



\_\_\_O'FIRSTFLOOR

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

> NORTH B329-B ELV-1 BUCKHORN RALEIGH

0".FIRST.FLOOR.

David Weekley Homes

Lot: 1009

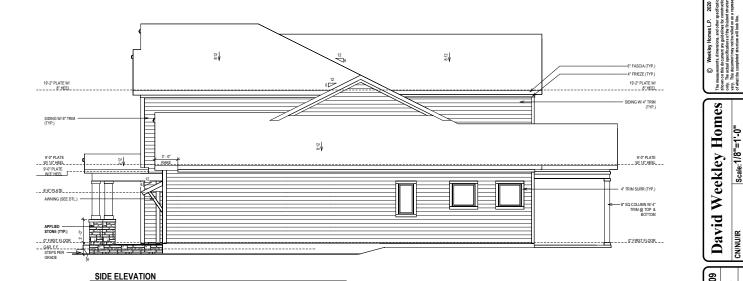
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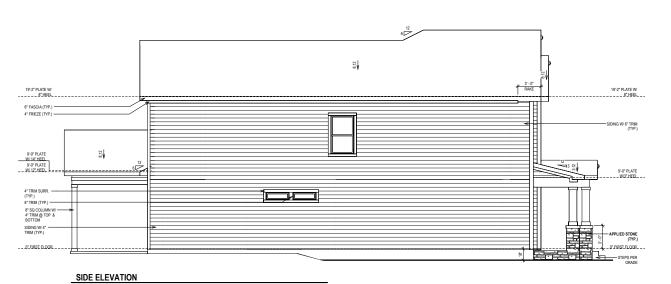
Proj. No.: 3277 Job No.: 1009

SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

Scale:1/8"=1'-0" Rev: 8/12/25 EB

CN/NU/IR Date: 09/21/2020





SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

David Weekley Homes

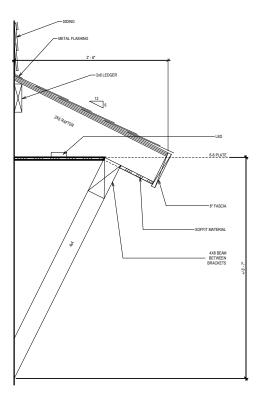
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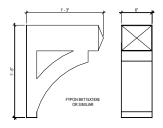
Scale:1/8"=1'-0" Rev: 8/12/25 EB

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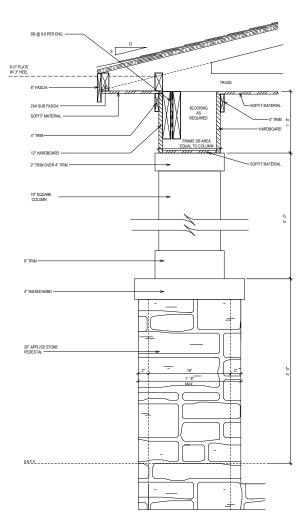
B329-B ELV-2 BUCKHORN RALEIGH



# AWNING DETAIL W/ BEAM SCALE: 1" = 1'-0"



# BRACKET DETAIL SCALE: 1" = 1'-0"



# CORNICE A DETAIL SCALE: 1" = 1'-0"

SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC B329-B ELV-3 BUCKHORN RALEIGH

Weekley Homes L.P.
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- MONOLITHIC SLAB FOUNDATION PLAN
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- SD-2 HOLD DOWN DETAILS
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- ADVANCED FRAMING DETAILS & NOTES



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# **B329 BUCKHORN**

SERENITY, LOT #1009

# 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 RECORDING LENGINEER OF RECORD (SER), SHOULD ANY DISORPEANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. SEFORE 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 CONTRACTED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE TO FOR ANY PLAN DRAFORS, OMISSIONS, OR MISHITERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PROOF 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.

- \*\*RODF = 20 PSF (LOAD DURATION FACTOR=1.25)

  \*\*UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
- · HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 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>8</sub>=2,325 PSI, F<sub>8</sub>=310 PSI, F<sub>6</sub>=900 PSI

  \*LVL: E=2,000,000 PSI, F<sub>8</sub>=2,600 PSI, F<sub>8</sub>=285 PSI, F<sub>6</sub>=750 PSI

  \*PSI: E=2,100,000 PSI, F<sub>8</sub>=2,900 PSI, F<sub>6</sub>=290 PSI, F<sub>6</sub>=625 PSI



David Weekley Homes

Cover Sheet Serenity, Lot #1009 B329 Buckhorn Model Serenity Raleigh, North Carolin

Project #: 047-20009

Designed By: JPS Checked By: Issue Date: 8/22/25

1/4"=1'-0" @ 22x34



- 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 ASPECTS OF THESE CONSTRUCTION DUCKMENTS WITHOUT WRITEN CONSENT OF RESE ENGINEERING P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY. THE STRUCTURE IS OWNLY STABLE IN TSO COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACKING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
- IODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION HIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT

THE CONTROLLOR'S PALLORE TO COMPORANT OF THE CONTROL.

DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.

THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR
ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER
ASSUMES NO LUBILITY FOR CHANGES MADE TO THESE PLANS BY
OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION

OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON

- THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL INSINIER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENDINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS FROMEOUT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENDINEERING, P.C. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE FINDINGETHING, P.C. BEFORE CONSTRUCTION FROM S. THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE
- TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
  THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURE
  LELMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE
  ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- ELEMENTS SPECIFICALLY NOTICE ON THE STRUCTURE. APPRIANCES.
  THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL
  APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL
  CODES OR RESTRICTIONS.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS, ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING LINLESS OTHERWISE NOTED 10. WATERPROOFING AND FLASHING BY OTHERS

FOUNDATIONS: FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE

- CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY
  OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO
- BE AS SPECIFIED IN THE BUILDING CODE.

  THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE DEPORTED.
- 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 THE THICKNESS OF THE FOOTING.
  WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH
- 16" 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, 3" DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS FOR CONCRETE FOUNDATIONS ONLY.

  ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR
- RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER, THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY
- 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. NO CONCRETE SHALL BE PLACED AGAINST ANY SLIBGRADE CONTAINING
- WATER, ICE, FROST, OR LOOSE MATERIAL.
  PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE
- ARCHITECTURAL PLANS AND DETAILS).

  NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS, REFER TO
- GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
  LOTS 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.
- WITHIN THE HIST IEN FEEL.

  3. 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
  - 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 ACL 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO
- +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.

