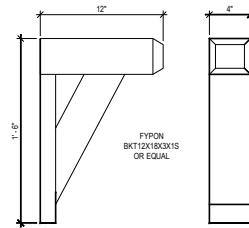


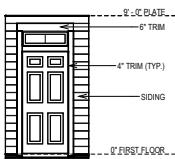
## **CORNICE DETAIL**

SCALE: 1" = 1'-0"

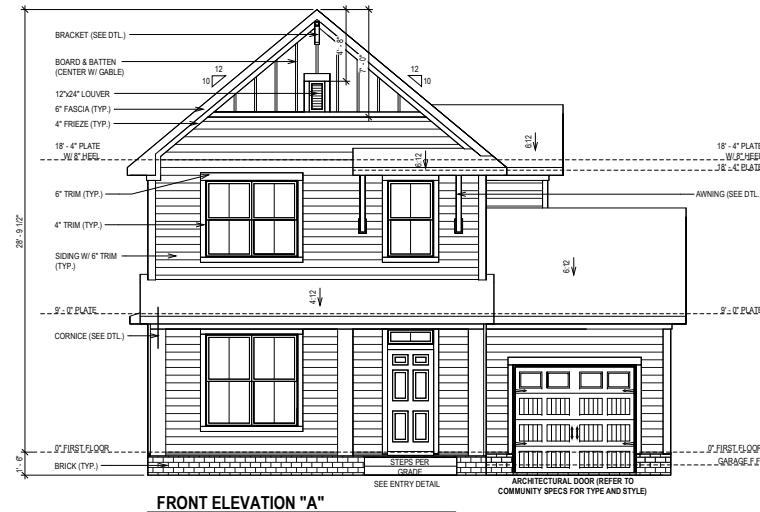


## BRACKET DETAIL

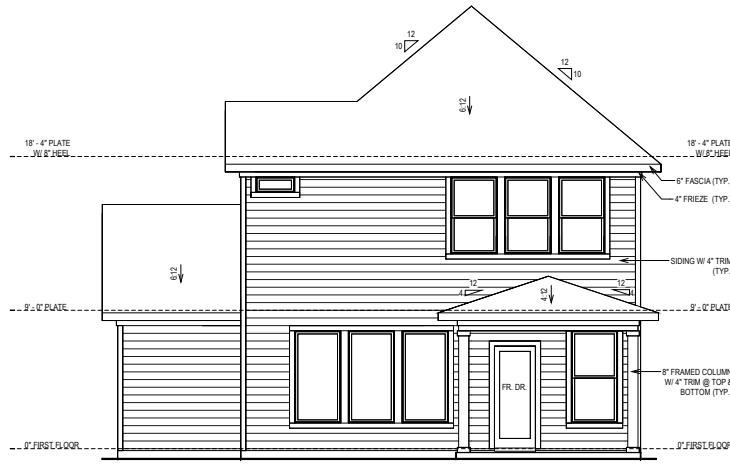
SCALE: 1" = 1'-0"



## ENTRY DETAIL



**FRONT ELEVATION "A"**

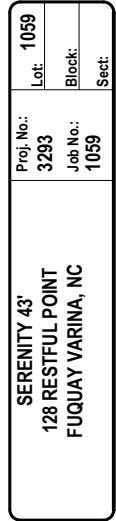


REAR ELEVATION "A"

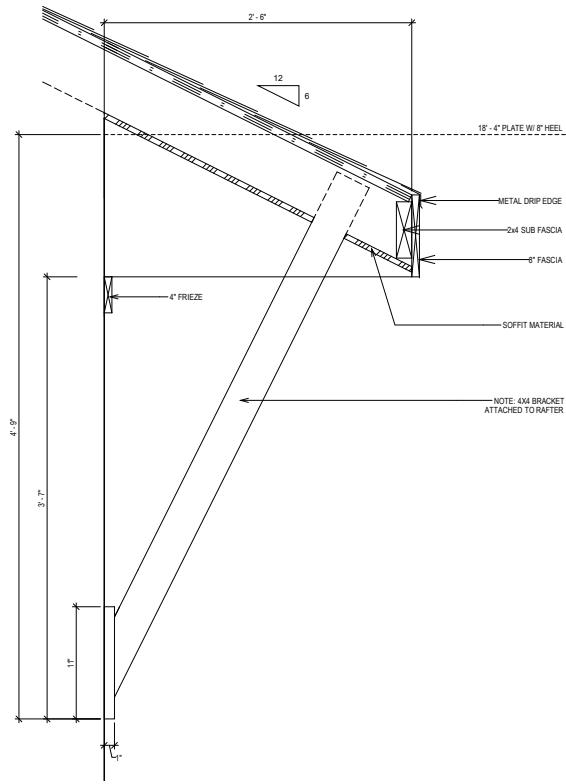


David Weekley Homes

F

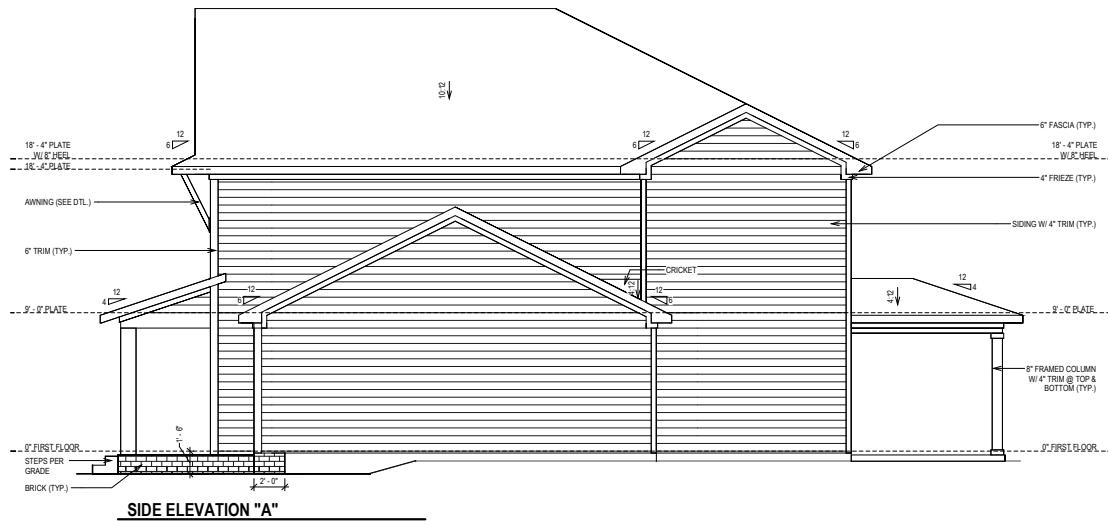


A black and white image of a standard North Carolina highway shield. The top half contains the word "NORTH" above the route number "A610-A". The bottom half is divided into two sections: "ELV-1" on the left and "SPRINGHILL" above "RALEIGH" on the right.

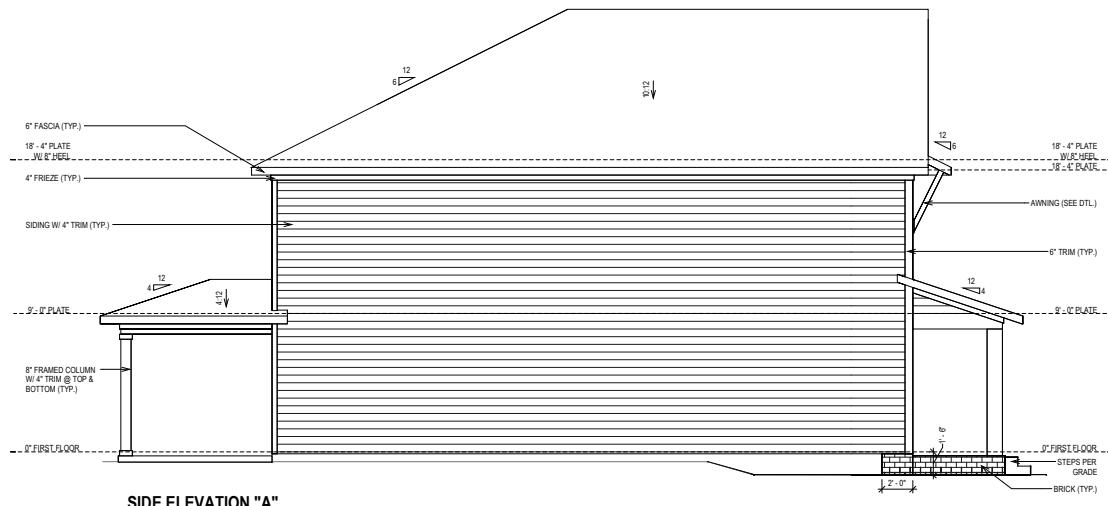


**AWNING DETAIL**

SCALE: 1" = 1'-0"



**SIDE ELEVATION "A"**



**SIDE ELEVATION "A"**

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The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. Actual dimensions may vary. This document may not be relied on as a representation of what the completed structure will look like.

**David Weekly Homes**  
PT/AS/UFUL Scale: 1/8"=1'-0"  
Date: 11/18/2024 Rev: 7/1/25 AM

**SERENITY 43'**  
128 RESTFUL POINT  
FUQUAY VARINA, NC  
Proj. No: 3293 Lot: 1059  
Job No.: 1059 Block:  
Sect:

**NORTH**  
**A610-A**  
**ELV-2**  
SPRINGHILL  
RALEIGH

SHEET INDEX:

S-0 COVER SHEET  
 S-0.1 GENERAL STRUCTURAL NOTES  
 S-1 MONOLITHIC SLAB FOUNDATION PLAN  
 S-2 SECOND FLOOR FRAMING PLAN  
 S-3 ROOF FRAMING PLAN  
 SD-1J BRACED WALL DETAILS  
 SD-2J HOLD DOWN DETAILS  
 SD-3 BRACED WALL NOTES & DETAILS  
 SD-4 PORTAL FRAME DETAILS  
 SD-5 MISCELLANEOUS FRAMING DETAILS  
 SD-6 MISCELLANEOUS FRAMING DETAILS  
 SD-7 MONOLITHIC SLAB FOUNDATION DETAILS  
 SD-8 NOT USED  
 SD-9 NOT USED  
 SD-10 NOT USED  
 SD-11 NOT USED  
 SD-12 ADVANCED FRAMING DETAILS & NOTES  
 SD-13 MISCELLANEOUS FRAMING DETAILS  
 SD-14 MISCELLANEOUS FRAMING DETAILS



A610 SPRINGHILL  
SERENITY, LOT #1059

RALEIGH, NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'):  
• 2018 NORTH CAROLINA RESIDENTIAL CODE, WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- UNINHABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 20 PSF (WHERE SPECIFIED ON PLANS)
- HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR = 40 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK/BALCONY = 40 PSF
- STAIRS = 40 PSF

DESIGN DEAD LOADS:

- ROOF TRUSS = 17 PSF (TC=7, BC=10)
- FLOOR TRUSS = 15 PSF (TC=10, BC=5)
- FLOOR JOIST = 10 PSF
- STANDARD BRICK = 40 PSF
- QUEEN ANNE BRICK = 25 PSF

\*NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.\*

DESIGN WIND LOADS:  
• ULTIMATE WIND SPEED = 115 MPH  
• EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- TJI 210 SERIES (SERIES AND SPACING PER PLANS)
- LSL: E=1,550,000 PSI, F<sub>g</sub>=2,325 PSI, F<sub>v</sub>=310 PSI, F<sub>c</sub>=900 PSI
- LVL: E=2,000,000 PSI, F<sub>g</sub>=2,600 PSI, F<sub>v</sub>=285 PSI, F<sub>c</sub>=750 PSI
- PSL: E=2,100,000 PSI, F<sub>g</sub>=2,900 PSI, F<sub>v</sub>=290 PSI, F<sub>c</sub>=625 PSI



David Weekley Homes  
Raleigh, NC

Cover Sheet	Serenity, Lot #1059
Project #:	A610 Springhill Model
Designed By:	115 M.P.H.
Checked By:	Raleigh, North Carolina
Issue Date:	7/18/25
Re-Issue:	10/9/25
Scale:	1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

*Lindsay Rea*



S-0

## GENERAL STRUCTURAL NOTES:

1. THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT. THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE. NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
2. THE STRUCTURE IS ONLY STABLE IN THE COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
3. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONSTRUCTION. THE CONSTRUCTION OF THE STRUCTURE, THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS, SHOULD ANY NON-COMPLIANCE OCCUR.
4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS OR FOR CONSTRUCTION METHODS OR FOR ANY DEVIATION FROM THESE PLANS. THE SER SHALL NOT BE HELD RESPONSIBLE FOR CONSTRUCTION IF ANY DISCREPANCIES ARE NOT NOTED ON THE PLANS.
5. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL CONFORMITY RELATED TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
6. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
7. THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
8. THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR REGULATIONS.
9. DO NOT USE SOLID DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
10. WATERPROOFING AND FLASHING BY OTHERS.

