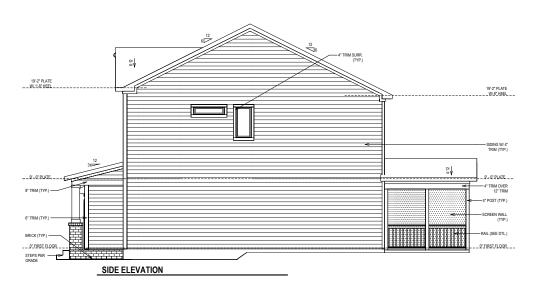


25 V 19-2" PLATE \_W/J'-8" HEEL \_\_\_\_ 19-2" PLATE \_\_\_\_ W/8" HEEL SIDING W/ 4\* TRIM (TYP.) \_\_ 9'-0' PUATE\_ 4" TRIM OVER 12" TRIM SCREEN WALL (TYP.) SIDE ELEVATION

RAIL DETAIL 'B'
SCALE: 1" = 1'-0"



David Weekley Homes CN/AF/AA Date: 09/29/2020 139 Block: Lot: Proj. No.: 3277 Job No.: 0139

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Scale:1/8"=1'-0" Rev: 4/18/2023 EB

SERENITY 65' (IM) 593 SERENITY WALK PARKWAY FUQUAY VARINA, NC

B327-B ELV-2 BALLENTINE RALEIGH

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NOT USED SD-11

ADVANCED FRAMING DETAILS & NOTES



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

# **B327 BALLENTINE**

SERENITY, LOT #139

# 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 RECOMMENDAL LELECTIONS, AND PLOMORISERS, SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY IS ESPONDALLY DESCRIPTION OF THE ENGINEER LISTED ON 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 AND COLUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE TO RANT PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE COMMENCE THIS OF CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN TEST 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.

\*ROOF = 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>4</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>8</sub>=750 PSI

\* PSI: E=2,100,000 PSI, F<sub>8</sub>=2,900 PSI, F<sub>9</sub>=290 PSI, F<sub>6</sub>=625 PSI

ENGINEERING E, SUITE 201, QUAKERTOWN, PA 18951

David Weekley Homes

Cover Sheet Serenity, Lot #139 B327 Ballentine Model 115 M.P.H. Raleigh, North Carolina

Project #: 047-20007 Designed By:JPS Checked By:

Issue Date: 5/7/24 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 STOLEMENT. 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 CONTRACTOR'S FAULUE TO CONFORM TO THE CONTRACTOR'S FAULUE TO THE TOR THE CONTRACTOR'S FAULUE TO THE TOR THE CONTRACTOR'S FAULUE TO THE TOR THE TOR THE TOR THE TOR THE TOR THE TOR THE 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
  STBUCTURAL DESIGN OF THIS PROJECT, VERRICATION OF THE SHOP
  STBUCTURAL DESIGN OF THIS PROJECT, VERRICATION OF THE SHOP
  DRAWINGS OF OWERALL COMPULANCE AS IT RELATES TO THE
  STBUCTURAL 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 ITEM 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 10. WHERE REINFORCING DOWELS ARE REQUIRED, HEET SHALL SEED OF THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS 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 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<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 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 BRUZES TO PROVIDE AT BUSH CONTINUOUS SILEPINE PROVIDE LINE. SO, UNIQUAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIGGONAL 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 CONTINGATION 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 F70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS.

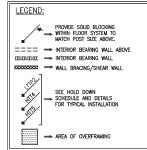
  ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 38" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 1/2" x 4" LAG SCREWS
- UNLESS OTHERWISE NOTED.

  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 SCHEDULE				
SPAN	LINTEL SIZE	END BEARING		
UP TO 3'-0"	3½"×3½"×¼"	4"		
UP TO 6'-3"	5"x3½"x516" 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.				



ERING TOWN, PA 18951 (215) 804-4449 Ш NUBN S

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Weekl

David 7

Mode #139 /, Lot #1. Ballentine .H. North

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Structural

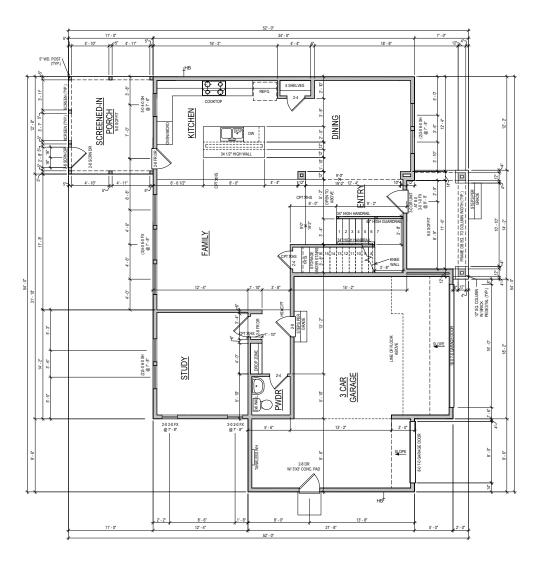
Carolina

gh,

Ralei

| Serenity, | B327 Bal | 115 M.P. General Project #: 047-20007 Designed By: JPS Checked By:

Issue Date: 5/7/24 Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



FIRST FLOOR

Week lay Homes L.P.
The measuments, dimension, and other gs.
The down on this Societies for conway. This december defined for this way.
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ADVANCED FRAMING: 2X6 EXTERIOR
PERIMETER WALLS & ALL INSULATED
WALLS UNLESS NOTED OTHERWISE

