

NORTH CAROLINA 50' SERIES PLAN 243.2939-R

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PLAN #243.2939-R

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 FRONT ELEVATIONS 'D' AT OPTIONAL 4'-1" PLATE HEIGHT

PORCH AREA(S)

DECK AREA(S)

NROOM AREA(S)

- INTERIOR ELEVATIONS
- SECTIONS W/ CRANLSPACE OPTION
- - **SOUARE FOOTAGE**

ELEVATION 'A

ELEVATION 'B'

ELEVATION 'D

OPEN 12'x26'

12'XI2'-8'

SCREENED-IN 12'x12'-8"

PLAN 243.2939-R APPLICABLE CODES: SECOND FLOOR AREA 1160 TOTAL AREA 2939 SQ F CRAWL GAR. AREA 437 SQ. FT

50. FT.

SQ. FT SQ. FT

SQ. FT

SQ. FT

42

86 128

144 312

152 312

152

PROJECT DESCRIPTION: 2 STORY SINGLE FAMILY DETACHED RESIDENTIAL PLAN W 4 ELEVATIONS

ARCHITECTURAL DETAILS

OCCUPANCY:

CONSTRUCTION TYPE:

CODE INFORMATION

PARTIAL PLANS & ELEVATIONS 'XY/Z' W OPT. 12×26' DECK AT CRANL SPACE PARTIAL PLANS & ELEVATIONS 'XY/Z' W OPT. 12×26' DECK AT CRANL SPACE PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12'-0' SCREENED-IN COVERED DECK AT CRANL SPACE PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×26' SCREENED-IN COVERED DECK AT CRANL SPACE PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12'-0' SCREENED-IN COVERED DECK W 12×13'-4' DECK AT CRANL SPACE PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12'-0' SCREENED-IN COVERED DECK AT CRANL SPACE PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12-0' SCREENED-IN COVERED DECK AT CRANL SPACE PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12-0' SCREENED-IN COVERED DECK AT CRANL SPACE PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12-0' SCREENED-IN COVERED PATIO PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12-0' SCREENED-IN COVERED PATIO PARTIAL PLANS, ROOF & ELEVATIONS 'XY/Z' W OPT. 12×12-0' SCREENED-IN COVERED PATIO COVERED PATIO

Harnett

CODE ABBREVIATIONS N.C.-R. NORTH CAROLINA RESIDENTIAL CODE
N.C.-B. NORTH CAROLINA BUILDING CODE N.C.-M. NORTH CAROLINA MECHANICAL CODE

NORTH CAROLINA PLUMBING CODE N.C.-E. NORTH CAROLINA ELECTRICAL NC-EC NORTH CAROLINA ENERGY CODE

N.C.-E.O. NORTH CAROLINA ENERGY CODE
I.C.B.O. NATIONAL ELECTRICAL CODE
I.C.B.O. INTERNATIONAL CONFERENCE
OF BUILDING OFFICIALS
A.S.T.M. AMERICAN SOCIETY FOR
TESTING MATERIALS
N.F.P.A. NATIONAL FIRE PROTECTION
ASSOCIATION
A.N.E.I. AMERICAN NATIONAL STANDAS

AMERICAN NATIONAL STANDARDS A.N.S.I.

I.E.C.C. INTERNATIONAL ENERGY

UNDERWRITERS LABORATORIES, INC.

REVISION LIST

ELTA	DATE	SHEETS REVISED	LOG NUMBER
1	03/15/19	T.S., GNI. GN2, GN3, 3.AI, 3.B2, 3.CI, 3.C2, 3.D2, 5.I - 5.3, 8.I - 8.3, 9.I	NCI90I5NCP
2	03/15/19	T.S., I.4, I.5, 4.I, 5.3, 5.4	NCI9022NCP
3	04/22/19	T.S., 8.6, 8.7	NCI9028NCP
4	08/01/19	T.S., I.4, 5.3	NCI9047NCF
5	11/02/20	T.S., I.I, I.2, I.3, I.4, I.5, I.6, 3.AI-3.D5	NC20038NCF
6	02/18/21	1.1, 1.3, 1.4, 1.5	NC2IOI4NCP
7	07/28/21	T.S., I.I, I.2, I.3, I.4, I.5, 2.2, 3.A3, 3.BI - 3.B5, 3.CI, 3.DI, 4.I, 5.4	NCI904TNCP



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703

TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING CODES**

ISSUE DATE: PROJECT No.: 1350999:57 DIVISION MGR.: SEE BELOW

DIVISION REVISIONS NCI9022NCP/ 03/15/19 / CTD

DIVISION REVISIONS NC19028NCP/ 04/22/19 / FAE

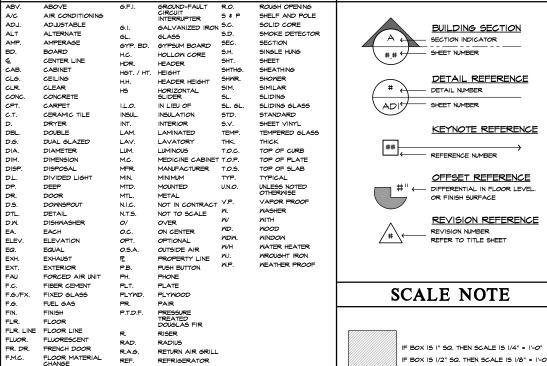
PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

SHEET:

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES



ABBREVIATIONS

RE/S

FOOTING

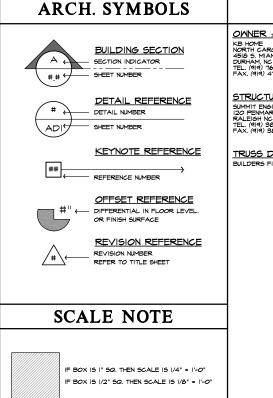
GAR. DISP. GARBAGE DISPOSAL

GAUGE

RE-SAWN

REVERSE

ROOM



EB HOME NORTH CAROLINA DIVISION 4518 5. MIAMI BLVD. SUITE 180 DURHAM, NC 2T103 TEL. (191) 168-1986 FAX. (919) 472-0582 STRUCTURAL ENGINEER: SUMMIT ENGINEERING 120 PENMARC DRIVE, SUITE 108 RALEIGH NC, 27603 TEL. (919) 380-4991 FAX. (919) 380-4993 TRUSS DESIGN BUILDERS FIRST SOURCE