## FOUNDATIONS:

1. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH AND FILE ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
3. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
4. THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER. THE CONTRACTOR, SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE PROCEEDING.
5. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED 12" ON EACH SIDE OF FOUNDATION WALLS.
6. WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH  $\frac{1}{2}$ " ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS.  $\frac{1}{2}$ " DIAMETER X 8" LONG SIMPSON TITEN HD OR USC SWP-BOLT SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS FOR CONCRETE FOUNDATIONS ONLY.
7. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER, THE RECOMMENDED SOIL MUST BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.
8. EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
9. NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.
10. PROVIDE DRAINS AND DRAINS TO DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
11. NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
12. LOFTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.
14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

## CONCRETE & REINFORCING

1. CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH ( $f'_c$ ) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES w/ WEATHER). UNLESS OTHERWISE NOTED ON THE PLAN, CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. AIR ENTRAINED CONCRETE SHALL BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINED CONCRETE SLAB THICKNESS SHALL BE WITHIN  $\pm 1\%$  TO  $\pm 2\%$  OF 5" FOR FOOTINGS AND EXTERIOR SLABS.
3. NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
4. CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
5. EXPOSED OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
6. CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
7. REINFORCING STEEL SHALL EXTEND THROUGH A SAW CUT JOINT.
8. REINFORCING FABRIC FOR THE CONCRETE SLAB-ON-GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL NOT EXCEED 1000 FIBERS PER CUBIC YARD.
9. POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.
10. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
11. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315: "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
12. HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACE AS THE HORIZONTAL REINFORCEMENT.
13. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:
  - #4 BARS = 30" LENGTH
  - #5 BARS = 38" LENGTH
  - #6 BARS = 45" LENGTH
14. WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS HORIZONTALLY. SEE DETAILING CONSTRUCTION DETAILS.
15. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
16. RAFTERS SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER, NO ROCKS, CMU, CLAY BRICKS, OR EXCAVATED SOILS ARE TO BE USED AS BOLSTERS.
17. FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.
18. ALL MASONRY SHALL CONFORM TO ASTM C-90,  $f'_c=1500$  PSI. ALL BRICK SHALL CONFORM TO ACI-216,  $f'_c=1500$  PSI. ALL MORTAR SHALL BE TYPE "S" (TYPE "M" BELOW GRADE) AND CONFORM TO ASTM C-270. COARSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF  $\frac{3}{8}$ " AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
19. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/MS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530/ASCE 6/MS 602.
20. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
21. EACH CRAWL PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS IN-PLANE FOOTING AND EACH GRODER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PLASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
22. TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
23. HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
24. SPACED REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6" LAP. WITH STANDARD "T" AND "L" SHAPED PIECES AT INTERSECTIONS AND CORNERS.

## WOOD FRAMING:

1. SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO BE: SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:
 
$$E=1,400,000 \text{ PSI}, F_p=875 \text{ PSI}, F_v=135 \text{ PSI}$$
  - 1.1. FRAMING SPF #2.
  - 1.2. PLATES SPF #2.
  - 1.3. STUDS SPF STUD GRADE.
2. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER.
3. ANCHOR SILL PLATES IN ACCORDANCE w/ GENERAL STRUCTURE NOTES.
4. ALL BEAM SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBER MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
5. NAIL OR SCREW CONNECTIONS SHALL BE USED UNLESS OTHERWISE NOTED.
6. BOLT HOLES AND LEAD HOLES FOR NAIL SPLICES SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
7. INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS  $\pm 6\%$  O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
8. FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON NAILS  $\pm 16\%$  O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLES.
9. FASTEN BEAMS TO STUDS WITH  $\frac{1}{2}$ " DIAMETER THROUGH BOLT w/ NUT WADERS AT 12"-0" STAGGER TOP AND BOTTOM,  $\pm 5\%$  MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED).
10. ALL BEAMS AND HEADERS SHALL HAVE (12x) JACK STUD & (12x) KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED.
11. PROVIDE STUDS AT EACH END OF BEAMS AS NOTED BELOW. 16" O.C. STUD SPACING: 24" O.C. STUD SPACING:
  - (1) STUD UP TO 3' OPENING (1) STUD UP TO 4' OPENING
  - (2) STUD UP TO 4' OPENING (2) STUD UP TO 8' OPENING
  - (3) STUD UP TO 8' OPENING (3) STUD UP TO 12' OPENING
  - (4) STUD UP TO 12' OPENING (4) STUD UP TO 16' OPENING
  - (5) STUD UP TO 16' OPENING (6) STUD UP TO 16' OPENING
12. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPACES SHALL OCCUR OVER SUPPORTS.
13. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
14. ALL SHEATHING SPECIFIED ON DRAWINGS IS INTENDED FOR DRUG USE ONLY (MOISTURE CONTENT = 19%). USE AS OTHERWISE NOTED.
15. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
16. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHEATH. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAVED WITH SIMPSON HS2 OR USP ST1 STUD SPACES. APPENDIX H OF THE NDS SHALL BE FOLLOWED.
17. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR GYPSUM BOARD. BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.

## EXTERIOR WOOD FRAMED DECKS:

1. DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, EITHER THROUGH CODE REFERENCED OR CONSTRUCTION DETAILS.
2. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
3. GUARD RAILS AND LATERAL BRACING IS REQUIRED AT DECKS. DESIGN BY OTHERS.
4. PROVIDE DECK LATERAL LOAD CONNECTIONS PER BUILDING CODE.
5. RAFTER FRAMED ROOF CONSTRUCTION:
  - 1. PROVIDE 2x4x4"-0" RAFTER TIES AT 48" O.C.
  - 2. RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES AS SHOWN ON THE DRAWINGS. PURLINS AND PURLIN BRACES SHALL NOT BEAD ON RAFTERS. RAFTERS SHALL BE SUPPORTED BY PURLINS AS SPECIFICALLY SHOWN ON PLANS. RAFTERS MAY BE SPICED AT PURLIN LOCATIONS.
  - 3. CEILING JOISTS SHALL HAVE LATERAL SUPPORT w/ 1x4 FLAT BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST END (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL LENGTH BLOCKING. FASTEN END OF BRACING TO RAFTER OR CABLE END FRAMING.
  - 4. FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
  - 5. PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0" O.C. TIE STRONGBACK END TO CABLE STUD OR RAFTERS WHERE POSSIBLE. CABLE STUDS ARE TO BE PLACED PER PLANS. PROVIDE STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS. FASTEN STRONGBACK TO 2x4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL.
  - 6. SHEATHING SHALL BE APPLIED PER PLANS.

## WOOD TRUSSES (FLOOR & ROOF):

1. THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO BE: SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:
 
$$E=1,400,000 \text{ PSI}, F_p=875 \text{ PSI}, F_v=135 \text{ PSI}$$
  - 1.1. FRAMING SPF #2.
  - 1.2. PLATES SPF #2.
  - 1.3. STUDS SPF STUD GRADE.
2. THE WOOD TRUSS SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURE FIXTURES ATTACHED TO THE TRUSS.
3. THE TRUSS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION".
4. THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSS" (BCS). THIS BRACING, BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN ON THE SUPPORT DRAWINGS. THE TRUSS DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSS.

## STRUCTURAL FIBERBOARD PANELS:

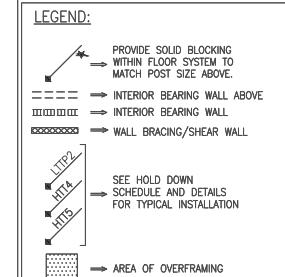
1. STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
2. FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AIA STANDARDS.
3. EXTERIOR WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
4. SHEATHING SHALL HAVE A  $\frac{1}{8}$ " GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AIA.

## STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND CONSTRUCTION" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
2. ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS ( $F_y$ ) OF 50 KSI UNLESS OTHERWISE NOTED.
3. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D.1. ELECTRODES FOR SHOP AND FIELD WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS.
4. ALL STEEL BEAMS TO BE ERECTED AT EACH END WITH A MINIMUM OF 104 NAILS OR  $(2) \frac{1}{2}'' \times 4''$  LAG SCREWS UNLESS OTHERWISE NOTED.
5. INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH. FASTEN PLATE TO BEAM w/ HILTI X-DNI 52 P8 PINS AT 12" O.C. STAGGERED OR  $\frac{1}{2}$ " DIAMETER BOLTS AT 24" O.C.

## MECHANICAL FASTENERS:

1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE APPROVED.
2. ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
3. MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



BRICK VENEER LINTEL SCHEDULE		
SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	36" x 36" x 3/4"	4"
UP TO 6'-3"	5" x 36" x 3/4"	LLV.
UP TO 9'-6"	6" x 36" x 3/4"	12"

LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS. SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.

Project #: A-047-2010  
 Designed By: JPS  
 Checked By:  
 Issue Date: 7/18/25  
 Re-Issue:  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22x34



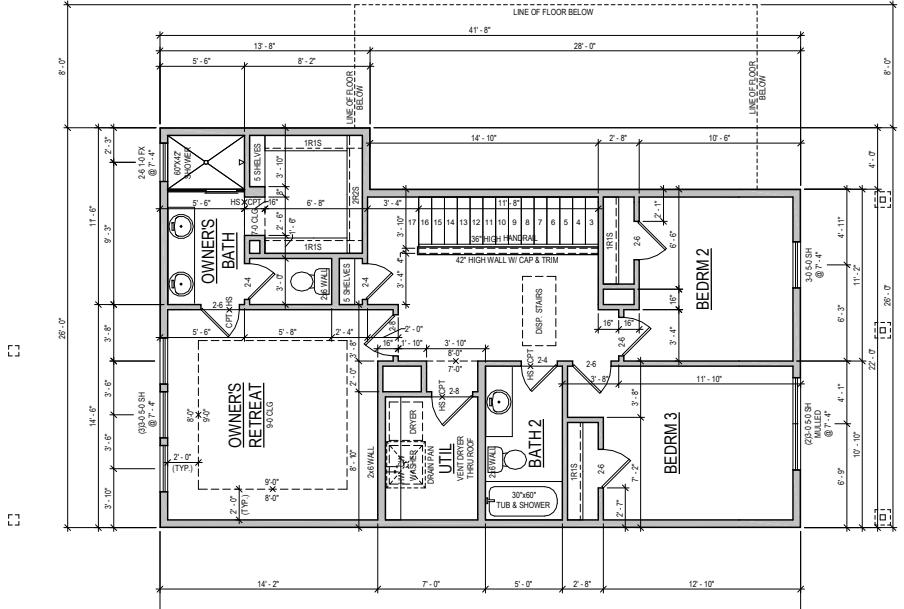
LINDSEY REILLY

General Structural Notes  
 Serenity, Lot #1059  
 A610 Springhill Model  
 115 M.P.H.  
 Raleigh, North Carolina  
 Project #: A-047-2010  
 Designed By: JPS  
 Checked By:  
 Issue Date: 7/18/25  
 Re-Issue:  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22x34