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

David Weekley Homes Scale:1/8"=1'-0" Rev: 4/18/2023 EB CN/AF/AA Date: 09/29/2020

139 Block: Fot: Proj. No.: 3277 Job No.: 0139

SERENITY 65' (IM) 593 SERENITY WALK PARKWAY FUQUAY VARINA, NC

SOUTH B327-B

PLN-1

BALLENTINE

RALEIGH

# PLAN SQFT

SLAB	
1ST FLOOR	1
FRONT PORCH	
GARAGE	
SCREENED PORCH	
TOTAL SLAB	

**GENERAL REQUIREMENTS** 

GARAGE FLOOR TO BE SLOPED 1/8" PER FOOT TOWARDS VEHICLE ENTRY DOOR

FINISHED HANDRAIL HEIGHT BETWEEN 34" AND 36" MEASURED VERTICALLY ABOVE TREAD NO SING

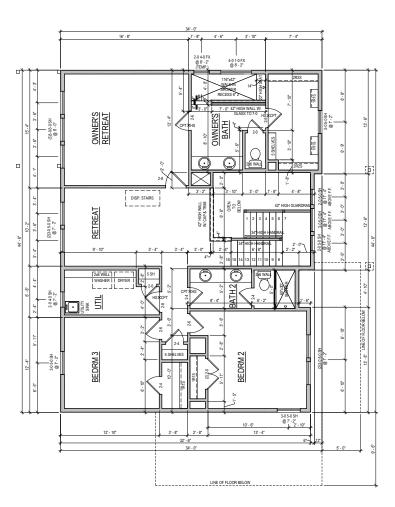
FINISHED GUARDRAILS REQUIRED AT DECKS, BALCONIES AND WALKWAYS THAT ARE 30° OR GREATER ABOVE GRADE AND BE AT A MINIMUM OF 36° IN HEIGHT

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

2ND FLOOR         1313 SI           FRONT PORCH         104 SF           GARAGE         594 SF		
1ST FLOOR	1211 S	
2ND FLOOR	1313 S	
FRONT PORCH	104 SF	
GARAGE	594 SF	
SCREENED PORCH	139 SF	
TOTAL ERAMING	3361 S	

ST FLOOR	1211 SF
ND FLOOR	1387 SF
OTAL LIVING	2598 SF
LAB	
ST FLOOR	1211 SF
RONT PORCH	104 SF
ARAGE	594 SF
CREENED PORCH	139 SF
OTAL SLAB	2048 SF
RAMING	
ST FLOOR	1211 SF
ND FLOOR	1313 SF
DON'T DODOH	104 SE





SECOND FLOOR

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 139

Week key Homes LP. 202.
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CN/AF/AA Date: 09/29/2020

Block: Lot: Proj. No.: 3277 Job No.: 0139

SERENITY 65' (IM) 593 SERENITY WALK PARKWAY FUQUAY VARINA, NC

B327-B PLN-2

BALLENTINE RALEIGH

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KSE

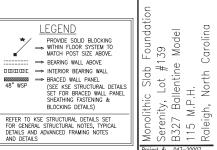




REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS

48" WSP





MONOLITHIC SLAB FOUNDATION PLAN

52'-0" 34'-0"

SLAB ON GRADE

4" THICK CONCRETE SLAB w/ FIBERMESH PER MANUFACTURER OR

6x6 W1.4xW1.4 WELDED

WIRE MESH ON 6 MIL VAPOR BARRIER ON 95% COMPACTED FILL.

8" DEEP x 16" WIDE THICKENED

\_SLAB (TYP.)

11'-10"

16" WIDE x 20"

FOOTING (TYP.)

12'-4'

DEEP MONOLITHIC CONCRETE 24"x24"x12" DEEP CONCRETE FOOTING

65. Q2

4" THICK CONCRETE SLAB w/ FIBERMESH PER MANUFACTURER OR

WIRE MESH ON 95%

COMPACTED FILL.

7'-0" 5'-4"

BRICK

7-4<sub>1'-0"</sub>

6'-0"

TURNDOWN

1 67.

5'-0"

TURNDOWN SLAB @ OPENING—

VENEER)

12'-2"

2/2"-

16" WIDE x 20" DEEP MONOLITHIC CONCRETE FOOTING (TYP.)

THICK CONCRETE-

SLAB w/ FIBERMESH PER MANUFACTURER OR 6x6 W1.4xW1.4 WELDED WIRE MESH ON 95% COMPACTED FILL. 10'-2" 30"x30"x20"

DEEP MONOLITHIC CONCRETE 2'-134": FOOTING

GARAGE SLAB

4" THICK CONCRETE SLAB W/
FIBERMESH PER MANUFACTURER
OR 6x6 W1.4WH.4 WELDED
WIRE MESH ON 6 MIL VAPOR
BARRIER ON 95% COMPACTED
FILL. SDEP 1/8" PER 1'-0"
TOWARDS DOOR.

12'-93/4"

16" WIDE x 20" DEEP MONOLITHIC CONCRETE FOOTING. PROVIDE 6" STEM @ GARAGE.7

24"x24"x12" DEEP CONCRETE FOOTING

13'-8"

14'-8"

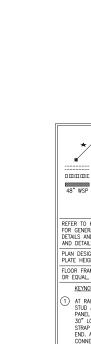
Project #: 047-20007

Designed By: JPS

Checked By: Issue Date: 5/7/24



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

**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 &

PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT

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

#### KEYNOTES:

48" WSP

 AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS20 COIL STRAP WITH MIN 8-10d NAILS EACH END. AT SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION w/ SIMPSON DTT1Z w/ SIMPSON %"x6" TITEN HD SCREW ANCHOR AND 3½" MINIMUM EMBEDMENT.

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

Second Floor Framing Serenity, Lot #139 B327 Ballentine Model 115 M.P.H.

Carolina

Plan

115 M.P.H. Raleigh, North ( Project #: 047-20007 Designed By: JPS Checked By: Issue Date: 5/7/24

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

48" WSP (2)216

CS-ESW(1) DESIGNED TO REPLACE 80" OF CS-WSP. STRAP AROUND OPENINGS PER DETAIL C/SD-3

2x6 @ 12" 0.C LOON FRAMED V

ROOF TRUSSE

9 24" O.C.

ROOF GIRDER

Z

( E. !

48" WSP

-EXTEND FLUSH LVL TO FACE OF EXTERIOR WALL ABOVE

-SIMPSON

HGUS5.50/14

ROOF TRUSSES

@ 24" O.C.

2x4 LEDGER w/ (2) ROWS 12d NAILS @ 16" O.C.

HANGERS PER

TRUSS SUPPLIER (TYP.)

LINE OF SLOPED

CEILING

LOW ROOF TRUSSES

DESIGNED TO FORM
FLOOR ABOVE

-IINF OF

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

48" WSP

DINING

+

3 CAR GARAGE

(3)1¾"x14" LVL FLUSH

LINE OF SLOPED-CEILING

TAIL BEARING ROOF TRUSSES @ 24" O.C

JOIST ENTRY

E.

48" WSP

HANGER BY JOIST SUPPLIER (TYP.)

