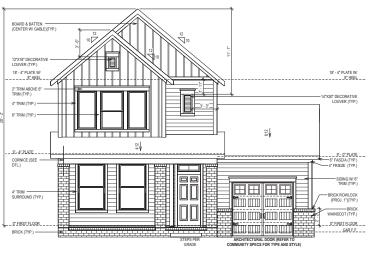
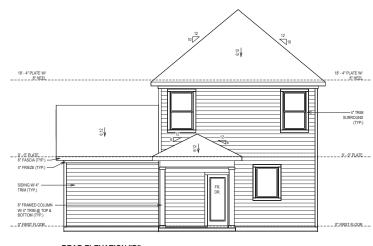


CORNICE DETAIL

SCALE: 1" = 1'-0"



FRONT ELEVATION "B"



REAR ELEVATION "B"

| | | © Weekley Homes L.P. 2024 |
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| David We | ekley Homes | David Weekley Homes The measurement, dimension, and other specification submon right for commerce and other specifications in the case of the commerce and other specifications of the initial discusse may be compared to the case of the |
| T/MM/KR/JAS | Scale:1/8"=1'-0" | vary. This document may not be relied on as a representation of what the completed structure will look like. |
| 2000/00/10 | CL 2010111 | |

Scale:1/8"=1'-0" Rev: 1/16/25 EB

PT/MM/KR/JAS Date: 04/08/2025

1056

Lot:

| Proj. No.: | 3293 | Job No.: 1056 | |
|--------------|------------------|-------------------|--|
| SERENITY 43' | 92 RESTFUL POINT | FUQUAY VARINA, NC | |

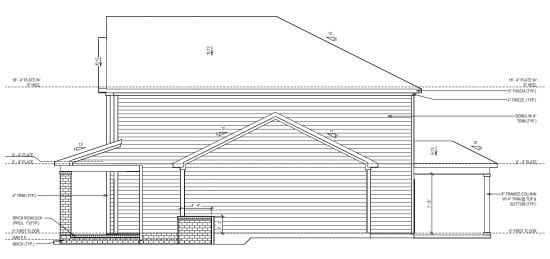
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Proj. No.: Lot: 1056 2293 Job No.: Block: PTR 1056 Sect: Date

SERENITY 43'
92 RESTFUL POINT
50 FUQUAY VARINA, NC

SHEET INDEX:

| S-0 S-0.1 | COVER SHEET GENERAL STRUCTURAL NOTES |
|--------------|--------------------------------------|
| S-1 | MONOLITHIC SLAB FOUNDATION PLAN |

ROOF FRAMING PLAN

| 30 10 | DIVIOLD WALL DETAILS |
|-------|-------------------------------|
| SD-2J | HOLD DOWN DETAILS |
| SD-3 | BRACED WALL NOTES & DETAILS |
| SD-4 | PORTAL FRAME DETAILS |
| SD-5 | MISCELLANEOUS FRAMING DETAILS |
| SD-6 | MISCELLANEOUS FRAMING DETAILS |
| | |

RRACED WALL DETAILS

SECOND FLOOR FRAMING PLAN

SD-7 MONOLITHIC SLAB FOUNDATION DETAILS SD-8 NOT USED NOT USED SD-9 SD-10 NOT USED

NOT USED SD-11 SD-12 ADVANCED FRAMING DETAILS & NOTES



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

A609 CROSSMAN

SERENITY, LOT #1056

RALEIGH, NORTH CAROLINA

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

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'):

• 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

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

 **UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
- · HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK/BALCONY = 40 PSF STAIRS = 40 PSF

DESIGN DEAD LOADS:

- *ROOF TRUSS = 17 PSF (TC=7, BC=10)

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

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

DESIGN WIND LOADS:
- ULTIMATE WIND SPEED = 115 MPH

• EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12" MINIMUM SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- *TJI 210 SERIES (SERIES AND SPACING PER PLANS)

 *LSL: E=1,550,000 PSI, F₈=2,325 PSI, F₈=310 PSI, F₆=900 PSI

 *LVL: E=2,000,000 PSI, F₈=2,600 PSI, F₈=285 PSI, F₆=750 PSI

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



David Weekley Homes

Cover Sheet Serenity, Lot #1056 A609 Crossman Model Raleigh, North М.Р.Н. 115

Project #: 047-24013 Designed By: LMR Checked By: Issue Date: 4/16/25

Re-Issue: 5/1/25 1/4"=1'-0" @ 22x34

- THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT, THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE.
 NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL
 ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN ASPECTS OF THESE CONSTRUCTION DOZUMENTS WITHOUT WHITEN CONSENT OF KEEP ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SPALL BE CONSIDERED THE SAME ENTITY. THE STRUCTURE IS DURY STABLE IN ITS COMPLETED THE OFFICE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION STABLE THE STRUCTURE OF THE SER IS NOT RESPONSIBLE FOR FOR CONSTRUCTION SERVICES, METHODS, ON TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION.
- THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT
- THE CONTRICTIONS PALLONE TO COMPORANT OF THE CONTRICTION OF THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LUBILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON
- THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSE PROFESSIONAL INSINIERS. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS FROMEOUT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE FINDINGERING, P.C. BEFORE CONSTRUCTION FROMS. THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE
- TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
 THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTU
 ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE
- FLEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS ELEMENTS SPECIFICALLY NOTICE ON THE STRUCTURE. APPRIANCES.
 THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL
 APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL
 CODES OR RESTRICTIONS.
- 9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING LINLESS OTHERWISE NOTED 10. WATERPROOFING AND FLASHING BY OTHERS.

FOUNDATIONS: FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH

CHAPTER 4 OF THE BUILDING CODE.

CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY

OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED 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
- %" 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
- EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6
 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION. NO CONCRETE SHALL BE PLACED AGAINST ANY SLIBGRADE CONTAINING
- NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRAUE CONTR 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.
- WILLIN THE FIRST LEN 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 ACL 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.