S-0.1

**KSE**  
**ENGINEERING**  
  
 1900 AM DRIVE SUITE 201 QUAKERTOWN PA 18951  
 (215) 804-4449  
 www.kse-eng.com





NOTE: ALL 2ND FLR CEILING HEIGHTS  
8'-0" UNLESS NOTED OTHERWISE

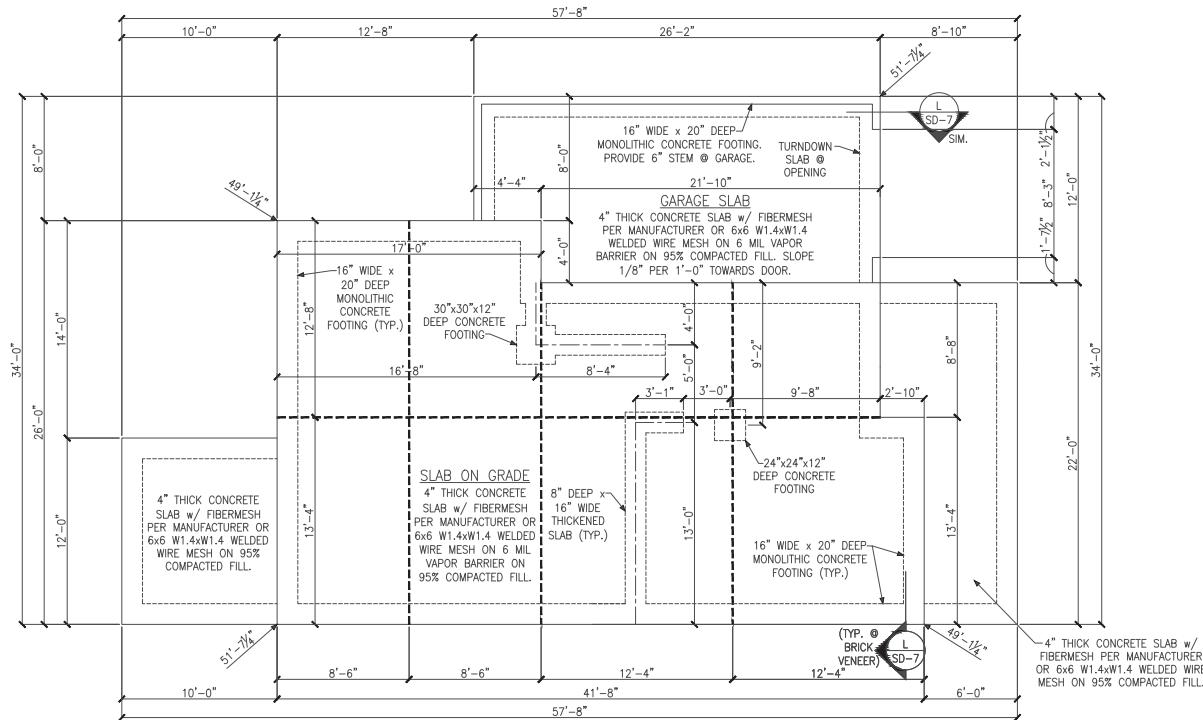
ADVANCED FRAMING: 2X6 EXTERIOR  
PERIMETER WALLS & ALL INSULATED  
WALLS UNLESS NOTED OTHERWISE

**David Weekly Homes**  
PT/AS/UF/JL  
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Rev: 7/11/2024

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of what the completed structure will look like.

**NORTH**  
**A610-A**  
**PLN-2**  
SPRINGHILL  
RALEIGH

**SERENITY 43'**  
**128 RESTFUL POINT**  
**FUQUAY VARINA, NC**



**LEGEND**

- Provide solid blocking within floor system to match post size above.
- Bearing wall above
- Interior bearing wall
- Braced wall panel (see KSE structural details set for braced wall panel sheathing fastening & blocking details)
- 48" WSP
- Control joint

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS

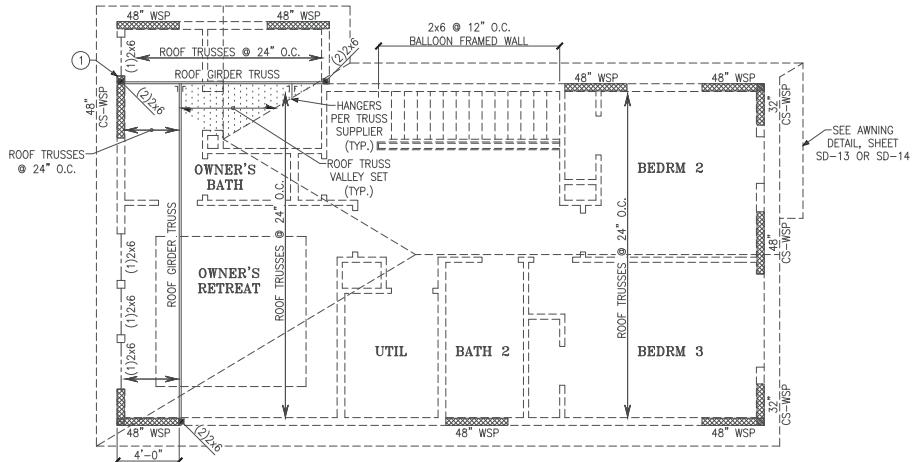
Monolithic Slab Foundation Plan  
Serenity, Lot #1059  
A610 Springhill Model  
115 M.P.H.  
Raleigh, North Carolina

Project #: 047-24010  
Designed By: JPS  
Checked By:  
Issue Date: 7/18/25  
Re-Issue: 10/9/25  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



S-1





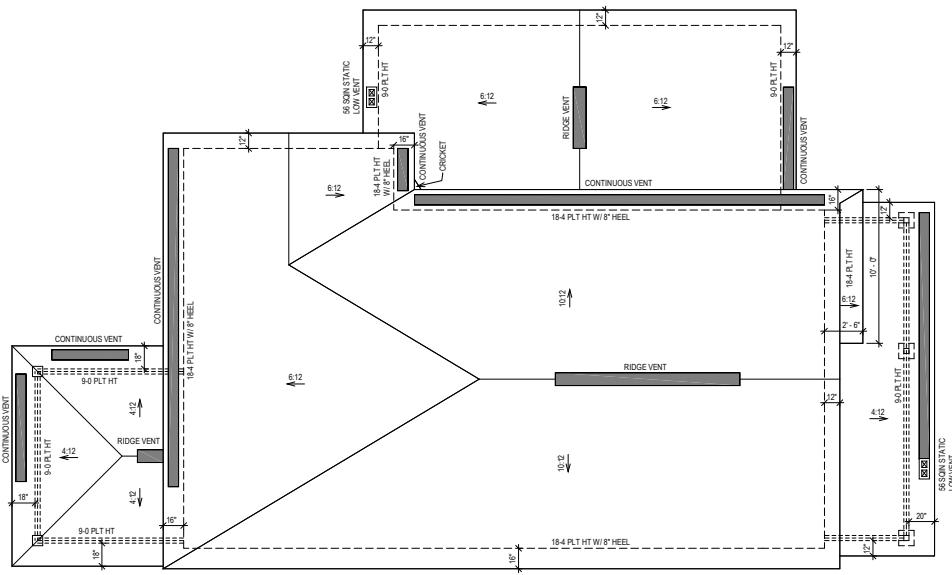
ROOF FRAMING PLAN

LEGEND	
	PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
	BEARING WALL ABOVE
	INTERIOR BEARING WALL
	BRACED WALL PANEL
48" WSP	(SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS	
PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT	
KEYNOTES:	
①	AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS20 COIL STRAP WITH MIN 8-10D NAILS EACH END. AT SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION W/ SIMPSON DT112 W/ SIMPSON 1/4" x 6" TITEN HD SCREW ANCHOR AND 3/8" MINIMUM EMBEDMENT.

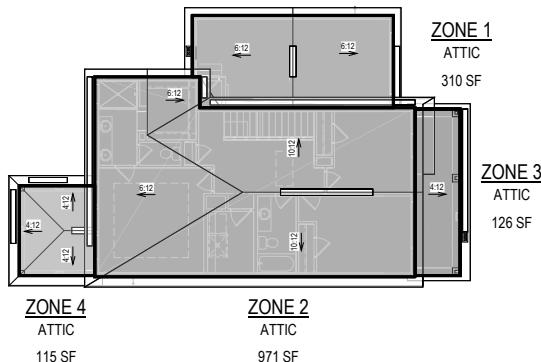
Roof Framing Plan  
Serenity, Lot #1059  
A610 Springhill Model  
115 M.P.H.  
Raleigh, North Carolina

Project #: 047-24010  
Designed By: JPS  
Checked By:  
Issue Date: 7/18/25  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34





ROOF PLAN "A"



VENTILATION PLAN "A"

ATTIC VENTILATION WITH SECONDARY INTAKE - A												
ZONE	AREA	VENT RATIO	MIN NFVA	NET FREE VENTILATED AREA NFVA=AREA SF X 144 / RATIO		EXHAUST VENTS INSTALL NO MORE THAN 3' BELOW HIGHEST POINT OF ZONE		INTAKE VENTS INSTALL IN LOWER THIRD OF ZONE		ACTUAL VENTILATION %		
						VENTS		PRIMARY VENTS SIZE SQIN		SECONDARY VENTS SIZE SQIN		
						REQ	SIZE COUNT	SIZE EA or SQINLF	SIZE EA or SQINLF	SIZE COUNT	SIZE EA or SQINLF	
ZONE 1	310 SF	300	148	Yes	18	4	5	50%	56	1	43%	57%
ZONE 2	971 SF	300	468	Yes	18	12	5	51%	0	0	46%	54%
ZONE 3	126 SF	150	121	No	0	0	5	35%	56	1	0%	100%
ZONE 4	115 SF	150	116	Yes	18	3	5	0%	0	0	47%	53%

#### TRUSS ROOF NOTES

ALL OVERHANGS PER PLAN MEASURED FROM OUTSIDE FACE OF FRAME.

GABLE OVERHANGS 12" UNLESS NOTED OTHERWISE.

HIP OVERHANGS 18" UNLESS NOTED OTHERWISE.

ALIGN FASIA TO MAINTAIN CONSISTENT OVERHANG WITH DIFFERING ROOF PITCH.

THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS, WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

ALL OVERFRAMING AND BRACING TO BE NO. 2 GRADE 2X4'S. UNLESS NOTED OTHERWISE.

ROOF SHEATHING AT OVERHANG SHALL BE REMOVED TO ALLOW FOR VENTILATION BETWEEN ATTIC SPACES ON VENTED ATTICS.

ACTUAL ATTIC VENTILATION MAY VARY. VERIFY IN THE FIELD.