[==]

PWDR

48" WSP

STRUCTURAL COLUMN BY OTHERS WITH MIN. 3,000 LB. CAPACITY. INSTALL
PER MANUFACTURER'S

INSTRUCTIONS.

SIMPSON

HUC210-2 (TYP.)-

(3)2×10 (3)2

SCREENED-IN DO

PORCH

(3)2x10

(3)2x10

(3)2×10

32"

48" WSP

CS-WSP

48" WSP

RIM BOARD

KITCHEN

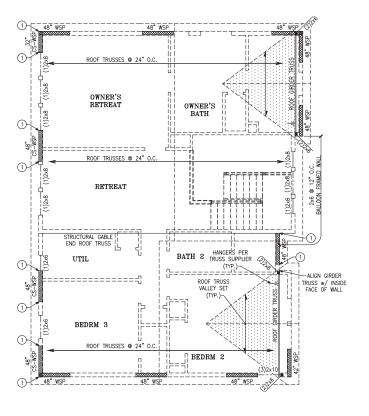
FAMILY

STUDY

64" WSP RIM BOARD

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

KSE





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

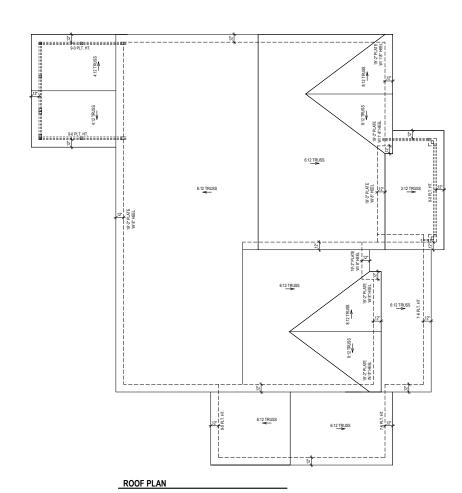
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Roof Framing Plan
Serenity, Lot #139
B327 Ballentine Model
115 M.P.H.
Raleigh, North Carolina Project #: 047-20007 Designed By: JPS

Checked By: Issue Date: 5/7/24





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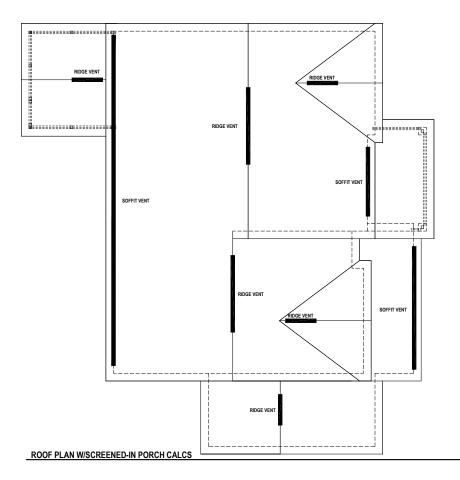
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| CNIAFIAA | Scale:1/8"=1".0" | Date: 09/29/2020 | Rev: 4/18/2023 EB

3277 Lot: 139
Job No.: Block:
0139 Sect:

SERENITY 65' (IM) 593 SERENITY WALK PARKWAY FUQUAY VARINA, NC

SOUTH
B327-B
RFP-1
BALLENTINE
RALEIGH



ROOF VENT CALCULATION:

ATTIC SPACE: 2052 SQ.FT.

REQUIRED VENTILATION: 985 SQ.IN. REQ.

SOFFIT VENT PROVIDED: 68 LINEAL FEET RIDGE VENT PROVIDED: 36 LINEAL FEET AIR HAWK VENT PROVIDED: 0 UNITS

PROVIDED VENTILATION: 988 SQ.IN.

50-80% IN UPPER PORTION: 66%

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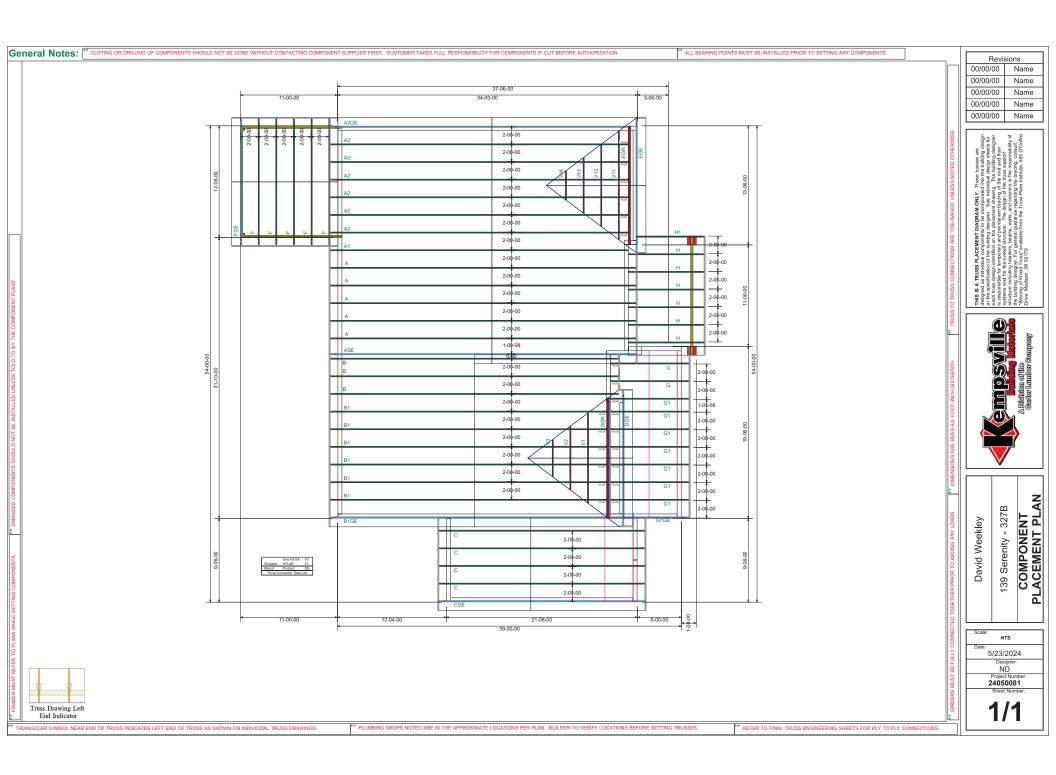
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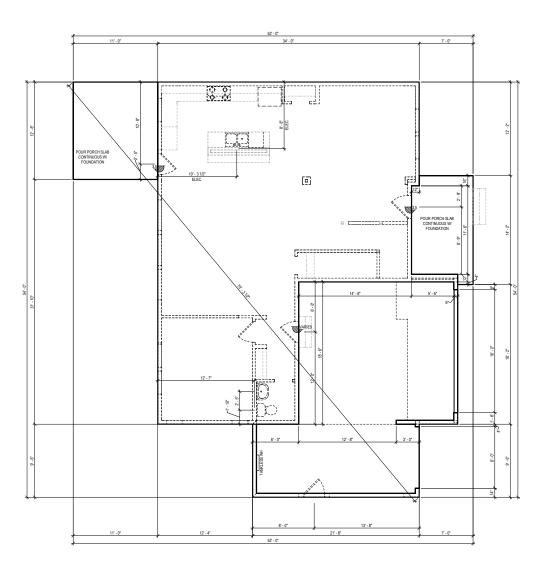
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WAY 3277 Job No.: 0139

