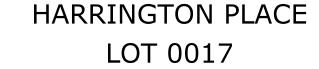
## BRADLEY





PLAN ID 120121.0901

SMITH DOUGLAS HOMES QUALITY | INTEGRITY | VALUE

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

## **DRAWING INDEX**

A0.0 **COVER SHEET** A1.1 FRONT ELEVATIONS A2.1 SIDE & REAR ELEVATIONS A3.1 **SLAB FOUNDATIONS** FIRST FLOOR PLANS AND OPTIONS A5.1 A6.1 **ROOF PLANS** A7.2 ELECTRICAL PLANS

AREA TABULATION		
FIRST FLOOR	1679	
TOTAL	1679	
GARAGE	396	
FRONT PORCH (COVERED)	20	
REAR PATIO (COVERED)	91	

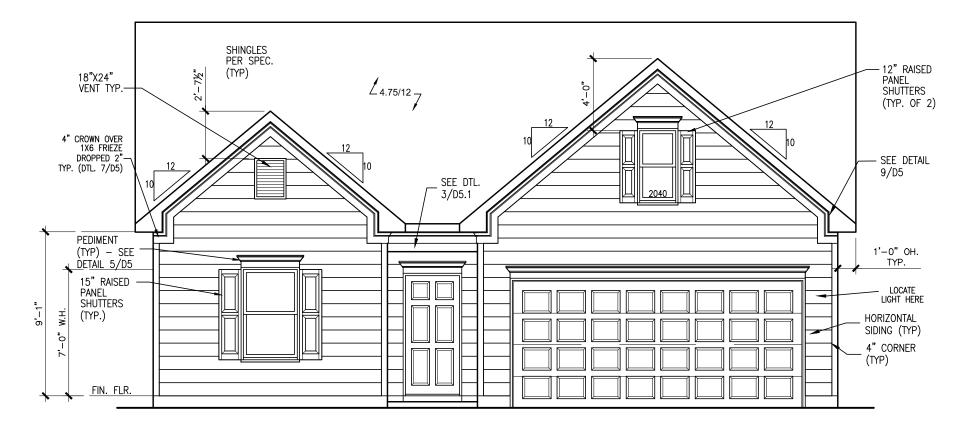
### **GOVERNMENTAL CODES & STANDARDS**

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 #
11/12/2021	AW	Prototype walk revisions - see revision sheet	ALL
1/6/2022	AW	PCR Increased size of HVAC platform when 2nd flr selected and removed 1 switch in Obath to tie LED light to vanity light	A5.2, A7.3-A7.4
4/21/2022	AW	PCR added 4-way switch to Family Rm light and added outlet in Fam Rm next to cooktop wall cabs	A7.3-A7.4
9/1/2022	AW	Changed field framing and misc. items - see revision sheet	A3.1.1, A5.1.1, A5.2. A5.3
6/7/2023	AW	Relocated PDS and HVAC platform to garage for ranch versions (to match new truss layouts)	A5.1-A8.1
9/21/2023	BB	Removed tub and shower sizes on all affected pages	A3.1, A5.1, A7.3

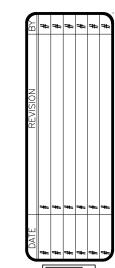


FRONT ELEVATION "A"

SCALE: 3/16"=1'-0"

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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

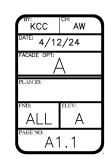


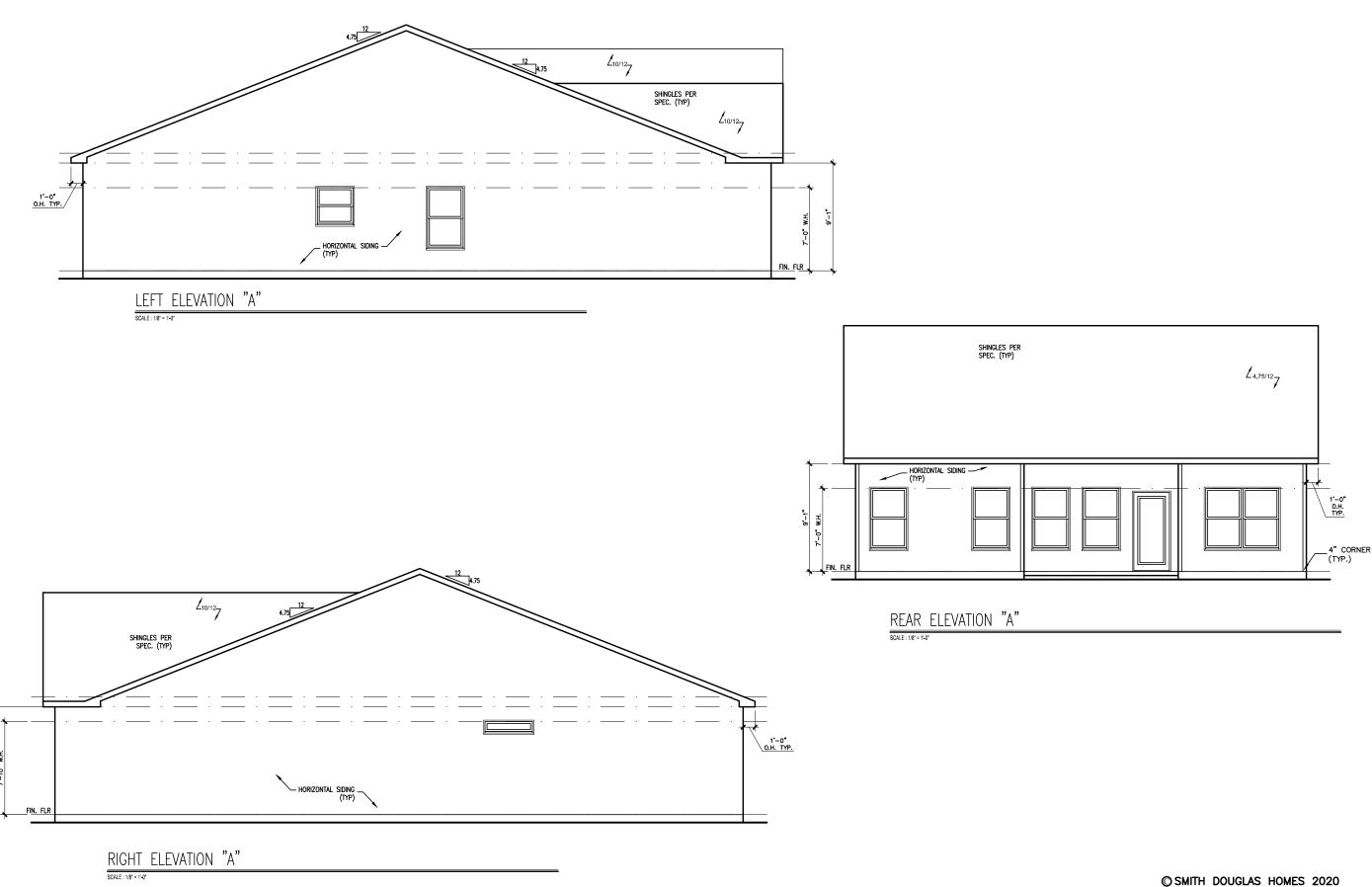
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ELEVATIONS FRONT ELEVATION BRADLEY

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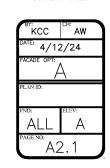


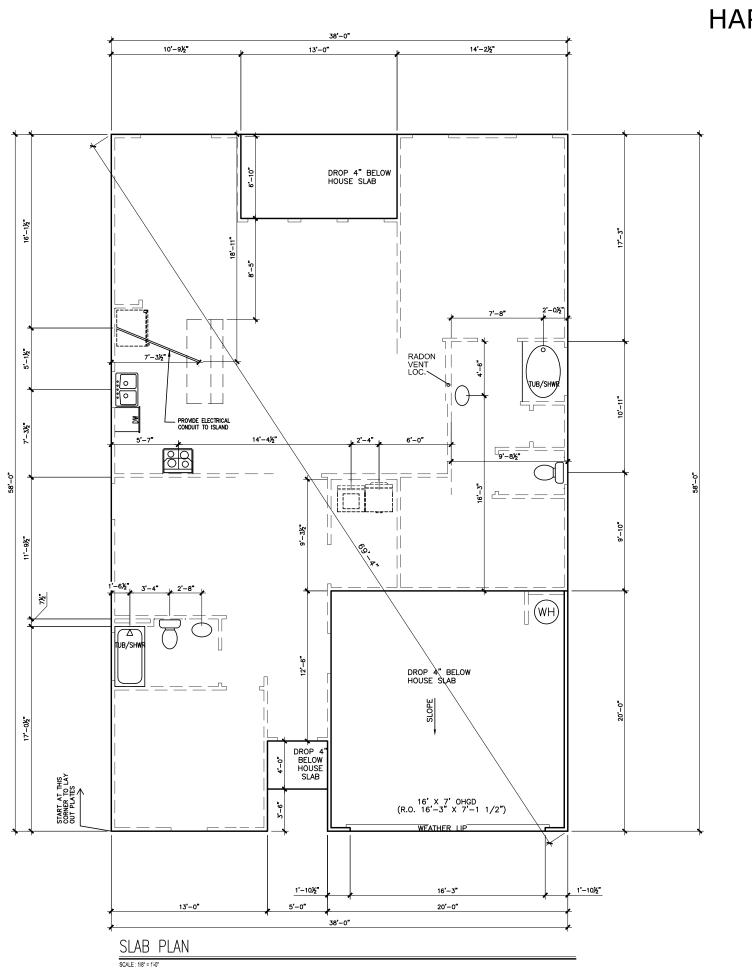


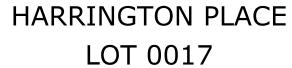
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ELEVATIONS JES AND REAR BRADLEY SIDES

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\*RADON VENT PROVIDED PER LOCAL CODE

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



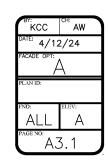


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FOUNDATION PLAN SLAB PLAN

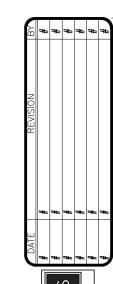
AB

BRADLEY



#### 14'-2½" 5'-4½" 2'-9½" 8'-7½" 2'-9½" 5'-5" (2) 2X12 #2 SYP FOR ALL A&B ROOF MASSING ELEVATIONS 3050 3050 TWIN 3050 (2) 2X10 HEADER COVERED PATIO DINING 9' CLG. HGT. 3068 F.L. 3050 OWNER'S TEMP. SUITE 9' CLG. HGT. **FAMILY** ROOM 9' CLG. HGT. OWNER'S BATH . KITCHEN 5'-3½" 4'-21/2" 4'-0"W. HDR. @ R&S o EXT. FOYER 9' CLG. HGT. 4'-3½" 2'-6" W.I.C LNDRY 9' clg. BEDROOM 3 9' CLG. HGT. WH (2) 2X4 5'-9½" VE. NO LIVING SPACE ABOVE GARAGE BATH GARAGE **FOYER** 9'-0" CLG. HGT. 3068 BEDROOM 2 COVERED PORCH START AT THIS CORNER TO LAY OUT PLATES 2'-6" 2'-6" 2'-0" 16'-0" FIRST FLOOR PLAN

## HARRINGTON PLACE LOT 0017



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FLOOR PLAN FIRST FLOOR BRADLEY

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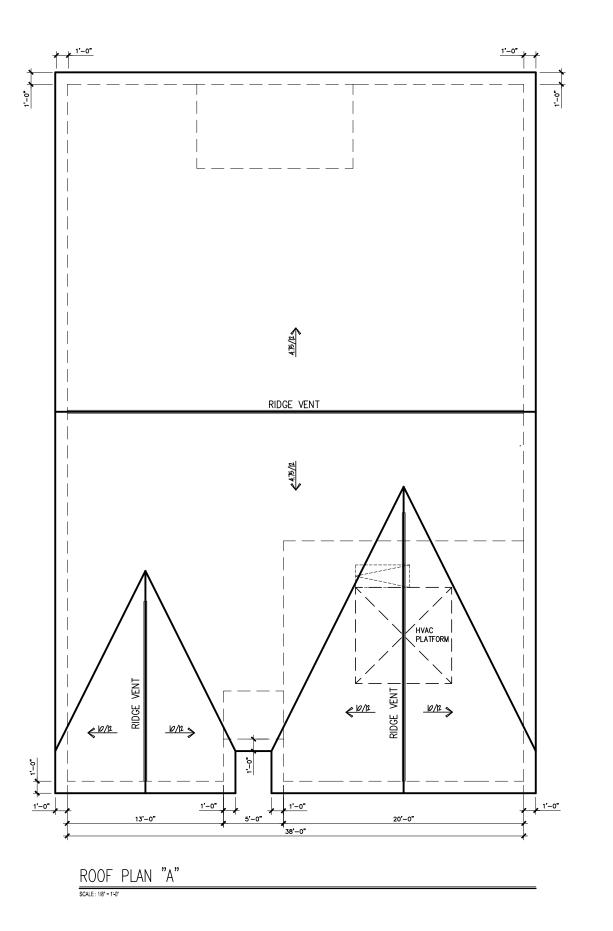
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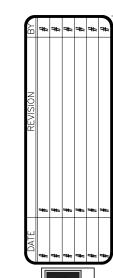


REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12,D12.1,D12.2 & D12.3

\*RADON VENT PROVIDED PER LOCAL CODE

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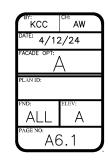