SERENITY 43'  
128 RESTFUL POINT  
FUQUAY VARINA, NC

NORTH  
A610-A  
RFP-1  
SPRINGHILL  
RALEIGH

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## ROOF TRUSS OPTIONS:

## MASTER SUITE TRAY CEILING BUILT INTO TRUSS REAR COVERED PORCH

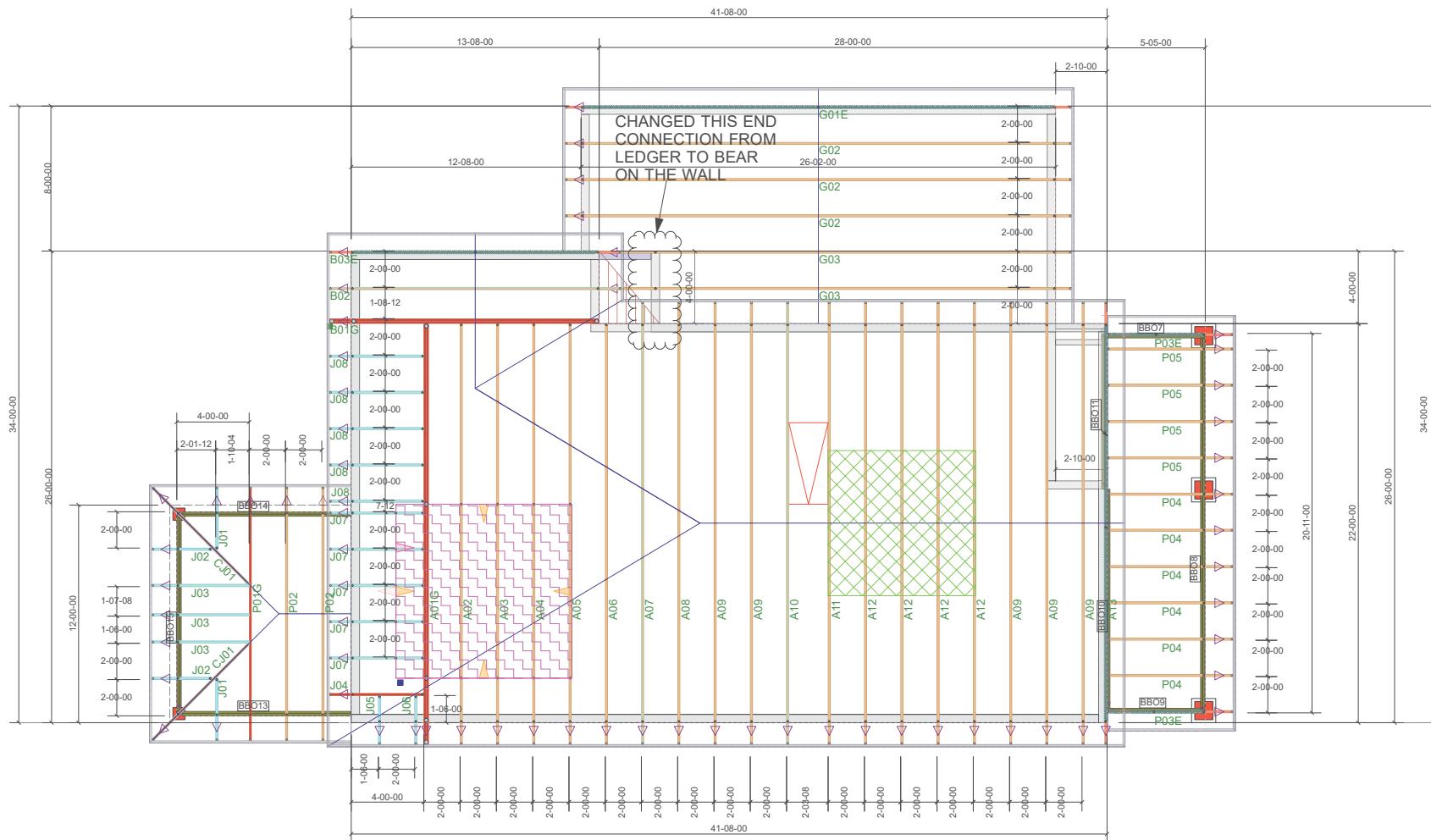
PLEASE SEE PLANS FOR PORCH BEAM DETAILS. TRUSSES ARE DESIGNED ACCORDINGLY.

CHANGED G03 TO BEAR ON WALL.

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HHUS26-2	1
Simpson	LUS24	4

Hatch Legend

	LIGHT ATTIC STORAGE/HVAC PLATFORM
	1'-0" BOX TRAY CEILING
	FIELD FRAME SMALL ROOF AREA



**LUMBER**  
84

## David Weekly

---

A610 SPRINGHILL / ELEV A / RH  
Job# B01249 28231

ation | 2383-Dunn

qner | Danny Walla

DO NOT CUT, NOTCH, OR BORE HOLES  
UNLESS SPECIFIC, WRITTEN PERMISSION IS  
PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF  
84 LUMBER.

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC's R.1 and R.3. THESE ARE INCLUDED WITH EACH JOIST.

B-1 and B-3. THESE ARE INCLUDED WITH EACH JOINT IN YOUR TRUSS PACKET.

Sheet # 1 of 1

## Roof Truss Placement Plan

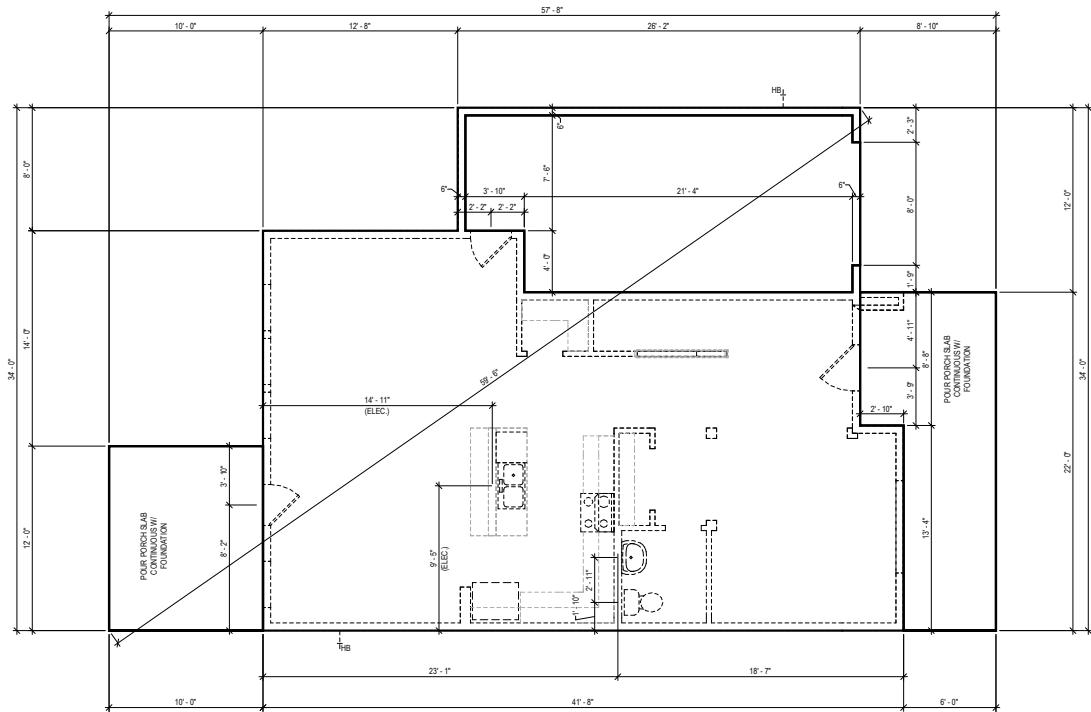
## Placement Plan

NOT TO SCALE  
DESIGNED DATE

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10/14/2025

ANSWER



FIRST FLOOR "A"

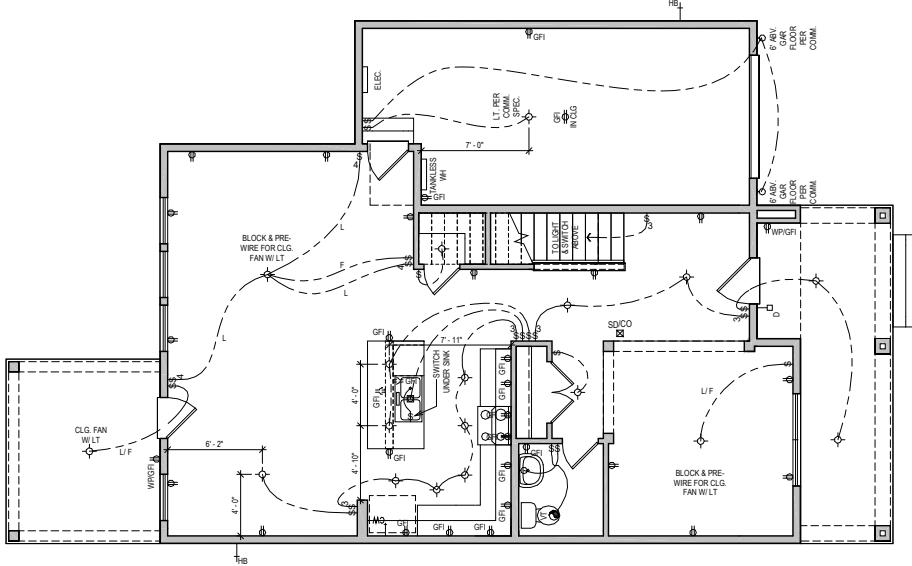
SEE ENGINEERING FOR ANCHOR BOLT  
REQUIREMENTS

NORTH  
**A610-A**  
**FS-1**  
SPRINGHILL  
RALEIGH

SERENITY 43'  
128 RESTFUL POINT  
FUQUAY VARINA, NC

**David Weekly Homes**  
PT/AS/UF/JL  
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FIRST FLOOR "A"

UTILITY LEGEND	
110V OUTLET 12' A.F.F. (U.O.)	ELEVATOR CALL BUTTON
GFI GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)	RECESS CAN LIGHT (EYEBALL AS NOTED)
1/2 HALF HOT OUTLET	EXHAUST VENT
220V OUTLET (39' A.F.F. @ UTILITY)	SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
▼ PHONE LINE	DOOR BELL
T CABLE TELEVISION	CHIMES DOOR BELL CHIMES
STANDARD SWITCH (3 OR 4 WAY AS NOTED)	PANEL BOARD W/ CIRCUIT BREAKERS
◆ SURFACE MOUNTED LIGHT	ROSE BB
◆ SURFACE MOUNTED LED LED DISC LIGHT	GAS TAP
□ WALL MOUNTED LIGHT	CW HW COLD/HOT WATER SUPPLY
○ JUNCTION BOX	

CITY SPECIFIC	
V/T/L	RECESSED CAN EXHAUST VENT COMBO

IN ALL HABITABLE ROOMS LIGHT  
BOXES MUST BE FAN RATED

ALL RECESS CANS SHOWN  
ON PLAN ARE LED PER  
COMMUNITY SPEC.

#### MID-ATLANTIC General Notes

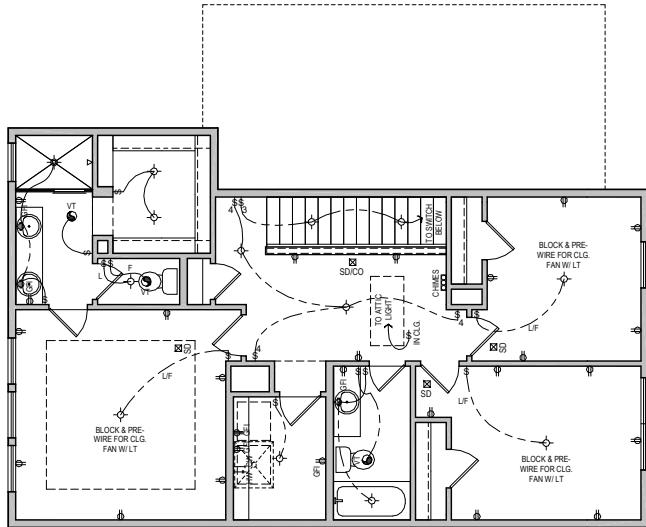
1. ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOLDINGS.
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)
4. PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

SERENITY 43'  
128 RESTFUL POINT  
FUQUAY VARINA, NC

NORTH  
A610-A  
ELE-1  
SPRINGHILL  
RALEIGH

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SECOND FLOOR "A"

UTILITY LEGEND	
110V OUTLET 12" A.F.F. (U.N.O.)	E ELEVATOR CALL BUTTON
GFI GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)	R RECESS CAN LIGHT (EYEBALL AS NOTED)
1/2 HOT HOT OUTLET	V EXHAUST VENT
220V OUTLET (39" A.F.F. @ UTILITY)	SD SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
▼ PHONE LINE	D DOOR BELL
T CABLE TELEVISION	CHIMES DOOR BELL CHIMES
STANDARD SWITCH (3 OR 4 WAY AS NOTED)	ELEC PANEL BOARD W/ CIRCUIT BREAKERS ROSE BB
◆ SURFACE MOUNTED LIGHT	HB HOT WATER GAS GAS TAP CW HW COLD/HOT WATER SUPPLY
◆ SURFACE MOUNTED LED LED DISC LIGHT	J JUNCTION BOX
◆ WALL MOUNTED LIGHT	
① JUNCTION BOX	

CITY SPECIFIC	
V/T/L T	RECESSED CAN EXHAUST VENT COMBO

IN ALL HABITABLE ROOMS LIGHT  
BOXES MUST BE FAN RATED

ALL RECESS CANS SHOWN  
ON PLAN ARE LED PER  
COMMUNITY SPEC.