SERENITY 65' (IM) 593 SERENITY WALK PARKWAY FUQUAY VARINA, NC

SOUTH
B327-B
RFP-2
BALLENTINE
RALEIGH





FIRST FLOOR

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

SERENITY 65' (IM)
593 SERENITY WALK PARKWAY
FUQUAY VARINA, NC
JOB NO.:
0139

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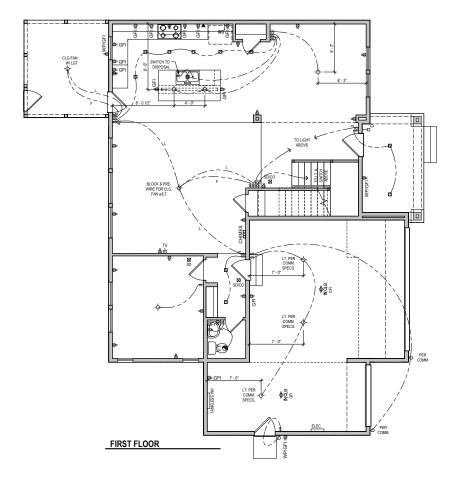
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Lot: 139 Block:

Scale:1/8"=1'-0" Rev: 4/18/2023 EB

CN/AF/AA Date: 09/29/2020

SOUTH
B327-B
FS-1
BALLENTINE
RALEIGH



## UTILITY LEGEND

GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)

HALF HOT OUTLET

220V OUTLET
 (36" A.F.F. @ UTILITY)

PHONE LINE

T d CABLE TELEVISION

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

- SURFACE MOUNTED LIGHT

- SURFACE MOUNTED LED DISC LIGHT

WALL MOUNTED
 LIGHT
 RECESS CAN LIGHT
 (EYEBALL AS NOTED)

VT
 EXHAUST VENT

SD SMOKE DETECTOR

(CARBON MONOXIDE AS
D NOTED)
DOOR BELL

CHIMES DOOR BELL
CHIMES
PANEL BOARD W/
CIRCUIT
HB. BREAKERS
HOSE BIB

GAS GAS TAP

CW HW COLD/HOT WATER SUPPLY

ELEVATOR CALL BUTTON

## 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

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

CITY SPECIFIC VT/LT RECESSED CAN/ EXHAUST VENT COMBO

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

> SOUTH **B327-B** ELE-1 BALLENTINE RALEIGH

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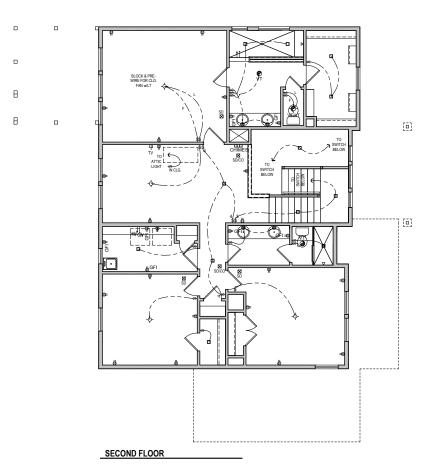
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David Weekley Homes Scale:1/8"=1'-0" Rev: 4/18/2023 EB CN/AF/AA Date: 09/29/2020

139 Block: Lot:

Proj. No.: 3277 Job No.: 0139

SERENITY 65' (IM) 593 SERENITY WALK PARKWAY FUQUAY VARINA, NC





GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)

HALF HOT OUTLET

220V OUTLET (36" A.F.F. @ UTILITY)

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- SURFACE MOUNTED LIGHT

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LIGHT
RECESS CAN LIGHT
(EYEBALL AS NOTED)

RECESS CAN LIGH
(EYEBALL AS NOT

VT

EXHAUST VENT

SD SMOKE DETECTOR (CARBON MONOXIDE AS DOOR BELL

CHIMES DOOR BELL
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PANELBOARD V
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5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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



Weekley Homes LP. 2020
The meanments, dirention, and other specifications
on the result predictions of the finished section of the section of the finished section.