CONSULTANTS

ALL EXPOSED PORTIONS OF CONCRETE SLAB FOUNDATIONS ARE TO BE 'PARGED (TEXTURED) AND PAINTED TO MATCH THE

GENERAL REQUIREMENTS

- THE WORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM.
- CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS:
 - ALL LAWS, STATUTES, THE MOST RECENT BUILDING CODES, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF A PUBLIC AUTHORITIES HAVING JURISOLICITION OFFER OWNER, CONTRACTOR, ANY SUBCONTRACTOR, THE PROJECT, THE PROJECT STIE, THE WORK, OR THE PROSECUTION OF THE WORK.
- THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING TO SAFETY.
- THE FAIR HOUSING AMENDMENTS ACT, THE AMERICANS WITH DISABILITIES ACT, AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING THERETO.
- CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION DOCUMENTS AND INFORMATION FURNISHED BY OWNER, AND SHALL PROMPTLY REPORT IN WRITING TO OWNERS REPRESENTATIVE ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS OR INCONSISTENCIES WITH APPLICABLE CODE REQUIREMENTS OR DESERVED BY THE CONTRACTOR.
- IF CONTRACTOR PERFORMS WORK WHICH HE KNOWS OR SHOULD KNOW IS CONTRARY TO APPLICABLE CODE REQUIREMENTS, WITHOUT THE AGREEMEN OF OWNER, CONTRACTOR SHALL BE RESPONDIBLE FOR SUCH WORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, WITHOUT LIMITATION, THE COSTS OF CORRECTING DEFECTIVE WORK.
- CONTRACTOR SHALL PROVIDE CERTIFICATES OF INSURANCE ACCEPTABLE TO OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS, AND CAREFULLY COMPARE WITH THE CONSTRUCTION DOCUMENTS SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO CONTRACTOR BEFORE COMMENCING THE MORK. ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN WRITING TO THE OWNER.
- CONTRACTOR SHALL PROMPTLY NOTIFY OWNER'S REPRESENTATIVE THE WORK THAT THE CONSTRUCTION DOCUMENTS ARE NOT IN COM-PLIANCE WITH APPLICABLE CODE REQUIREMENTS.
- BY SUBMITTAL OF BID. CONTRACTOR WARRANTS TO OWNER THAT ALL MATERIALS AND EQUIPMENT TO BE FIRMISHED ARE NEW WILESS NOTED OTHERWISE AND ALL WORK WILL BE OF GOOD QUALITY AND FREE FROM FAULTS AND DEFECTS.
- SUB-CONTRACTORS SHALL INSURE THAT ALL MORK IS DONE IN A PROPESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTOR'S PERFORMANCE. SUB-CONTRACTOR'S AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONTRER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAR OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUB-CONTRACTOR WORKMANSHIP SHALL BE OF GUALLTY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT NORKMANSHIP AT ANY TIME, AND CORRECTIONS NEEDED TO ENHANCE THE GUALITY OF BUILDING WILL BE DONE IMMEDIATELY. EACH SUBCONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HISHERS SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LIETT BY OTHER SUB-CONTRACT ORCORN. SUB-CONTRACTORS SHALL INSURE THAT ALL WORK IS DONE IN A
- APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLOWABLE FAILURE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGNOUS MUST BE REFERRED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION
- ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THESE PLANS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY OWNER UNLESS STIPULATED OTHERWISE.
- ALL TRADE NAMES AND BRAND NAMES CONTAINED HEREIN ESTABLISH QUALITY STANDARDS. SUBSTITUTIONS ARE PERMITTED, WITH PRIOR APPROVAL BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S AND BUILDER'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED.
- CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ON ANY OR ALL SHEETS MAY BE SUBJECT TO REVIEW. THIS REVIEW MAY RESULT IN CHANGES WHICH MAY BE MADE TO THE PLANS PRIOR TO THE ISSUANCE OF THE FINAL CONSTRUCTION SET WHICH WILL CONTAIN NO "BID SET" DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ARE NOT TO BE CONSTRUCTION SET WHICH THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH.
- ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS NOTED OTHERWISE.
- TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
- SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR PITS, TRENCHES, ROOF OPENINGS, DEPRESSIONS, ETC. NOT SHOWN ON THE OTHER DRAWINGS.
- 18. THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED ON OTHER WORK

SITE WORK

- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTH/ORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., AND BURIED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES. IF ANY SUCH ITEMS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY
- 2. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY
- REFER TO THE SOILS REPORT AS PREPARED BY THE GEOTECHNICAL
- 4. REFER TO CIVIL ENGINEER'S CURRENT GRADING AND PLOT PLANS.

SITE WORK (continued)

- REFER TO THE LANDSCAPE ARCHITECT'S CURRENT GRADING PLAN AND CONSTRUCTION DOCUMENTS.
- ALL FOOTINGS SHALL REST ON FIRM NATURAL SOIL OR APPROVED COMPACTED FILL. REFER TO GEOTECHNICAL REPORT.
- EXCAVATIONS FOR FOOTINGS SHALL BE MADE TO THE WIDTH, LENGTH, AND DEPTH REQUIRED AND FINISHED WITH LEVEL BOTTOMS.
- EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER.
- WHERE EXCAVATIONS ARE MADE TO A DEPTH GREATER THAN INDICATED, SUCH ADDITIONAL DEPTH SHALL BE FILLED WITH CONCRETE AS SPECIFIED FOR FOOTINGS.
- FILL MATERIALS SHALL BE FREE FROM DEBRIS, VEGETABLE MATTER AND OTHER FOREIGN SUBSTANCES.
- ALL FINISH GRADES TO DRAIN AWAY FROM THE BUILDING FOOTINGS
- 12. THERE SHALL BE NO ON-SITE WATER RETENTION.
- THERE SHALL BE NO DRAINAGE TO ADJACENT PROPERTY
- FOR ONGITE CONTSPUCTION, PLANS TO COMPLY WITH NECESSARY INSPECTIONS APPROVED BY THE BUILDING OFFICIAL.
- THE REQUIREMENTS IN THESE NOTES ARE THE MINIMUM THAT SHALL BE MET. REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE REQUIREMENTS SHOWN HERE SHALL BE MET.