 NO ADMINITURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO
- CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX
- CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302,1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION". CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN
- INTERIOR 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 POLTPROPTENE FIBERS MAY BE SEEN 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 BI 13. WHERE REINFURCING DUWLES ARE REQUIRED, THEI SPAUL IN EQUIPALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KEE FOUNDATION DETAILS. 16. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE
- CONDITIONS PROVIDE CONTINUOUS REINFORCING WITH 7 BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 17. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACL MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER NO ROCKS, CMU, CLAY
- SPACED NOT MORE HAM 4 FEET ON CENTER, NO ROCKS, CMM, CLAT TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING. FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE, BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON

MASONRY

- ALL MASONRY SHALL CONFORM TO ASTM C-90, Fm=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 "RUILDING 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
- EACH 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., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L'

WOOD FRAMING:

- SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). UNLESS THERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED
- SPRUCE-PINE-FIR (SPF) 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 NALED TO EDGE OF EACH STUD.
 FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 164 COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLIES.
- FASTEN 4-PLY BEAMS WITH (1) 1/2" DIAMETER THROUGH BOLT w/ NUT WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 15" MINIMUM EDGE DISTANCE, (UNLESS OTHERWISE NOTED)
- ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD LINERS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS
- OTHERWISE NOTED.

 11. 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 (5) STUDS UP TO 12' OPENING (4) STUDS UP TO 16' OPENING (6) STUDS UP TO 16' OPENING
 ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL
- BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM
- WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS. 14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY
- (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.
 ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE TH RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND
- DETAILED BY OTHERS DETAILED BY OTHERS.
 ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING
- PROTECTION SHIELDS. ALL HOLES OVER 1 IN DIAMETER FOR PLUMBI LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR GYPSUM BOARD, BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END THE STUD IN LIEU OF SHEATHING.

EXTERIOR WOOD FRAMED DECKS

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

RAFTER FRAMED ROOF CONSTRUCTION:

- PROVIDE 2x4x4"-0" RAFTER TIES AT 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 LINLESS SPECIFICALLY
- SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS.
 CEILING JOISTS SHALL HAVE LATERAL SUPPORT w/ 1x4 FLAT BRACING ON TOP FDGE OF JOIST AT LOOSE JOIST 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) 12d NAILS FASTEN STRONGRACK TO 2v4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL

WOOD TRUSSES (FLOOR & ROOF):

- THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES, SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE THE ASCE STANDARD. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC FOLIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO
- THE TRUSSES.
 THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI : "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 BCSI. 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 INSTALLARS 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 BRACES IN PROVIDE AT BUSH CONTINUOUS SHERRER MANDE LINE. SO, DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTEND TO EACH TRUSK WEB WITH AN MINIMUM OF TWO TOO 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 BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.

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

- WOOD STRUCTURAL PANELS:

 1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS
- ALL STRUCTURALLY REQUIRED WOOD SHEATHING SHALL BEAR THE
- WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION. EXTERIOR WALLS TO BE FULLY SHEATHED LISING 76" OSB MINIMUM AT BRACED 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 8d NAL 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 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) 10d 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 FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF TAMING SPACIONS. FROM BE SUBJECT TO THE USE OF THE STATE OF THE STATE
- 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
- STARUARDS.

 FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- SHEATHING SHALL HAVE A %" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

- STRUCTURAL STEEL:

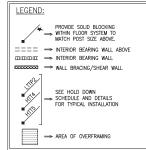
 1. STRUCTURAL SITEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS
- ALL STEEL SHALL HAVE A MINIMUM YIELD 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
- D1.1 ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS 570XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 38" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 3/8" 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 ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN
- ACCORDANCE WITH ASTM A 153, G-185,
 MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS
 THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S
 RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



| BRICK VENEER LINTEL SCHEDULE | | | | | |
|--|--------------------|----|--|--|--|
| SPAN LINTEL SIZE END BEARING | | | | | |
| UP TO 3'-0" | 3½"x3½"x¼" 4" | | | | |
| UP TO 6'-3" | 5"x3½"x516" L.L.V. | 8" | | | |
| UP TO 9'-6" 6"x3½"x5/6" L.L.V. 12" | | | | | |
| LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS. SPANS OVER 4'-0" SHALL BE SHOPED LIP LINTIL CLIPED. | | | | | |



IEERING
KERTOWN, PA 18951
(215) 804-4449 NUSIN S

Ш Homes

Weekley I

David 7

Not 56 ō Mode #1056 /, Lot #1(rossman .H. North Serenity, σ. Õ $\stackrel{\cdot}{\geq}$ A609 115

Structural

General

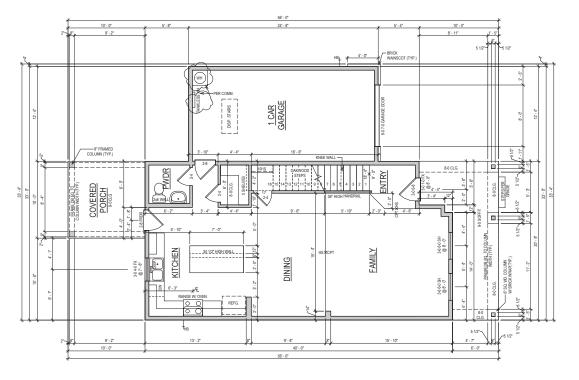
Carolina

gh,

Ral

Project #: 047-24013 Designed By: LMR Checked By: Issue Date: 4/16/25

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



FIRST FLOOR "B"

GENERAL REQUIREMENTS

SLOPED SURFACE REQUIREMENTS ALL PATIOS TO SLOPE 1/4" PER FOOT

GRAGEFLOOR TO BE SLOPED 1/8 PER POOT TOWAGE EN ROOF DECKS AND BACONES TO BE SLOPED 1/4 PER FOOT TOWAR RALING REQUIREMENTS FINSE WITH 4 OR MORE RSBPS FINSEED HANDRAL, REQLINED AT STARS WITH 4 OR MORE RSBPS

PLAN SQFT - B

801 SF 820 SF 1621 SF

759 SF 100 SF 153 SF 304 SF 2117 SF

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

FINSHED GLARDRALS REQUIRED AT DECKS BALCONES AND VINLY GREATER ABOYE GRADE AND DE AT A MINIMAM OF 39° IN HEIGHT FINSHED GLARDRALL AND HANDRAL SPINDLES MAST BE SPIKZED S PASS THROUGH

Lot: 1056 Block:

Proj. No.: 3293 Job No.: 1056

SERENITY 43' 92 RESTFUL POINT FUQUAY VARINA, NC

A609-B PLN-1

CROSSMAN RALEIGH

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

PT/MM/KR/JAS Date: 04/08/2025

Weekley Homes L.P. 2024
The measurement, dimension, and there goedinations above on the document are goldiness for contruction use only. The actual specifications of the finished furcture may ray. This document may not be relief on as a represental of what the completed student we will offer this completed student will look file.