David Weekley Homes Scale:1/8"=1'-0" Rev: 4/18/2023 EB CN/AF/AA Date: 09/29/2020

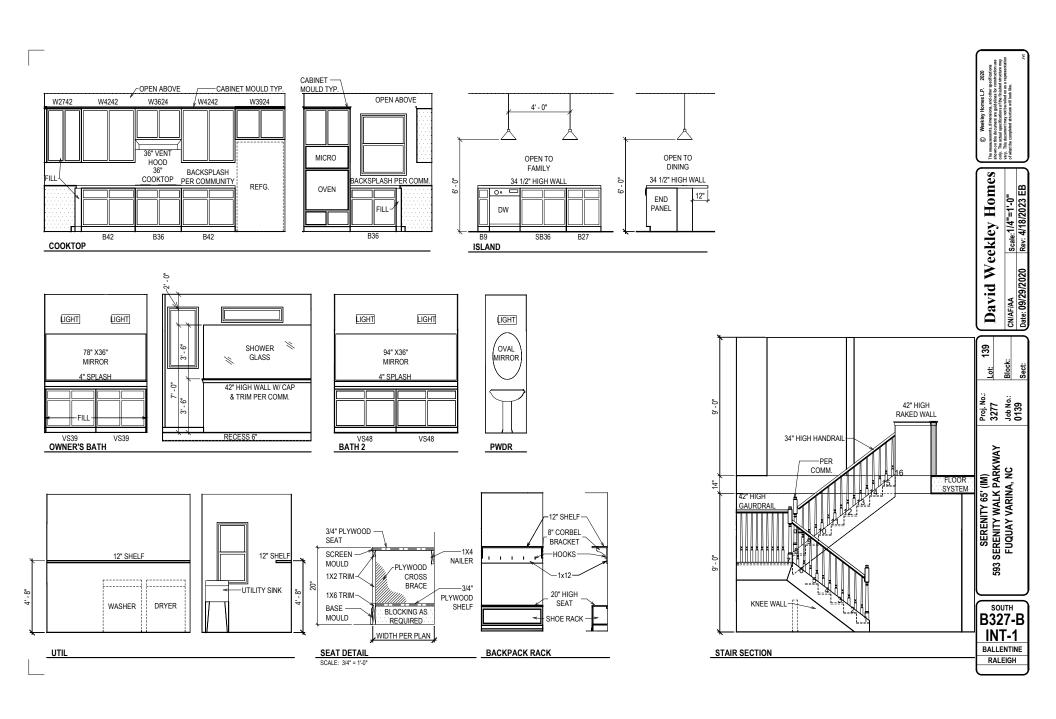
139 Block: Lot:

Proj. No.: 3277 Job No.: 0139

SERENITY 65' (IM) 593 SERENITY WALK PARKWAY FUQUAY VARINA, NC

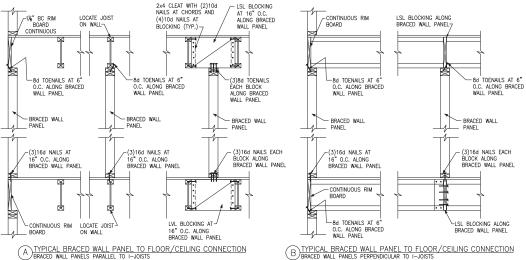
SOUTH **B327-B** ELE-2 BALLENTINE

RALEIGH



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





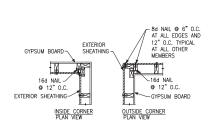
B TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PERPENDICULAR TO I-JOISTS

1/2" (MIN) GYPSUM WALLBOARD. FASTEN TO WALL ALL SUPPORTS (STUDS, PLATES, BLOCKING) WITH 1.25" TYPE W SCREWS AT 7" O.C.

(OR 5d COOLER NAILS AT 7" O.C.) 2x4 BLOCKING BTWN VERTICAL WALL STUDS AT ALL HORIZONTAL GYPSUM 2x6 FULL HEIGHT STUD AT WALL INTERSECTION -(2x8 STUD AT BRACED SHEATHING JOINTS. INTERSECTING 2x6 WALL) 3-STUD WALL "T" PLATE WALL INTERSECTION INTERSECTION

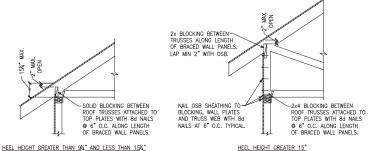
> BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD

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



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.



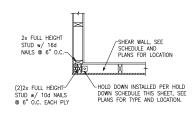
E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS ONLY REQUIRED AT BRACED WALL PANELS



Designed By: JPS Checked By: Issue Date: 5/7/24

Re-Issue:

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



SHEAR WALL, SEE SCHEDULE AND PLANS FOR LOCATION -

HOLD DOWN INSTALLED PERHOLD DOWN SCHEDULE THIS SHEET, SEE PLANS FOR TYPE

A36 ALL THREAD ROD-

SIMPSON CNW1/2 -OR USP CNW12-ZP COUPLER NUT

GROUT CMU SOLID AT ALL THREAD ROD-

AND LOCATION.

(2) 2x FULL HEIGHT

STUD w/ 10d NAILS

@ 6" O.C. EACH PLY

2x FULL HEIGHT STUDS

A TYPICAL HOLD DOWN DETAIL

E HOLD DOWN AT CRAWL FOUNDATION

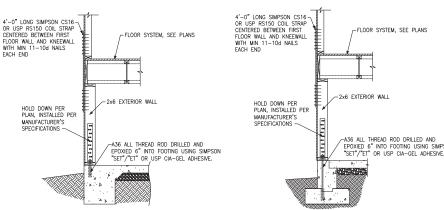
w/ 16d NAILS @ 6" O.C.

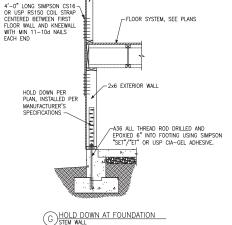
-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

- A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.

# B TYPICAL HOLD DOWN DETAIL

F HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN





	NTO FOOTING USING SIMPSON R USP CIA-GEL ADHESIVE.
C HOLD DOWN AT STEMWALL S	SLAB
4'-0" LONG SIMPSON CS16 - OR USP RS150 COIL STRAP CENTERED BETWEEN FIRST	_FLOOR SYSTEM, SEE PLANS

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

\_ A36 ALL THREAD ROD DRILLED AND

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

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

(D)HOLD DOWN AT MONOLITHIC SLAB

- A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.

