS

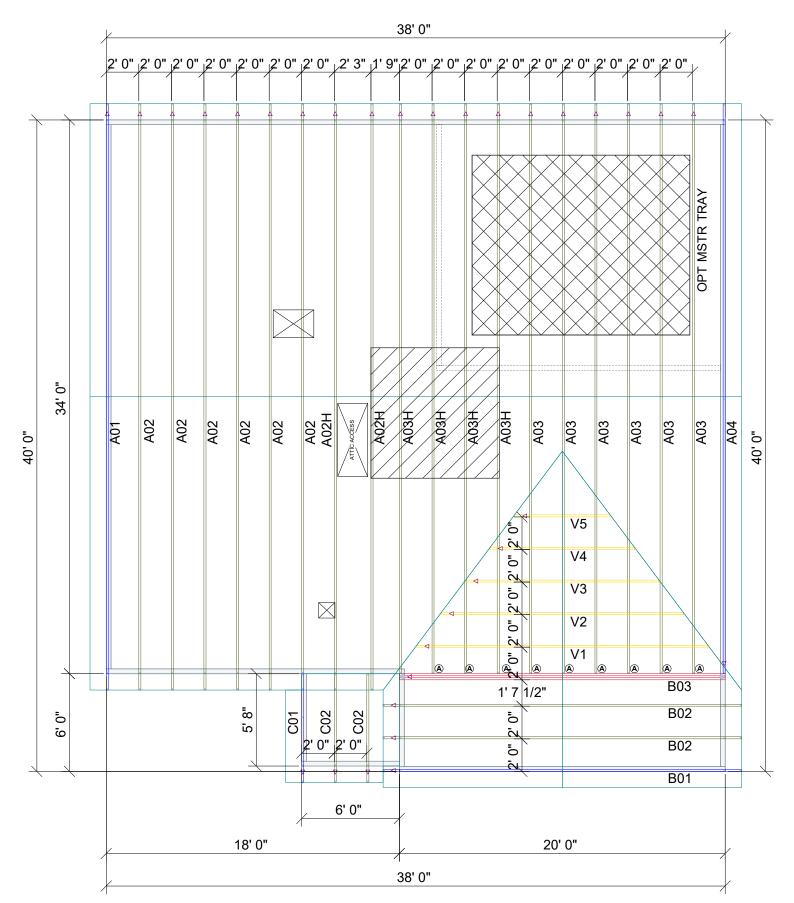
SMITH DOUGLAS HOMES

MCGINNIS MODEI FRAMING DETAILS

120 MPH WIND ZONE NORTH CAROLINA

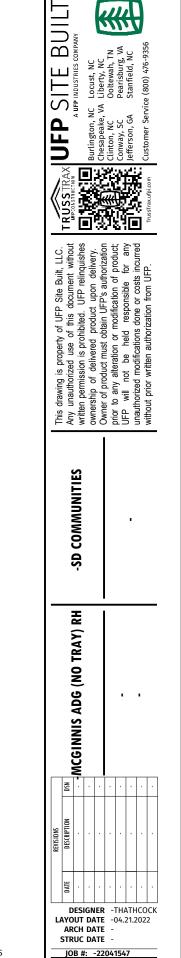
Duncans **SD2.1** Lot 38

### 72332449 38 DUNCANS CROSSING



Roof Hanger List				
MARK TYPE		DESCRIPTION	QTY	
(A)	HUS26	FACE MOUNT HANGER	9	

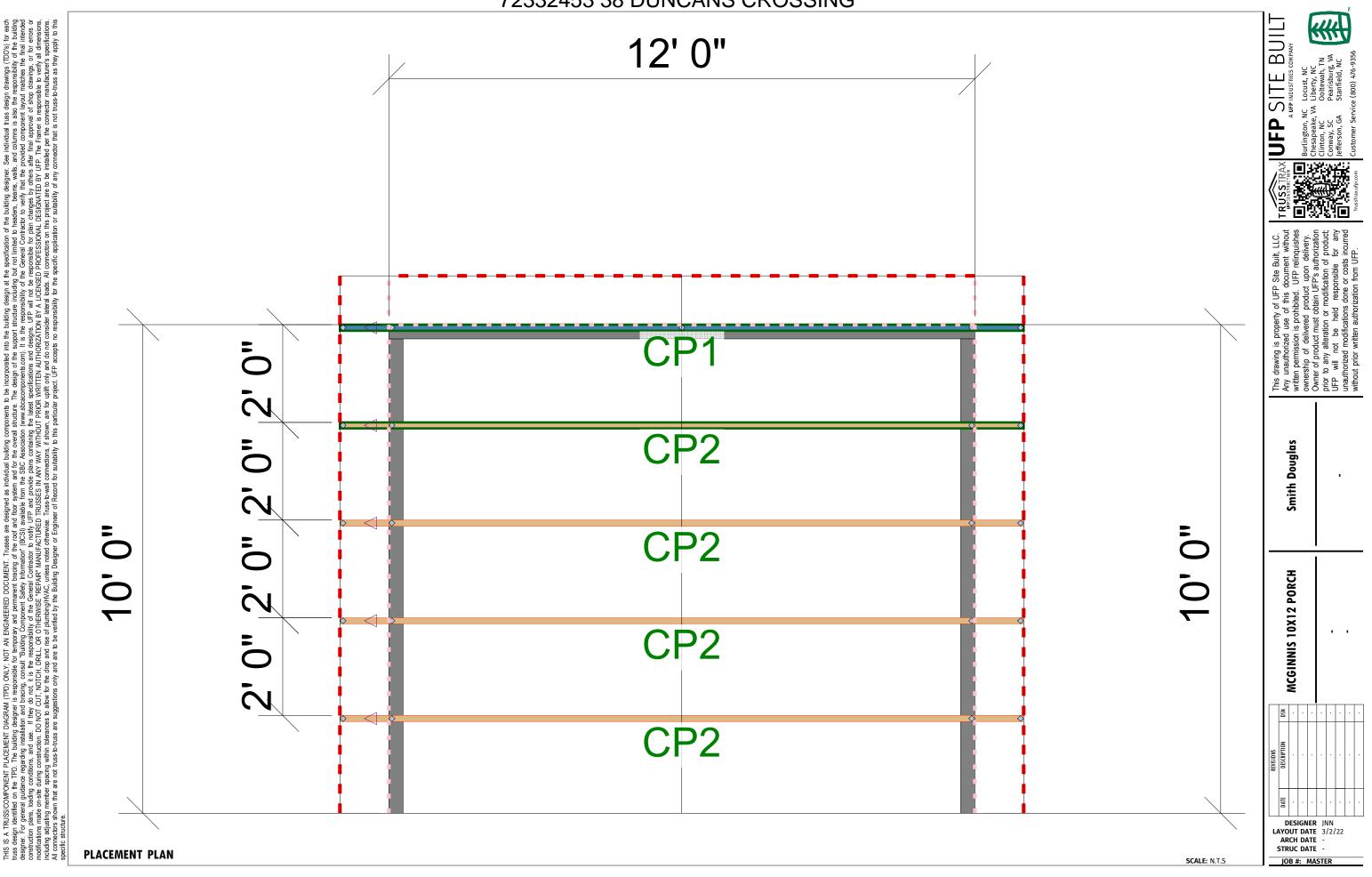
### **MCGINNIS ADG**

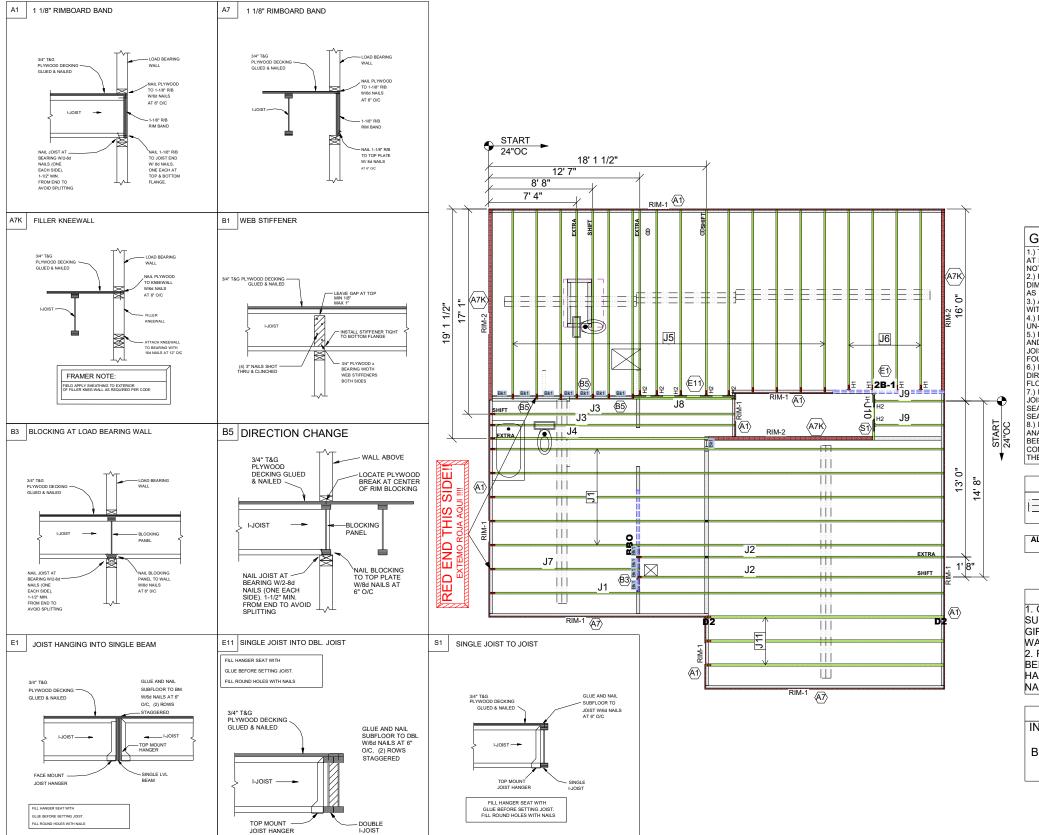


**PLACEMENT PLAN** 

SCALE: N.T.S

### **72332453 38 DUNCANS CROSSING**





		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	38' 0"	14" TJI® 110	1	6	MFD
J2	26' 0"	14" TJI® 110	1	2	MFD
J3	21' 0"	14" TJI® 110	1	2	MFD
J4	19' 0"	14" TJI® 110	1	1	MFD
J5	16' 0"	14" TJI® 110	1	16	MFD
J6	15' 0"	14" TJI® 110	1	4	MFD
J7	13' 0"	14" TJI® 110	1	1	MFD
J8	9' 0"	14" TJI® 110	2	2	FF
J9	6' 0"	14" TJI® 110	1	2	MFD
J10	4' 0"	14" TJI® 110	1	1	MFD
J11	20' 0"	14" TJI® 360	1	3	MFD
2B-1	10' 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	FF
RIM-2	12' 0"	14" Kneewall	1	4	FF
Bk1	2' 0"	14" TJI® 110	1	12	MFD

Connector Summary			
PlotID	Qty	Manuf	Product
H1	5	MiTek	IHFL1714
H2	7	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.

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

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

DENOTES DUCT HOLE RUNS

ALL DIMENSIONS TO CENTERLINE UNLESS

Avoid Plumbing Drops

### FRAMER NOTE 1. 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 NAILS.

### CRITICAL !!

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

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

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

TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED DOUBLE

### TO KEEP HOLES ALIGNED CONTAR EL LADO DE SIN MARCA

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

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

PLAN LEGEND

\*INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)

SINGLE PLY BEAM (ADD LINE FOR EACH ADDITIONAL PLY)

SHIFT JOIST TO MISS PLUMBING, ALIGN WWALL OR SUPPORT FURNITURE

FIELD TRIM NON RED END ROJA PARA HOYOS ALINEADOS

**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"	
	*

#SMITH DOUGLAS
#SMITH DOUGLAS
#Ob Name
MCGINNIS
Date:10/12/21
Scale:NTS
Revision Date1: Drawn By: CP3

NOTES: THIS DRAWING IS THE PROPERTY OF UFP MID-ATLANTIC. LLC AND IS NOT TO BE USED FOR ANY OF PURP MID-ATLANTIC, LLC INTEREST OF UFP MID-ATLANTIC, LLC CONJUNCTION WITH ALL OTHER STOCKNING MUTH ALL OTHER THIS DRAWINGS SUPPLIED BY THE MID-ATLANTIC LLC.

UFP MID-ATLANTIC, LLC

Drawing Number 21090682F2