Scale:1/8"=1'-0" Rev: 1/16/25 EB

BEDRM2 BEDRM3 BEDRM3

SECOND FLOOR "B"

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

> SERENITY 43' 92 RESTFUL POINT FUQUAY VARINA, NC

Proj. No.: 3293 Job No.: 1056

David Weekley Homes

Lot: 1056 Block:

Scale:1/8"=1'-0" Rev: 1/16/25 EB

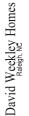
PT/MM/KR/JAS Date: 04/08/2025

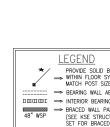
SERENITY 92 RESTFUL FUQUAY VARI

NORTH
A609-B
PLN-2
CROSSMAN
RALEIGH

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

KSE





56'-0"

24'-8"

GARAGE SLAB

4" THICK CONCRETE SLAB W, FIBERMESH
PER MANUFACTURER OR 646 W14-W1.4
WELDED WIRE MESH ON 6 MIL VAPOR
BARRIER ON 95% COMPACTED FILL SLOPE
1/8" PER 1'-0" TOWARDS DOOR.

10'-11/4"

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

TURNDOWN SLAB @ OPENING —

10'-1½"

40'-0" 56'-0"

MONOLITHIC SLAB FOUNDATION PLAN

5'-4"

10'-4"

41-244

45.04.

-4" THICK CONCRETE SLAB W/ FIBERMESH PER MANUFACTURER OR 6x6 W1.4xW1.4 WELDED WIRE MESH ON 95% COMPACTED FILL.

3'-4"

ANGLE CONTROL
JOINT TO CORNER
OF FOUNDATION

16" WIDE x 20" DEEP MONOLITHIC

CONCRETE FOOTING (TYP.)

(TYP. @ BRICK

VENEER)

9'-8"

2'-3/2"

1'-9½" 8'-3"

10'-0"

45:-04.

4" THICK CONCRETE SLAB w/ FIBERMESH

PER MANUFACTURER OR 6x6 W1.4xW1.4 WELDED WIRE MESH ON 95% COMPACTED FILL.

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%

41-244

COMPACTED FILL.

5'-8"

8" DEEP x 16" J WIDE THICKENED

SLAB (TYP.)

16" WIDE x 20"

DEEP MONOLITHIC CONCRETE

FOOTING (TYP.)

10'-11/4"

KEYNOTES:

(1) (2)#4 x 4'-0" LONG BARS AT 3" O.C., CENTERED IN SLAB, TYP. WHERE SHOWN





Monolithic Slab Foundation P
Serenity, Lot #1056
A609 Crossman Model
115 M.P.H.
Raleigh, North Carolina Project #: 047-24013
Designed By: LMR
Checked By: Issue Date: 4/16/25
Re-Issue: 5/1/25
Scale: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34

Plan

KSI

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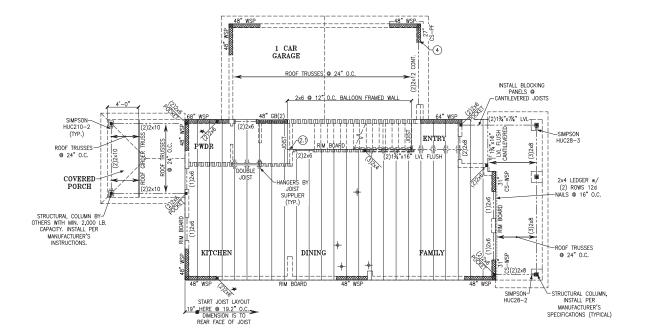
2.) EXTEND RIM BOARD TO PERPENDICULAR JOIST. TOE NAIL RIM BOARD TO TOP AND BOTTOM FLANGE w/(1) 8d NAIL. DO NOT SPLICE RIM BOARD WITHIN 4'-0" OF CONNECTION.

FLOOR FRAMING TO BE 16" DEEP TJI 210 SERIES

KEYNOTES:

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





SECOND FLOOR FRAMING PLAN

→ 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 DELIAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS

PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT

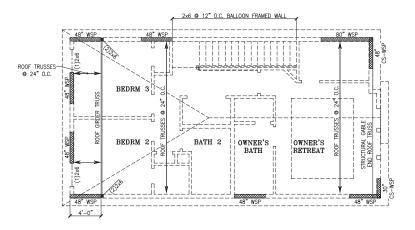
OR EQUAL, SPACING PER MANUFACTURER.

Second Floor Framing H Serenity, Lot #1056 A609 Crossman Model 115 M.P.H. Raleigh, North Carolina Project #: 047-24013
Designed By:LMR
Checked By: Issue Date: 4/16/25 Re-Issue: 5/1/25 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Plan

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KSE



ROOF FRAMING PLAN



SPACED WALL PANEL

WSP

SEE STRUCTURAL DETAILS

SET FOR BRACED WALL PANEL

SHEATHING FASTENING &

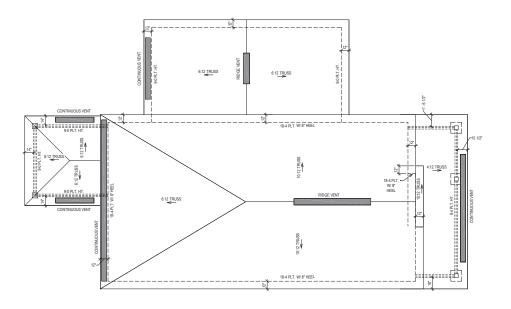
BLOCKING DETAILS)

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

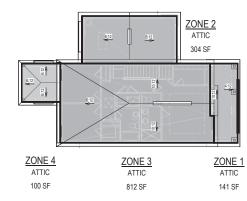
PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT



| Poper | Pope



ROOF PLAN "B"