#### MID-ATLANTIC General Notes

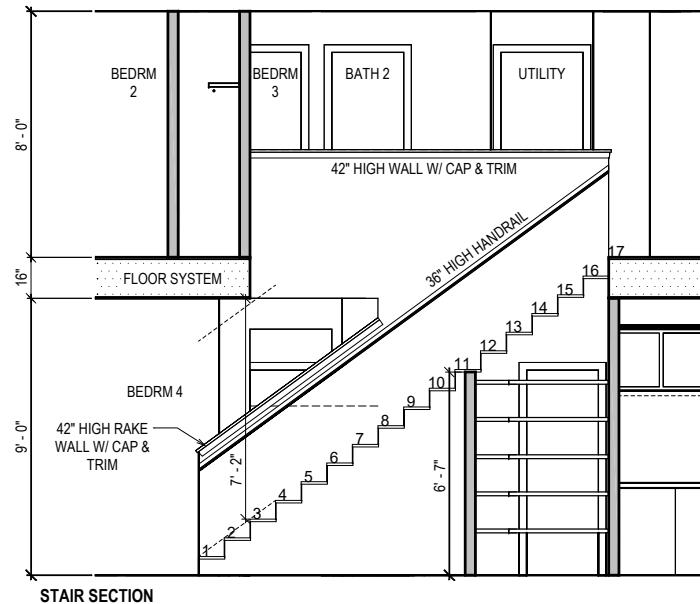
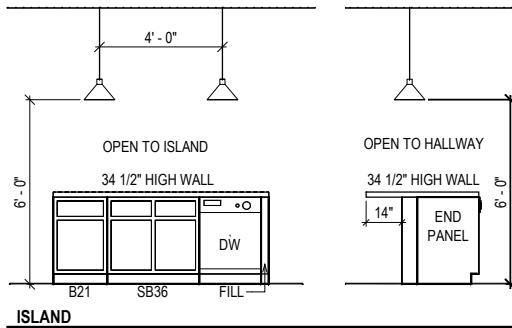
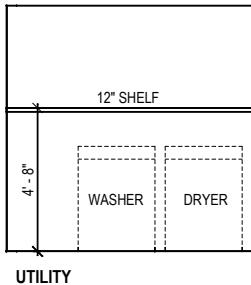
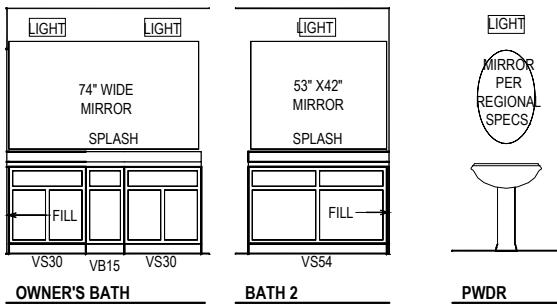
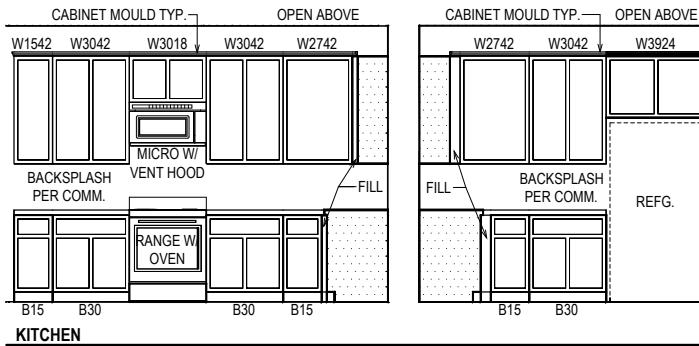
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4. PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

SERENITY 43'  
128 RESTFUL POINT  
FUQUAY VARINA, NC

NORTH  
A610-A  
ELE-2  
SPRINGHILL  
RALEIGH

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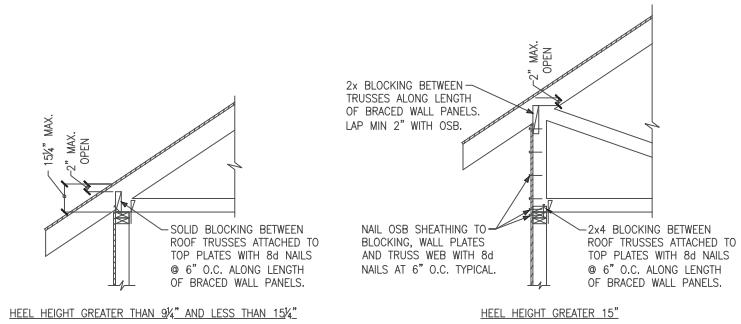
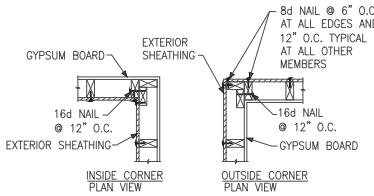
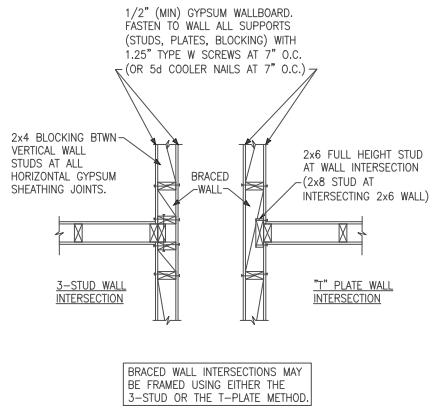
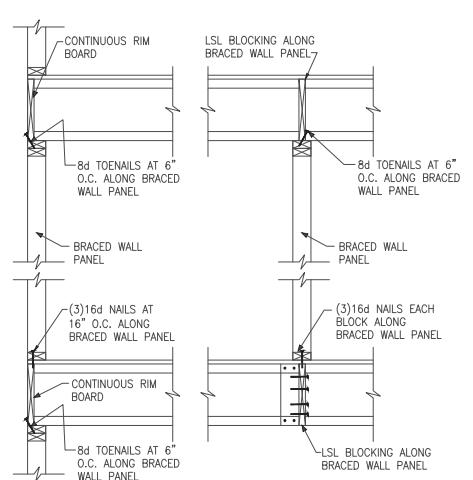
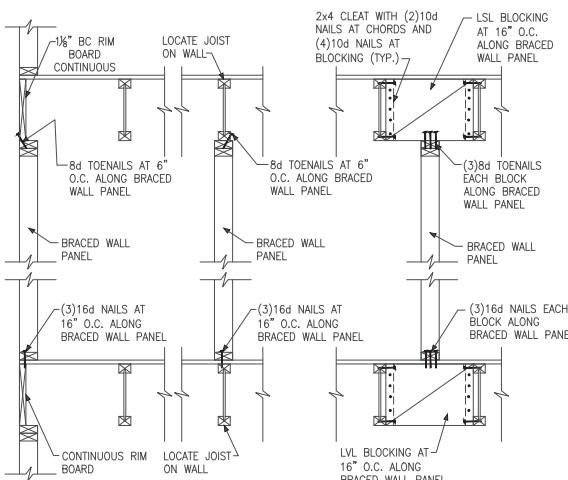


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**SERENITY 43'**  
128 RESTFUL POINT  
FUQUAY VARINA, NC  
Proj. No.: 3293  
Lot: 1059  
Job No.: 1059  
Block: Sect:

**NORTH**  
**A610-A**  
**INT-1**  
SPRINGHILL  
RALEIGH



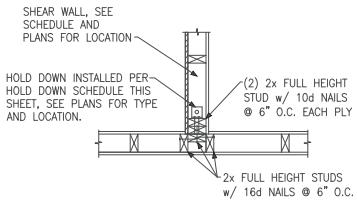
NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED THROUGH THE USE OF WOOD BACKUP CLEATS, METAL DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.

Braced Wall Details  
Serenity, Lot #1059  
A610 Springhill Model  
115 M.P.H.  
Raleigh, North Carolina

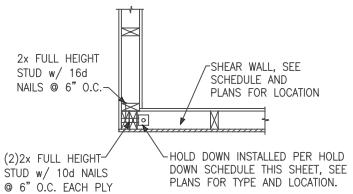
Project #: 047-24010  
Designed By: JPS  
Checked By:  
Issue Date: 7/18/25  
Re-issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



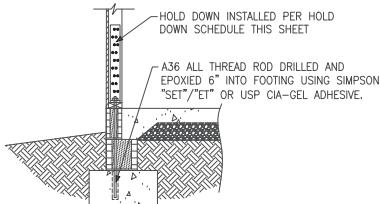
SD-1J



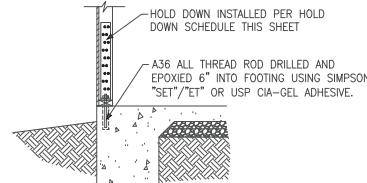
**(A) TYPICAL HOLD DOWN DETAIL**



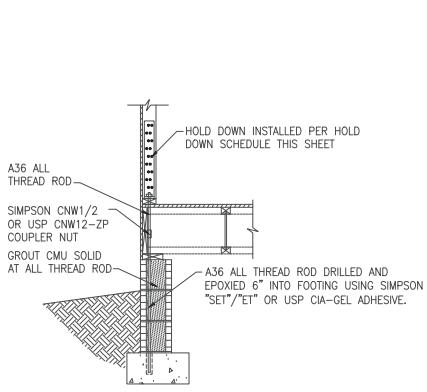
**(B) TYPICAL HOLD DOWN DETAIL**



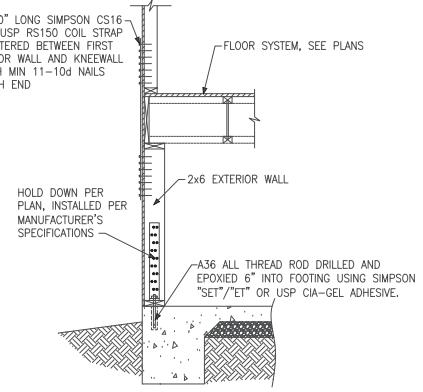
**(C) HOLD DOWN AT STEMWALL SLAB**



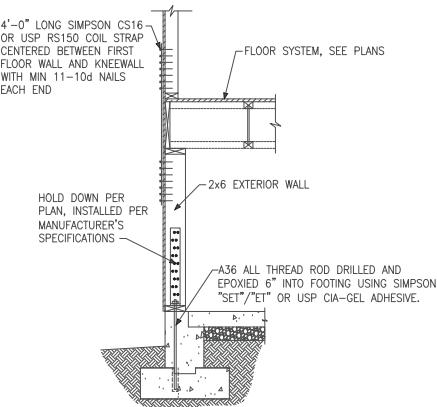
**(D) HOLD DOWN AT MONOLITHIC SLAB**



**(E) HOLD DOWN AT CRAWL FOUNDATION**



**(F) HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN**



**(G) HOLD DOWN AT FOUNDATION STEM WALL**

HOLD DOWN SCHEDULE		
HOLD DOWN	ALL THREAD ROD	FASTENERS
SIMPSON	USP	
LTP2	LTS20B	$\frac{1}{2}$ " DIA. (10)10d NAILS
HTT4	HTT16	$\frac{5}{8}$ " DIA. (18)16dx $\frac{1}{2}$ " LONG NAILS
HTT5	HTT45	$\frac{5}{8}$ " DIA. (26)16dx $\frac{1}{2}$ " LONG NAILS