CONCRETE

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRETE FOUNDATIONS.
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH AS PRESCRIBED IN THE N.C.-R, AS WELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R
- MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE
- THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI SIS SECTION 5.10.
- THE CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, SECTION 5.11.
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND REMOVED.
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 318, SECTION 6.3, ARE PERMITTED TO BE EMPEDDED IN CONCRETE WITH APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL.
- CONSTRUCTION JOINTS INCLUDING THEIR LOCATION SHALL COMPLY WITH THE PROVISIONS OF ACI 318, SECTION 6.4.
- ALL STEEL REINFORCING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE N.C.-R
- TOP OF CONCRETE SLABS TO BE A MINIMUM 4" W/ MASONRY VENEER 6" ELSEWHERE (8" H.J.D.) ABOVE FINISH GRADE.
- FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS ALL ALIMPOPACIPIEM ; CONDUIT, DUTLET BOXES, ANCHORS, HANGERS, SLEEVES, BOLTS OR OTHER EMBEDDED MATERIALS AND ITHEM MUST BE SECURED AND APPROPRIATELY FASTENED IN THEIR PROPER LOCATIONS PRIOR TO THE PLACEMENT OF CONCRETE. SUB-CONTRACTOR SHALL VERIFY INSTALLATION OF HOLD-DOWNS, ANCHOR BOLTS, PA STRAPS, AND OTHER ANCHORAGE MATERIAL AND ITEMS PRIOR TO PLACEMENT OF CONCRETE.
- IS. POST-TENSION SLABS, IF APPLICABLE:
- POINT AND LINE LOADS FROM STRUCTURE ABOVE TO BE PROVIDED TO POST-TENSION ENGINEER PRIOR TO POST-TENSION DESIGN.
- ANCHOR BOLTS AND OTHER HARDWARE TO BE SHOWN ON POST-TENSION PLANS TO AVOID MIS-LOCATION OF HARDWARE AND POSSIBLE FIELD FIXES WHICH MAY CUT TENDONS.

MASONRY

- ALL MASONRY DESIGN SHALL FOLLOW THE REQUIREMENTS OF THE CURRENT ADOPTED CODES.
- ANCHORED MASONRY VENEER SHALL COMPLY WITH THE PROVISIONS OF N.C.-R, AND SECTIONS 6.1 AND 6.2 OF
- STONE VENEER UNITS NOT EXCEEDING 5 INCHES IN THICKNESS SHALL BE ANCHORED DIRECTLY TO MASONRY, CONCRETE OR TO STUD DE ANGHORED DIRECTLY TO MASONRY, CONCRETE OR TO ST CONSTRUCTION BY ONE OF THE APPROVED METHODS LISTED IN THE N.C.-R
- MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C 270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH THE N.C.-R AND SHALL MEET THE PROPORTION SPECIFICATIONS
- GROUT SHALL CONSIST OF FIBER CEMENT MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C 476 AND THE PROPORTION SPECIFICATIONS
- AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK CONFORMING TO A.S.T.M. C-144-04 (MASONRY MORTAR, MORTAR) AND
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO A.S.T.M. C 150
- 8. ALL BRICK SHALL CONFORM TO A.S.T.M. C 216, GRADE MW
- UNLESS SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID
- IO. ANCHORS, TIES AND WIRE FABRIC SHALL CONFORM TO N.C.-R.
- ANCHOR TIES AND WIRE FABRIC FOR USE IN MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE N.C.-R.

METALS

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATIONS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO AISC/CRED
- ANCHOR RODS SHALL BE SET ACCURATELY TO THE PATTERN AND DIMENSIONS CALLED FOR ON THE PLANS. THE PROTRUSION OF THE THREADED ENDS THROUGH THE CONNECTED MATERIAL SHALL BE SUFFICIENT TO FULLY ENGAGE THE THREADS OF THE NITS, BUT SHALNOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS.
- FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED MOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILCON BRONZE OR COPPER VERIFY ACCEPTABLE FASTENERS FER CHEMICALS USED IN PRESSURE PRESERVITIVELY TREATED MOOD W N.C.-R. FASTENINGS FOR WOOD FOUNDATIONS SHALL BE AS REGUIRED IN AF4PA TECHNICAL REPORT NO. 7.

WOOD & FRAMING

- THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME MOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R
- CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE RSO2.1.
- ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R
- LUMBER AND PLYWOOD REQUIRED TO BE PRESSURE PRESERVATIVELY TREATED IN ACCORDANCE WITH THE N.C.-R AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF THE PRODUCT AND THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLES WITH THE REQUIRENENTS OF THE AMERICAN LUMBER STANDARD COMMITTEE TREATED WOOD PROGRAM.
- ALL LUMBER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS SPECIFICALLY INDICATED AS NET SIZE.

GLUE LAMINATED LUMBER

- REFER TO THE STRUCTURAL ENGINEER'S CURRENT NOTES, CALCULATIONS, AND SPECIFICATIONS.
- GLUED LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN AITC AIGO, I AND ASTM D 3737.

PROTECTION AGAINST DECAY & TERMITE

- IN AREAS SUBJECT TO DECAY DAMAGE AS ESTABLISHED BY THE N.C.-R THE FOLLOWING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AWAP UI FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE, PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA UI
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN IB INCHES, OR MOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED PROUND IN CRANL SPACES OR UNEXCAVATED AREAS LOCATED MITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
- ALL EXTERIOR SILLS &PLATES THAT REST ON CONCRETE OR MASONRY 5. EXTERIOR FOUNDATION WALLS.
- SILLS AND SLEEPERS ON A CONCRETE OR MASONRY, UNLESS THE SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND IS SEPARATED FROM THE GROUND BY AN APPROVED IMPERVIOUS MOISTURE BARRIER.
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- MOOD SIDING AND SHEATHING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND.
- WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE MEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS BY ANIMPERVIOUS MOISTURE BARRIER.
- MOOD FURRING STRIPS OR OTHER MOOD FRAMING MEMBERS ATTACHED 2. DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING 5. STRIPS OR FRAMING MEMBERS.
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLIDING POSTS, GUARDRAILS, PICKETS, STEPS AND FLOOR STRUCTURE. COVERINGS THAT WOULD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS ARE ALLOWED
- IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

WOOD & FRAMING (continued)

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE N.C.-R
- ROOF SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- ROOF SHEATHING SHALL BE IN ACCORDANCE WITH THE N.C.-R
- FLOOR SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- STRUCTURAL FLOOR SHEATHING SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R
- REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS, AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR PLYMODOF FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS.
- ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER, AND BE FASTENED TO, COMMON STUDS. HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER, AND BE FASTENED TO, COMMON BLOCKING OF A MINIMUM OF I 1/2 INCH THICKNESS.
- WHERE APPLICABLE, REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED STRENGTH, GRADE, AND THICKNESS OF PLYMOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE.
- IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING HARD BOARD OR ALLMINUM AS A SOFFIT MATERIAL, THE SOFFIT MATERIAL SHALL BE SECURELY ATTACHED TO FRAMING MEMBERS AND USE AN UNDERLAYMENT MATERIAL OF EITHER FIRE RETARDANT TREATED WOOD, 23/92 INCH MOOD SHEATHING OR 5/6 INCH GYPSUM BOARD. VENTING REQUIREMENTS APPLY TO BOTH SOFFIT AND UNDERLAYMENT AND SHALL BE PER SECTION ROOF OF THE NORTH CAROLINA RESIDENTIAL CODE. WHERE THE PROPERTY LINE IS OF PEET OR MORE FROM THE SUILDING FACE, THE PROVISIONS OF THIS CODE SECTION DO NOT APPLY.