VENTILATION PLAN "B"

| - | ATTIC VENTILATION W/ OPT. COVERED PORCH - B | | | | | | | | | |
|----------------------------|---|--|------|-----------------------------------|-----------|---------------------------------|----------------|----------|-------------------------|--------|
| NET F | REE VENTIL | ATED AF | EA | | EXHAUST V | /ENTS | PRIMARY INTAKE | | ACTUAL VENTILATION % | |
| NFVA=AREA SF X 144 / RATIO | | INSTALL NO MORE THAN 3' BELOW HIGHEST POINT OF ZONE | | INSTALL IN LOWER THIRD OF ZONE | | EXHAUST NOT TO EXCEED INTAKE | | | | |
| | | | | | V | ENTS | | VENTS | | |
| ZONE | AREA | VENT | MIN | REQ | SIZE | COUNT | SIZE | COUNT | EXHAUST % | INTAKE |
| | | KAIIU | NEVA | | SQIN | EA or LF | SQIN | EA or LF | 70 | 20 |
| ZONE 1 | 141 SF | 150 | 136 | No | 0 | 0 | 10 | 14 | 0% | 100% |
| ZONE 2 | 304 SF | 300 | 146 | Yes | 18 | 4 | 10 | 8 | 47% | 53% |
| ZONE 3 | 812 SF | 300 | 390 | Yes | 18 | 10 | 10 | 21 | 46% | 54% |
| ZONE 4 | 100 SF | 150 | 96 | No | 0 | 0 | 10 | 10 | 0% | 100% |

TRUSS ROOF NOTES

ALL OVERHANGS PER PLAN MEASURED FROM OUTSIDE FACE OF FRAME.

GABLE OVERHANGS 12" UNLESS NOTED OTHERWISE.

HIP OVERHANGS 16" UNLESS NOTED OTHERWISE.

ALIGN FASCIA TO MAINTAIN CONSISTENT OVERHANG WITH DIFFERING ROOF PITCH.

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

ALL OVERFRAMING AND BRACING TO BE NO. 2 GRADE 2X S.Y.P. UNLESS NOTED OTHERWISE

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

ACTUAL ATTIC VENTILATION MAY VARY. VERIFY IN THE FIELD.

NORTH
A609-B
RFP-1
CROSSMAN
RALEIGH

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The measurements, dimensions, and other specification shown in this document re specifiering to construction.

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1056

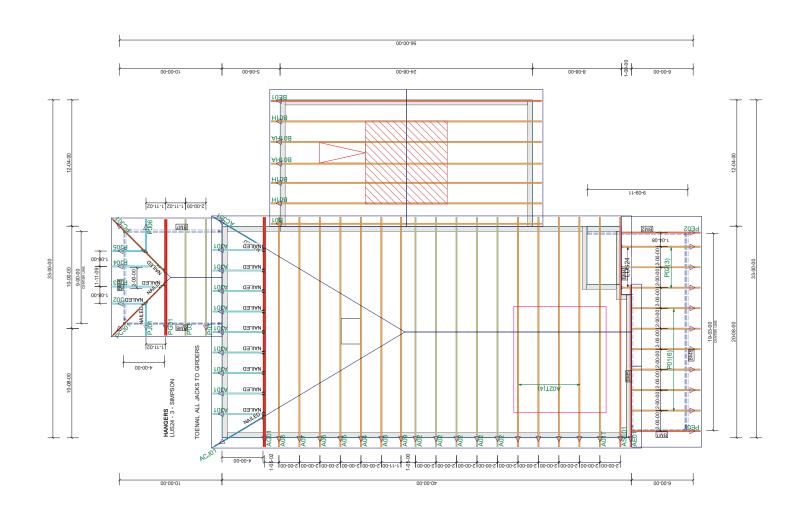
Lot:

Proj. No.: 3293 Job No.: 1056

SERENITY 43' 92 RESTFUL POINT FUQUAY VARINA, NC

Scale:1/8"=1'-0" Rev: 1/16/25 EB

> PT/MM/KR/JAS Date: 04/08/2025



NOT FOR CONSTRUCTION

B4 Components
200 Emmett Rd
Dunn NC 28334
United States
Office: (910) 892-8400

David Weekly 1056 Serenity

2383-Dunn

P02426-25225

Job#

- **ROOF**

Serenity

Designer Patrick Harris

DO NOT CUT, NOTCH, OR BORE HOLES NLESS SPECIFIC, WRITTEN PERMISSION IS IDED BY AN AUTHORIZED REPRESENTATIVE (84 LUMBER.

TRUSS INSTALLATION REQUIRES TEMPORARY ANI PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SECA DOC'S B-1 and B-3. THESE ARE INCLUDED WITH EACH JO IN YOUR TRUSS PACKET.

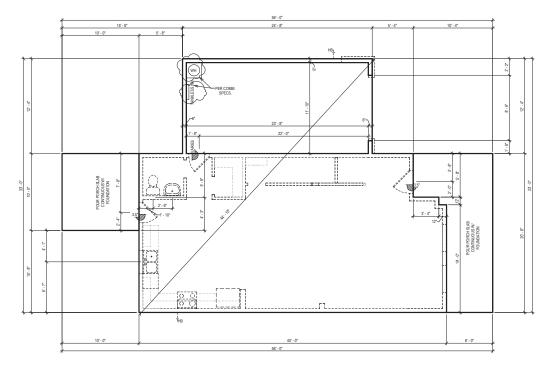
Sheet # 1 of 1

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

5/9/2025



FIRST FLOOR "B"

Weekley Homes LP. 2024
The measurement of tension, and the specialized special properties of the special properties o

 David Weekley Homes

 PTIMMIKRUAS
 Scale: 1/6"=1"-0"

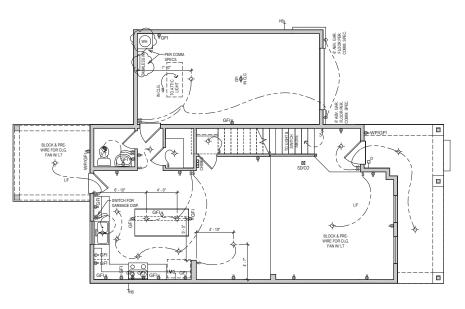
 Date: 04/08/2025
 Rev: 1/16/25 EB

3293 Lot: 1056 3293 Block: 1056 Sect:

SERENITY 43' 92 RESTFUL POINT FUQUAY VARINA, NC

NORTH A609-B FS-1 CROSSMAN RALEIGH

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS



FIRST FLOOR "B"