Hold-Down Details  
 Serenity, Lot #1059  
 A610 Springhill Model  
 115 M.P.H.  
 Raleigh, North Carolina

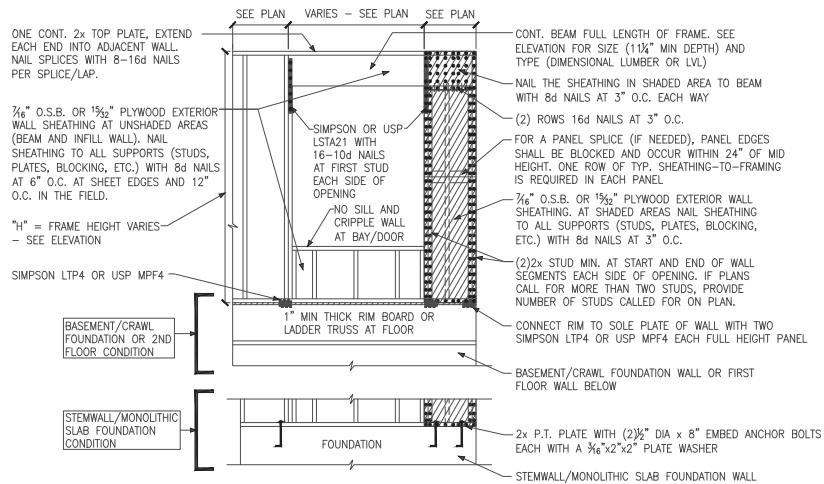
Project #: 047-24010  
 Designed By: JPS  
 Checked By:  
 Issue Date: 7/18/25  
 Re-issue:  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22x34



SD-2J

**KSE**  
 ENGINEERING  
 1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951  
 (215) 804-4449  
 www.kseeng.com

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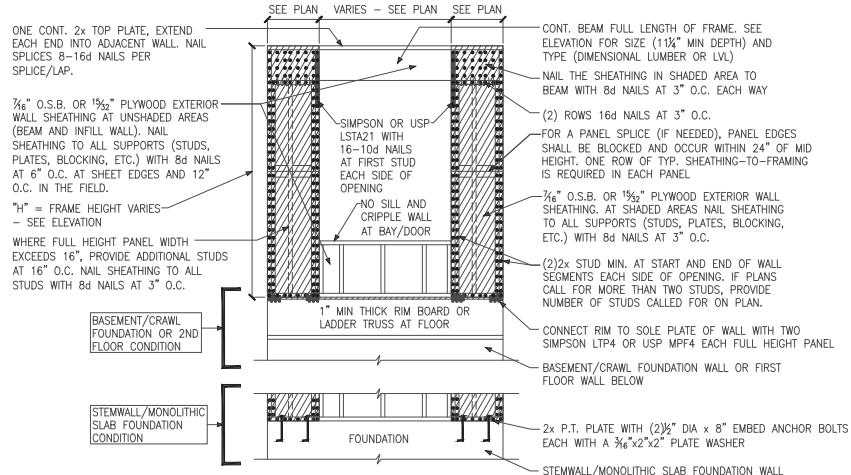


**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
ONE BRACED WALL SEGMENT

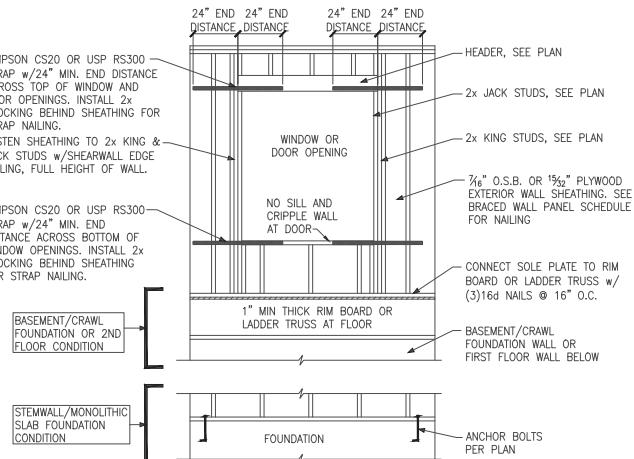
BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE			
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6d OR 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16" OSB	6d OR 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL
CS-EPF	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	7/16" OSB	8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8d COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	8d COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

BRACED WALL PANEL NOTES:

1. ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
3. SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH  $\frac{7}{16}$ " O.S.B. OR  $\frac{15}{32}$ " PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
4. BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.

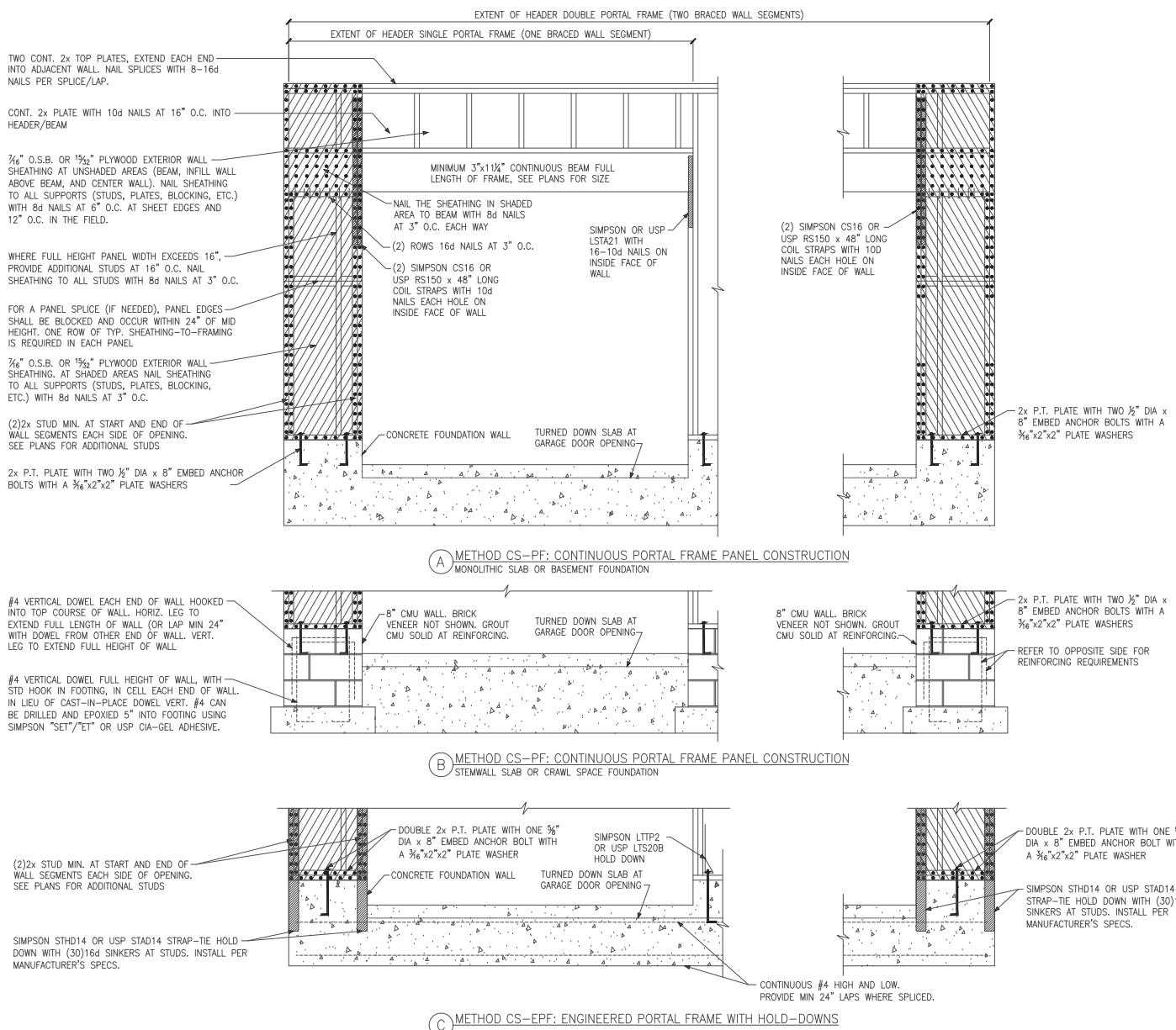


**B** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
TWO BRACED WALL SEGMENTS



**C** WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL  
ONLY REQUIRED WHERE SPECIFIED ON PLANS

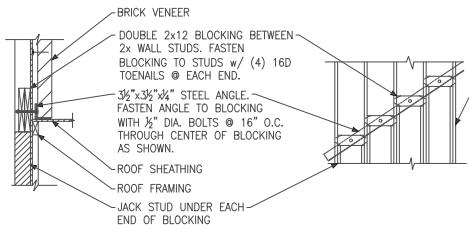




Portal Frame Details  
Serenity, Lot #1059  
A610 Springhill Model  
115 M.P.H.  
Raleigh, North Carolina

Project #: 047-24010  
Designed By: JPS  
Checked By:  
Issue Date: 7/18/25  
Re-issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34

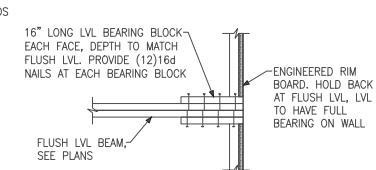
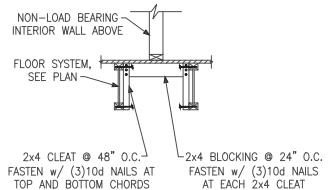
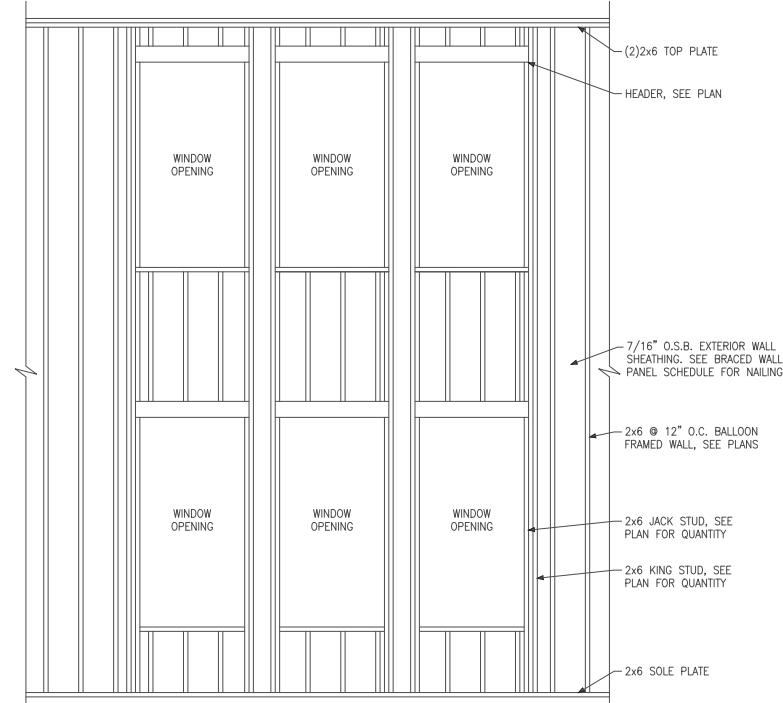




SECTION VIEW

ELEVATION VIEW

(A) BRICK LEDGER CONNECTION DETAIL

(B) BEARING ENHANCER  
FLUSH LVL(C) LADDER BLOCKING  
AS REQUIRED @ PARALLEL WALLS(D) BALLOON FRAMED WALL DETAIL  
N.T.S.