  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
- CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302,1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
- CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLARS-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
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED. REINFORCING STEEL MAY EXTEND THROUGH A SAW CUT JOINT
- ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR, FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIRERS MAY BE LISED. CONCRETE REINFORCEMENT, OR POLTPROPTENE FIBERS MAY BE USED IN LIEU OF WWW.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY STANDARD.
- 10. POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT. 11. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING
- TO ASTM A615, GRADE 60. DEFALLING, 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". HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE
- CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCEMENT.
- 14. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE: #4 BARS - 30" LENGTH
- #5 BARS 38" LENGTH #6 BARS 45" LENGTH
- # DEMO: 43 LEUNIH SERVICE THE SHALL BE EQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE OWNER SHALL EXTEND 50 BAR DAMETERS VERTICALLY AND 20 BAR DAMETERS INTO THE FOOTING. SEE KSE FOUNDATION DETAILS.

  16. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE
- CONDITIONS PROVIDE CONTINUOUS REINFORCING WITH 7 BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 17. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACL 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
- SPACED NOT MORE HAN 4 FEET ON CENTER, NO ROCKS, CMD, CLAT TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING. 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

# MASONRY

- ALL MASONRY SHALL CONFORM TO ASTM C-90, F'm=1500 PSI, ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=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 36" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000
- ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TUMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ ASCE
- 6/TUMS 602. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT SECRECE TOTA THISE THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION. EACH CRAIM, SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIODER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS, PILASTERS TO BE BONDED TO PERIMETER
- FOUNDATION WALL.
  TOP COURSE OF MASONRY SHALL BE GROUTED SOLID 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.
- SPLICED WIRE 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:

- 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 HERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED
- SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN
- E=1,400,000 PSI, F<sub>b</sub>=875 PSI, F<sub>v</sub>=135 PSI
- 1.1. FRAMING: SPF #2.
- 1.2. PLATES: SPF #2. 1.3. STUDS: SPF STUD GRADE
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR
- ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
- INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD
- TRANSFER, WALL SHEATHING SHALL BE NALED TO EDGE OF EACH STUD.
  FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLIES.
- FASTEN 4-PLY BEAMS WITH (1) 1/2" DIAMETER THROUGH BOLT w/ NUT WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 15" MINIMUM EDGE DISTANCE, (UNLESS OTHERWISE NOTED)
- ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED, THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS
- 11. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. 24" O.C. STUD SPACING: (1) STUD UP TO 4' OPENING 16" O.C. STUD SPACING: (1) STUD UP TO 3' OPENING (2) STUDS UP TO 4' OPENING (2) STUDS UP TO 8' OPENING STUDS UP TO 8' OPENING (5) STUDS UP TO 12' OPENING (4) STUDS UP TO 16' OPENING (6) STUDS UP TO 16' OPENING
  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
- WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS. 14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY
- (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.
  ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE TH RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS
- DETAILED BY OTHERS.
  ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING PROTECTION SHIELDS. ALL HOLES OVER 1 IN DIAMETER FOR PLUMBI LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED. 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 THE STUD IN LIEU OF SHEATHING.

# EXTERIOR WOOD FRAMED DECKS

- DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS,
- EITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS.
  PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER. GUARD RAILS AND LATERAL BRACING IS REQUIRED AT DECKS. DESIGN BY
- PROVIDE DECK LATERAL LOAD CONNECTIONS PER BUILDING CODE.

# RAFTER FRAMED ROOF CONSTRUCTION:

- PROVIDE 2x4x4'-0" RAFTER TIES AT 50" O.C.
  RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES
  AS SHOWN ON THE PLAN. PURLIN BRACES SHALL NOT BEAR ON ANY CELLING JOIST STRONGRACK OR HEADER LINLESS SPECIFICALLY
- SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS
  CEILING JOISTS SHALL HAVE LATERAL SUPPORT w/ 1x4 FLAT BRACING ON TOP FDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. FASTEN END OF BRACING TO RAFTÉR OR GABLE END FRAMING
- FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
- PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0" O.C. TIE STRONGBACK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS FASTEN STRONGRACK TO 2v4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL

## WOOD TRUSSES (FLOOR & ROOF):

- THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES, SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- THE WOOD TRUSSES 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 FOLIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO
- THE TRUSSES.
  THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TIP 1: "NATIK DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACIN INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES' (BCI) THIS BRACING BOTH TEMPORARY AND PERMANENT SHALL BE SHOWN ON THE SHOP DRAWINGS. ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED AND STANING FOR THE FLOOR AND ROOT ROOSES AS RECOURSE.

DIRING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCI. THE CONTRACTOR SHALL KEEP A COPY OF THE BCI SUMMARY SHEETS ON SITE.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT

- THE CONTROLLOR RESPONSIBLE TO THE STRUCTURAL DRAWING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES, REFET TO BCI SUMMARY SHEET BY FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE. SUCH BRAUGE TO PROVIDE SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIGONAL BRACES SHALL BE FASTEN. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DIE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING DEDITION, HE CONTRICTOR SHALL BRACING CANNOT BE INSTALLED, DIE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING DEDITION, HE CONTRICTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) IS REQUIRED
- ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.

  TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH
- THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS, TRUSS PROFILES TO BE SEALED BY THE TRUSS
  MANUFACTURER, TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES
- 10. PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

- WOOD STRUCTURAL PANELS:

  1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS
- ALL STRUCTURALLY REQUIRED WOOD SHEATHING SHALL BEAR THE
- WOOD 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. EXTERIOR WALLS TO BE FULLY SHEATHED LISING 76" OSB OR PLYWOOD MINIMUM AT BRACED WALL PANELS PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES, BLOCKING AT HORIZONTAL JOINTS SHALL NOT BE REQUIRED IN WALL SEGMENTS NOT COUNTED AS BRACED WALL
- 4 ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSLIRE 1 OR ROUP SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE I T 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL OG IVAIL AT 8 OV. AT PARKEL EDGES AND AT 12 OV. IN PARKEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS, SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING LINLESS OTHERWISE NOTED PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE  $\%_6$ " OSB MINIMUM.

  WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING
- WOUD FLOOR SHEATHING SMALL BE APA RAILD SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE 12 O.C. IN PARTING SHALL BE APPLIED PERPENDICULAR TO FRAMING.
  SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE
  FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING
- SHEATHING SHALL HAVE A %" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

# STRUCTURAL FIBERBOARD PANELS:

- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS. FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE ALFA STANDARDS
- STARUARDS.

  FIBERBOARD 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.
- SHEATHING SHALL HAVE A %" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE ALFA.

- STRUCTURAL STEEL:

  1. STRUCTURAL SITEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F.) OF 50 KSI UNLESS OTHERWISE NOTED.
  WELDING SHALL CONFORM TO THE LATEST EDITION OF THE
- AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AIWA D1.1 ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS 570XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A
- MINIMUM BEARING LENGTH OF 38" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 35" x 4" LAG SCREWS UNLESS OTHERWISE NOTED.
  INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO
- MATCH BEAM WIDTH, FASTEN PLATE TO BEAM w/ HILTI X-DIN 52 P8 PINS AT 12" O.C. STAGGERED OR 1/2" DIAMETER BOLTS AT 24"

### MECHANICAL FASTENERS

- ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG—TIE OR APPROVED EQUIVALENT.

  ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN
- ACCORDANCE WITH ASTIM A 153, G-185.

  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"	3½"x3½"x¼"	4"					
UP TO 6'-3"	5"x3½"x5(6" L.L.V.	8"					
UP TO 9'-6"	6"x3½"x5√6" L.L.V.	12"					
LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS.							
SPANS OVER	R 4'-0" SHALL BE SHORED UP	UNTIL CURED.					



Model #1009 rn Mode Structural **uckhor** Гot

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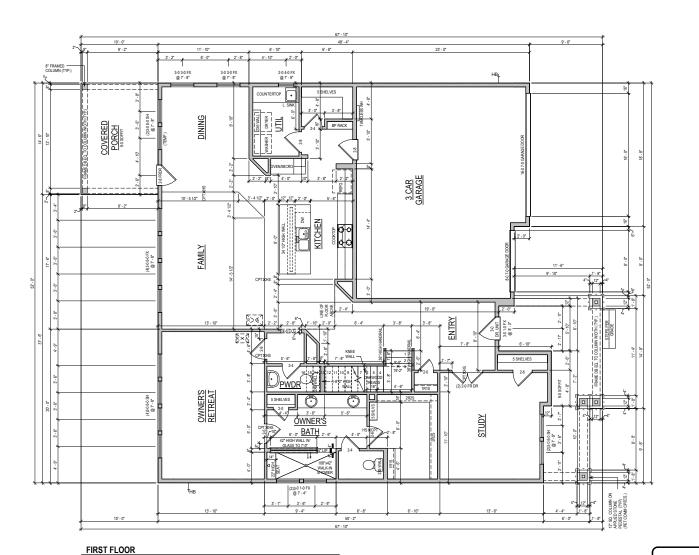
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David 7

Gen. Serenity, 729 Bu Serenity General Ral Project #: 047-20009 Designed By: JPS

Checked By:

Issue Date: 8/22/25 Re-Issue: Scale: 1/8"=1'-0" @ 11v17 1/4"=1'-0" @ 22x34



GENERAL REQUIREMENTS

OPTION LIST

DOOR @ OWNER'S CLOSET
STARS: HARD SURFACE TREADS
RAUNO @ STARS:
FROR'S @ STUDY
COUNTERTOR @ UTILITY
SINK @ UTILITY
SINK @ UTILITY

SHOWER @ BATH 2
SHOWER @ BATH 3
BACKPACK RACK
COOKTOP KITCHEN
COVERED PORCH
SUPER SHOWER @ OWNER'S BATH

SLOPED SURFACE REQUIREMENTS ALL PATIOS TO SLOPE 1/4" PER FOOT GARAGE FLOOR TO BE SLOPED 1/8" PE

Proj. No.: 3277 Job No.: 1009

1009

SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

B329-B PLN-1

BUCKHORN RALEIGH

PLAN SQFT SLAB 1ST FLO COVER FRONT GARAG TOTAL

1ST FLOOR	1895 SF
2ND FLOOR	1126 SF
TOTAL LIVING	3021 SF
SLAB	
1ST FLOOR	1895 SF
COVERED PORCH	145 SF
FRONT PORCH	202 SF
GARAGE	613 SF
TOTAL SLAB	2855 SF
FRAMING	
1ST FLOOR	1895 SF
2ND FLOOR	1080 SF
COVERED PORCH	145.SF
FRONT PORCH	202 SF
	202 SF 613 SF

David Weekley Homes

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

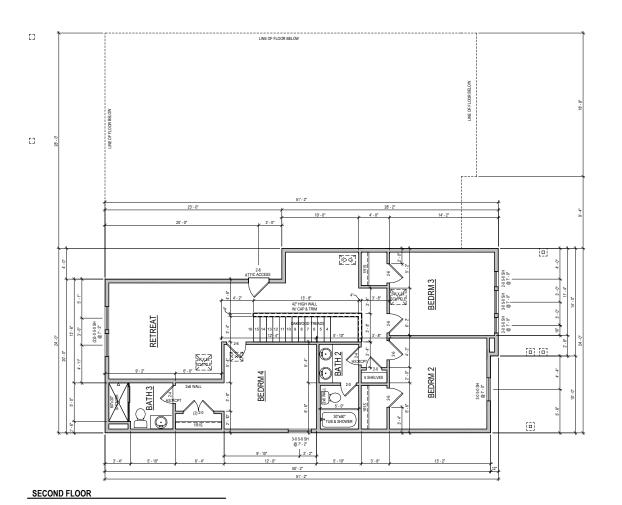
NOTE: ALL 1ST FLR. CEILING HEIGHTS 9' - 0" UNLESS NOTED OTHERWISE

© Weekley The measurements, dimensi shown on this document are only. The actual specification vary. This document may no of what the commissed states	Weekley Homes L.P. 2020     Weekley Homes L.P. 2020     Messamment dimension, and other specifications to the measurement dimension, and other specifications of the measurement of the specification of the measurement	( -
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Scale:1/8"=1'-0" Rev: 8/12/25 EB

CN/NU/IR Date: 09/21/2020

Block: Lot:



NOTE: ALL 2ND FLR. CEILING HEIGHTS 9' - 0" UNLESS NOTED OTHERWISE

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

David Weekley Homes Lot: 1009

Weekley Homes L.P.
The measurements, dimensions, and other upos above no this document are guidelesses for control. The actual specifications of the finished vary. This document may not be related.

Scale:1/8"=1'-0" Rev: 8/12/25 EB

CN/NU/IR Date: 09/21/2020

Block:

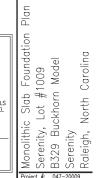
Proj. No.: 3277 Job No.: 1009 SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

B329-B PLN-2 BUCKHORN RALEIGH

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COM (215) 804-4449

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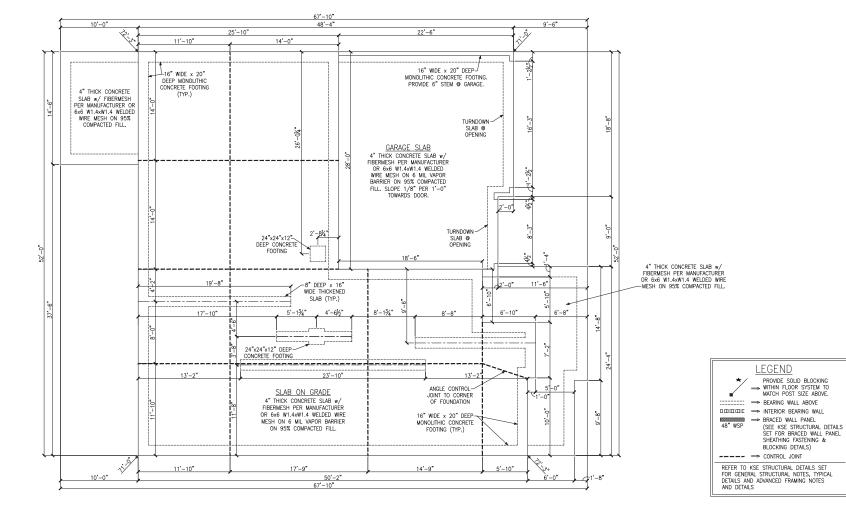


Project #: 047-20009
Designed By: JPS
Checked By:
Issue Date: 8/22/25
Re-Issue:

Model

Carolina

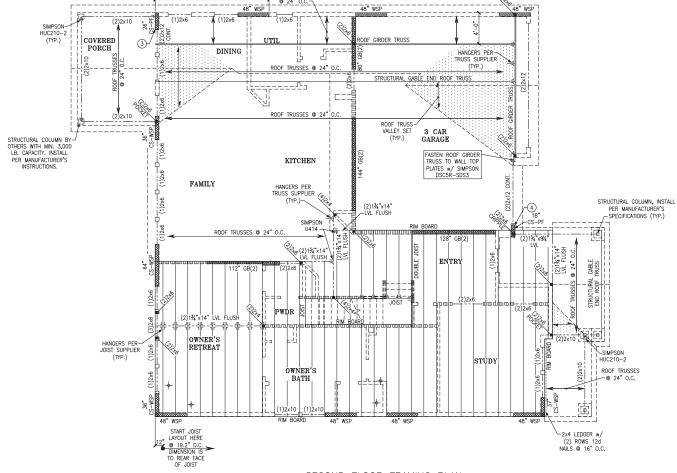
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34





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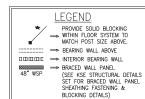
AT THIS WALL, FASTEN ALL TOP PLATE

SPLICES w/ SIMPSON RPS18 STRAPS

ROOF TRUSSES

@ 24" O.C.-

SECOND FLOOR FRAMING PLAN



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

PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, SPACING PER MANUFACTURER.

- (3) INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A/SD-3.
- INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.

Second F Serenity, Serenity Raleigh, B329 Project #: 047-20009 Designed By: JPS

Model

Buckhorn

#1009

Pot

Checked By: Issue Date: 8/22/25 Re-Issue:

Plan

Framing

Floor

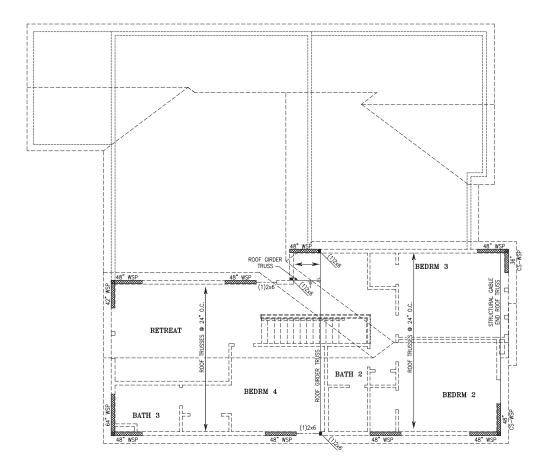
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Carolina

North

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KSE



ROOF FRAMING PLAN



PROVIDE SOLID BLOCKING
WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

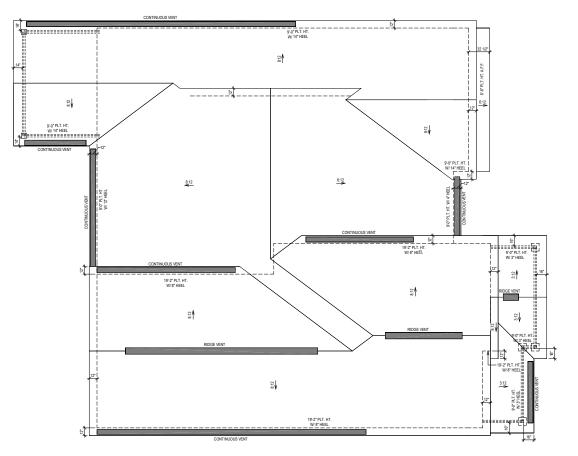
⇒ BEARING WALL ABOVE □□□□□□□ ⇒ INTERIOR BEARING WALL 48" WSP

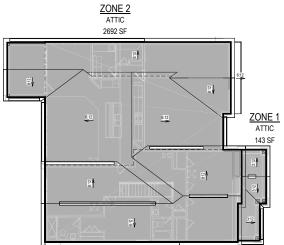
BRACED WALL PANEL
(SEE KSE STRUCTURAL DETAILS
SET FOR BRACED WALL PANEL
SHEATHING FASTENING &
BLOCKING DETAILS)

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

PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT

Roof Framing Plan
Serenity, Lot #1009
B329 Buckhorn Model
Serenity
Raleigh, North Carolina Project #: 047–20009
Designed By:JPS
Checked By:
Issue Date: 8/22/25
Re-Issue:
Scale: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34





# ATTIC VENTILATION "B"

ATTIC VENTILATION WITH SECONDARY INTAKE - B													
NET	NET FREE VENTILATED AREA EXHAUST VENTS INTAKE VENTS ACTU. VENTILAT												
NEVA	NFVA=AREA SF X 144 / RATIO INSTALL NO MORE THAN 3' BELOW HIGHEST POINT OF ZONE				INSTALL IN LOWER THIRD OF ZONE				EXHAUST NOT TO EXCEED INTAKE				
			\	VENTS		PRIMARY VENTS SECO		SECON	IDARY VENTS				
ZONE	AREA	VENT	MIN	REQ	SIZE	COUNT	SIZE	COUNT	INTAKE SPLIT %	SIZE	COUNT	EXHAUST	INTAKE
		KAIIO	MEVA		SQIN	EA or SQIN/LF	SQIN	EA or SQIN/LF	OFLII 76	SQIN	EA or SQINLF		"
ZONE 1	143 SF	300	69	Yes	18	2	5	8	0%	0	0	47%	53%
ZONE 2	2692 SF	300	1292	Yes	18	35	5	133	0%	0	0	49%	51%
	•	•		•		•	•		•		•		

SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

David Weekley Homes

Lot: 1009

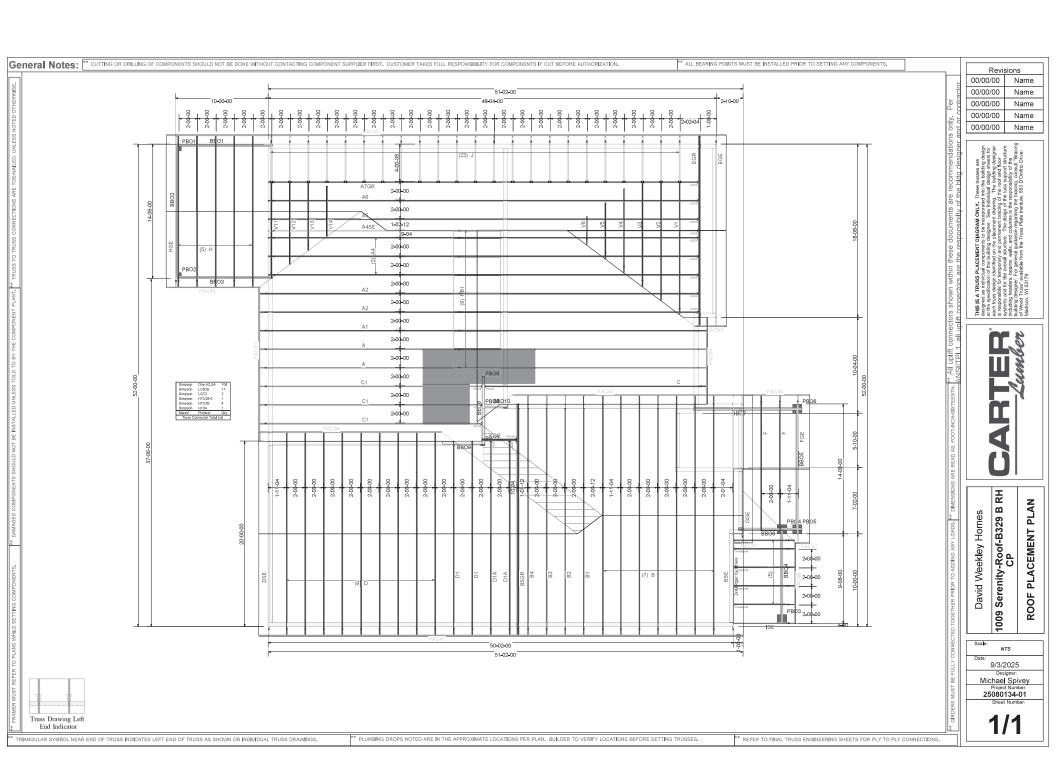
Proj. No.: 3277 Job No.: 1009

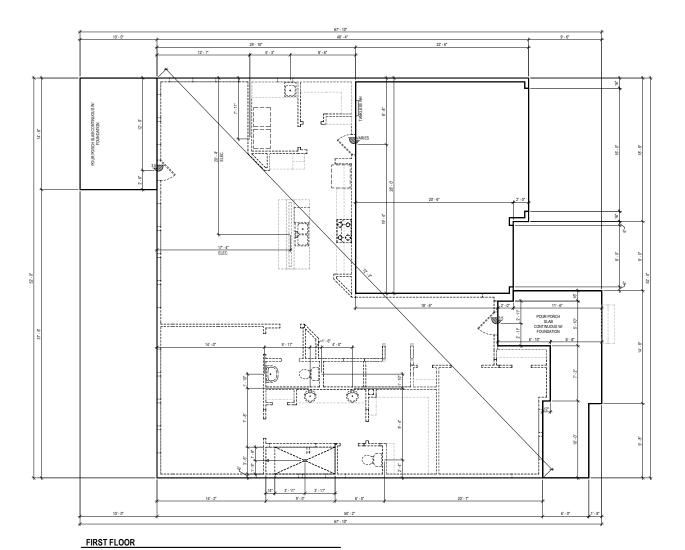
Scale:1/8"=1'-0" Rev: 8/12/25 EB

CN/NU/IR Date: 09/21/2020

NORTH B329-B RFP-1 BUCKHORN RALEIGH

ROOF PLAN "B"





SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

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 David Weekley Homes

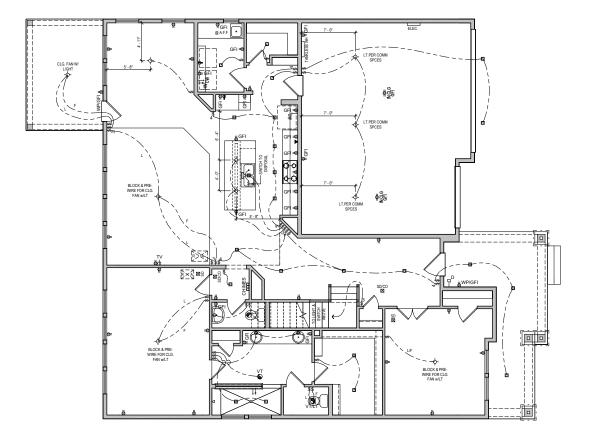
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 Rev: 8/12/25 EB

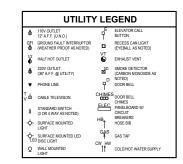
3277 Lot: 1009 3277 Block: -1009 Sect: -

SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

NORTH B329-B FS-1 BUCKHORN RALEIGH



FIRST FLOOR



IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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

VT/LT RECESSED CAN/ EXHAUST VENT COMBO

# MID-ATLANTIC General Notes

ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOULDINGS.

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)

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.

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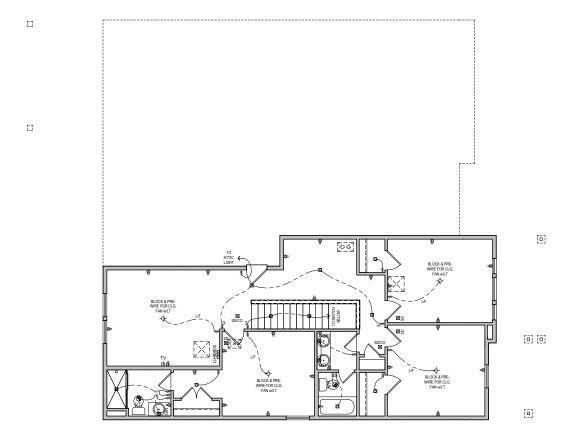
David Weekley Homes Scale:1/8"=1'-0" Rev: 8/12/25 EB CN/NU/IR Date: 09/21/2020

1009 Lot:

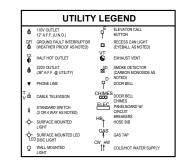
Proj. No.: 3277 Job No.: 1009

SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

NORTH B329-B ELE-1 BUCKHORN RALEIGH



SECOND FLOOR



IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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VT/LT RECESSED CAN/ EXHAUST VENT COMBO

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David Weekley Homes Scale:1/8"=1'-0" Rev: 8/12/25 EB CN/NU/IR Date: 09/21/2020

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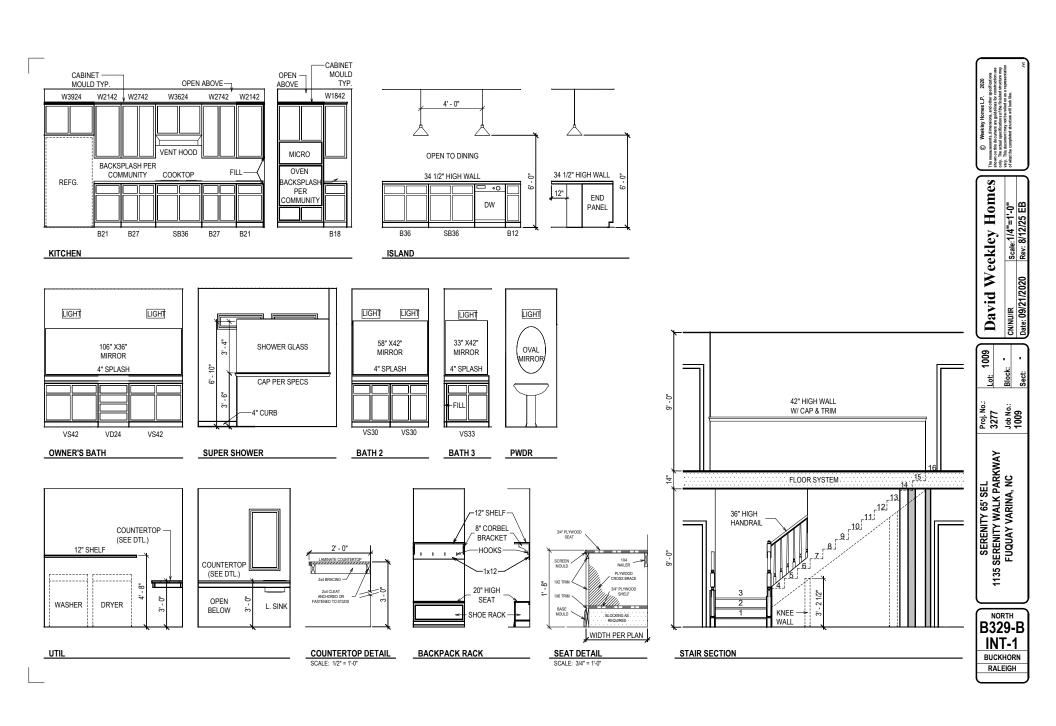
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1009 Lot:

Proj. No.: 3277 Job No.: 1009

SERENITY 65' SEL 1135 SERENITY WALK PARKWAY FUQUAY VARINA, NC

NORTH B329-B ELE-2 BUCKHORN RALEIGH











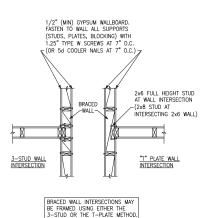




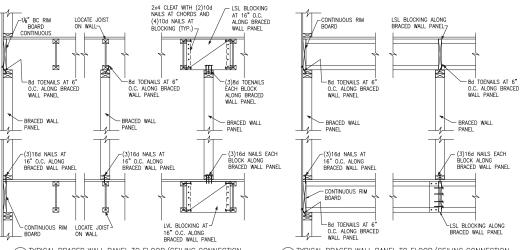






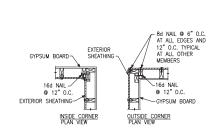


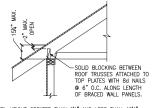
© METHOD GB(1) AND GB(2) INTERSECTION DETAILS

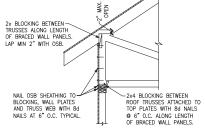


A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PARALLEL TO I-JOISTS

B TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PERPENDICULAR TO I-JOISTS







HEEL HEIGHT GREATER THAN 91/4" AND LESS THAN 151/4"

HEEL HEIGHT GREATER 15"

D TYPICAL EXTERIOR CORNER WALL FRAMING

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.

E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS ONLY REQUIRED AT BRACED WALL PANELS



Project #: 047-20009 Designed By: JPS Checked By: Issue Date: 8/22/25 Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Braced Wall Details Serenity, Lot #1009 B329 Buckhorn Model

Carolina

North

Serenity Raleigh,







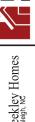








David Weekley Homes



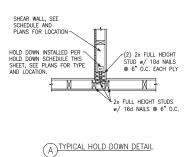




North



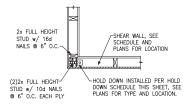
Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

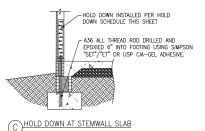


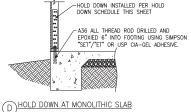
A36 ALL THREAD ROD-

SIMPSON CNW1/2 OR USP CNW12-ZAP COUPLER NUT

GROUT CMU SOLID AT ALL THREAD ROD-



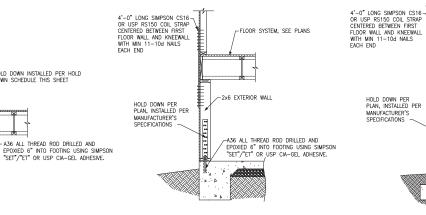


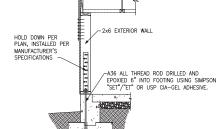


-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

(E)HOLD DOWN AT CRAWL FOUNDATION







-FLOOR SYSTEM, SEE PLANS

F)HOLD DOWN AT FOUNDATION
MONOLITHIC TURN-DOWN

	HOL	D DC	WN	ΑT	FOUNDATION	
(b)	STEM	WALL				

	1	HOLD DOWN	SCHEDULE
HOLD		FASTENERS	
SIMPSON	USP		
LTTP2	LTS20B	½" DIA.	(10)10d NAILS
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS
HTT5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS

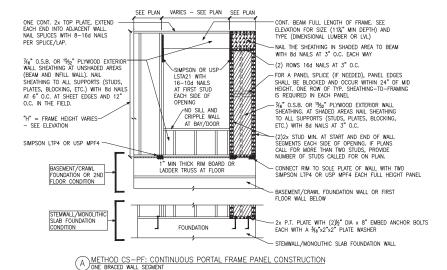
Details

Notes &

Wall

ity, Lot #1009 Buckhorn Mode

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



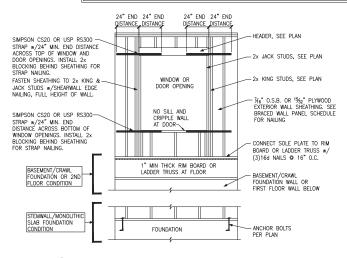
ONE CONT. 2x TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES 8-16d NAILS FER SPLICE/LAP.  7/6" O.S.B. OR 19/62" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM AND INFILL WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD.  "H" = FRAME HEIGHT VARIES— - SEE ELEVATION WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.  BASEMENT/CRAWL FOUNDATION OR 2ND ELOOR CONDITION	SEE PLAN VARIES - SEE PLAN SEE PLAN  CONT. BEAM FULL LENGTH OF FRAME. SEE CLEVATION FOR SIZE (11½" MIN DEPTH) AND TYPE (DIMENSIONAL LUMBER OR LVL).  NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d MAILS AT 3" O.C. EACH WAY  (2) ROWS 16d MAILS AT 3" O.C. EACH WAY  (2) ROWS 16d MAILS AT 3" O.C. EACH WAY  (2) ROWS 16d MAILS AT 3" O.C. FOR A PAWEL SPUCE (IF NEEDED), PAWEL EDDES SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID HEGHT. ONE ROW OF TYP. SHEATHING—TO—FRAMING IS REQUIRED IN EACH PANEL  OPENING  NO SILL AND CRIPPLE WALL AT BAY/DOOR  AT BAY/DOOR  1" MIN THICK RIM BOARD OR LADDER TRUSS AT FLOOR  LADDER TRUSS AT FLOOR  CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LITP4 OR USP MPF4 EACH FULL HEIGHT PANEL
<u>_</u> -	BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW
STEMWALL/MONOLITHIC SLAB FOUNDATION CONDITION	2x P.T. PLATE WITH (2)% DIA x 8" EMBED ANCHOR BOLTS EACH WITH A 1/6"x2"x2" PLATE WASHER  STEMMALL/MONOLITHIC SLAB FOUNDATION WALL

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

	BRACED WALL	PANEL AN	ND 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. <u>Engineered Alternative</u> : 16 <u>Gage By 1,75" long STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS</u>
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GAL. 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 GAL. 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 GAL. 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. <u>Engineered Alternative</u> : 16 <u>Gage By 1.75" long staples at 3" o.c. at sheet edges and 6" o.c. at intermediate support</u>
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:

- ALL BRACED WALL PANELS SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES, EXCEPT INTERMITTENT GYPSUM BOARD PANEL TYPES INSTALLED HORIZONTALLY.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH  $\frac{7}{16}$ " O.S.B., OR  $^{1}$ 5½" 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 PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.



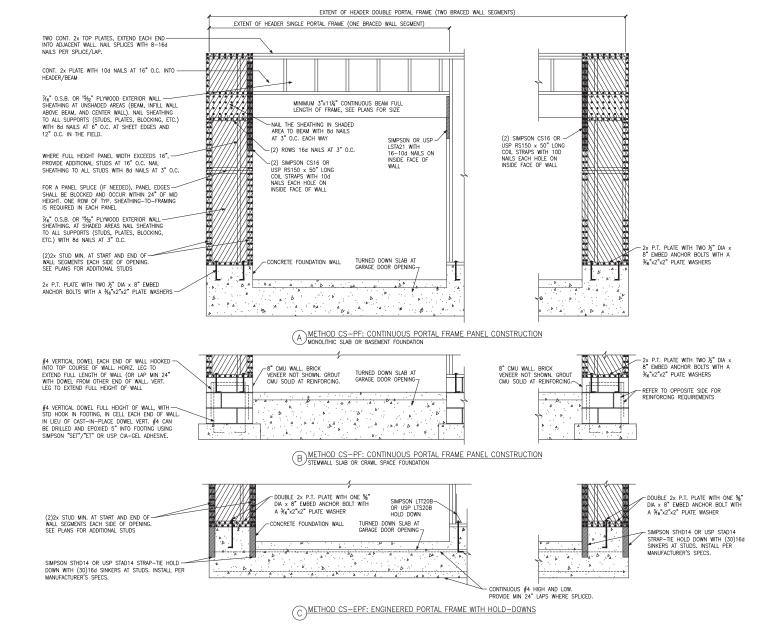
WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL ONLY REQUIRED WHERE SPECIFIED ON PLANS



JEERING

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ENGINE SUITE 201, QUAKE S





Model Details y, Lot #1009 Buckhorn Mode Frame Serenity, Serenity Raleigh,  $\bar{\Box}$ Portal B329 Project #: 047-20009

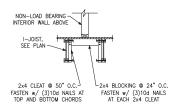
Carolina

North

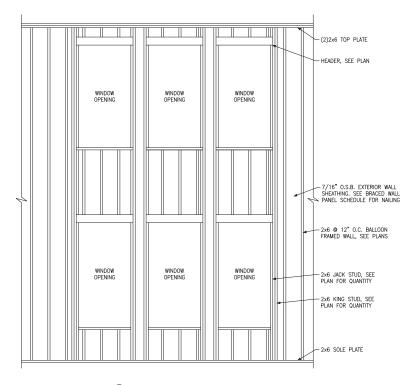
Designed By: JPS Checked By:

Issue Date: 8/22/25 Re-Issue:

1/4"=1'-0" @ 22x34



C I-JOIST LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



	WALL	STUD SIZE, I	HEIGHT & SPA	ACING SCHEDU	ILE	
		BEARING	WALLS		NONBEARIN	IG WALLS
STUD SIZE	LATERALLY UNSUPPORTED STUD HEIGHT	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING			
2x4	10'-0"	24"	16"	-	14'-0"	24"
2x6	10'-0"	24"	24"	16"	20'-0"	24"



Details

Scoenity, Lot #1009

Local B329 Buckhorn Model

B329 Buckhorn Model

Schenity

Schenity

Raleigh, North Carolina

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KSE

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SD\_5

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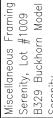
(215) 804-4449

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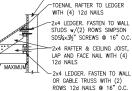
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Checked By: Issue Date: 8/22/25 Re-Issue:

Project #: 047-20009 Designed By: JPS

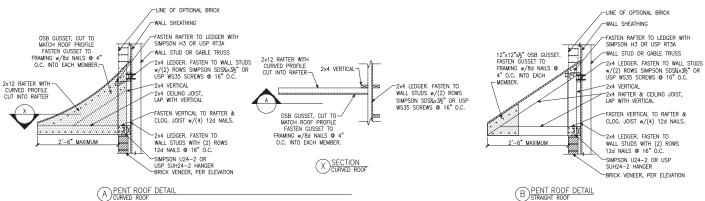


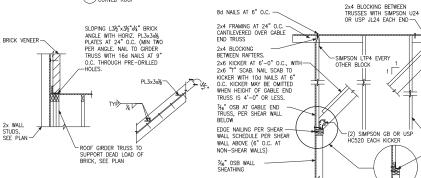
Detail



-WALL STUD OR GABLE TRUSS

C EYEBROW ROOF DETAIL
STRAIGHT ROOF





-SIMPSON LTP4 EVERY (5) 10d-(2) SIMPSON GB OR USP ROOF TRUSSES HC520 EACH KICKER AT 24" O.C. SIMPSON A35 OR USP MPA1 SPACED PER SHEAR WALL BELOW ENTIRE GABLE END

(E) GABLE END WALL DETAIL

(D)TRUSS DETAIL

B PENT ROOF DETAIL

AT 4" O.C.



Foundation

Slab

1009

Serenity, B329 Bu

1/4"=1'-0" @ 22x34

Re-Issue:

Issue Date: 8/22/25

Monolithic

Project #: 047-20009

Designed By: JPS Checked By:

Raleigh, Serenity

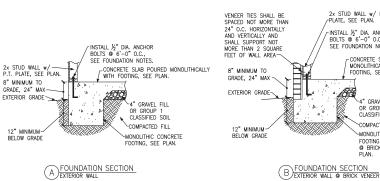
North

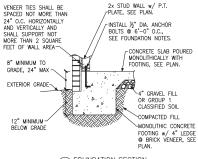


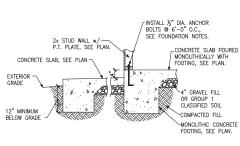


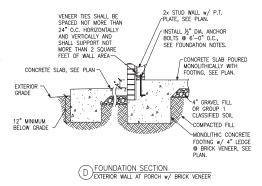


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FINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., SEE FOUNDATION NOTES.

LIVING SPACE /

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

COMPACTED FILL

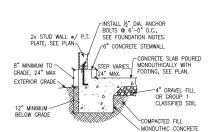
-MONOLITHIC CONCRETE FOOTING, SEE PLAN.

VENEER TIES SHALL BE SPACED NOT MORE THAN

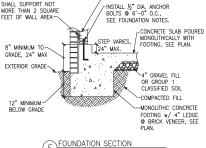
24" O.C. HORIZONTALLY AND VERTICALLY AND SHALL SUPPORT NOT

C FOUNDATION SECTION EXTERIOR WALL AT PORCH

FOOTING, SEE PLAN,

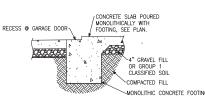




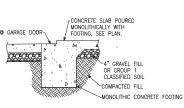


2x STUD WALL w/ P.T. PLATE, SEE PLAN.





G GARAGE DOOR SECTION



H)THICKENED SLAB

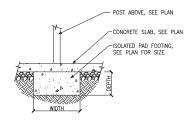
2x STUD WALL w/ P.T. PLATE, SEE PLAN.

STEP VARIES

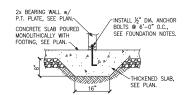
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24" MAX

GARAGE SPACE



ISOLATED PAD FOOTING INTERIOR COLUMN





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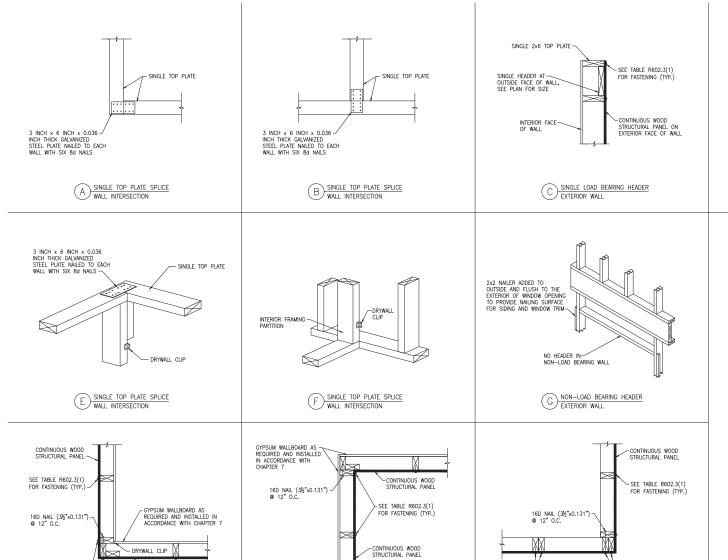






1/4"=1'-0" @ 22x34





TYPICAL EXTERIOR CORNER FRAMING

INSIDE CORNER DETAIL

FASTENERS ON BOTH STUDS

TYPICAL EXTERIOR CORNER FRAMING

AT EACH PANEL EDGE

GARAGE DOOR CORNER DETAIL

SEE TABLE R602.3(1)

CONTINUOUS WOOD

STRUCTURAL PANEL

TYPICAL EXTERIOR CORNER FRAMING

OUTSIDE CORNER DETAIL

INCH THICK GALVANIZED
STEEL PLATE NAILED TO EACH SPLICE OVER STUD PLATE WITH SIX 8d NAILS 2x BLOCKING BETWEEN ADJACENT STUDS. NAIL ON EACH SIDE OF SPLICE WITH SIX 12d NAILS 7 -SINGLE TOP PLATE, SPLICE OVER STUD SINGLE TOP PLATE SPLICE INTERIOR OR EXTERIOR WALL

SINGLE TOP PLATE.

3 INCH x 6 INCH x 0.036

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 NO 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.

Details iity, Lot #1009 Buckhorn Mode Framing Advanced

Notes

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