UTILITY LEGEND 6 110V OUTLET 12" A.F.F. (U.N.O.) ELEVATOR CALL BUTTON GFI GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED) HALF HOT OUTLET EXHAUST VENT 220V OUTLET (36* A.F.F. @ UTILITY) SD SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
DOOR BELL ▼ PHONE LINE CHIMES DOOR BELL
CHIMES
ELEC
PAREL BOARD W
CIRCUIT
HB
HOSE BIB CABLE TELEVISION \$ STANDARD SWITCH (3 OR 4 WAY AS NOTED) - SURFACE MOUNTED LIGHT GAS GAS TAP CW HW COLD/HOT WATER SUPPLY Q WALL MOUNTED LIGHT

JUNCTION BOX

CITY SPECIFIC

VTALT RECESSED CAN/ EXHAUST VENT COMBO

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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

MID-ATLANTIC General Notes

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

2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.

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

 PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.

5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

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The measuments dismession, and their specifications shown in this consent angle depletion to consentation only. The study specification for the measurement of the simple steader and or their the completed strates will look as respected factors will look as respected factors will look as respected factors will look as

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

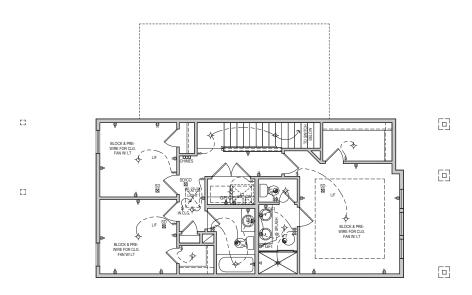
 Date: 04/08/2025
 Rev: 1/16/25 EB

D: Lot: 1056

Proj. No.: 3293 Job No.: 1056

SERENITY 43' 92 RESTFUL POINT FUQUAY VARINA, NC





SECOND FLOOR "B"



IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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

| | | UTILIT | Y LE | GEND |
|---|---------|---|-----------------|---|
| | ф | 110V OUTLET 12" A.F.F. (U.N.O.) | P. | ELEVATOR CALL BUTTON |
| | GFI | GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED) | | RECESS CAN LIGHT (EYEBALL AS NOTED) |
| | 1/2 | HALF HOT OUTLET | VT ⑤ | EXHAUST VENT |
| | ф | 220V OUTLET (36" A.F.F. @ UTILITY) | ⊠ ^{SD} | SMOKE DETECTOR (CARBON MONOXIDE AS NOTED) |
| | ₹ | PHONE LINE | ₽D | DOOR BELL |
| | Υф | CABLE TELEVISION | CHIMES | DOOR BELL CHIMES |
| | \$ | STANDARD SWITCH (3 OR 4 WAY AS NOTED) | ELEC. | PANELBOARD W/ CIRCUIT BREAKERS |
| | | SURFACE MOUNTED LIGHT | нв+ | HOSE BIB |
| | ÷. | SURFACE MOUNTED LED DISC LIGHT | GAS CW HW | GAS TAP |
| | 오 | WALL MOUNTED LIGHT | 11 | COLD/HOT WATER SUPPLY |
| ı | 0 | JUNCTION BOX | | |

MID-ATLANTIC General Notes

1. 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)

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.

Weekkey Homes LP. 2024
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Lot:

1056

Proj. No.: 3293 Job No.: 1056

SERENITY 43' 92 RESTFUL POINT FUQUAY VARINA, NC

A609-B ELE-2 CROSSMAN RALEIGH



SERENITY 43' 92 RESTFUL POINT FUQUAY VARINA, NC

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David Weekley Homes

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Lot:

Proj. No.: 3293 Job No.: 1056

Scale:1/4"=1'-0" Rev: 1/16/25 EB

> PT/MM/KR/JAS Date: 04/08/2025

NORTH A609-B

INT-1 CROSSMAN RALEIGH

ed Wall Details hity, Lot #1056 Crossman Model

Braced Wall [Serenity, Lot

Carolina

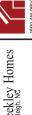
Raleigh, North

М.Р.Н.

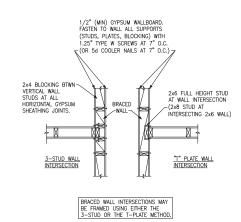
A609 115



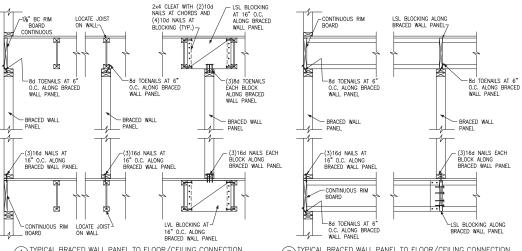






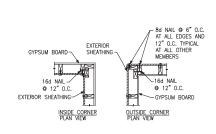


© METHOD GB(1) AND GB(2) INTERSECTION DETAILS



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

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



" 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"

DTYPICAL EXTERIOR CORNER WALL FRAMING

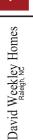
NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED THROUGH THE USE OF WOOD BACKUP CLEATS, METAL DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.

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

Project #: 047-24013
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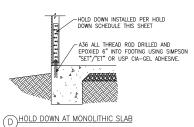


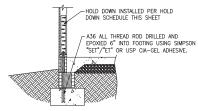




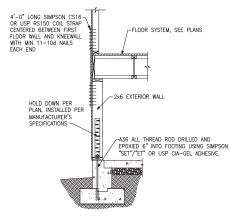












G HOLD DOWN AT FOUNDATION STEM WALL

| HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET | 4'-0" LONG SIMPSON CS16 OR USP RS150 COIL STRAP CENTIFERD BETWEEN FIRST FLOOR WALL AND KNEEWALL WITH MIN 11-10d NAILS EACH END |
|---|---|
| A36 ALL THREAD ROD SIMPSON CNW1/2 OR USP CNW12-ZP COUPLER NUT GROUT CMU SOLID AT ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA—SEL ADHESIVE. | HOLD DOWN PER PLAN, INSTALLED PER MANUFACTURER'S SPECIFICATIONS A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE. |
| E HOLD DOWN AT CRAWL FOUNDATION | F HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN |

2x FULL HEIGHT

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

(2)2x FULL HEIGHT-

STUD w/ 10d NAILS @ 6" O.C. EACH PLY SHEAR WALL, SEE SCHEDULE AND PLANS FOR LOCATION

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET, SEE PLANS FOR TYPE AND LOCATION.