WALL STUD SIZE, HEIGHT & SPACING SCHEDULE							
STUD SIZE	BEARING WALLS				NONBEARING WALLS		
	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY	MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY	MAXIMUM SPACING WHEN SUPPORTING TWO FLOORS, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING	
2x4	10'-0"	24"	16"	-	14'-0"	24"	
2x6	10'-0"	24"	24"	16"	20'-0"	24"	

Miscellaneous Framing Details  
Serenity, Lot #1059  
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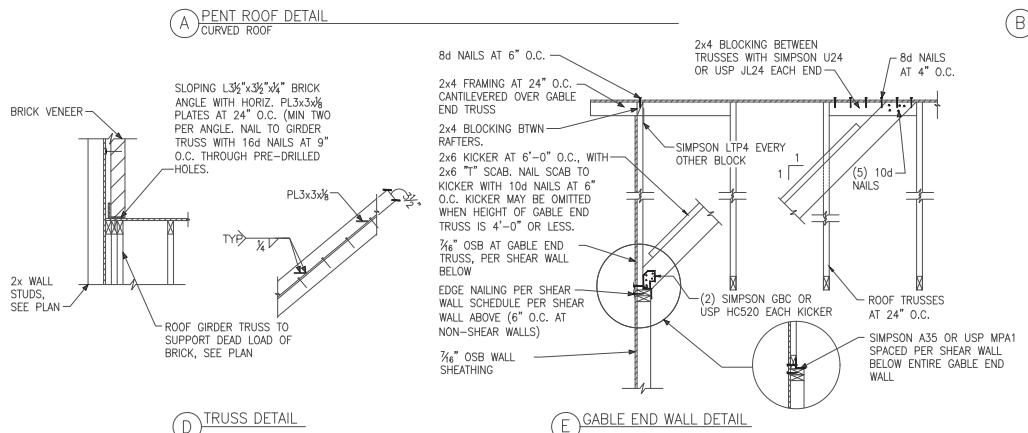
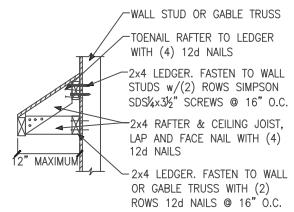
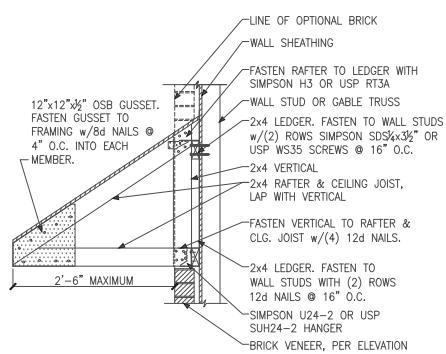
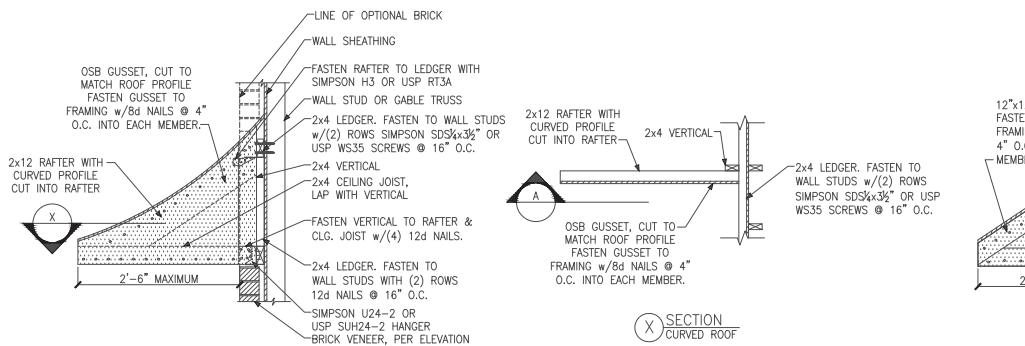


SD-5

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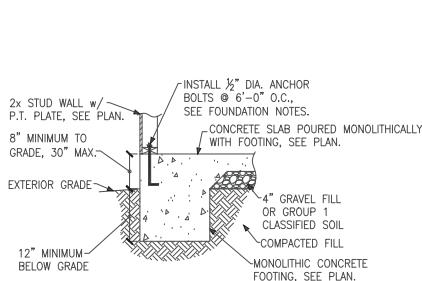


(E) GABLE END WALL DETAIL

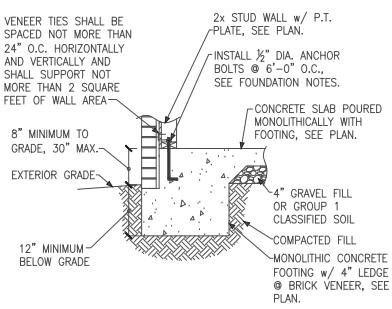
Miscellaneous Framing Details  
Serenity, Lot #1059  
A610 Springhill Model  
115 M.P.H.  
Raleigh, North Carolina

Project #: 047-24010  
Designed By: JPS  
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Re-issue:  
Scale: 1/8"=1'-0" @ 11x34  
1/4"=1'-0" @ 22x34

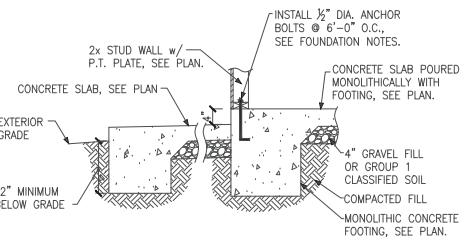




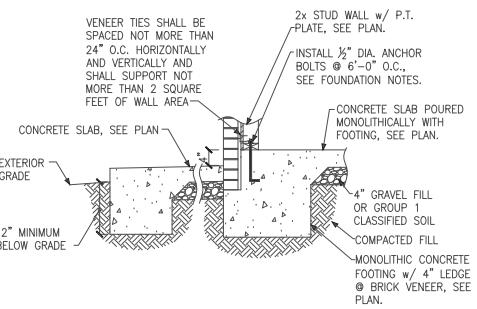
**A** FOUNDATION SECTION  
EXTERIOR WALL



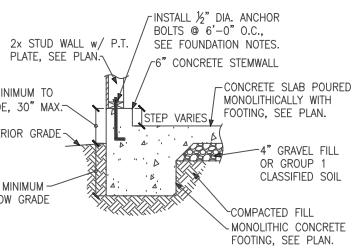
**B** FOUNDATION SECTION  
EXTERIOR WALL @ BRICK VENEER



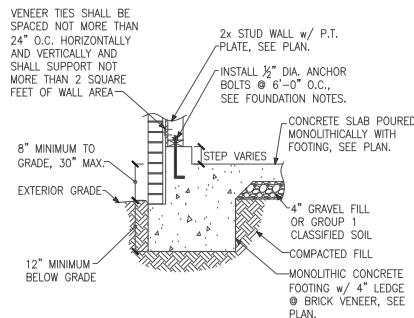
**C** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH



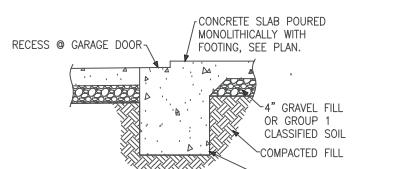
**D** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH w/ BRICK VENEER



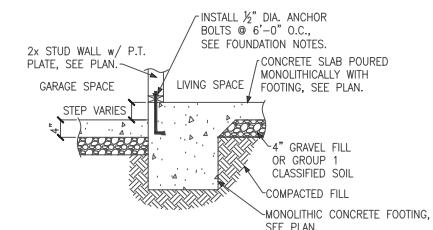
**E** FOUNDATION SECTION  
EXTERIOR GARAGE WALL



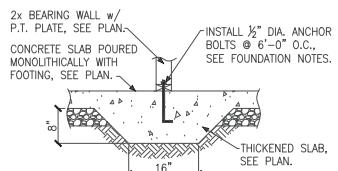
**F** FOUNDATION SECTION  
EXTERIOR GARAGE WALL @ BRICK VENEER



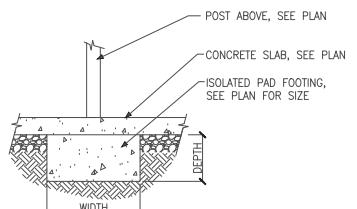
**G** GARAGE DOOR SECTION  
GARAGE DOOR



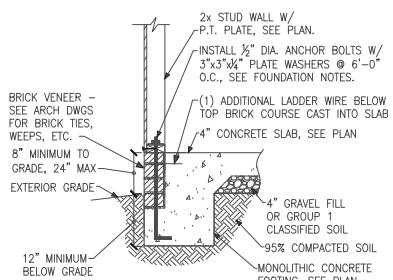
**H** THICKENED SLAB  
AT GARAGE



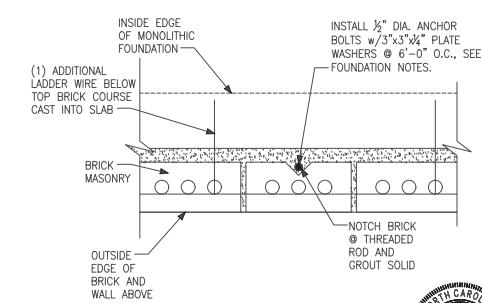
**J** THICKENED SLAB SECTION  
INTERIOR BEARING WALL



**K** ISOLATED PAD FOOTING  
INTERIOR COLUMN

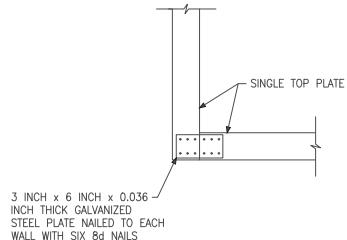


**L** FOUNDATION SECTION  
ALTERNATE EXTERIOR WALL

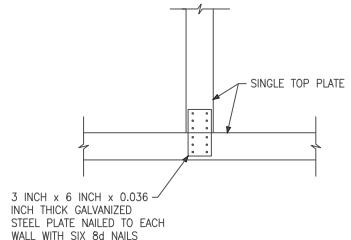


**M** FOUNDATION SECTION  
ALTERNATE EXTERIOR WALL

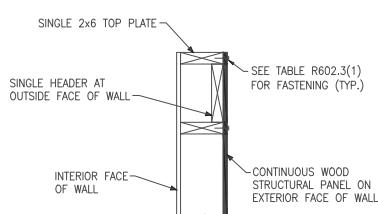




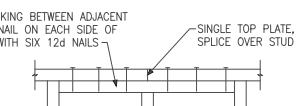
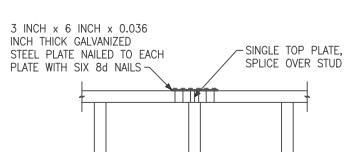
(A) SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



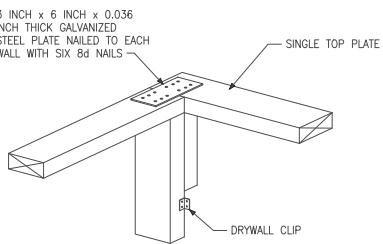
(B) SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