FLOOR FRAMING

- ALL FLOOR JOISTS SHALL BE DESIGNED I-JOIST WOOD FLOOR TRUSSES. REFER TO MANUFACTURER FOR ALL LAYOUTS AND CALCULATIONS.
- REFER TO THE STRUCTURAL ENGINEER'S CURRENT PLANS & CALCULATIONS FOR SIZE, SPACING, AND ANCHORAGE OF ALL FLOOR JOISTS, SIZE, LOCATION, AND ANCHORAGE OF ALL FLOOR BEAMS AND HEADERS, AND ALL RELATED FRAMING ISSUES.

ROOF FRAMING

- ROOF FRAMING SHALL BE BY PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERWISE.
- WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R
- THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION.
- THE BRACING OF WOOD TRUSSES SHALL COMPLY TO THEIR APPROPRIATE ENGINEERED DESIGN. PER THE N.C.-R
- TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A RESISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.G. HYAC EQUIPMENT, WATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSSES SHALL NOT BE PERMITTED WITHOUT WRITTEN VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.
- ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT.
- MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATION.

WALL FRAMING

- THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE WITH THE N.C.-R
- STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR TO THE WALL.
- NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EACH CORNER OF AN EXTERIOR WALL.
- WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS, END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES, JOINTS NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES NOWINAL THICKNESS AND VE A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS. SEE
- WHERE JOISTS, TRUSSES OR RAFTERS ARE SPACED MORE THAN 16 INCHES ON CENTER AND THE BEARING STUDS BELOW ARE SPACED 24 INCHES ON CENTER, SUCH NEMBERS SHALL BEAR WITHIN 5 INCHES OF THE STUDS BENEATH, SEE EXCEPTIONS.
- STUDS SHALL HAVE FULL BEARING ON NOMINAL 2 BY OR LARGER PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS.
- INTERIOR NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED INITERIOR NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCT WITH 2-INCH-BY-3-INCH STUDS SPACED 24 INCHES ON CENTER OR, WHEN NOT A PART OF A BRACED WALL LINE, 2-INCH-BY-4-INCH FLAT STUDS SPACED IG INCHES ON CENTER, INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE INTERIOR NONREARIN SHALL BE FIREBLOCKED IN ACCORDANCE WITH THE N.C.-R

WOOD & FRAMING (continued)

- DRILLING AND NOTHCING OF STUDS SHALL BE IN ACCORDANCE WITH THE
 - NOTHCING. ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS MIDTH. STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD MIDTH. NOTCHING OF BEARING STUDS SHALL BE ON ONE EDGE ONLY AND NOT TO EXCEED ONE-FOURTH THE HEIGHT OF THE STUD. NOTCHING SHALL NOT OCCUR IN THE BOTTOM OR TOP 6 INCHES OF BEARING STUDS.
 - DRILLING, ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO MORE THAN 60 PERCENT OF THE STUD MIDTH, THE EDGE OF THE HOLE IS NO MORE THAN 5/0" INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOSER THAN 6 INCHES FROM AN ADJACENT HOLE OR NOTCH. HOLES NOT EXCEEDING 3/4 INCH DIAMETER CAN BE AS CLOSE AS I I/2 INCHES ON CENTER SPACING, STUDD LOCATED IN EXTERIOR MALLS OR BEARING PARTITIONS DRILLED OVER 40 PERCENT AND UP TO 60 PERCENT SHALL ALSO BE DOUBLED NITH NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS BORED.
 - CUTTING AND NOTCHING OF STUDS SHALL BE PERMITTED TO BE INCREASED TO 65 PERCENT OF THE NIDTH OF THE STUD IN EXTERIOR AND INTERIOR MALLS AND BEARING PARTITIONS, PROVIDED THAT ONE OF THE FOLLOWING CONDITIONS ARE MET:

 (a) THE WALL SECTION IS REINFORCED WITH 1/2-INCH EXTERIOR GRADE PLYWOOD OR EQUIVALENT REINFORCHENT ON THE NOTCHED SIDE OF THE WALL. PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO CEILING AND AT LEAST ONE STUD PIRTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.

 (d) THE EXTERIOR WALLS OF A KITCHEN MAY BE REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL. PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO COUNTER-TOP HEIGHT AND AT LEAST ONE STUD PIRTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTIALY IN AN EXTERIOR THE PROPERTY OF THE TOP PLATE B MORE THAN 50 PERCENT OF ITS MIDTH AS GALVANIZED METAL THE OF NOT LESS THAN 50 PERCENT OF ITS MIDTH A GALVANIZED METAL THE OF NOT LESS THAN 6.054 INCH THICK AND 11/2" INCHES MIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT IOU NAILS HAVING A MINIMUM LENGTH OF I 1/2 INCHES (38 MM) AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING
- HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-R.
- PROVIDE LATERAL BRACING PER THE N.C.-R.
- FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- UNLESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR VILLED COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMUM REQUIREMENTS OF THIS CODE, ALL STUD PARTITIONS OR WALLS MITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS RATIO EXCEEDING SO SHALL HAVE BRIDGHIS NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME MIDTH AS THE STUDS FITTED SNUSLY AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

FIRE BLOCKS AND DRAFT STOPS

- FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND A ROOF SPACE, FIREBLOCKING SHALL BE REVIDED IN WOOD-FRAME CONSTRUCTION IN THE LOCATIONS SPECIFIED IN THE N.C.-R
- FIRE BLOCKING SHALL CONSIST OF 2 INCHES NOMINAL LUMBER, OR TWO THICKNESSES OF I-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS, OR ONE THICKNESS OF 23/92-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 23/92-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 3/4-INCH PARTICLEDARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEDARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEDARD WITH JOINTS BACKED BY 3/4-INCH CEMENT-BASED WILL PARTICLEDARD, I/2-INCH GYPSOM BOARD, OR I/4-INCH CEMENT-BASED WILL PARTICLEDARD.
- BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATTERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY PETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIRE BLOCK.
- BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE FERMITTED FOR COMPLIANCE WITH THE 10 FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROMS OF STUDS OR STAGGERED STUDS. LOOSE FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK WILESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE IT'S ABILLITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.
- WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SOUARE FEET, DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO AFPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:
- CEILING IS SUSPENDED UNDER THE FLOOR FRAMING

FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS.