B TYPICAL HOLD DOWN DETAIL

SHEAR WALL, SEE SCHEDULE AND PLANS FOR LOCATION

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

(2) 2x FULL HEIGHT

STUD w/ 10d NAILS © 6" O.C. EACH PLY

2x FULL HEIGHT STUDS

A TYPICAL HOLD DOWN DETAIL

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

(F) MONOLITHIC TURN-DOWN

| HOLD DOWN SCHEDULE | | | | |
|--------------------|-------------|---------------|------------------------|--|
| HOLD SIMPSON | DOWN 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 | |

| SE CAPOLINA CONTROL OF THE CAP |
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|--|

Carolina

North

Raleigh,

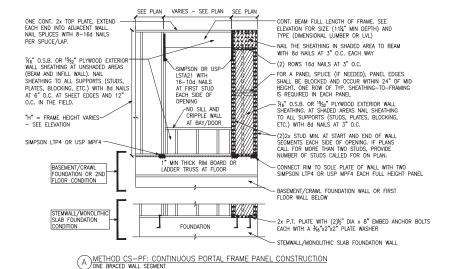
Details

Notes &

Wall

Re-Issue:

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



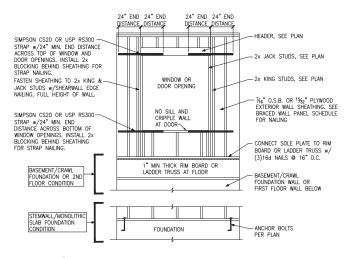
| ONE CONT. 2x TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES 8-1-616 ANILS PER SPLICES AT-161 ANILS PER SPLICE/LAP. 7/4" O.S.B. OR 15/5;" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM AND INFILL WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD. "H" = FRAME HEIGHT VARIES - SEE ELEVATION WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C. | SEE PLAN VARIES - SEE PLAN SEE PLAN SIMPSON OR USP LSTA21 WITH 1 F-10s MAILS 1 F-10s TSTUD EACH SIDE OF OPENING ORPPLE WALL AT BAY/DOOR 1 MIN THICK RIM BOARD OR | CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (11½" MIN DEPTH) AND TYPE (DIMENSIONAL LUMBER OR LVL) —NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 84 NAILS AT 3" O.C. FACH WAY —(2) ROWS 16d NAILS AT 3" O.C. PACH WAY —(2) ROWS 16d NAILS AT 3" O.C. PACH WAY —(3) ROWS 16d NAILS AT 3" O.C. PACH WAY —(4) ROWS 16d NAILS AT 3" O.C. PACH WAY —(5) ROWS 16d NAILS AT 3" O.C. PACH WAY —(7) ROWS 16d NAILS AT 3" O.C. PACH WAY —(7) SHALL BE LOCKED AND OCCUR WITHIN 24" OF MID HEIGHT. ONE ROW OF TYP. SHEATHING—TO—FRAMING IS REQUIRED IN EACH PAUL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PAULES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C. —(2) WITH BUNN. AT START AND END OF WALL SECKENTS EACH SIDE OF OPPLING, IF PIAMS CALL FOR MORE THAN I WO STUDS, PROVIDE NUMBER OF STUDS CALLED FOR ON PLAN. |
|---|---|---|
| BASEMENT/CRAWL FOUNDATION OR 2ND FLOOR CONDITION | 1" MIN THICK RIM BOARD OR LADDER TRUSS AT FLOOR | CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL |
| L · | | BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW |
| STEMWALL/MONOLITHIC SLAB FOUNDATION CONDITION | FOUNDATION | -2x P.T. PLATE WITH (2)½" DIA x 8" EMBED ANCHOR BOLTS EACH WITH A ½% x2"x2" PLATE WASHER -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 STAPLES AT 3" o.c. at sheet edges and 6" o.c. at intermediate suppor</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 V 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 V 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 V DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS | |
| CS-WSP | CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL | 7/16" OSB | 6d or 8d common nails at 6" o.c. at sheet edges and 12" o.c. at intermediate supports. <u>Engineered alternative</u> : 16 <u>Gage By 1.75" long</u> <u>STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPOR</u> | |
| CS-PF | CONTINUOUS SHEATHED PORTAL FRAME | 7/16" OSB | NAILING PER DETAIL | |
| CS-EPF | PORTAL FRAME WITH HOLD DOWNS | 7/16" OSB | NAILING PER DETAIL | |
| CS-ESW(1) | ENGINEERED SHEAR WALL, TYPE 1 | 7/16" OSB | 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS | |
| CS-ESW(2) | ENGINEERED SHEAR WALL, TYPE 2 | 7/16" OSB | 8d COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS | |
| CS-ESW(3) | ENGINEERED SHEAR WALL, TYPE 3 | 7/16" OSB | 8d COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENING: | |

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.
- 2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 3/6" 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







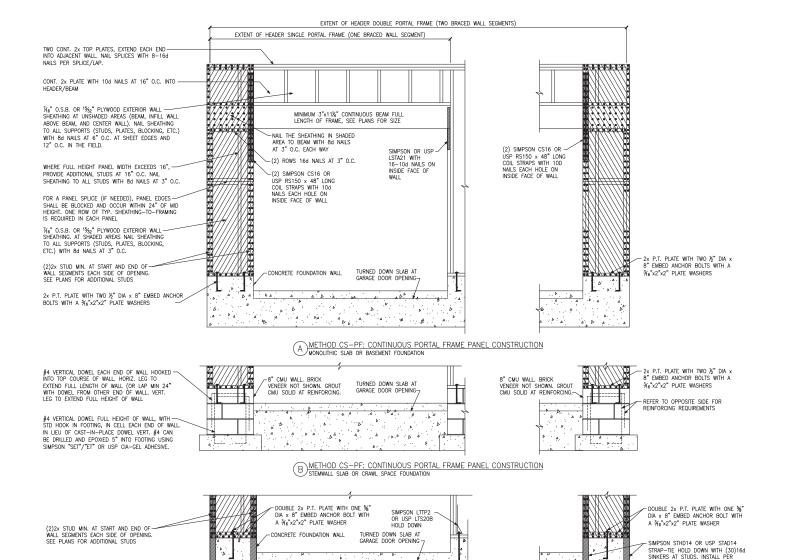




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Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

MANUFACTURER'S SPECS.