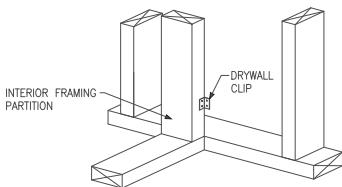
(C) SINGLE LOAD BEARING HEADER  
EXTERIOR WALL



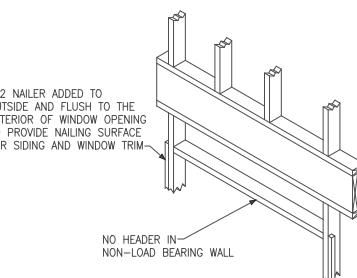
(D) SINGLE TOP PLATE SPLICE  
INTERIOR OR EXTERIOR WALL



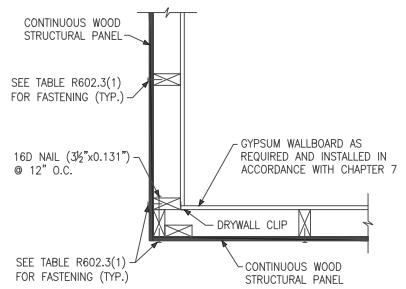
(E) SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



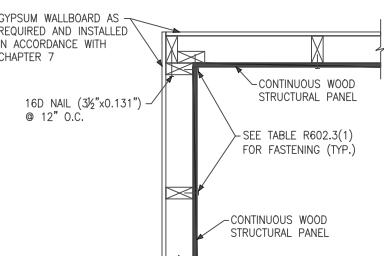
(F) SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



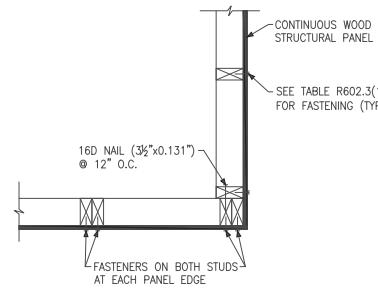
(G) NON-LOAD BEARING HEADER  
EXTERIOR WALL



(H) TYPICAL EXTERIOR CORNER FRAMING  
OUTSIDE CORNER DETAIL



(J) TYPICAL EXTERIOR CORNER FRAMING  
INSIDE CORNER DETAIL



(K) TYPICAL EXTERIOR CORNER FRAMING  
GARAGE DOOR CORNER DETAIL

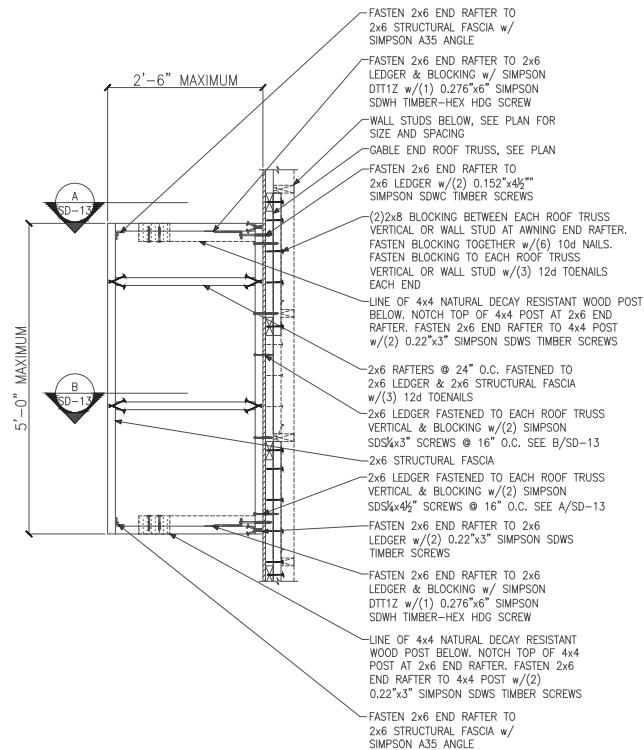
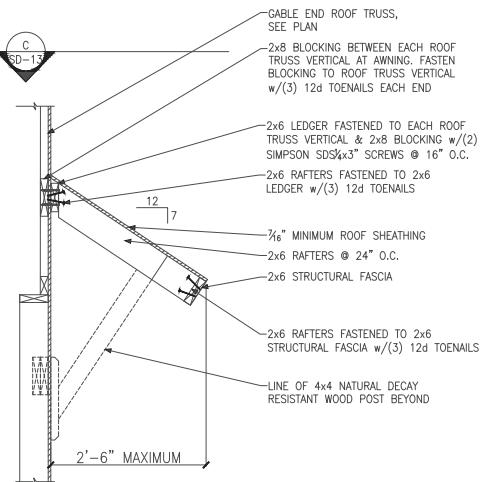
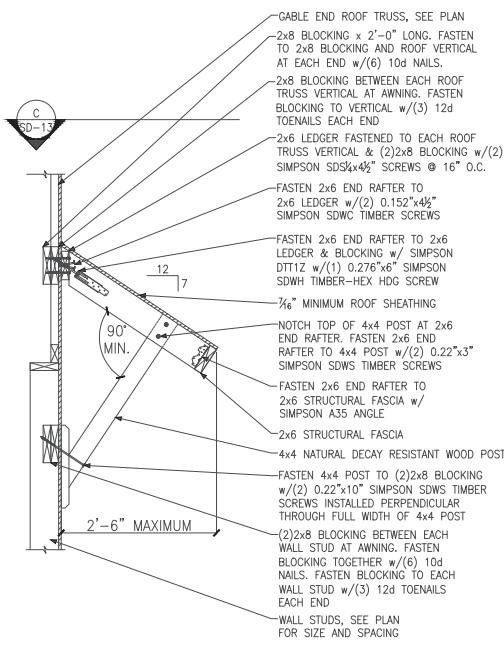
**ADVANCED FRAMING NOTES**

- 1.) EXTERIOR WALLS TO BE 2x6 S.P.F. STUDS @ 24" O.C. WITH SINGLE TOP PLATE. TOP PLATE TO BE SPLICED PER NC RESIDENTIAL CODE.
- 2.) INTERIOR BEARING WALLS TO BE PER NC RESIDENTIAL CODE.
- 3.) ROOF TRUSSES AND FLOOR JOISTS ARE TO BE STACKED AND CENTERED OVER STUDS WITH A TOLERANCE OF NO MORE THAN 1 INCH. ADDITIONAL STUDS ARE TO BE ADDED WHERE THE ROOF TRUSSES AND FLOOR JOISTS ARE NOT STACKED OVER STUDS WITHIN 1" TOLERANCE.
- 4.) INTERIOR NON-LOAD BEARING WALLS TO BE 2x4 S.P.F. STUDS @ 24" O.C. WITH SINGLE TOP PLATE. TOP PLATE TO BE SPLICED PER NC RESIDENTIAL CODE.
- 5.) LOAD-BEARING HEADERS ARE NOT REQUIRED IN INTERIOR OR EXTERIOR NONBEARING WALLS. A SINGLE FLAT 2x MEMBER MAY BE USED AS A HEADER IN INTERIOR OR EXTERIOR NONBEARING WALLS FOR OPENINGS UP TO 8 FEET IN WIDTH IF THE VERTICAL DISTANCE TO THE PARALLEL NAILING SURFACE IS NOT MORE THAN 24 INCHES. FOR SUCH NONBEARING HEADERS, NO CRIPPLES OR BLOCKING ARE REQUIRED ABOVE THE HEADER.

Advanced Framing Details & Notes  
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A610 Springhill Model  
115 M.P.H.  
Raleigh, North Carolina

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Checked By:  
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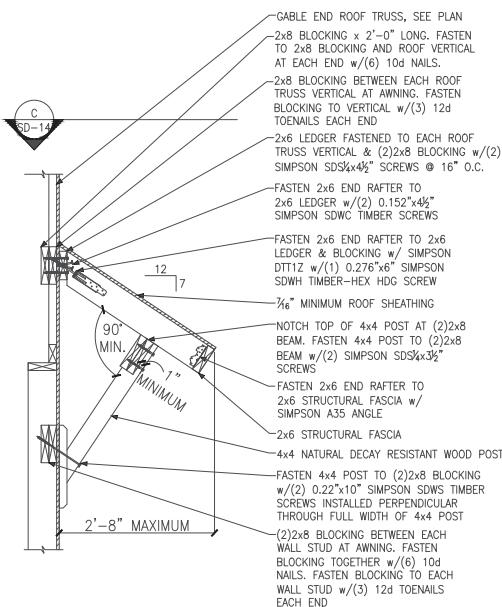
David Weekley Homes  
Raleigh, NC

Miscellaneous Framing Details  
Serenity, Lot #1059  
A610 Springhill Model  
115 M.P.H.  
Raleigh, North Carolina

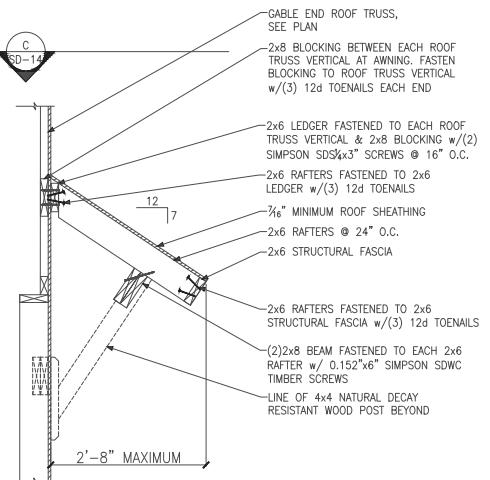
Project #: 047-24010  
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Issue Date: 7/18/25  
Re-issue:  
Scale:



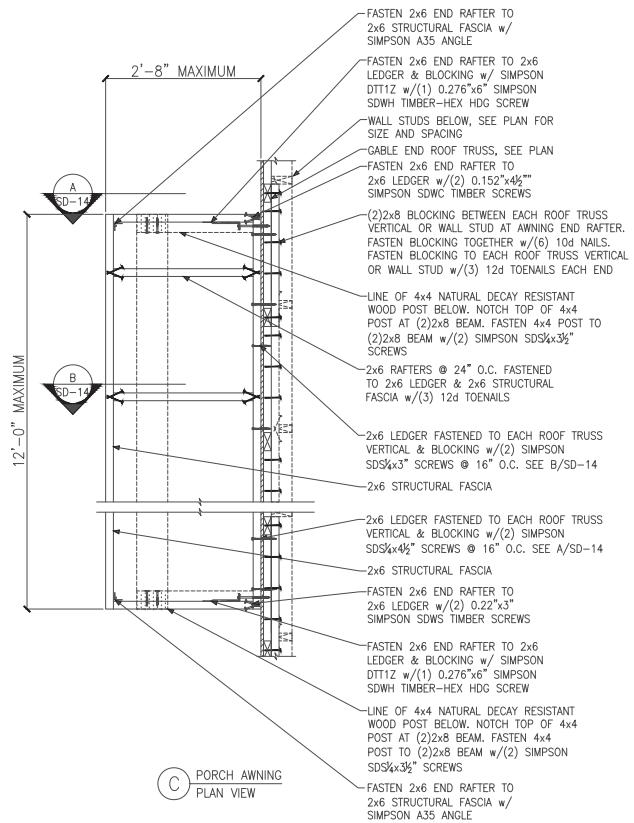
SD-13



**A** PORCH AWNING SECTION  
END RAFTER



**B** PORCH AWNING SECTION  
INTERIOR RAFTER



C PORCH AWNING  
PLAN VIEW

Miscellaneous Framing Details  
Serenity, Lot #1059  
A610 Springhill Model  
1115 M.P.H.  
Raleigh, North Carolina

Project #: 047-24010  
Designed By: JPS  
Checked By:  
Issue Date: 7/18/25  
Re-Issue:  
Scale:

SD-14