HANDRAIL AND GUARDRAIL GUARDRAIL OF 36" HIGH MIN. SHALL BE PROVIDED WHERE FINISHED GRADE OR FLOOR BELOW RAISED AREA EXCEEDS 30".

HANDRAIL AT STAIRS SHALL BE PROVIDED WHEN 4 OR MORE STAIR RISERS

HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

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. **2018 NORTH** CAROLINA STATE BUILDING **CODES**

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THERMAL & MOISTURE PROTECTION

- PROVIDE ALL FLASHING, COUNTER-FLASHING, BITUTHENE, MEMBRANE WATERPROOFING, SHEET METAL, CAULKING, SEALANTS, ELASTOMERIC WALKING SURFACES, AND RAIN GUITTERS AND/OR DIVERTERS WHERE REQUIRED, TO MAKE WORK COMPLETELY WATERPROOF.
- "CORROSION RESISTANCE" SHALL MEAN THE ABILITY OF A MATERIAL TO WITHSTAND DETERIORATION OF IT'S SURFACE OR IT'S PROPERTIES WHEN EXPOSED TO IT'S ENVIRONMENT.
- PROVIDE A MINIMUM 2 INCH DROP FROM FINISHED INTERIOR FLOOR ELEVATION TO THE HIGHEST FLOOR ELEVATION OF ANY ADJOINING DECK OR BALCONY.
- ELASTOMERIC OR MEMBRANE DECK COATINGS SHALL BE INSTALLED FER MANUFACTURERS SPECIFICATIONS AT DECKS AND BALCONIES. COLOR, FINSH, AND DETAILING SHALL BE APPROVED BY OWNER/ BUILDER AND ARCHITECT.
- UNLESS DESIGNED TO DRAIN OVER DECK EDGES, DRAINS AND OVER-FLOMS OF ADEQUATE SIZE SHALL BE INSTALLED AT THE LOW POINTS OF THE DECK OR BALCONY.
- FOUNDATION WALLS WHERE THE OUTSIDE GRADE IS HIGHER THAN THE INSIDE GRADE SHALL BE WATER-PROOFED AND DAMPPROOFED IN ACCORDANCE WITH THE N.C.-R
- PARAPET MALLS SHALL BE PROPERLY COPED MITH NONCOMBUSTIBLE, MEATHERPROOF MATERIALS OF A MIDTH NO LESS THAN THE THICKNESS OF THE PARAPET MALL. PARAPET COPING SHALL EXTEND 2" MINIMUM DOWN THE FACES OF THE PARAPET.

FLASHING

- ASTM C 1167.

 AS ALLED AT ALL OF THE LOCATIONS STATED IN N.C.-R.
- 2. AT ALL WINDOW AND DOOR OPENINGS USE FORTIFIBER WATER-RESISTIVE BARRIERS, I.C.C. ESR-1027, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR WALLS OR PENETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMUM O.019-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED.
- ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE ALL SHE! I FELL YONG SHALL BE TENTIFIED IN PROCHABILITY WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERPROOFING AND RESTORATION INSTITUTE'S (SWR.I.) GUIDE - "SEALANTS." THE PROFESSIONAL'S GUIDE".
- SHEET METAL SHALL BE STEEL SHEET, HOT-DIPPED, TIGHT COATED AND GALVANIZED, CONFORMING TO ASITM, AS25 AND SHALL BE A NUMBER 24 SHEET METAL GAGE UNLESS OTHERWISE NOTED IN THESE NOTES, PLANS, OR MANUFACTURER'S SPECIFICATIONS.
- SHEET ALUMINUM SHALL CONFORM WITH FEDERAL SPECIFICATIONS QQ-A-359 AND A.S.T.M. B209 ALLOY 3003.
- FABRICATE SHEET METAL WITH FLAT LOCK SEAMS AND SOLDER MITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALLMINUM SEAMS WITH EPOXY METAL SEAM CEMENT. WHERE REQUIRED FOR STRENGTH, RIVET SEAMS AND JOINTS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY WATER-PROOF, MEATHER RESISTANT INSTALLATION.
- ASPHALT SHINGLES SHALL HAVE SELF-SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR D 3462.
- BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMM MOMINAL, O/014-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING MEIGHING A MINIMM OF TI POUNDS PER IOO SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMM NOMINAL O/014-INCH THICKNESS
- VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING SHINGLES, VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED AS STATED PER THE N.C.-R
- A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES MIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE TLASHING AT THE INTERSECTION OF CRICKET OR SADDLE AND
- FLASHING AGAINST A VERTICAL SIDEMALL SHALL BE BY THE STEP-FLASHING METHOD PER NC-R.
- FLASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACK ASPHALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS
- AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THE N.C.-R. AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NHERE OF METAL, SHALL NOT BE LESS THAN O.O.I. INCH (NO. 26 GALVANIZED
- 16. VALLEY FLASHING FOR CONCRETE TILE ROOFS SHALL BE AS REQUIRED

ROOFING MATERIALS

- ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION OF ROOF COVERINGS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE N.C.-R
- ROOFS AND ROOF COVERINGS SHALL BE OF MATERIALS THAT ARE COMPATIBLE WITH EACH OTHER AND WITH THE BUILDING OR STRUCTURE TO WHICH THE MATERIALS ARE APPLIED.
- ROOF COVERING MATERIALS SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED IN THE N.C.-R IN THE ABSENCE OF APPLICABLE STANDARDS OR WHERE MATERIALS ARE OF QUESTIONABLE SUITABILITY, TESTING BY AN APPROVED TESTING AGENCY SHALL BE REQUIRED BY THE BUILDING OFFICIAL TO DETERMINE THE CHARACTER. QUALITY, AND LIMITATIONS OF APPLICATION OF THE MATERIALS.