CONTINUOUS #4 HIGH AND LOW.

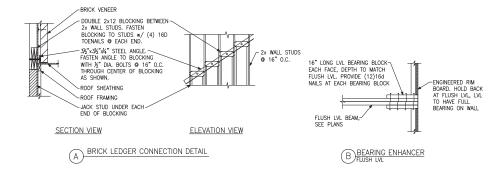
PROVIDE MIN 24" LAPS WHERE SPLICED.

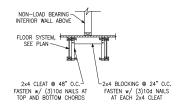
SIMPSON STHD14 OR USP STAD14 STRAP-TIE HOLD -

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

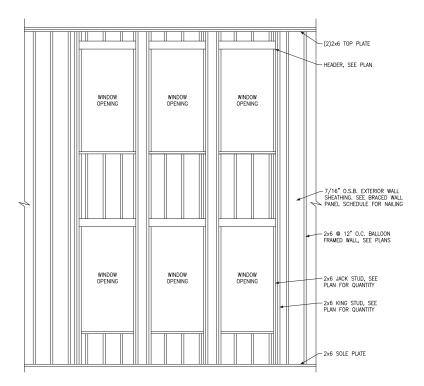
MANUFACTURER'S SPECS.

KSE





C LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.

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



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

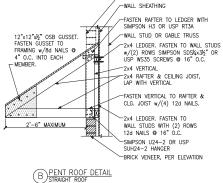
Designed By: LMR Checked By: Issue Date: 4/16/25

Project #: 047-24013

Miscellaneous | | Serenity, Lot # A609 115

Framing #1056 Model Crossman

Detail



-LINE OF OPTIONAL BRICK

-WALL STUD OR GABLE TRUSS TOENAIL RAFTER TO LEDGER WITH (4) 12d NAILS -2x4 LEDGER, FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS1/4x31/2" SCREWS @ 16" O.C. -2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) 12d NAILS -2x4 LEDGER. FASTEN TO WALL OR GABLE TRUSS WITH (2) ROWS 12d NAILS @ 16" O.C.



WALL STUDS w/(2) ROWS SIMPSON SDS¼x3½" OR USP WS35 SCREWS ⊕ 16" O.C. FASTEN VERTICAL TO RAFTER & OSB GUSSET, CUT TO-MATCH ROOF PROFILE CLG. JOIST w/(4) 12d NAILS. FASTEN GUSSET TO FRAMING w/8d NAILS @ 4" -2x4 LEDGER. FASTEN TO 2'-6" MAXIMUM WALL STUDS WITH (2) ROWS 12d NAILS @ 16" O.C. O.C. INTO EACH MEMBER. -SIMPSON U24-2 OR USP SUH24-2 HANGER -BRICK VENEER, PER ELEVATION X SECTION CURVED ROOF A PENT ROOF DETAIL CURVED ROOF C EYEBROW ROOF DETAIL STRAIGHT ROOF 2x4 BLOCKING BETWEEN TRUSSES WITH SIMPSON U24 OR USP JL24 EACH END 8d NAILS AT 6" O.C. -- 8d NAILS AT 4" O.C. SLOPING L3½"x3½"x½" BRICK ANGLE WITH HORIZ. PL3x3x½ PLATES AT 24" O.C. (MIN TWO PER ANGLE. NAIL TO GIRDER 2x4 FRAMING AT 24" O.C. -CANTILEVERED OVER GABLE BRICK VENEER-END TRUSS 2x4 BLOCKING BTWN TRUSS WITH 16d NAILS AT 9" O.C. THROUGH PRE-DRILLED RAFTERS. SIMPSON LTP4 EVERY 2x6 KICKER AT 6'-0" O.C., WITH--HOLES. 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 PL3x3x16 TYP K %6" OSB AT GABLE END TRUSS, PER SHEAR WALL

ROOF TRUSSES

SIMPSON A35 OR USP MPA1 SPACED PER SHEAR WALL BELOW ENTIRE GABLE END

AT 24" O.C.

(2) SIMPSON GBC OR

(E)GABLE END WALL DETAIL

USP HC520 EACH KICKER

2x4 LEDGER, FASTEN TO

-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.

2x12 RAFTER WITH

CURVED PROFILE CUT INTO RAFTER-

EDGE NAILING PER SHEAR — WALL SCHEDULE PER SHEAR

WALL ABOVE (6" O.C. AT NON-SHEAR WALLS)

%6" OSB WALL SHEATHING

2x4 VERTICAL

-WALL STUD OR GABLE TRUSS

-WALL SHEATHING

-2x4 VERTICAL

ROOF GIRDER TRUSS TO

SUPPORT DEAD LOAD OF BRICK, SEE PLAN

D TRUSS DETAIL

-2x4 CEILING JOIST, LAP WITH VERTICAL

OSB GUSSET, CUT TO MATCH ROOF PROFILE FASTEN GUSSET TO

FRAMING w/8d NAILS @ 4"

O.C. INTO EACH MEMBER.