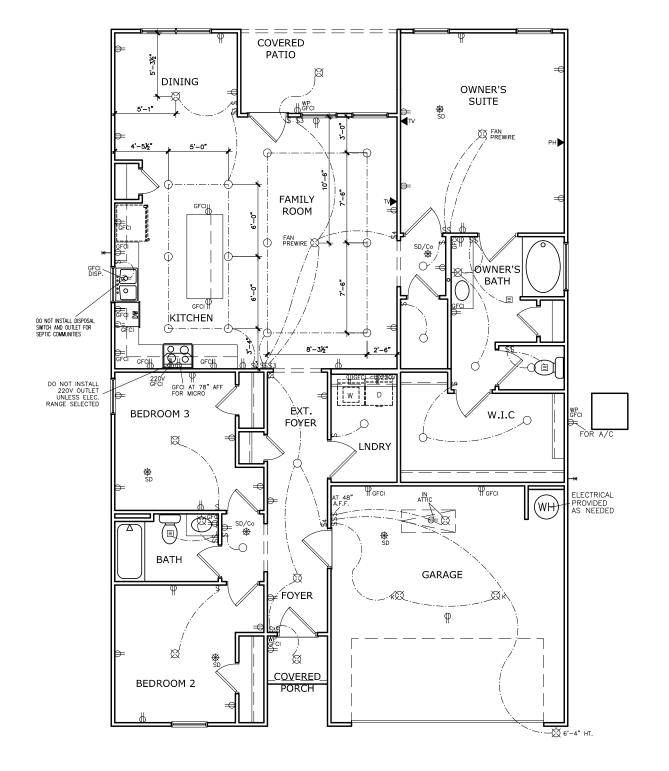
ROOF PLAN BRADLEY

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ELE	ELECTRICAL LEGEND			
\$	SWITCH	TV.	TV	
\$3	3 WAY SWITCH	ф	120V RECEPTACLE	
\$4	4 WAY SWITCH	<b>P</b>	120V SWITCHED RECEPTACLE	
Ø	CEILING FIXTURE	Φ	220V RECEPTACLE	
-\$\( \dag{k} \)	KEYLESS	PGFCI	GFCI OUTLET	
版	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUIT INTERRUPTER	
0	CEILING FIXTURE	† <sub>GL</sub>	GAS LINE	
•	FLEX CONDUIT		WATER LINE	
СН	CHIMES	¥	HOSE BIBB	
PH	TELEPHONE	8	FLOOD LIGHT	
SD/Cd	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE	
SO	SECURITY OUTLET		0511110 541	
	GARAGE DOOR OPENER		CEILING FAN	
	EXHAUST FAN		ELECTRICAL WIRING	
	FAN/LIGHT		CEILING FIXTURE	
ELEC.	ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES			
APPRO	APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)			
BREA	BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR			
KITCH	KITCHEN PENDANT LIGHTS 33" ABOVE COUNTER TOP			
TWO STORY FOYER FIXTURE 96" ABOVE		VE FINISHED FLOOR		
CEILING FAN 96" ABOVE FINI:			VE FINISHED FLOOR	

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

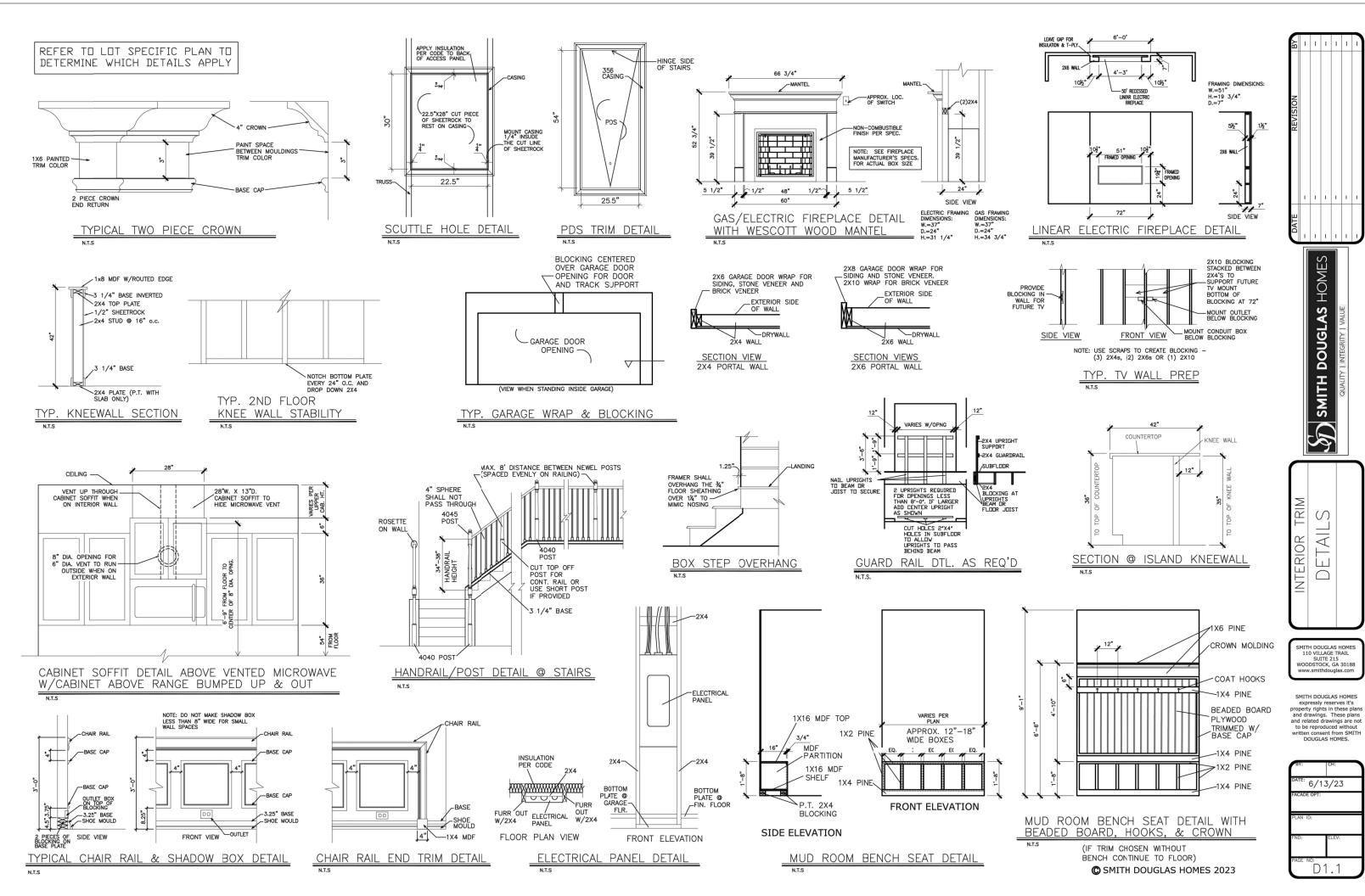
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ELECTRICAL PLAN FIRST FLOOR BRADLEY

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

DESCRIPTION OF BLDG. ELEMENT	3"x0.i3i" 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 <b>②</b> 16" o.c.
DOUBLE TOP PLATE	NAILS @ 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. & 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.	

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

#### 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 M&K FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

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

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

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

#### VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x/4"
	3 FT, MAX	L3"x3"x/4"
6'-0"	I2 FT. MAX	L4"x3"x¼"
	20 FT. MAX	L5"x3½"x5%"
8'-0"	3 FT, MAX	L4"x4"x½" *
	I2 FT. MAX	L5"x3½"x5%"
	I6 FT. MAX	L6"x3½"x¾"
9'-6"	I2 FT. MAX	L6"x3½"x5%"

. LINIELIS: \*ALL SUPPORT 2 %" - 3 ½" VENEER W/ 40 psf MAXIMUM MEIGHT 5' SHALL HAVE 4" MN. BEARING 5' SHALL HAVE 8" MIN. BEARING 5' SHALL NOT DE FASTENED BACK TO HEADER.

- 'SHALL BE FASTENED BACK TO MOOD HEADER IN WALL @48°O.C. w/ ½" DIA. x 3 ½" DIA SCREYS IN 2" LONG VERTICALLY SLOTTED HOLES X. VENEER H. APPLIES TO ANY PORTION OF BRICK OVER THE OPENINS.
- LL LINTELS SHALL BE LONG LEG VERTICAL. HEN SUPPORTING VENEER < 3" WIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 ¼" WIDE OVER THE BEARING LENGTH ONLY. THIS TO ALLOW FOR MORTAR JOINT FINISHING.
- TRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE
- TAKAMETERS. EN VENEER DEFT 4x3x½".

#### GENERAL STRUCTURAL NOTES

#### **FOUNDATION**

DESIGN IS BASED ON 2018 NCSBC-RESIDENTIAL CODE

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

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 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 BACKFILL. CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN
- BASEMENT WALLS SHALL BE BRACED PRIOR TO BACKELLING BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st 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'-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
- COVER WHERE CAST AGAINST FARTH 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 VERIEY

R.T. NINDICATES ROOF TRUSSES @ 24" O.C. PER ROOF.

LEGEND

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

F.J. NDICATES 14" DEEP FLOOR 1-JOISTS (24" O.C. MAX SPACING) LOIST 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 IO PSF DEAD LOAD AT THESE LOCATIONS

- INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE (B.W.A.)
- JL METAL HANGER
- 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:

OMPH WIND IN 2018 NGSBC:RO \$ 120MPH WIND IN 2018 IRC

(120 MPH WIND SPEED IN ASCE T WIND MAP PER IRC R301211) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 & 2018 IBO SECTION (609) & ASCE 7, AS PERMITTED BY R30113 OF THE 2018 NGSBG:RC & 2018 IRC. IF THE PARAMETERS OF SECTION R602.12 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIET LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NGSBG:RG & 2018 IRG SECTION R802.ILLL THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

#### EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3 "x0.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 × 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. FDGE 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

#### FLOOR FRAMING

- I-, IOISTS 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 INSTALLERS 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 🖁 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD - 2 3 x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.

#### 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 1 x 0.131 NAILS @ 6"o.c. @ PANEL EDGES & @ 12" O.C. FIELD. - w/ 2 3" x 0.120" NAILS @ 4"a.c. @ PANEL EDGES & @ 8" O.C. 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 FIELDS 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.O.
- 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 VERIF LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

#### GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NGSBG-RESIDENTIAL CODE
- MOOD 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

- 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/ (I)2x JACK STUD & (I)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:
- 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=2.0xl0^6 psi

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

- 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 FOLIAL 13/1" MAX WIDTH FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"XO.120" NAILS @ 8" O/C OR 2 ROWS IMP WS35 SCREWS (OR 3K" TRUSSLOK SCREWS) @ 16" O/C, USE 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 ½ BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8
- FOR 4 PLY BEAMS OF EQUAL 13/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF USP MG6 SCREWS (OR 6 3/4 TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 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.

#### HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
HD-I	USP HTT45 HOLD-DOWN W/ STBI6 ANCHOR BOLT *
HD-2	USP STADI4 HOLD-DOWN STRAP
HD-3	USP MSTC40 HOLD-DOWN STRAP

ALTERNATIVE TO STBI6 ANCHOR BOLT SPECIFICATION:

ANCHOR HOLD-DOWN UTILIZING THREADED ROD (REFER TO USP SPECIFICATION FOR ANCHOR DIAMETER) FROXY-SET INTO CONCRETE FOUNDATION W/ USP CIA-GEL TOOO EPOXY SYSTEM PER MANUF, RECOMMENDATIONS,

CONC. FOUND. - PROVIDE 9" MIN. EMBEDMENT INTO CONCRETE. DO NOT LOCATE EPOXY-SET ANCHORS WITHIN I 34" OF FACE OF CONCRETE FOUNDATION.

CMU FOUND. - PROVIDE 12" MIN. EMBEDMENT INTO SOLID GROUTED CELLS. DO NOT LOCATE EPOXY-SET ANCHORS WITHIN 3" OF EDGE OF CMU FOUNDATION.

> Harrington \_ot 17



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MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI

C-3825

Aulhern+Kulp project number 256-2101

SMK roject ma M.JF ssue date: 02-21-2022

REVISIONS

initial: KMV SMM

> S ⋖ SMITH DOUGL HOMES

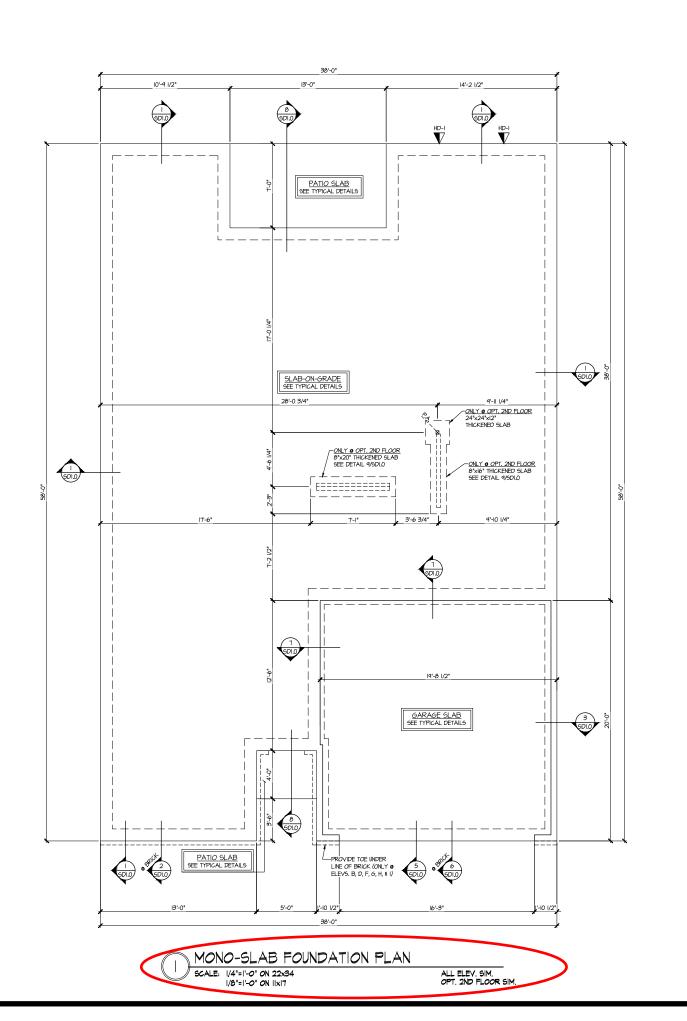
STRUCTURAL NOTES

MOD ADLEY GENERAL  $\simeq$ 

I WIND ZONE CAROLINA

120 MPH NORTH (

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RESIDENTIAL STRUCTURAL ENGINEERING

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Mulhern+Kulp project number

256-2101

MJF issue date: 02-21-2022

REVISIONS:

date:	initial:
03/09/2022 MIRRORED PLANS ADDED	KMV
08/17/2022 UPDATE PER ARCH COMMENTS	SMM

SMITH DOUGLAS HOMES

MODE

FOUNDATION BRADLEY MONO-SLAB

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 SPACING), JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER

□□□□□ BEARING WALL ABOVE (B.W.A.)

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

#### LEGEND

Harrington

REFER TO SO.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

\_ot 17

HOLD-DOWN SCHEDULE

SPECIFICATION

USP STADI4 HOLD-DOWN STRAP

USP MSTC40 HOLD-DOWN STRAP

SPECIFICATION FOR ANCHOR DIAMETER). EFOXY-5ET INTO CONCRETE FOUNDATION W USP CIA-GEL TOOO EPOXY SYSTEM PER MANUF. RECOMMENDATIONS.

(ONC. FOUND. - PROVIDE 4" MIN. EMBEDMENT INTO CONCRETE. DO NOT LOCATE FOXY-SET ANCHORS WITHIN 1 34" OF FACE OF CONCRETE FOUNDATION.

CML FOUND. - PROVIDE 12" MIN. EMBEDMENT INTO SOLID GROUTED CELLS. DO NOT LOCATE EPOXY-SET ANCHORS WITHIN 3" OF EDGE OF CMJ FOUNDATION.

ALTERNATIVE TO STBI6 ANCHOR BOLT SPECIFICATION: \* ANCHOR HOLD-DOWN UTILIZING THREADED ROD (REFER TO USP SPECIFICATION FOR ANCHOR DIAMETER). EPOXY-SET INTO

USP HTT45 HOLD-DOWN w/ STBI6 ANCHOR BOLT \*

SYMBOL

HD-I

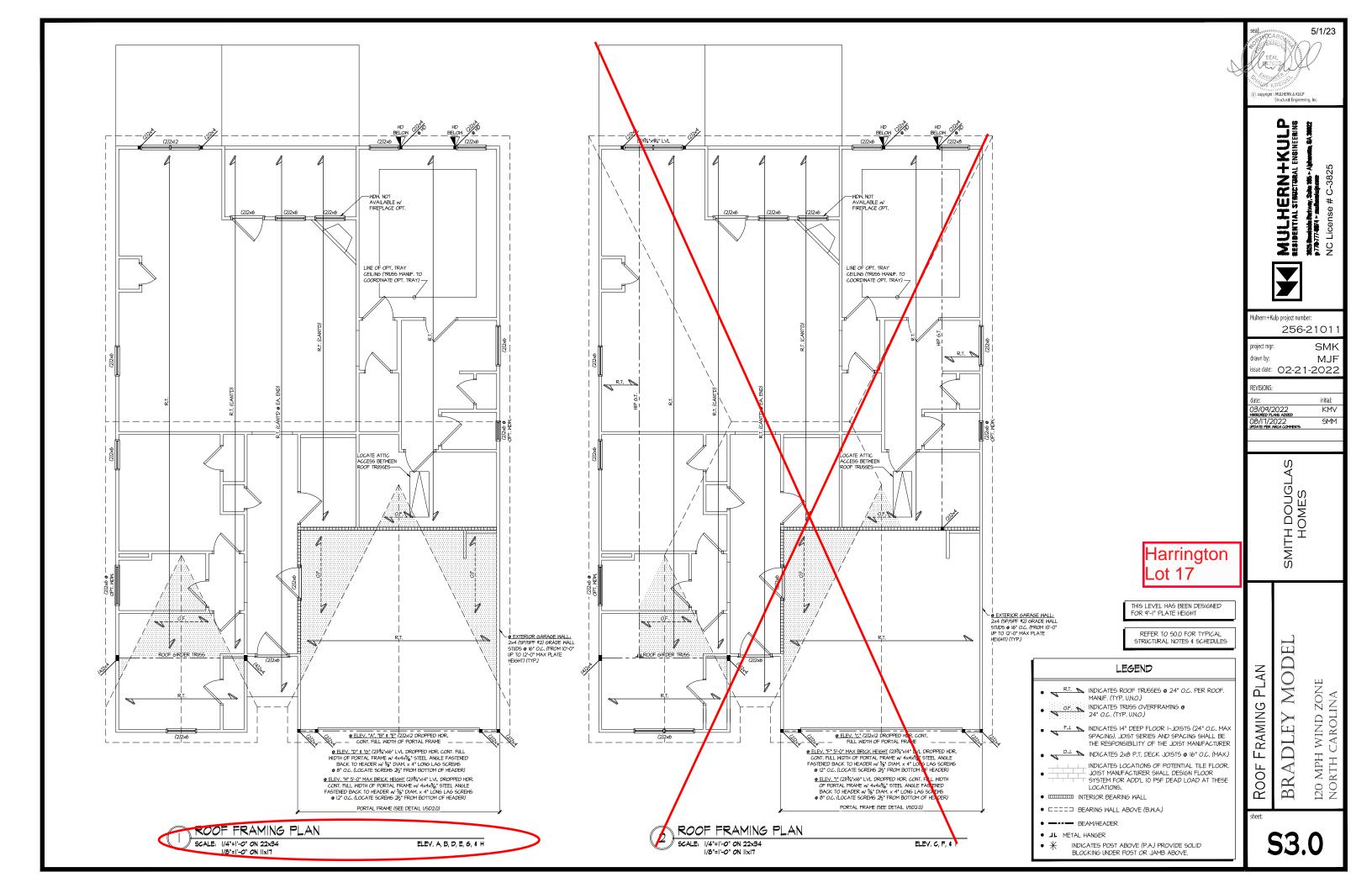
HD-2

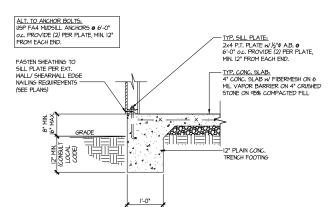
D.J. NDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.) INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.
JOIST MANUFACTURER SHALL DESIGN FLOOR
SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE

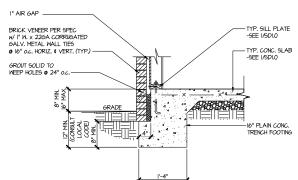
INTERIOR BEARING WALL

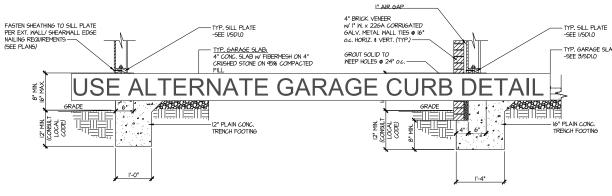
BEAM/HEADER

120 MPH WIND ZONE NORTH CAROLINA









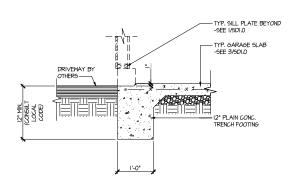
OPT. BRICK (SEE ARCH FOR LOCATIONS)



TYP. SILL PLATE BEYOND

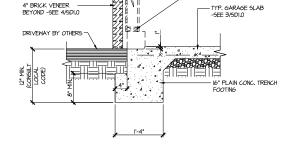


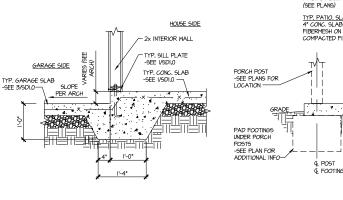


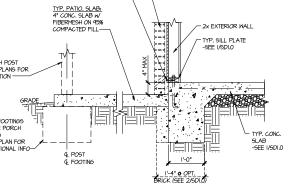


TYPICAL SLAB ON GRADE

PERIMETER FOOTING







TYPICAL SLAB ON GRADE GARAGE

(5) ENTRY @ PERIMETER FOOTING

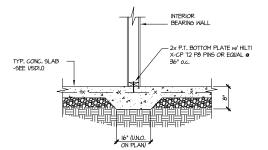
TYPICAL SLAB ON GRADE GARAGE

ENTRY @ PERIMETER FOOTING

N BRICK VENEE



TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

Harrington Lot 17

MULHERN+KULP MESIDENTIAL SIRUCTURAL ENGINEERINS MESIDENERINAL SIR TRE-ARMOND SANDE

#EST DENTIAL STRUCTURAL I MCS Brederide Perlyan, Sahe 1855 - Ale 2779-777-4874 - tendenskaponer NC License # C-3825

Mulhern+Kulp project number: 256-2101

project mgr: SMK drawn by: MJF issue date: 02-21-2022

REVISIONS:

> SMITH DOUGLAS HOMES

FOUNDATION DETAILS
BRADLEY MODEL

BRADLEY MO
120 MPH WIND ZONE
NORTH CAROLINA

heet:

SD1.0



August 18, 2023

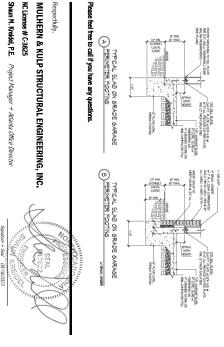
Jody Hunt
Director of Product Development

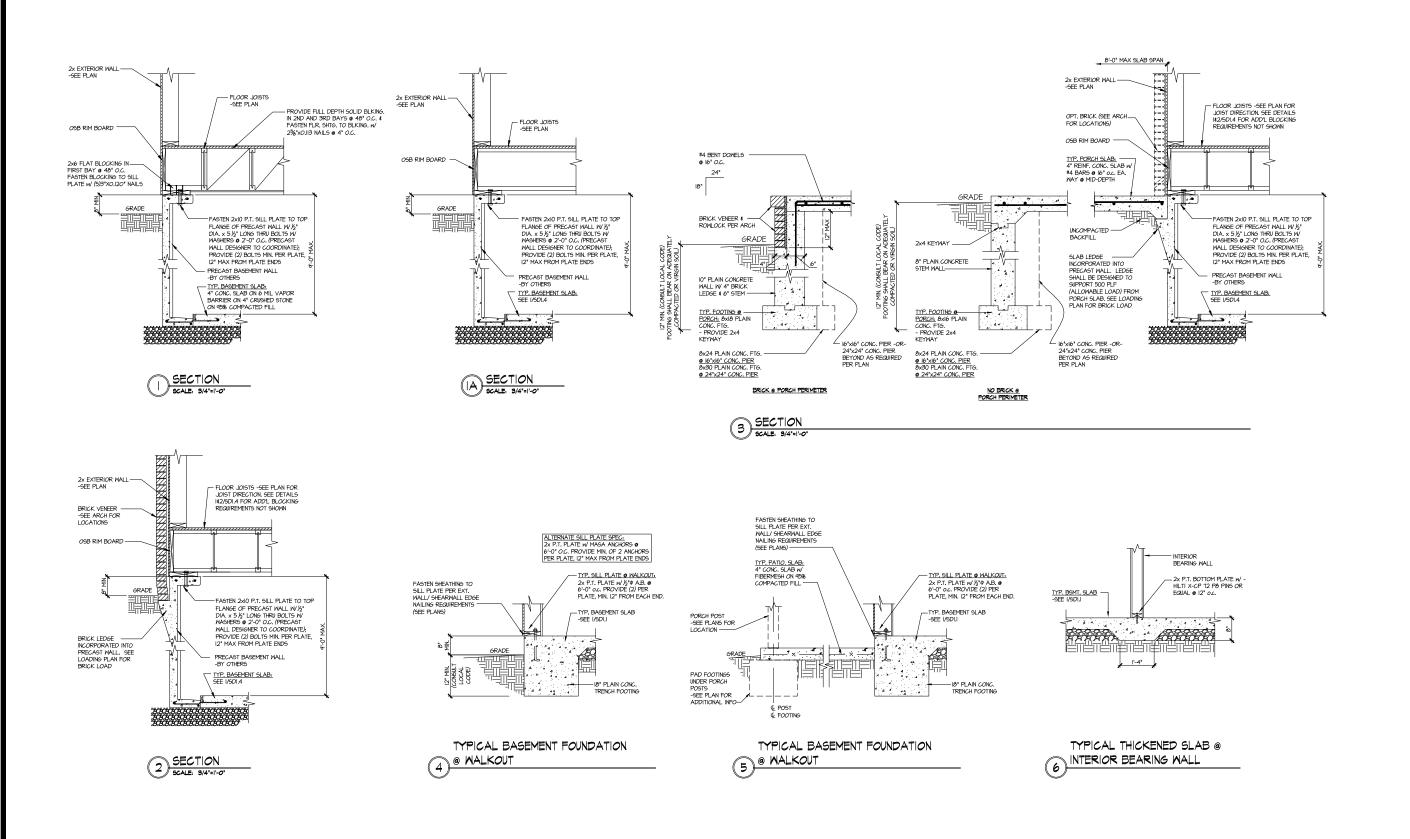
SMITH DOUGLAS HOMES

110 Village Trail, Suite 215

Woodstock, CA 30188

# ALTERNATE GARAGE CURB DETAIL Smith Douglas Homes





5/1/23

MULHERN+KULP
RESIDENTIAL STREETURAL ENGINEERINS

1905 Bredicite Perkvey, Suite 1905 • Alpha 1978-77-4974 • methomicapsons NC License # C-3825

Aulhern+Kulp project number

256-2101

SMK MJF issue date: 02-21-2022

REVISIONS:

initial: 03/09/2022 MIRRORED PLANS ADDED 08/17/2022 UPDATE PER ARCH COMMENTS KMV SMM

SMITH DOUGLAS HOMES

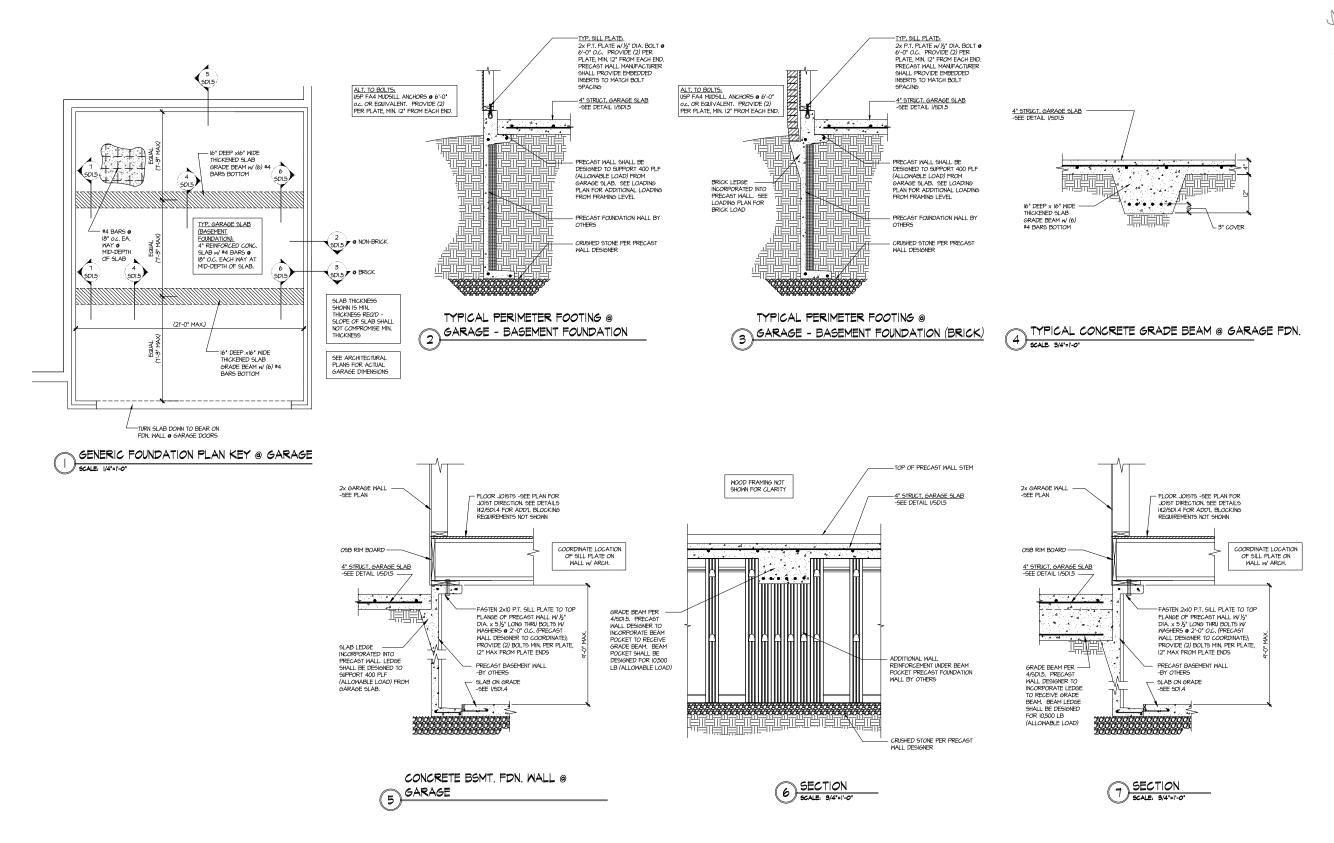
MODE FOUNDATION DETAILS

120 MPH WIND ZONE NORTH CAROLINA BRADLEY

Harrington

Lot 17

SD1



5/1/23 Structural Engin

MULHERN + KULP

RESIDENTIAL STRUCTURAL ENGINERING

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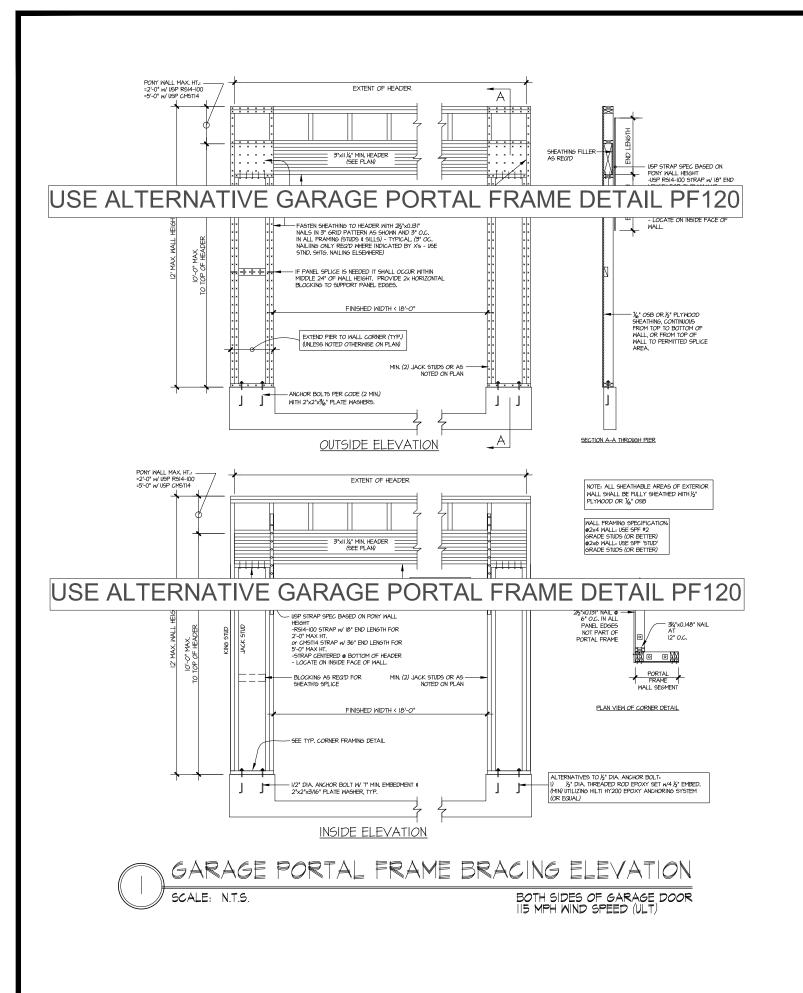
MODE

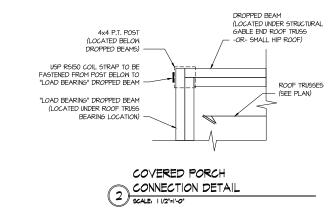
FOUNDATION DETAILS 120 MPH WIND ZONE NORTH CAROLINA ADLEY BR

Harrington

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SD1





5/1/23

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Mulhern+Kulp project number

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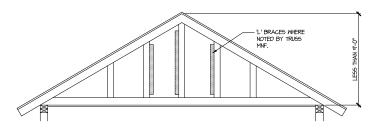
SMITH DOUGLAS HOMES

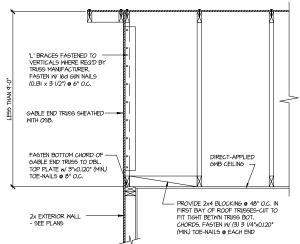
MODE

FRAMING DETAILS BRADLEY 120 MPH WIND ZONE NORTH CAROLINA

Harrington Lot 17

**SD2.0** 





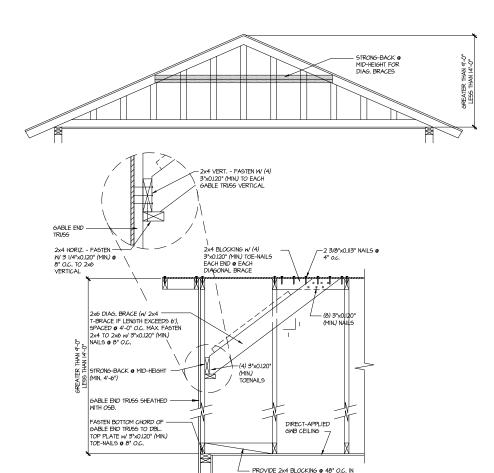
BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9-0'. L' BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.

TYPICAL GABLE END BRACING DETAIL SCALE: NONE REQUIRE FROM TRUSS

REQ'D & GABLE END TRUSS HEIGHT UP TO 9'-0"

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.



TYPICAL GABLE END BRACING DETAIL SCALE, NONE REQUE 6 64BLE END TRUSS REQ'D & GABLE END TRUSS HEIGHT BETW'N 9'-0" TO 14'-0"

2x EXTERIOR WALL -SEE PLANS FOR SPECIFICATIONS

Harrington Lot 17

5/1/23

MULHERN + KULP

RESIDENTIAL STRUCTURAL ENSINEERING

STS Devicite Parkway, Sup. 185 - Aphrona, 8A, 3022

\$779-777-4814 - Ambringhous

NC License # C-3825



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256-2101

SMK MJF issue date: 02-21-2022

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SMITH DOUGLAS HOMES

BRADLEY MODEL

120 MPH WIND ZONE NORTH CAROLINA FRAMING DETAILS

SD2.



July 28, 2023

Jody Hunt

Director of Product Development

SMITH DOUGLAS HOMES

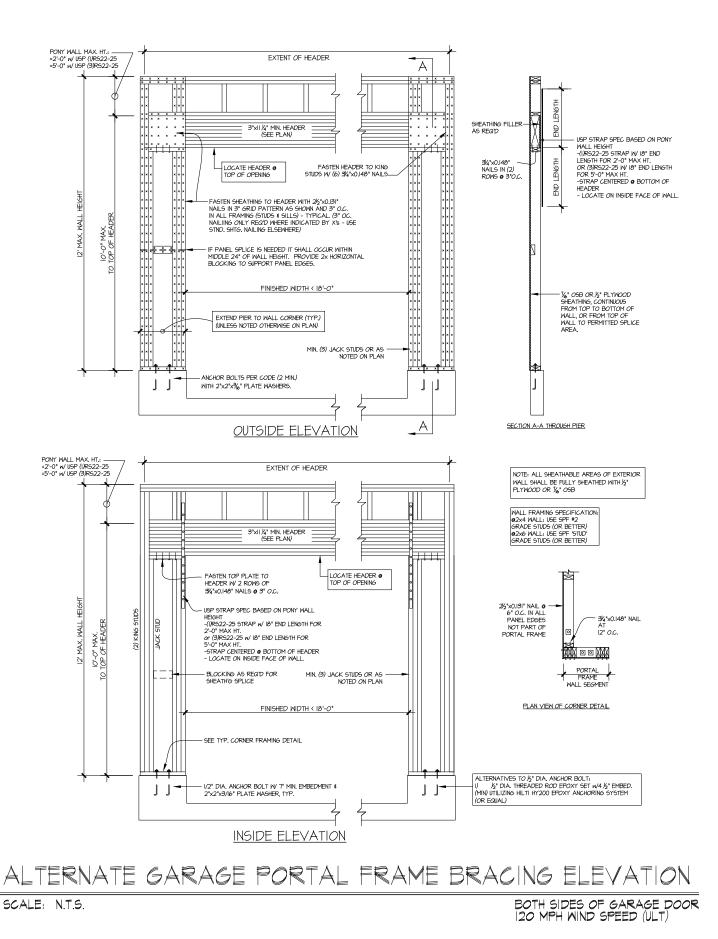
110 Village Trail, Suite 215

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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Harrington Lot 17

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Mulhern+Kulp project number: 256-23000

SMK RAP issue date: 07.28.2023

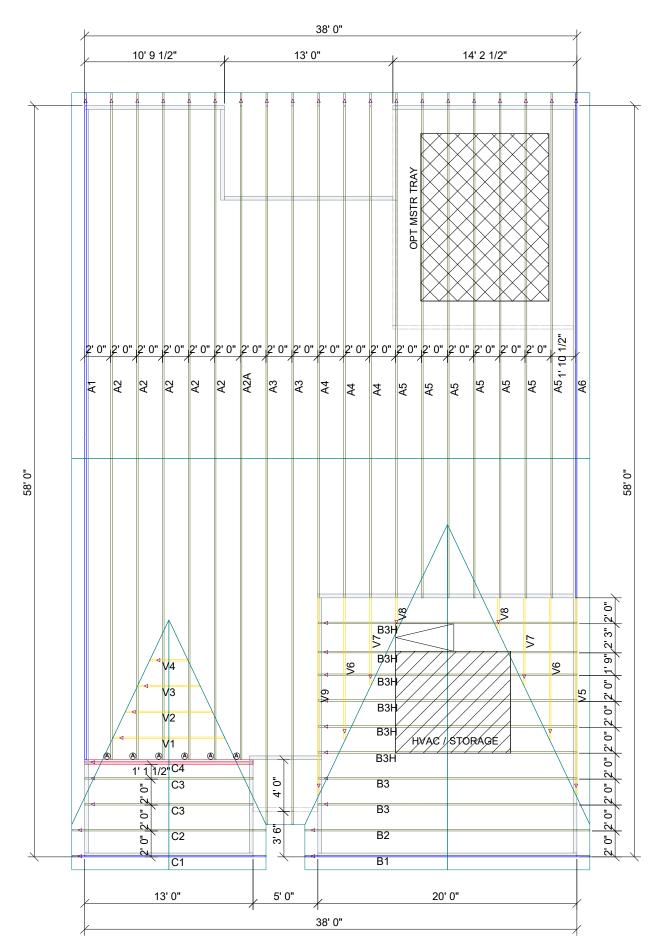
REVISIONS: initial:

SMITH DOUGLAS HOMES

FRAME PORTAL FRAME ALTERNATE PORTAL

PF-120

#### 72409346 17 HARRINGTON PLACE



Roof Hanger List			
MARK	TYPE	DESCRIPTION	QTY
A	HUS26	FACE MOUNT HANGER	6

BRADLEY RANCH ADGBEH NO TRAY

PLACEMENT PLAN

UFP SITE BUILT COMMUNITIES -SD RCH NO -BRADLEY ADGBEH R TRAY (RH) DSN

> DESIGNER -THATHCOCK LAYOUT DATE -05.31.2023

ARCH DATE

JOB #: -MASTER