THERMAL & MOISTURE PROTECTION (continued)

- ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TESTING AGENCY LABELS WHEN REQUIRED. BULK SHIPMENTS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER
- COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE REQUIREMED OF THE N.C.-R
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4564, TYPE I, OR ASTM D 6757. SELT-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 14TO
- ASPHALT SHINGLES SHALL COMPLY WITH ASTM D 225 OR ASTM D 3462.
- FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS STEEL, ALUMINUM, OR COPPER ROOFING NAILS, MINIMUM 12 GAGE SHANK WITH A MINIMUM 3/3 INCH DIAMETER HEAD, ASTM F 1661, OF A LENSTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM OF 3/4 INCH INTO THE ROOF SHEATHING. MHERE THE ROOF SHEATHING IS LESS THAN 3/4 INCH THICK, THE FASTENERS SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F 1661.
- ASPHALT SHINGLES SHALL HAVE THE MINIMUM NUMBER OF FASTENERS REQUIRED BY THE MANUFACTURER. FOR NORMAL APPLICATION, ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE PER N.C.-R.
- IO. UNDERLAYMENT FOR ASPHALT SHINGLES SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R
- THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF N.C.-R CLAY ROOF TILE SHALL COMLY WITH ASTM C 1167.
- SLOPES OF 2 1/2 UNITS VERTICAL IN I2 UNITS HORIZONTAL (2-1/2:12)
 OR GREATER. FOR ROOF SLOPES FROM 2 1/2 UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (2-1/2:12) TO FOUR UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (4-1/2), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH THE N.C.-R.
- UNDERLAYMENT FOR CLAY AND CONCRETE TILE SHALL CONFORM WITH ASTM D 226, TYPE II; ASTM D 2626 TYPE I; OR ASTM D 6380 CLASS M MINERAL SURFACED ROLL ROOFING.
- 15. CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- NAILS SHALL BE CORROSION-RESISTANT AND NOT LESS THAN II GAGE, NAILE SHALL BE CONNOSION-RESISTANT AND NOT LESS THAN II GASE, SIG-INCH HEAD, AND OF SUFFICIENT LENGTH TO FENETRATE THE DECK A MINIMUM OF SIA-INCH OR THROUGH THE THICKNESS OF THE DECK, WHICHEVER IS LESS. ATTACHING WIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SHALLER THAN O.OBD-INCH. FERIMETER FASTENING AREAS INCLUDE THREET TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R
- TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROOF SLOPE, UNDERLAYMENT SYSTEM, AND TYPE OF TILE BEINS INSTALLED PER THE N.C.-R.
- THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF A MINIMUM OF ONE-FOUTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE)
 FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS THAT SHALL
 HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN
 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
- 21. BUILT-UP ROOF COVERING MATERIALS SHALL COMPLY WITH THE STANDARDS PER THE N.C.-R

- SEE FINISHES IN THESE GENERAL NOTES FOR EXTERIOR PLASTER
- MATERIALS USED FOR THE CONSTRUCTION OF EXTERIOR WALLS SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R
- EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A MEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL ENVELOPE SHALL ENVELOPE SHALE EXTERIOR WALL ENVELOPE SHA BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR YENER AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THE ASSEMBLY TO THE EXTERIOR, PROTECTION AGAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED.
- ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS, SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, MITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES, WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES, THE FELT OR OTHER APPROVED MATERIAL SHALLS END TERMINATED AT PENETRATIOS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE.
- FIBER CEMENT SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R. AND COMPLYING WITH ASTM D 3674 SHALL BE FERMITTED ON EXTERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREA WHERE THE ULTIMATE WIND SPEED SPECIFIED DOES NOT EXCEED 100 MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET IN EXPOSURE C, INVERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS 190 MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 FT, DATA INDICATING COMPLIANCE MUST BE SUBMITTED. FIBER CEMENT SIDING SHALL BE SECURED TO BUILDING HOT PROVIDE WEATHER PROTECTION FOR THE EXTERIOR WALLS OF THE BUILDING.
- THE N.C.-R FIBER CEMENT SIDING SHALL BE APPLIED TO CONFORM WITH THE WEATHER-RESISTIVE BARRIER REQUIREMENTS FIBER CEMENT SIDING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED
- FIBER CEMENT SIDING FASTENERS AND ACCESSORIES SHALL MEET THE
- EXTERIOR WALLS OF WOOD CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE N.C.-R

THERMAL & MOISTURE PROTECTION (continued)

- HARDBOARD SIDING SHALL CONFORM TO THE REQUIREMENTS OF AHA AISS,6 AND, WHERE USED STRUCTURALLY, SHALL BE SO IDENTIFIED BY THE LABEL OF AN APPROVED AGENCY.
- WOOD VENEERS ON EXTERIOR WALLS OF BUILDINGS OF TYPES I, II, III, AND IV CONSTRUCTION SHALL BE NOT LESS THAN I-INCH NOMINAL THICKNESS, 0.438-INCH EXTERIOR HARDBOARD SIDING OR 0.375-INCH EXTERIOR-TYPE WOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIIDG, TYPE A, MINIMUM GRADE II. LAP SIDING SHALL BE LAPPED A MINIMUM OF II/4 INCHES (32 MM) AND LAP SIDING SHALL BE LAPPED A MINIMUM OF II/4 INCHES (32 MM) AND LAP SIDING SHOT HAVING TONGUE-AND-GROOVE END JOINTS SHALL HAVE THE ENDS SEALED WITH CAULKING, INSTALLED WITH AN H-SECTION JOINT COVER, LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY WITH INC-R. LAP SIDING COURSES MAY BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCEALED, ACCORDING TO NC-R OR APPROVED MANUFACTURERS' INSTALLATION INSTRUCTIONS.

INSULATION

- INSULATING MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPER-PERIVEABLE MEMBRANES, INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROPE-CEILING ASSEMBLIES, ROPE-CEILING ASSEMBLIES, CROPE AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 28 WITH AN ACCOMPANYING SMOKEDEVELOPED INDEX NOT TO EXCEED 280 WHEN YEAR TO MAKEN THE SMOKEDEVELOPED INDEX NOT TO EXCEED 280 WHEN YEAR TO MAKEN THE SMOKED THE SMOKED
- DUCT INSULATION MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS OF THE N.C.-R
- INSULATION AND COYERING ON PIPE AND TUBING SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450. SEE EXCEPTIONS.
- ALL EXPOSED INSULATION MATERIALS INSTALLED ON ATTIC FLOORS SHALL HAVE A CRITICAL RADIANT FLUX OF NOT LESS THAN 0.12 WATT PER SQUARE IT. CENTIMETER PER N.C.-R TESTS FOR CRITIAL RADIANT FLUX SHALL BE MADE IN ACCORDANCE WITH ASTM E 970.
- THE USE OF ABOVE DECK THERMAL INSULATION SHALL BE PERMITTED PROVIDED SUCH INSULATION IS COVERED WITH AN APPROVED ROOF COVERING AND PASSES FM 4450 OR UL 1256 PER N.C.-R.
- CELLULOSE LOOSE-FILL INSULATION SHALL COMPLY WITH CPSC 16 CELLOSE LOGAND 1404. EACH PACKAGE OF SUCH INSULATING MATERIAL SHALL BE CLEARLY LABELED IN ACCORDANCE WITH CPSC 16 CFR, PARTS 1204 AND 1404.
- INSULATION IN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAVIL SPACES OR ATTICS SHALL BE EITHER OF THE BLOWN-IN CELLULOSE TYPE OR FIBERGLASS BATTS OR BLANKET TYPE PER BUILDER'S SPECIFICATIONS.
- THE ENERGY EFFICIENCY REQUIREMENTS INCLUDING I.E.C.C. BUT NOT LIMITED TO INSULATION "R" VALUES, PERCENTAGE OF GLAZING "U" VALUES, ETC. SHALL BE DETERMINED BY THE ADPTED STATE AND LOCAL ENERGY CODE EQUIREMENTS. REFER TO MECHANICAL PLANS FOR SPECIFICATIONS.
- THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED WITH AN AIR BARRIER SYSTEM TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. FOR ALL HOMES, WHERE PRESENT, THE FOLLOWING SHALL BE CAULKED, GAKETED, WEATHERSTRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT WITH APPENDIX E-23 AND E-24 OF THE KC-R.