2x12 RAFTER WITH

CURVED PROFILE

CUT INTO RAFTER

2x WALL STUDS,

SEE PLAN

JEERING
AKERTOWN, PA 18951
(215) 804-4449

ENGINE

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Detail

Foundation

Slab Found ot #1056 rossman ΞĖ Ф. Õ $\dot{\geq}$ A609 115

Project #: 047-24013 Designed By: LMR Checked By: Issue Date: 4/16/25

Monolithic

Raleigh,

Serenity,

Lot

North

Carolina

MONOLITHICALLY WITH RECESS @ GARAGE DOOR FOOTING SEE PLAN FOOTING, SEE PLAN. GARAGE SPACE 8" MINIMUM TO EP VARIES GRADE, 30" MAX STEP VARIES EXTERIOR GRADE 4" GRAVEL FILL 3333 GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL OR GROUP 1 CLASSIFIED SOIL COMPACTED FILL COMPACTED FILL 12" MINIMUM MONOLITHIC CONCRETE FOOTING MONOLITHIC CONCRETE BELOW GRADE FOOTING w/ 4" LEDGE BRICK VENEER, SEE FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER G GARAGE DOOR SECTION

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

B

FOUNDATION SECTION

C EXTERIOR WALL AT PORCH

CONCRETE SLAB, SEE PLAN

EXTERIOR

12" MINIMUM

BELOW GRADE

GRADE

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

SEE FOUNDATION NOTES.

CONCRETE SLAB POURED

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

4" GRAVEL FILL

CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE FOOTING, SEE PLAN.

OR GROUP 1

2x STUD WALL W/ P.T. PLATE, SEE PLAN. INSTALL 1/2" DIA. ANCHOR BOLTS W/ 3"x3"x14" PLATE WASHERS @ 6'-0' BRICK VENEER -SEE ARCH DWGS (1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB 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 BELOW GRADE FOOTING, SEE PLAN.

> FOUNDATION SECTION ALTERNATE EXTERIOR WALL

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

ISOLATED PAD FOOTING INTERIOR COLUMN

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

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

SEE FOUNDATION NOTES.

FOUNDATION SECTION

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.

CONCRETE SLAB POURED

-MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

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

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

CONCRETE SLAB, SEE PLAN ISOLATED PAD FOOTING, SFF PLAN FOR SIZE

POST ABOVE, SEE PLAN

H)THICKENED SLAB

INSIDE EDGE OF MONOLITHIC

00

FOUNDATION:

BRICK -

MASONRY

OUTSIDE

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

AND VERTICALLY AND SHALL SUPPORT NOT

FEET OF WALL AREA

CONCRETE SLAB, SEE PLAN

EXTERIOR

12" MINIMUM

BELOW GRADE

MORE THAN 2 SQUARE

FINSTALL ½" DIA. ANCHOR BOLTS ⊕ 6'-0" O.C., SEE FOUNDATION NOTES. 2x STUD WALL w/ P.T. CONCRETE SLAB POURED PLATE, SEE PLAN. MONOLITHICALLY WITH FOOTING, SEE PLAN. LIVING SPACE '4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL COMPACTED FILL -MONOLITHIC CONCRETE FOOTING, SEE PLAN.

FOUNDATION SECTION

EXTERIOR WALL AT PORCH W/ BRICK VENEER

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

INSTALL ½" DIA. ANCHOR BOLTS w/3"x3"x4" PLATE WASHERS @ 6'-0" O.C., SEE

000

FOUNDATION NOTES.

NOTCH BRICK

@ THREADED

ROD AND GROUT SOLID

(1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB

EDGE OF BRICK AND WALL ABOVE M FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

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

THICKENED SLAB SECTION (J)INTERIOR BEARING WALL

E)FOUNDATION SECTION
EXTERIOR GARAGE WALL

FINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., 2x STUD WALL w/ P.T. SEE FOUNDATION NOTES PLATE, SEE PLAN. -6" CONCRETE STEMWALL CONCRETE SLAB POURED 8" MINIMUM TO MONOLITHICALLY WITH GRADE, 30" MAX FOOTING, SEE PLAN. EXTERIOR GRADE -4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL 12" MINIMUM BELOW GRADE COMPACTED FILL MONOLITHIC CONCRETE FOOTING, SEE PLAN,

FOUNDATION SECTION

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.

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

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE-

12" MINIMUM-

BELOW GRADE

2x BEARING WALL w/

P.T. PLATE, SEE PLAN

FOOTING, SEE PLAN.

CONCRETE SLAB POURED

ENGINEERING

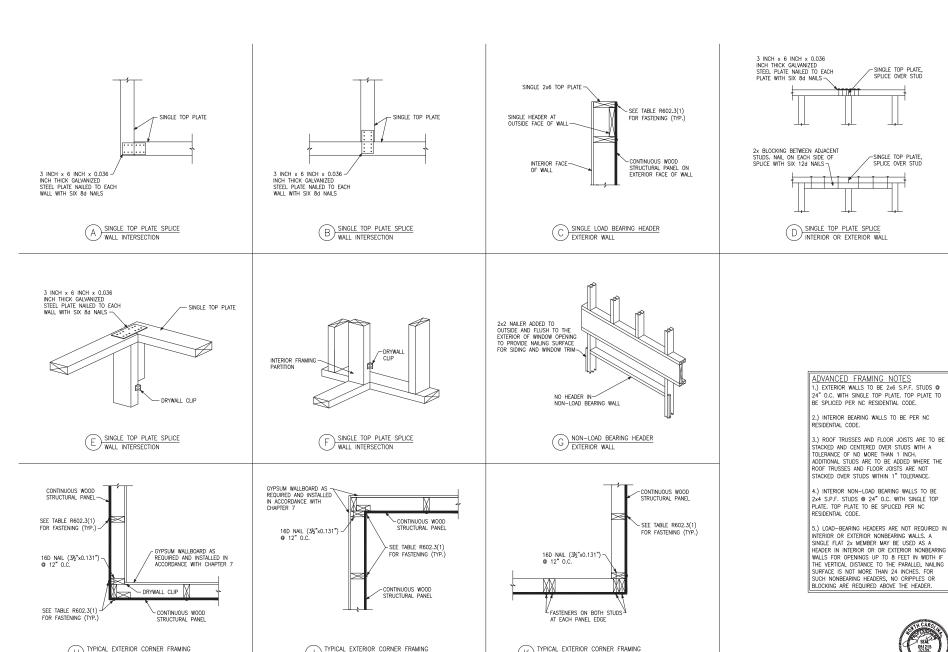
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GARAGE DOOR CORNER DETAIL

INSIDE CORNER DETAIL

OUTSIDE CORNER DETAIL

Notes ઝ Advanced Framing Details Serenity, Lot #1056

Project #: 047-24013 Designed By:LMR Checked By:

Re-Issue: