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 David Weekley Homes

 CNIAFISG
 Scale:1/8"=1-0"

 Date: 10/02/2020
 Rev. 12/16/21 EB

9770 Lot: 61 3277 Job No.: Block:

SERENITY 65'
34 SERENDIPITY DR
FUQUAY-VARINA, NC

NORTH B330-A ELV-2 RANSDALL RALEIGH

SHEET INDEX:

S-0.1 GENERAL STRUCTURAL NOTES MONOLITHIC SLAB FOUNDATION PLAN SECOND FLOOR FRAMING PLAN

COVER SHEET

- ROOF FRAMING PLAN S = 3
- SD-1 BRACED WALL DETAILS SD-2 HOLD DOWN DETAILS SD-3BRACED WALL NOTES & DETAILS PORTAL FRAME DETAILS
- SD-5 MISCELLANEOUS FRAMING DETAILS MISCELLANEOUS FRAMING DETAILS SD-7 MONOLITHIC SLAB FOUNDATION DETAILS
- SD-8 SD-9 NOT USED
- SD-10 SD-11 NOT USED
- ADVANCED FRAMING DETAILS & NOTES



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B330 RANSDALL

SERENITY, LOT #61

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 RECHARDARY, LEUCHDAG, AND PURIOR (SER), SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY IS ESPONDALION. SEFON SERVICE AND ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY IS ES DOCUMENTS. THAT THESE DOCUMENTS EACOUNTED 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 CONTRACTOR TO A DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE TO RANT PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTION AND NOT REPORTED TO THE COMMENCE TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN TRISE 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.

- N LIVE LUMDS:
 ** CROOF = 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, F₈=2,325 PSI, F₄=310 PSI, F₆=900 PSI

 * LVL: E=2,000,000 PSI, F₈=2,600 PSI, F₈=286 PSI, F₈=750 PSI

 * PSI: E=2,100,000 PSI, F₈=2,900 PSI, F₉=290 PSI, F₆=625 PSI



David Weekley Homes

Carolina Model Cover Sheet Serenity, Lot #61 B330 Ransdall Mod North М.Р.Н 115

Project #: 047-20010 Designed By: JPS Checked By: Issue Date: 6/13/22

Re-Issue: Scale: 1/8"=1'-0" @ 11x17 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. LOO THESE ARTY MAY RENSE, ALTER, OR DELETE ANY STRUCTURAL. NO OTHER PARTY MAY RENSE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER, FOR THE CONSERING THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY. THE STRUCTURE IS ONLY STABLEE IN ITS COMPLETED FORM, THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION STOUCHACES, WITHOUT AND THE STRUCTURE. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAULUE TO CONFORM TO THE CONTRACTOR'S FAULUE TO THE TOTAL THE CONTRACTOR'S FAULUE TO THE TOP TO THE TO THIS PROJECT, THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY
- THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT

- THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT
 DOCUMENTS, SHOULD ANY NON-CONFORMITE OCCUR.
 THE SEP DOES NOT CEPTIFY DIMENSIONAL ACCURACY OR
 THE SEP DOES NOT CEPTIFY DIMENSIONAL ACCURACY OR
 ARCHHECTURAL LAYOUT INCLUDING PROOF GEOMETRY. THE SER
 ASSUMES NO LUBBILITY FOR CHANGES MADE TO THESE PLANS BY
 OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVAITON
 FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO
 CONSTRUCTION IF ANY DISCREPANCIES ARE NOTIFIED ON THE PLANS.
 ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON
 THE CONSTRUCTION DEAVINISS SHALL BE COMPITED WHOSE THE
 DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP
 DRAWINGS SHALL BE SUBMITTED TO KES ENDINEERING FOR REVIEW
 BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE
 STRUCTURAL DESIGN OF THIS PROJECT, VERRICATION OF THE SHOP
 STRUCTURAL DESIGN OF THIS PROJECT, VERRICATION OF THE SHOP
 DRAWINGS OF OVERALL COMPULANCE AS IT RELATES TO THE
 STRUCTURAL DESIGN OF THIS PROJECT, VERRICATION OF THE SHOP
 DRAWINGS ON DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C. 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.
 THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL
 ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE
- FLEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- 9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS ALL DIMENSIONS ARE TO EACE OF STUD OR TO EACE OF FRAMING LINLESS OTHERWISE NOTED 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
- 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. ½" 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
- MAXIMUM BY DESTITE.

 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 SUBGRADE 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 FIRST TEN FEET.

 CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.
 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 ACI 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. ARE ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.

 NO ADMIXTURES SHALL BE ADDED TO AMY 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 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
- 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 POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF WW.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.
- 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. 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". 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
- WHERE REINFORCING DOWELS ARE REQUIRED. THEY SHALL BE WHERE REPREVENING DOWELS ARE REQUIRED, THEI SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT.
 THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KSE FOUNDATION DETAILS.
 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 CMIL CLAY
- SPACED NOT MORE HAM 4 FEET ON CENTER. NO ROCKS, CMU, CLAY 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/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ ASCE 6/TMS 602. 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
- FACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL
- 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., UNILESS 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'

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) LINEESS THERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO
- SPRUCE-PINE-FIR (SPE) WITH THE FOLLOWING MINIMUM DESIGN
- VALUES: E=1,400,000 PSI, F_b=875 PSI, F_v=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 NAILED 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, 16" 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
- PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. 16" O.C. STUD SPACING: (1) STUD UP TO 3' OPENING 24" O.C. STUD SPACING: (1) STUD UP TO 4' OPENING (2) STUDS UP TO 4' OPENING (2) STUDS UP TO 8' OPENING STUDS UP TO 8' OPENING (3) STUDS UP TO 12' 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
- BENF FOLK WIDTH ON THE SUPPORTING WALLS OF COLOMISS MOUNTED WITH A MINIMUM OF TWO STUDES, ONLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.

 13. SOLID BLOCKING TO BE PROMIDED 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 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 OF 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 48" 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 LINEESS SPECIFICALLY SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS.
 CEILING JOISTS SHALL HAVE LATERAL SUPPORT W/ 1x4 FLAT
- BRACING ON TOP FOCE OF JOIST AT LOOSE JOIST FNDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. FASTEN END OF BRACING TO RAFTER 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) 124 NAUS FASTEN STRONGRACK TO 2VA FLAT WITH 124 NAUS 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/TPI 1: "NATIC DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- 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 TRUSSES' (BCSI) 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 DURING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BOST. THE CONTRACTOR SHALL FOLLOW THE CROWNER OF THE LATEST BOST. THE CONTRACTOR SHALL KEEP A COPY OF THE BCSI SUMMARY SHEETS ON SITE.

- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT THE CONTROLLOR RESPONSIBLE FOR INSTALLAR ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES, REFET TO BCSI SUMMARY SHEET BS FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE, SUCH BRUCES TO PROVIDE AT BUSH CONTINUOUS STREETS PARKE LINE. SO, DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTEND TO EACH TREVE SWEED WITH MINIMUM OF TWO TOEF FACE SHALLS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTINACTOR 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 WERS SHOWN ON THESE DRAWINGS HAVE REEN 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
- 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
- STRUCTURALLY REQUIRED WOOD SHEATHING SHALL BEAR THE
- LISING 76" OSR MINIMIM AT RRACED WALL PANELS PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR
- PLATES,
 ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH BIG NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING BE APPLIED WITH THE LONG DIRECTION PERPENDICUOAR TO FRAMIN SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING, ROOF SHEATHING
- TO BE $\frac{7}{6}$ OSB MINIMUM. WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 104 NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE SHEATHING SHALL HAVE A SHAN 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 AFA STANDARDS
- 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 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

- STRUCTURAL STEEL:

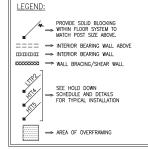
 1. STRUCTURAL SITEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F.) OF 50 KSI UNLESS OTHERWISE NOTED.
 WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA
- DI.1. ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. 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) 1/2" 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-DNI 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 PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185,
- ACCUPOANCE WITH ASIM A 133, G-183.

 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 SC	HEDULE		
SPAN	LINTEL SIZE	END BEARING		
UP TO 3'-0"	3½"×3½"×¼"	4"		
UP TO 6'-3"	5"x3½"x¾6" L.L.V.	8"		
UP TO 9'-6"	6"x3½"x516" L.L.V.	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.				



NUBN S Ш

Homes

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Weekl

David 7

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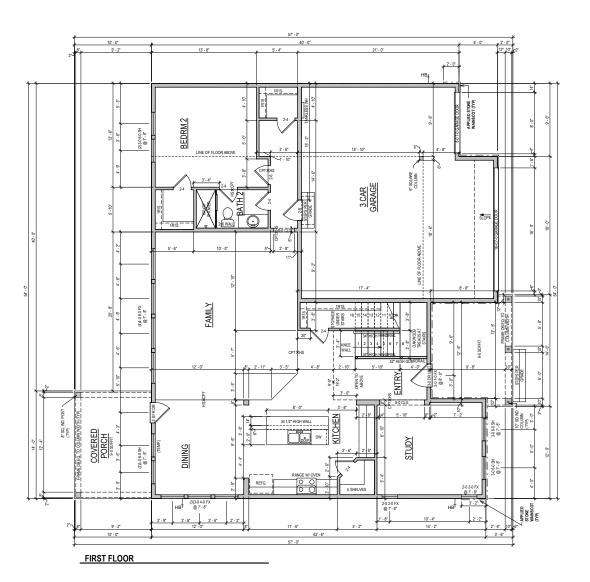
Structural

9

Carolina Š .H. North σ. gh, \geq 2 Ral

Serenity, Lot #6 B330 Ransdall I General Project #: 047-20010 Designed By: JPS Checked By:

Issue Date: 6/13/22 Re-Issue: Scale: 1/8"=1'-0" @ 11×17 1/4"=1'-0" @ 22x34



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

© Weekley
The measurements, dimensis shown on this document are only. The actual specification vary. This document re-ADVANCED FRAMING: 2X6 EXTERIOR PERIMETER WALLS & ALL INSULATED WALLS UNLESS NOTED OTHERWISE

David Weekley Homes CN/AF/SG Date: 10/02/2020

61 Fot: Proj. No.: 3277 Job No.: 0061

SERENITY 65'
34 SERENDIPITY DR
FUQUAY-VARINA, NC

PLAN SQFT

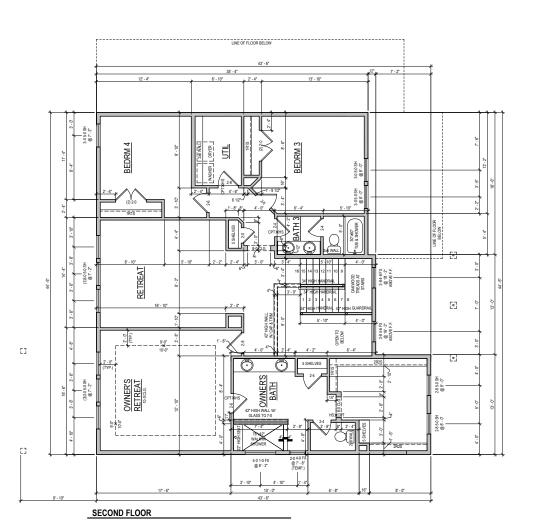
2ND FLOOR COVERED PORCH FRONT PORCH



GENERAL REQUIREMENTS

GARAGE FLOOR TO BE SLOPED 1/8" PER FOOT TOWARDS VEHICLE ENTRY DOOR ROOF DECKS AND BALCONIES TO BE SLOPED 1/4" PER FOOT TOWARDS RELIEF POINTS

FINISHED GUARDRAIL AND HANDRAIL SPINDLES MUST BE SPACED SO A 4" SPHERE WILL NOT PASS THROUGH.



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

ADVANCED FRAMING: 2X6 EXTERIOR PERIMETER WALLS & ALL INSULATED WALLS UNLESS NOTED OTHERWISE David Weekley Homes 61 Lot:

Week key Homes LP.

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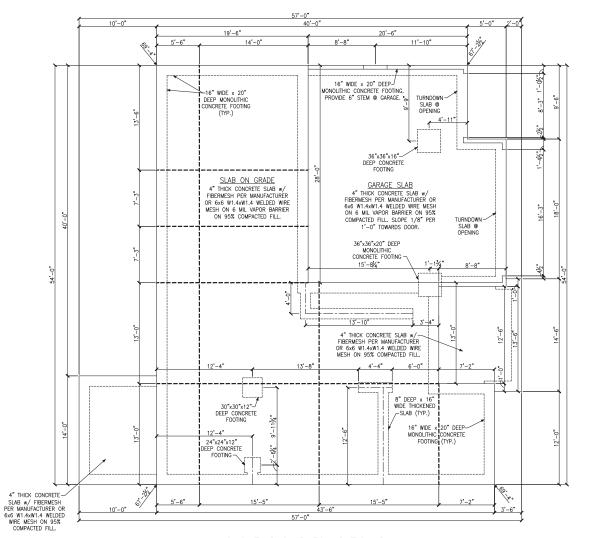
CN/AF/SG Date: 10/02/2020

Block: Proj. No.: 3277 Job No.: 0061 SERENITY 65' 34 SERENDIPITY DR FUQUAY-VARINA, NC

B330-A PLN-2 RANSDALL RALEIGH

ENGINEERING
E, SUITE 201, QUAKERTOWN, PA 18951
com (215) 804-4449

KSE



MONOLITHIC SLAB FOUNDATION PLAN



48" WSP

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)

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



Plan Monolithic Slab Foundation P Serenity, Lot #61 B330 Ransdall Model 115 M.P.H. Project #: 047-20010

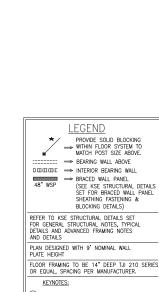
Designed By: JPS

Checked By: Issue Date: 6/13/22



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KSE



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.

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

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Plan

Framing

#61

|Second Floor Fr |Serenity, Lot #6 |B330 Ransdall N

SECOND FLOOR FRAMING PLAN

KITCHEN

RIM BOARD

BUILDER OFFICE

HANGER BY-

JOIST SUPPLIER=

шинишинишин

ENTRY

Ç==-

DOUBLE JOIST

STUDY

+

5¼"x 5¼" 1.8E PSL COLUMN w/ SIMPSON BC6 CAP & CB66 BASE

HANGERS PER TRUSS SUPPLIER (TYP.)

SALES

OFFICE

SALES

OFFICE

12" O.C. RAMED WALL

2x6 @

SLOPED CEILING

B STRUCTURAL COLUMN, INSTALL PER MANUFACTURER'S SPECIFICATIONS (TYPICAL)

SIMPSON
HUC210-2

TRUSSES

-ROOF TRUSSES @ 24" O.C.

-ROOF TRUSS VALLEY SET

(TYP.)

AROU

DESIGNED TO I S-WSP. STRAP / PER DETAIL C/

CS-ESW(1) I 98" OF CS-OPENINGS I

-2x4 LEDGER w/

(2) ROWS 12d NAILS @ 12" O.C.

TAIL BEARING ROOF TRUSSES © 24" O.C.

ROOF TRUSSES @ 24" O.

ADA BATH

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E FOR

Œ.

SIMPSON HU416 -

64" WSP

BEDRM 2

DOUBLE JOIST

FAMILY

DINING

(1)2x6 (1)2x6 (1)2x6

BATH 2

2)2x8 (1)2x6

CS-WSP-\

(2)

© (2)2x12 (0)11 (1)

(2)2x12

800F TRUS

(2)2x12

COVERED

PORCH

JOIST HERE 0.C.

START , LAYOUT

JOIST HERE 0.C.

SIMPSON

HUC210-2

STRUCTURAL COLUMN BY___OTHERS WITH MIN. 3,000 LB. CAPACITY. INSTALL

PER MANUFACTURER'S

INSTRUCTIONS.



Project #: 047-20010

115 M.P.H. Raleigh, North Carolina

Model

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KSE





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 & 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

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 8-104 NAILS EACH END. AT SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION w/ SIMPSON DTT1Z w/ SIMPSON ¾"x6"
TITEN HD SCREW ANCHOR AND 3½"
MINIMUM EMBEDMENT.

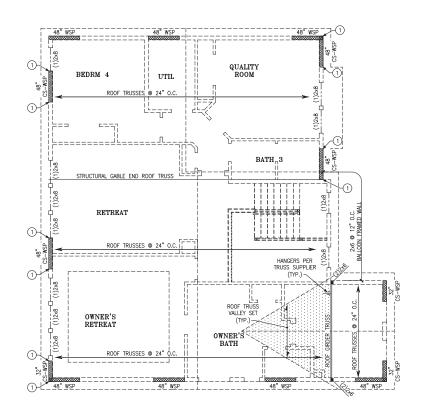
Roof Framing Plan
Ferenity, Lot #61
B330 Ransdall Model
115 M.P.H.