SEAT SEAT SEAT SEAT SEAT SEAT SEAT SEAT
GINELE GINELE MOSAY RELIGIO

Details

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Notes #139 Carolina

SEE PLAN VARIES - SEE PLAN SEE PLAN ONE CONT. 2x TOP PLATE, EXTEND CONT. BEAM FULL LENGTH OF FRAME. SEE EACH END INTO ADJACENT WALL ELEVATION FOR SIZE (111/4" MIN DEPTH) AND NAIL SPLICES WITH 8-16d NAILS TYPE (DIMENSIONAL LUMBER OR LVL) PER SPLICE/LAP. NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY  $\%_6$ " O.S.B. OR  $^1\%_2$ " PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (2) ROWS 16d NAILS AT 3" O.C. SIMPSON OR LISE FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES
SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID
HEIGHT. ONE ROW OF TYP. SHEATHING-TO-FRAMING (BEAM AND INFILL WALL), NAIL SHEATHING TO ALL SUPPORTS (STUDS, 16-10d NAILS PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" AT FIRST STUD EACH SIDE OF  $\%_6$ " O.S.B. OR  $^{1}\%_2$ " PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, O.C. IN THE FIELD. OPENING ~NO SILL AND CRIPPLE WALL "H" = FRAME HEIGHT VARIES-- SEE ELEVATION AT BAY/DOOR ETC.) WITH 8d NAILS AT 3" O.C. (2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. IF PLANS CALL FOR MORE THAN TWO STUDS, PROVIDE SIMPSON LTP4 OR USP MPF4 NUMBER OF STUDS CALLED FOR ON PLAN. " MIN THICK RIM BOARD OR BASEMENT/CRAWL FOUNDATION OR 2ND CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL LADDER TRUSS AT FLOOR FLOOR CONDITION - BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW STEMWALL /MONOLITHIC  $-2 \times$  P.T. PLATE WITH  $(2) \frac{1}{2}$ " DIA  $\times$  8" EMBED ANCHOR BOLTS EACH WITH A  $\frac{1}{16}$ " $\times$ 2" PLATE WASHER SLAB FOUNDATION CONDITION FOUNDATION STEMWALL/MONOLITHIC SLAB FOUNDATION WALL

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

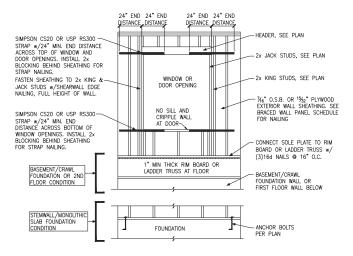
VARIES - SEE PLAN SEE PLAN SEE PLAN - CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (11½" MIN DEPTH) AND ONE CONT. 2x TOP PLATE, EXTEND - EACH END INTO ADJACENT WALL. NAIL SPLICES 8-16d NAILS PER TYPE (DIMENSIONAL LUMBER OR LVL) SPLICE/LAP. NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY  $\%_6$ " O.S.B. OR  $^{15}\!\!\%_2$ " PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (2) ROWS 16d NAILS AT 3" O.C. -SIMPSON OR USP (BEAM AND INFILL WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES LSTA21 WITH 16-10d NAILS AT FIRST STUD SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID HEIGHT. ONE ROW OF TYP. SHEATHING-TO-FRAMING PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" EACH SIDE OF IS REQUIRED IN EACH PANEL O.C. IN THE FIELD. OPENING  $^{-1}$ /<sub>6</sub>" O.S.B. OR  $^{15}$ /<sub>2</sub>" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING NO SILL AND "H" = FRAME HEIGHT VARIES-CRIPPLE WALL - SEE ELEVATION TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, AT BAY/DOOR ETC.) WITH 8d NAILS AT 3" O.C. WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL (2)2x STUD MIN. AT START AND END OF WALI STUDS WITH 8d NAILS AT 3" O.C. CALL FOR MORE THAN TWO STUDS PROVIDE NUMBER OF STUDS CALLED FOR ON PLAN. 1" MIN THICK RIM BOARD OR LADDER TRUSS AT FLOOR BASEMENT/CRAWI CONNECT RIM TO SOLE PLATE OF WALL WITH TWO FOUNDATION OR 2ND SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL FLOOR CONDITION BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW STEMWALL/MONOLITHIC SLAB FOUNDATION -2x p.t. plate with (2)½" dia x 8" embed anchor bolts each with a  $\frac{3}{16}$ "x2"x2" plate washer CONDITION STEMWALL/MONOLITHIC SLAB FOUNDATION WALL

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

BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE						
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS			
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6d or 8d common nails at 6" o.c. at sheet edges and 12" o.c. at intermediate supports. <u>Engineered Alternative</u> : 16 <u>Gage By 1,75" long</u> <u>STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORT</u>			
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 DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORT			
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 DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPOR			
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 TY DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPO			
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 OPENII			
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

KERTOWN, PA 18951
(215) 804-4449

ENGINE

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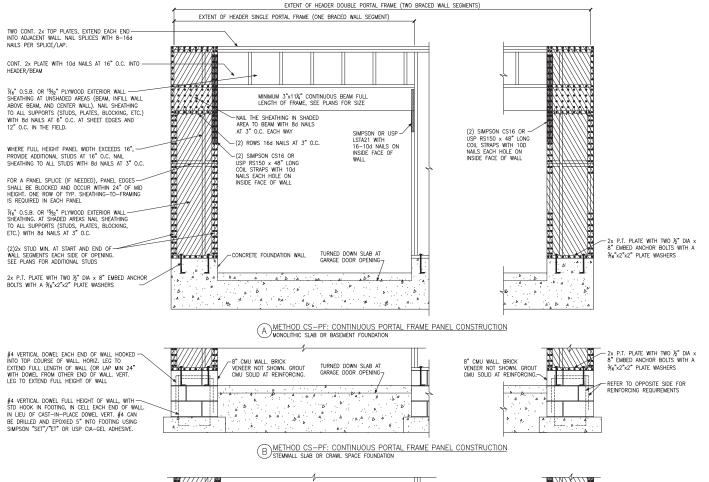












DOUBLE 2x P.T. PLATE WITH ONE % SIMPSON LTTP2 OR USP LTS20B DIA x 8" EMBED ANCHOR BOLT WITH A 3/6"x2"x2" PLATE WASHER HOLD DOWN CONCRETE FOUNDATION WALL TURNED DOWN SLAB AT GARAGE DOOR OPENING -

(2)2x STUD MIN. AT START AND END OF-WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

MANUFACTURER'S SPECS.

SIMPSON STHD14 OR USP STAD14 STRAP-TIE HOLD -

DOWN WITH (30)16d SINKERS AT STUDS. INSTALL PER

CONTINUOUS #4 HIGH AND LOW. PROVIDE MIN 24" LAPS WHERE SPLICED. DOLIRIE 2x P.T. PLATE WITH ONE 54"

DIA x 8" EMBED ANCHOR BOLT WITH

SIMPSON STHD14 OR USP STAD14 STRAP-TIE HOLD DOWN WITH (30)16d SINKERS AT STUDS. INSTALL PER MANUFACTURER'S SPECS.

A 3/6"x2"x2" PLATE WASHER

© METHOD CS-EPF: ENGINEERED PORTAL FRAME WITH HOLD-DOWNS



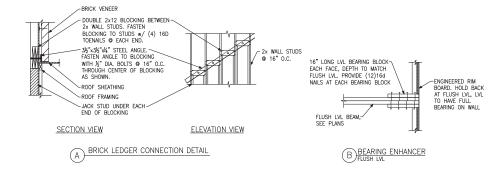


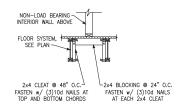




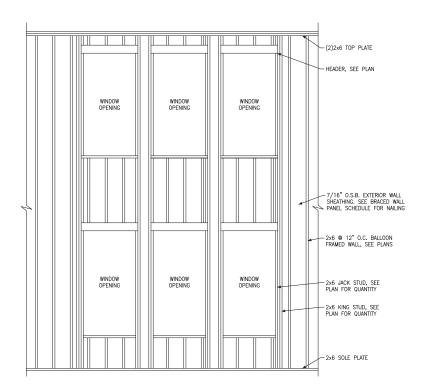
Project #: 047-20007
Designed By: JPS
Checked By:
Issue Date: 5/7/24

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





C LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.

WALL STUD SIZE, HEIGHT & SPACING SCHEDULE						
BEARING WALLS				NONBEARIN	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"

ENGINEERING

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

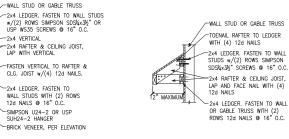
Checked By: Issue Date: 5/7/24 Re-Issue:

Project #: 047-20007 Designed By: JPS

#139 Miscellaneous Fra Serenity, Lot #13 B327 Ballentine N 115 M.P.H.

Detail

Framing



B PENT ROOF DETAIL

8d NAILS AT 6" O.C. SLOPING L3½"x3½"x¾" BRICK ANGLE WITH HORIZ. PL3x,3x½ PLATES AT 24" O.C. (MIN TWO PER ANGLE. NAIL TO GIRDER BRICK VENEER -TRUSS WITH 16d NAILS AT 9" O.C. THROUGH PRE-DRILLED -HOLES. TYP KV 2x WALL STUDS, ROOF GIRDER TRUSS TO SUPPORT DEAD LOAD OF BRICK, SEE PLAN

A PENT ROOF DETAIL

OSB GUSSET, CUT TO MATCH ROOF PROFILE FASTEN GUSSET TO

FRAMING w/8d NAILS @ 4" O.C. INTO EACH MEMBER.

2'-6" MAXIMUM

2x12 RAFTER WITH

CURVED PROFILE CUT INTO RAFTER

2x4 BLOCKING BETWEEN TRUSSES WITH SIMPSON U24 OR USP JL24 EACH END AT 4" O.C. 2x4 FRAMING AT 24" O.C. -CANTILEVERED OVER GABLE END TRUSS 2x4 BLOCKING BTWN RAFTERS. -SIMPSON LTP4 EVERY 2x6 KICKER AT 6'-0" O.C., WITH-2x6 "T" SCAB. NAIL SCAB TO (5) 10d-KICKER WITH 10d NAILS AT 6"
O.C. KICKER MAY BE OMITTED
WHEN HEIGHT OF GABLE END
TRUSS IS 4'-0" OR LESS. NAILS %6" OSB AT GABLE END TRUSS, PER SHEAR WALL BELOW EDGE NAILING PER SHEAR — WALL SCHEDULE PER SHEAR (2) SIMPSON GBC OR ROOF TRUSSES AT 24" O.C. USP HC520 EACH KICKER WALL ABOVE (6" O.C. AT NON-SHEAR WALLS) SIMPSON A35 OR USP MPA1 SPACED PER SHEAR WALL BELOW ENTIRE GABLE END

2x4 VERTICAL

%6" OSB WALL SHEATHING

(E) GABLE END WALL DETAIL

-WALL SHEATHING FASTEN RAFTER TO LEDGER WITH SIMPSON H3 OR USP RT3A

-LINE OF OPTIONAL BRICK

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

-2x4 VERTICAL -2x4 CEILING JOIST, LAP WITH VERTICAL

FASTEN VERTICAL TO RAFTER & CLG. JOIST w/(4) 12d NAILS.

-2x4 LEDGER. FASTEN TO WALL STUDS WITH (2) ROWS 12d NAILS @ 16" O.C. -SIMPSON U24-2 OR USP SUH24-2 HANGER

BRICK VENEER, PER ELEVATION

OSB GUSSET, CUT TO-MATCH ROOF PROFILE FASTEN GUSSET TO FRAMING w/8d NAILS @ 4" O.C. INTO EACH MEMBER. X SECTION CURVED ROOF

2x12 RAFTER WITH

CURVED PROFILE CUT INTO RAFTER

2x4 LEDGER. FASTEN TO

WALL STUDS w/(2) ROWS SIMPSON SDS¼x3½" OR USP WS35 SCREWS ⊕ 16" O.C.

4" O.C. INTO EACH MEMBER.

2'-6" MAXIMUM

12"x12"x½" OSB GUSSET. FASTEN GUSSET TO FRAMING w/8d NAILS @ -2x4 VERTICAL

-2x4 RAFTER & CEILING JOIST, LAP WITH VERTICAL

LINE OF OPTIONAL BRICK

-WALL SHEATHING

-FASTEN VERTICAL TO RAFTER & CLG. JOIST w/(4) 12d NAILS.

FASTEN RAFTER TO LEDGER WITH SIMPSON H3 OR USP RT3A

-2x4 LEDGER, FASTEN TO SIMPSON U24-2 OR USP

WALL STUDS WITH (2) ROWS 12d NAILS @ 16" Ò.Ć. SUH24-2 HANGER

BRICK VENEER, PER ELEVATION

C EYEBROW ROOF DETAIL STRAIGHT ROOF

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ENGINE SUITE 201, QUAKE

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Detail

Foundation

Carolina Serenity, Lot #13 B327 Ballentine 1 115 M.P.H. North

Checked By: Issue Date: 5/7/24 Re-Issue:

Project #: 047-20007

Monolithic

Raleigh,

139 Slab

INSTALL ½" DIA. ANCHOR BOLTS W/ 3"x3"x¼" PLATE WASHERS @ 6'-0" O.C., SEE

2x STUD WALL w/ P.T.

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

VENEER TIES SHALL BE SPACED NOT MORE THAN

24" O.C. HORIZONTALLY

AND VERTICALLY AND SHALL SUPPORT NOT

CONCRETE SLAB, SEE PLAN

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

STEP VARIES

3333

GARAGE SPACE

EXTERIOR

12" MINIMUM

BELOW GRADE

CRADE

MORE THAN 2 SQUARE

H)THICKENED SLAB

FOUNDATION SECTION

EXTERIOR WALL AT PORCH W/ BRICK VENEER

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.

INSIDE EDGE OF MONOLITHIC FOUNDATION (1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB BRICK -MASONRY 00 00 NOTCH BRICK OUTSIDE

EDGE OF BRICK AND WALL ABOVE

3"x3"x¼" PLATE WASHERS @ 6'-0' O.C., SEE FOUNDATION NOTES. BRICK VENEER -SEE ARCH DWGS FOR BRICK TIES, /4" CONCRETE SLAB, SEE PLAN WEEPS, ETC. 8" MINIMUM TO GRADE, 24" MAX EXTERIOR GRADE 4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL 95% COMPACTED SOIL 12" MINIMUM--MONOLITHIC CONCRETE

FOOTING, SEE PLAN.

FOUNDATION SECTION

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

8" MINIMUM TO

GRADE, 30" MAX.

EXTERIOR GRADE-

12" MINIMUM

BELOW 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

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE

12" MINIMUM

BELOW GRADE

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

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

SEE FOUNDATION NOTES.

B FOUNDATION SECTION
EXTERIOR WALL @ BRICK VENEER

CONCRETE SLAB POURED

MONOLITHICALLY WITH

4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

COMPACTED FILL

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

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

MONOLITHICALLY WITH FOOTING, SEE PLAN.

' GRAVEL FILL

OR GROUP 1 CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

POST ABOVE, SEE PLAN

MONOLITHIC CONCRETE FOOTING w/ 4" LEDGE BRICK VENEER, SEE

FOOTING, SEE PLAN.

ISOLATED PAD FOOTING

CONCRETE SLAB, SEE PLAN

FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER

INTERIOR COLUMN

SEE PLAN FOR SIZE

ISOLATED PAD FOOTING,

CONCRETE SLAB POURED CONCRETE SLAB POURED RECESS @ GARAGE DOOR FOOTING SEE PLAN

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

B 

FOUNDATION SECTION EXTERIOR WALL AT PORCH

CONCRETE SLAB, SEE PLAN

EXTERIOR

12" MINIMUM

BELOW GRADE

GRADE

4" GRAVEL FILL OR GROUP CLASSIFIED SOIL COMPACTED FILL

-MONOLITHIC CONCRETE FOOTING

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

SFF FOUNDATION NOTES.

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

4" GRAVEL FILL

CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE FOOTING, SEE PLAN.

OR GROUP 1

G GARAGE DOOR SECTION

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

INSTALL 1/2" DIA. ANCHOR BOLTS W/ (1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB

FOUNDATION NOTES. © THREADED ROD AND GROUT SOLID

M FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

Designed By: JPS 1/4"=1'-0" @ 22x34

ALTERNATE EXTERIOR WALL

2x BEARING WALL w/ P.T. PLATE, SEE PLAN: -INSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., CONCRETE SLAB POURED MONOLITHICALLY WITH SEE FOUNDATION NOTES FOOTING, SEE PLAN. THICKENED SLAB, SEE PLAN.

> THICKENED SLAB SECTION ( J )INTERIOR BEARING WALL

E)FOUNDATION SECTION
EXTERIOR GARAGE WALL

PLATE, SEE PLAN -6" CONCRETE STEMWALL CONCRETE SLAB POURED 8" MINIMUM TO MONOLITHICALLY WITH FOOTING, SEE PLAN. GRADE, 30" MAX EXTERIOR GRADE -4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL 12" MINIMUM

COMPACTED FILL - MONOLITHIC CONCRETE FOOTING, SEE PLAN.

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

SEE FOUNDATION NOTES

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

SEE FOUNDATION NOTES.

CONCRETE SLAB POURED MONOLITHICALLY WITH FOOTING, SEE PLAN.

4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

COMPACTED FILL

-MONOLITHIC CONCRETE

FOOTING, SEE PLAN.

BELOW GRADE

2x STUD WALL w/ P.T.

FOUNDATION SECTION

2x STUD WALL w/

8" MINIMIM TO

GRADE, 30" MAX

EXTERIOR GRADE~

12" MINIMUM~ BELOW GRADE

P.T. PLATE, SEE PLAN.

ENGINEERING

E. SUITE 201, QUAKERTOWN, PA 18951

COM

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Notes

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Details

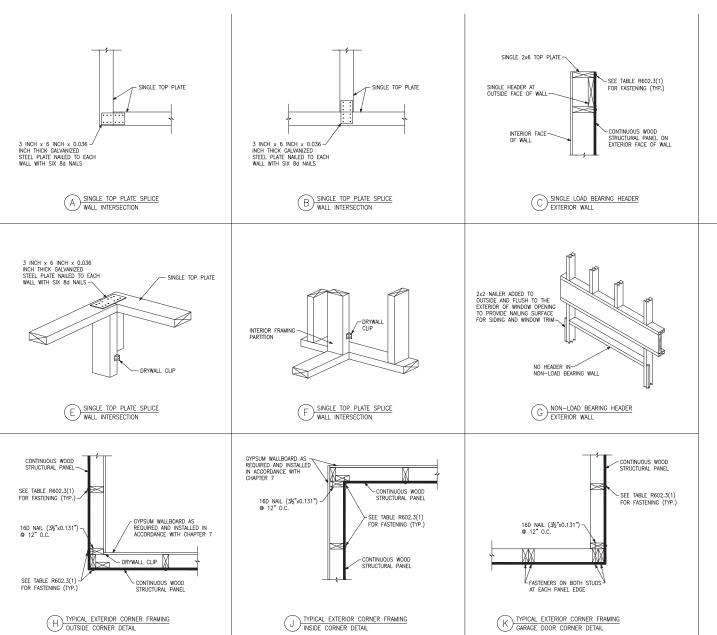
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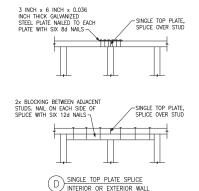
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ADVANCED FRAMING NOTES

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.