Project #: 047-20010 Designed By:JPS

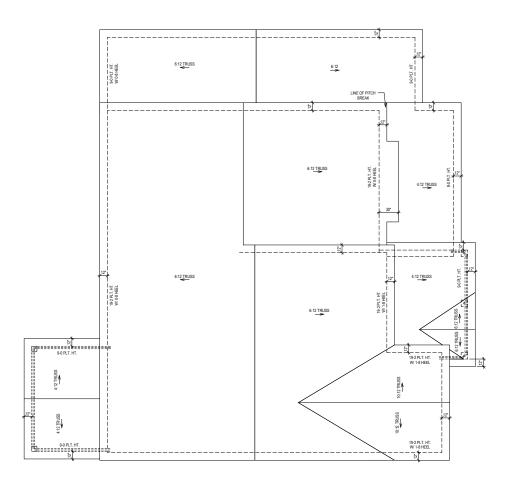
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ROOF FRAMING PLAN



ROOF PLAN

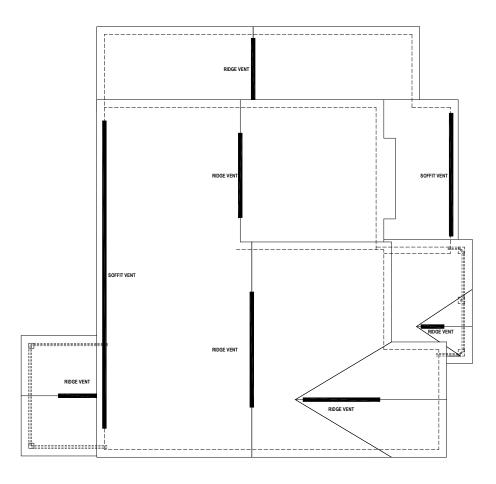
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| David Weekley Homes | CNIAFISG | Scale:1/8"=1-0" | Date: 10/02/2020 | Rev: 12/16/21 EB

3277 Lot: 61 Job No.: Block: 0061 Sect:

SERENITY 65'
34 SERENDIPITY DR
FUQUAY-VARINA, NC

NORTH
B330-A
RFP-1
RANSDALL
RALEIGH



ATTIC VENT CALCULATIONS

ROOF VENT CALCULATION: ATTIC SPACE: 2534 SQ.FT.

REQUIRED VENTILATION: 1216 SQ.IN. REQ.

SOFFIT VENT PROVIDED: 56 LINEAL FEET RIDGE VENT PROVIDED: 52 LINEAL FEET AIR HAWK VENT PROVIDED: 0 UNITS

PROVIDED VENTILATION: 1216 SQ.IN.

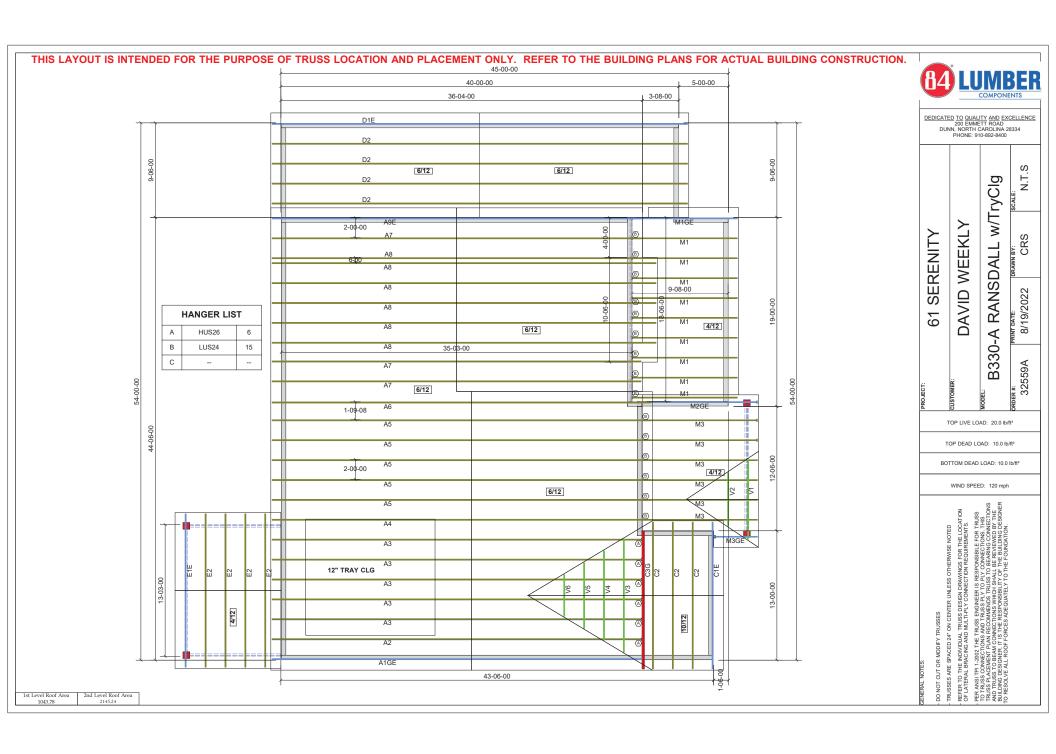
50-80% IN UPPER PORTION: 77%

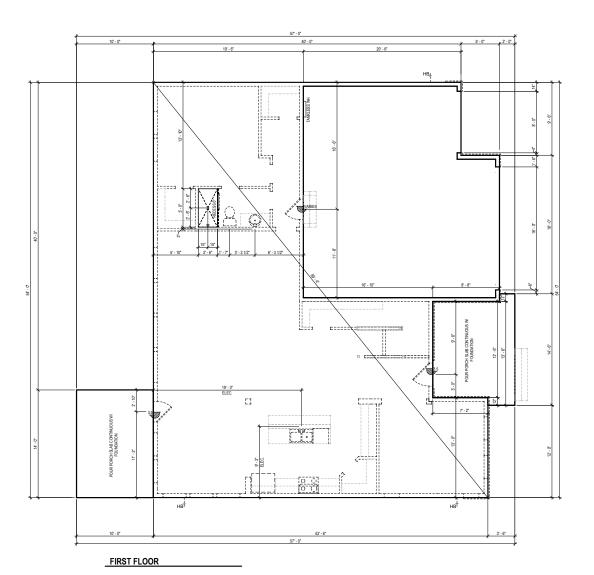
David Weekley Homes CN/AF/SG Date:

6 ۲ö Proj. No.: 3277 Job No.: 0061

SERENITY 65'
34 SERENDIPITY DR
FUQUAY-VARINA, NC

B330-A RANSDALL RALEIGH





SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

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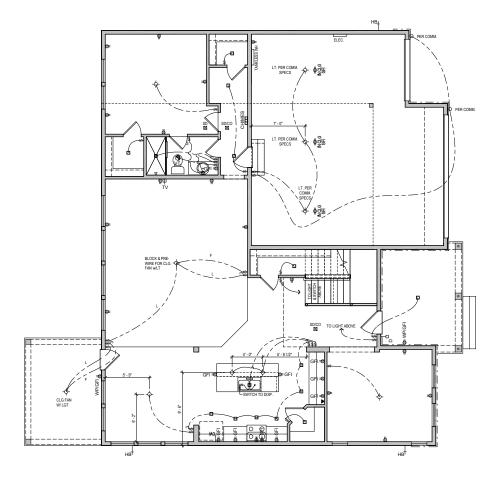
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 Date: 10/02/2020
 Rev. 12/16/21 EB

3277 Lot: 61 Job No.: Block: 0061 Sect:

SERENITY 65' 34 SERENDIPITY DR FUQUAY-VARINA, NC

NORTH B330-A FS-1 RANSDALL RALEIGH



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



UTILITY LEGEND tilov outlet
12' AFF. (U.N.O.)

GFI GROUND FAULT INTERRUPTOR
(WEATHER PROOF AS NOTED) ELEVATOR CALL BUTTON RECESS CAN LIGHT (EYEBALL AS NOTED) VT EXHAUST VENT 1/2 HALF HOT OUTLET SD SMOKE DETECTOR (CARBON MONOXIDE AS D NOTED)

DOOR BELL ▼ PHONE LINE CHIMES DOOR BELL CHIMES
ELEC PANELBOARD W/ CIRCUIT
HB. BREAKERS HOSE BIB CABLE TELEVISION \$ STANDARD SWITCH (3 OR 4 WAY AS NOTED) - SURFACE MOUNTED LIGHT GAS GAS TAP SURFACE MOUNTED LED DISC LIGHT CW_HW COLD/HOT WATER SUPPLY Q WALL MOUNTED LIGHT

> IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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)

 ${\bf 4.}\,$ 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.

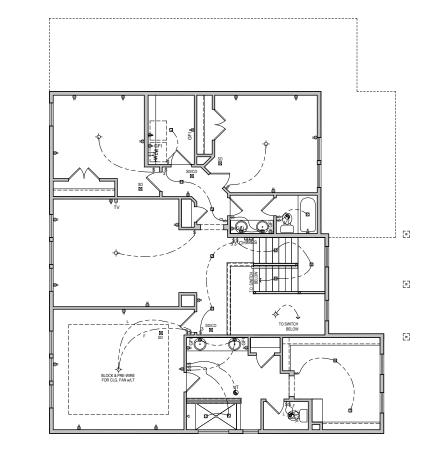
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61 Fot: Proj. No.: 3277 Job No.: 0061

SERENITY 65' 34 SERENDIPITY DR FUQUAY-VARINA, NC

NORTH **B330-A** ELE-1 RANSDALL RALEIGH



SECOND FLOOR

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SERENITY 65' 34 SERENDIPITY DR FUQUAY-VARINA, NC

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.

UTILITY LEGEND

RECESS CAN LIGHT (EYEBALL AS NOTED)

SD SMOKE DETECTOR
(CARBON MONOXIDE AS NOTED)
DOOR BELL

VT EXHAUST VENT

CHIMES DOOR BELL CHIMES
ELEC. PANELBOARD W/ CIRCUIT
HB. BREAKERS
HOSE BIB

GAS GAS TAP

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

> IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN

RATED

CW_HW COLD/HOT WATER SUPPLY

110V OUTLET
 12" A.F.F. (U.N.O.)

GFI GROUND FAULT INTERRUPTOR
 (WEATHER PROOF AS NOTED)

HALF HOT OUTLET

CABLE TELEVISION

\$ STANDARD SWITCH
(3 OR 4 WAY AS NOTED)

-C- SURFACE MOUNTED LED DISC LIGHT

Q WALL MOUNTED LIGHT

 DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)

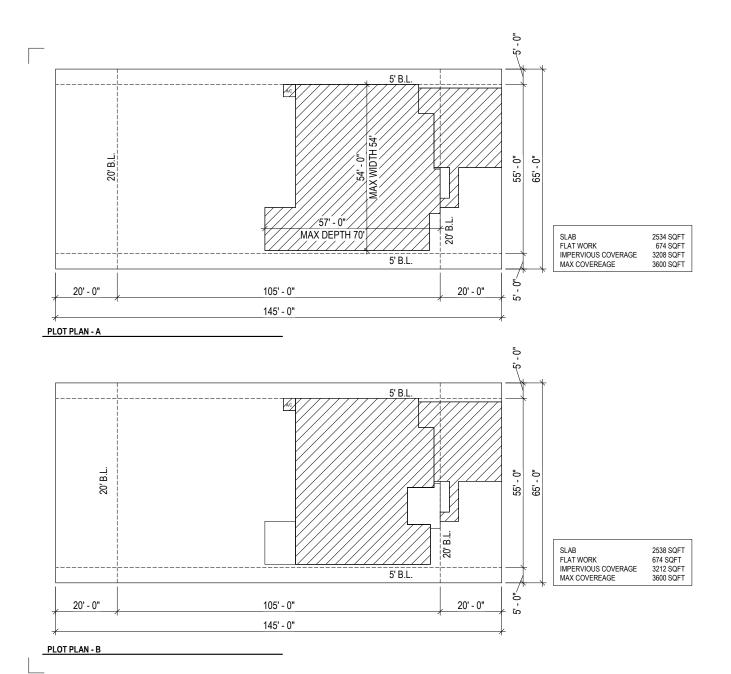
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 ${\bf 4.}\,$ PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.

5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.



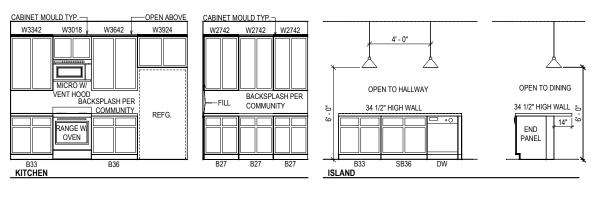


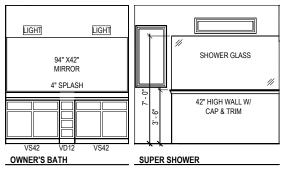
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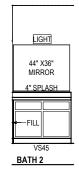
3277 Lot: 61 Job No.: Block: 0061 Sect:

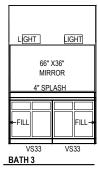
SERENITY 65'
34 SERENDIPITY DR
FUQUAY-VARINA, NC

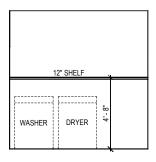
NORTH
B330-A
PLT-1
RANSDALL
RALEIGH



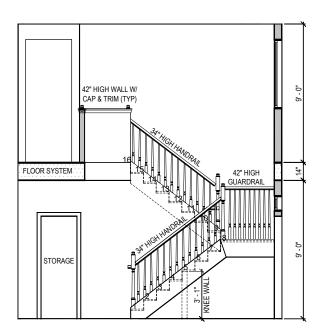








UTIL



STAIR SECTION

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Proj. No.:	3277	Job No.:	5
SERENITY 65'	34 SERENDIPITY DR	FUQUAY-VARINA, NC	

B330-A INT-1

> RANSDALL RALEIGH

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







Re-Issue:

Issue Date: 6/13/22

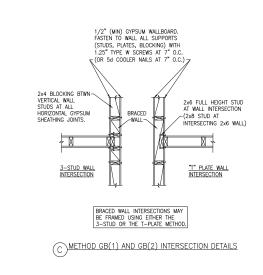
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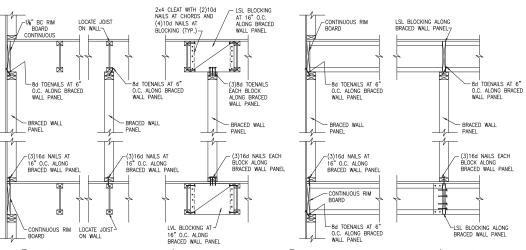
Project #: 047-20010 Designed By: JPS Checked By:











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

- 8D NAIL @ 6" O.C. AT ALL EDGES AND

12" O.C. TYPICAL AT ALL OTHER

MEMBERS

~16D NAIL

OUTSIDE CORNER PLAN VIEW

@ 12" O.C.

-GYPSUM BOARD

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

" MAX. 3

SOLID BLOCKING BETWEEN ROOF TRUSSES ATTACHED TO TOP PLATES WITH 8d NAILS 6" O.C. ALONG LENGTH OF BRACED WALL PANELS.

2x BLOCKING BETWEEN -TRUSSES ALONG LENGTH OF BRACED WALL PANELS. LAP MIN 2" WITH OSB. -2x4 BLOCKING BETWEEN ROOF TRUSSES ATTACHED TO TOP PLATES WITH 8d NAILS NAIL OSB SHEATHING TO-BLOCKING, WALL PLATES AND TRUSS WEB WITH 8d NAILS AT 6" O.C. TYPICAL. @ 6" O.C. ALONG LENGTH OF BRACED WALL PANELS.

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

HEEL HEIGHT GREATER 15"

D TYPICAL EXTERIOR CORNER WALL FRAMING

EXTERIOR SHEATHING

GYPSUM BOARD

16D NAIL

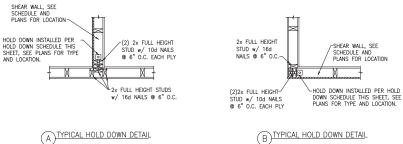
@ 12" 0.0 EXTERIOR SHEATHING-

INSIDE CORNER PLAN VIEW

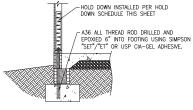
NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED
THROUGH THE USE OF WOOD BACKUP CLEATS, METAL
DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.

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

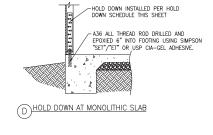
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

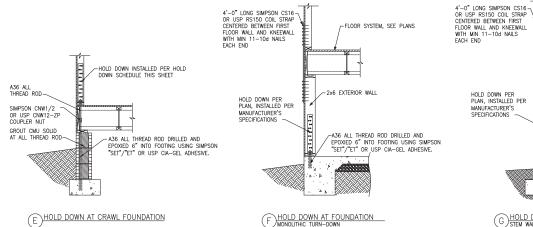


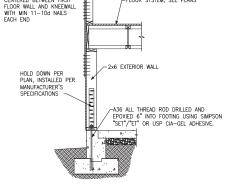
B TYPICAL HOLD DOWN DETAIL











FLOOR SYSTEM, SEE PLANS

G HOLD DOWN AT FOUNDATION STEM WALL

HOLD DOWN SCHEDULE					
HOLD DOWN SIMPSON USP		ALL TREAD ROD	FASTENERS		
LTTP2	LTS20B	⅓" DIA.	(10)10d NAILS		
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS		
HTT5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS		

Carolina

North

Detail

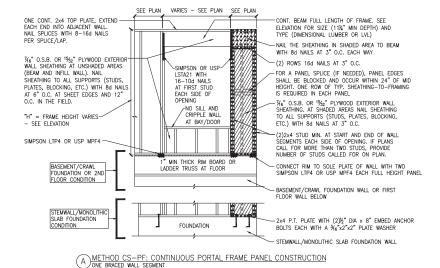
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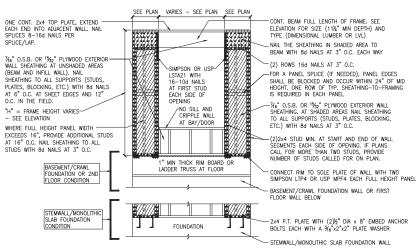
Notes

Wall

Issue Date: 6/13/22 Re-Issue:

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



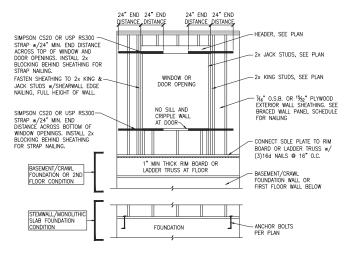


B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION TWO BRACED WALL SEGMENTS

	BRACED WALI	_ 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. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORT
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. <u>ENGINEERED ALTERNATIVE</u> : 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:

- ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 1/46" O.S.B., OR 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.
- 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

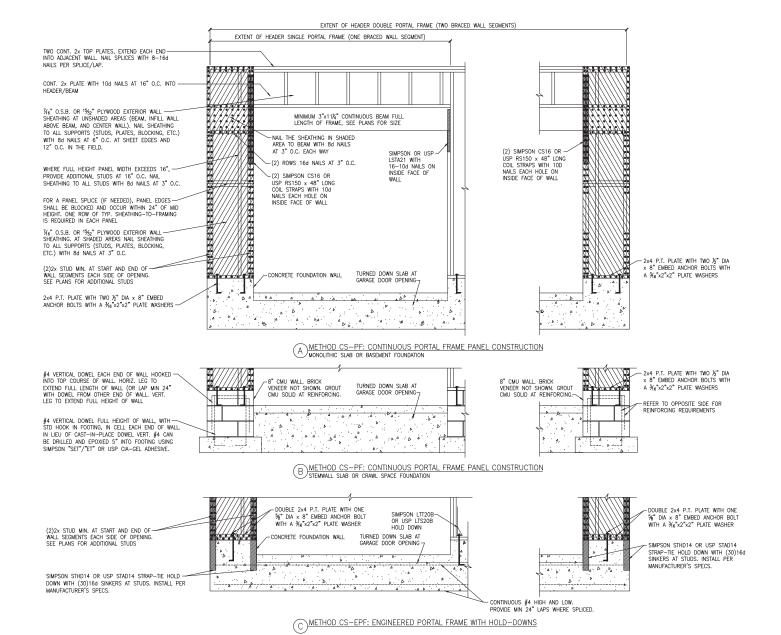


JEERING

KRENTOWN, PA 18951
(215) 804-4449

ENGINE

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Model Details 61 ity, Lot #6 Ransdall I Frame 工 Serenity, B330 Rar Ф. Raleigh, \leq Portal 115 Project #: 047-20010 Designed By: JPS

Carolina

North

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

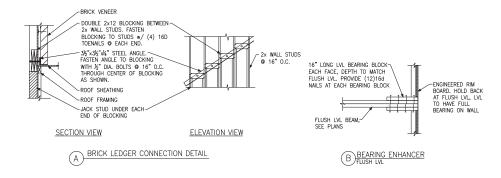
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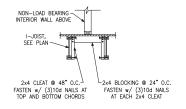
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KSE

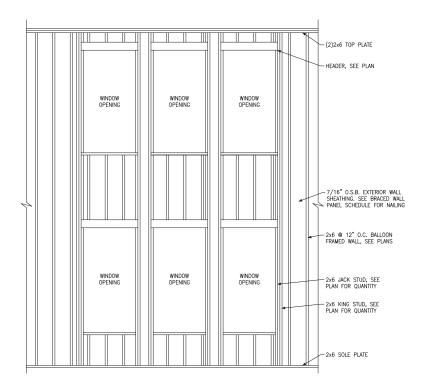
ENGINEERING
E, SUITE 201, QUAKERTOWN, PA 18951
com (215) 804-4449

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





C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.

	WALL	STUD SIZE, I	HEIGHT & SPA	ACING SCHEDU	JLE	
	BEARING WALLS			NONBEARING WALLS		
STUD SIZE	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"



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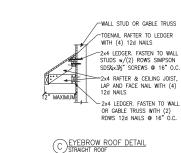
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Designed By: JPS Checked By: Issue Date: 6/13/22 Re-Issue:

Project #: 047-20010

115

#61 Miscellaneous Fr Serenity, Lot #6 B330 Ransdall M



LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH SIMPSON H3 OR USP RT3A

-2x4 LEDGER. FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS¼x3½" OR USP WS35 SCREWS @ 16" O.C.

-WALL STUD OR GABLE TRUSS

-2x4 RAFTER & CEILING JOIST, LAP WITH VERTICAL

-FASTEN VERTICAL TO RAFTER &

CLG. JOIST w/(4) 12d NAILS.

WALL STUDS WITH (2) ROWS

-2x4 LEDGER, FASTEN TO

12d NAILS @ 16" Ò.Ć.

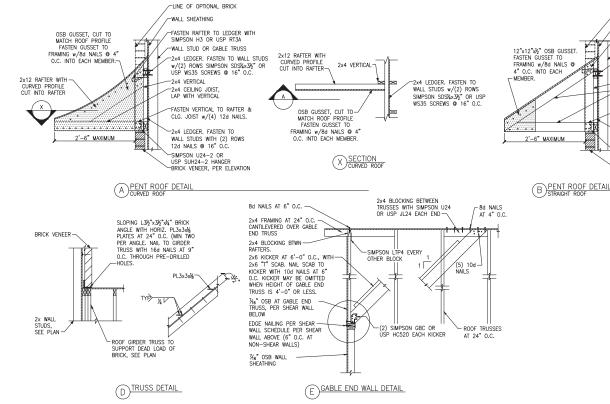
SUH24-2 HANGER

SIMPSON U24-2 OR USP

BRICK VENEER, PER ELEVATION

-WALL SHEATHING

-2x4 VERTICAL



Detail

Framing

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S

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

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

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

4" GRAVEL FILL

CLASSIFIED SOIL

COMPACTED FILL

-MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

OR GROUP 1

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

LIVING SPACE

H)THICKENED SLAB

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 MORE THAN 2 SQUARE FEET OF WALL AREA

CONCRETE SLAB, SEE PLAN

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

STEP VARIES

9444

24" MAX

GARAGE SPACE





Details

Project #: 047-20010 Issue Date: 6/13/22

Re-Issue:

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

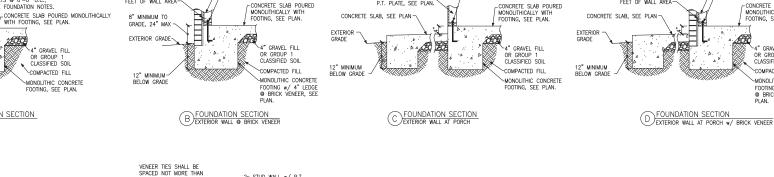
Designed By: JPS

2

Raleigh,

North





RECESS @ GARAGE DOOR

CONCRETE SLAB, SEE PLAN

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

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

CONCRETE SLAB POURED

4" GRAVEL FILL

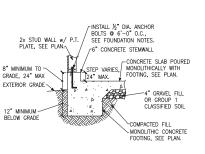
OR GROUP 1 CLASSIFIED SOIL

COMPACTED FILL

-MONOLITHIC CONCRETE FOOTING

MONOLITHICALLY WITH FOOTING, SEE PLAN.

G GARAGE DOOR SECTION



A FOUNDATION SECTION EXTERIOR WALL

rINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C.,

SEE FOUNDATION NOTES.

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

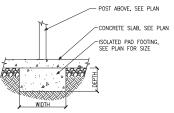
8" MINIMUM TO

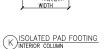
GRADE, 24" MAX

12" MINIMUM~ BELOW GRADE

EXTERIOR GRADE \







VENEER TIES SHALL BE SPACED NOT MORE THAN 24" O.C. HORIZONTALLY

AND VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2 SQUARE

FEET OF WALL AREA

24" O.C. HORIZONTALLY AND VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL AREA

8" MINIMUM TO

GRADE, 24" MAX

EXTERIOR GRADE

12" MINIMUM

BELOW GRADE

8" MINIMUM TO

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

rINSTALL ½" DIA. ANCHOR BOLTS ❷ 6'-0" O.C.,

SEE FOUNDATION NOTES.

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

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

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

STEP VARIES.

]24" MAX.

FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

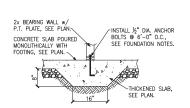
4" GRAVEL FILL

OR GROUP 1 CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE



THICKENED SLAB SECTION (J)INTERIOR BEARING WALL

ENGINEERING

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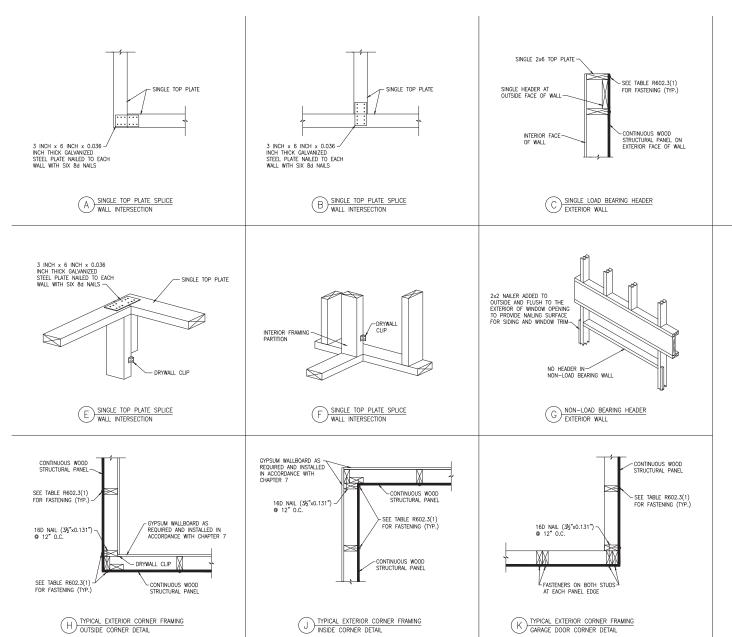
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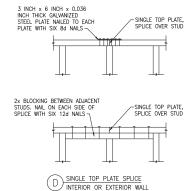
S

Carolina









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 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 Project #: 047-20010 Designed By: JPS

Notes

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Details

Framing