 I. BLOCKING AND SEALING FLOOR/CEILING SYSTEMS AND INDER KINES MALLOR CONSISTENT WITH APPENDIX E-25 AND E-24 OF THE KC-R. KNEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE. 2. CAPPING AND SEALING SHAFTS OR CHASES, INCLUDING FLUE 31. CAPPING AND SEALING SOFFIT OR DROPPED CEILING AREAS
- FRAMED CAVITY WALLS, THE EXTERIOR THERMAL ENVELOPE WALL INSULATION SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT MITH THE BUILDING ENVELOPE AIR BARRIER, INSULATION SHALL BE SUBSTANTIALLY FREE FROM INSTALLATION GAPS, VOIDS, OR COMPRESSION, FOR FRAMED WALLS, THE CAVITY INSULATION SHALL BE ENCLOSED ON ALL SIDES WITH A RIGID MATERIAL OR AN AIR BARRIER MATERIAL, WALL INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN NSTALLED ON EXTERIOR WALLS PRIOR TO BEING COVERED BY SUBSEC CONSTRUCTION, CONSISTENT WITH APPENDIX E-2.3 AND E-2.4 OF NC-R:
- I. TUBS
 2. SHOWERS
 3. STAIRS
 4. FIREPLACE UNITS
 ENCLOSURE OF WALL CAVITY INSULATION ALSO APPLIES TO WALLS THAT
 ADJOIN ATTIC SPACES BY PLACING A RIGID MATERIAL OR AIR BARRIER
 MATERIAL ON THE ATTIC SIDE.

DOORS & WINDOWS

- SEE FLOOR PLANS AND ELEVATIONS FOR SIZES AND TYPES OF DOORS AND MINDOWS AND FOR ANY DIVIDED LITE PATTERNS. COLORS SHALL BE APPROVED BY THE BUILDER AND ARCHITECT.
- OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 13/6 INCHES IN THICKNESS, SOLID OF HONEYCOMB CORE STELL DOORS NOT LESS
- NO DOUBLE FRENCH DOORS SHALL BE USED UNLESS THERE IS A SUFFICIENT OVERHANG OR COVERED PATIO COVERING THESE DOORS. NO DOUBLE WOOD FRENCH DOORS SHALL BE USED IN ANY CASE.
- PROVIDE SECURITY HARDWARE FOR ALL DOORS AND WINDOWS TANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
- ALL AUTOMATIC GARAGE DOOR OPENERS REQUIRE THE INCLUSION OF A PHOTOELECTRIC SENSOR, EDGE SENSOR OR SOME OTHER SIMILAR DEVICE FOR REMOTE OPERATION AND AS A SAFETY PRECAUTION TO PREVENT THE DOOR FROM CLOSING WHEN SOMETHING IS BLOCKING THE PATH OF THE DOOR. SEE MANUFACTURER'S
- ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL MEET THE AIR INFILTRATION STANDARDS OF THE CURRENT AMERICAN
 FIBER CEMENT SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED INATIONAL STANDARDS INSTITUTE A.S.T.M. E283-73 WITH A PRESSURE DIFFERENTIAL OF 1.57 POUNDS PER SQUARE FOOT AND SHALL BE CERTIFIED AND LABELED
 - BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPENABLE EMERGENCY ESCAPE AND RESCUE OPENING
 - WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE PROVIDED THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE
 - EMERGENCY ESCAPE AND RESCUE OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A

DOORS & WINDOWS (continued)

- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF ROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW.
- L EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM TOLEAR OPENING HEIGHT OF 24 INCHES.
- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING WIDTH OF $20\,$ INCHES.
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM MITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE.
- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET, MITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. THE AREA OF THE MINDOW WELL SHALL ALLOW ENERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED PER THE N.C.-R. THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED DIMENSIONS OF THE MINDOW WELL.
- MINDOW WELLS MITH A VERTICAL DEPTH GREATER THAN 44 INCHES SHALL BE EQUIPPED MITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE MITH THE MINDOW IN THE FULLY OPEN POSITION.
- BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESULE OPENINGS, BULKHEAD ENCLOSURES, OR MINDOM WELLS THAT SERVE SUCH OPENINGS, PROVIDED THE MINIMUM NET CLEAR OPENING SIZE COMPLIES WITH THE NC.-R AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE FREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING
- ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH ESPE 19 TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

GLAZING & SAFETY GLAZING

- HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS, NATURAL VENTILATION SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED
- BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR MINDONS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPENABLE.
- EXCEPT AS INDICATED, EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PROVIDED WITH MANUFACTURER'S DESIGNATION SPECIFYING MHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD WITH MHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC-FIRED, LASER ETCHED, EMBOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT SEING DESTROYED. BEING DESTROYED.
- INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN HAZARDOUS LOCATIONS SHALL PASS THE TEST REQUIREMENTS OF CPSC 16 CFR, PART 1201. GLAZING SHALL COMPLY WITH CPSC 16.
- THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:
- GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING,
- SUDING AND BIFOLD DOORS
 SLIDING AND BIFOLD DOORS
 SLAING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL IN THE SAME
 PLANE AS A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN
 24-INCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM
 EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR MALKING
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
- 3.1 EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQUARE
- 3.2 BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.
- 3.3 TOP EDGE MORE THAN 36 INCHES ABOVE THE FLOOR
- ONE OR MORE WALKING SURFACES WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.
- GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOYE A MALKING SURFACE.
- GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SMIRMING POOLS, HOT TUBS AND SPAS PHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND MITHIN 60 INCHES HORIZONTALLY OF THE WATER'S EDGE. THIS ALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE
- GLAZING ADJACENT TO STAIRWAYS, LANDINGS AND RAMPS WITHIN 36 INCHES HORIZONTALLY OF A WALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.
- GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF STAIRWAYS WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60-INCH HORIZONTAL ARC LESS THAN 160 DEGREES FROM THE BOTTOM TREAD NOSING.
- HINGED SHOWER DOORS SHALL OPEN OUTWARD.
- GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE CALCULATIONS BASED ON A LOCALLY ADOPTED ENERGY CODE THE MODEL ENERGY CODE OR THE INTERNATIONAL ENERGY
- LOCATED MORE THAN 12 INCHES (1629 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED, OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENING PASSAGE OF A 4 INCH (IO2 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR

IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS

FINISHES

- GYPSUM WALLBOARD SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE NORTH CAROLINA RESIDENTIAL CODE AND ALL STATE AND LOCAL BUILDING CODES. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- MATERIALS. ALL SYPSIM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO A STM C 22, C 475, C 314, C 1002, C 1047, C 1176, C 1179, C 1279, C 1346, OR C 1659 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE NC.-R. ADMESIVES FOR THE INSTALLATION OF GYPSIM BOARD SHALL CONFORM TO ASTM C 557.
- GYPSUM BOARD MATERIALS SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN THE N.C.-R WHERE REQUIRED FOR FIRE PROTECTION, CONFORM TO THE N.C.-R
- INTERIOR GYPSUM BOARD SHALL NOT BE INSTALLED WHERE IT IS DIRECTLY EXPOSED TO THE WEATHER OR TO WATER.
- ALL EDGES AND ENDS OF GYPSUM BOARD SHALL OCCUR ON THE FRANNIS MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRANNIS MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALL BE IN MODERATE CONTACT EXCEPT IN CONCEALED SPACES WHERE FIRE-RESISTACE-RATED CONSTRUCTION, SHEAR RESISTANCE, OR DIAPHRAGM ACTION IS NOT REQUIRED, CEALED SPACES WHERE FIRE-RESISTACE-RATED CONSTRUCTION.
- EASTENERS AT THE TOP AND BOTTOM PLATES OF VERTICAL ASSEMBLIES FASIENCES AT THE TOP AND BOTTOM FLATES OF VERTICAL ASSEMBLIES, OR THE EDGES AND ENDS OF HORIZONTAL ASSEMBLIES PERFENDICULAR TO SUPPORTS, AND AT THE MALL LINE MAY BE OMITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE- RESISTIVE ASSEMBLIES, FASTENERS SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD.
- GYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NON-ABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C 1996, C 1175 OR C1275. USE OF WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PERMITTED ON CEILINGS WHERE FRAMING SPACING DOES NOT EXCEED 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/8-INCH-THICK GYPSUM BOARD WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT, GUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.
- WATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUNDITY.
- WHEN APPLYING A WATER-BASED TEXTURE MATERIAL. THE MINIMUM SYPSUM BOARD THICKNESS SHALL BE INCREASED FROM 3/6 INCH TO 1/2 INCH FOR I6-INCH ON CENTER FRAMING, AND FROM I/2 INCH TO 5/6 INCH FOR 24-INCH ON CENTER FRAMING OR I/2 INCH SAG-RESISTANT GYPSUM CEILING BOARD SHALL BE USED.

- ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIAL.
- BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION.
- WHERE LATH ON VERTICAL SURFACES EXTENDS BETWEEN RAFTERS OR OTHER SIMILAR PROJECTING MEMBERS, SOLID BACKING SHALL BE INSTALLED TO PROVIDE SUPPORT FOR LATH AND ATTACHMENTS.
- GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILINGS OR ROOF SOFFITS IT MAY BE USED AS BACKING FOR METAL LATH OR WIRE FABRIC LATH AND CEMENT PLASTER.
- UNLESS SPECIFIED OTHERWISE, ALL WALL COVERINGS SHALL BE SECURELY UNLESS SPECIFIED OF HERWISE, ALL WALL COVENINGS SHALL BE SECRELT FASTENED PER THE N.C.-R. OR NITH OTHER APPROVED ALIMINM, STAINLESS STEEL, ZINC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, WHERE THE BASIC MIND SPEED IS 110 MILES PER HOUR OR HIGHER, THE ATTACHMENT OF WALL COVERINGS SHALL BE DESIGNED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED AND ADJUSTED FOR HEIGHT AND EXPOSURE.
 - A MINIMUM O.019-INCH (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT MEEP SCREED OR PLASTIC MEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD MALLS IN ACCORDANCE WITH ASTM C 426. THE NEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAYED AREAS AND SHALL BE OF A TYPE THAT MILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE MEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE MEEP SCREED. A MINIMUM O.O.I9-INCH (NO. 26 GALVANIZED SHEET GAGE),

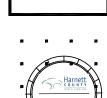
PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN THREE COATS (WHEN APPLIED OVER METAL LATH OR WIRE LATH AND SHALL BE NOT LESS THAN TWO COATS WHEN APPLIED OVER MASONRY, CONCRETE PRESSURE-PRESERVATIVE TREATED MOOD OR DECAY-RESISTANT WOOD OR SYPSUM BACKING. IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING MATERIAL OR IS COMPLETELY COVERALED, PLASTER APPLICATION NEED BE ONLY TWO COATS, PROVIDED THE TOTAL THICKNESS IS AS SET FORTH PER THE N.C.-R

ON WOOD-FRAME CONSTRUCTION WITH AN ON-GRADE FLOOR SLAB SYSTEM, EXTERIOR PLASTER SHALL BE APPLIED TO COVER, BUT NOT EXTEND BELOW LATH, PAPER AND SCREED.

THE PROPORTION OF AGGREGATE TO FIBER CEMENT MATERIALS SHALL BE AS SET FORTH PER THE N.C.-R

- ONLY APPROVED PLASTICITY AGENTS AND APPROVE AMOUNTS THEREOF MAY BE ADDED TO PORTLAND CEMENT. WHEN PLASTIC CEMENT IS USED, NO ADDITIONAL LINE OR PLASTICIZERS SHALL BE ADDED. HYDRATED LIME OR THE EQUIVALENT AMOUNT OF LINE PUTTY USED AS A PLASTICIZER MAY BE ADDED TO CEMENT PLASTER OR CEMENT AND LIME PLASTER IN AN AMOUNT NOT TO EXCEED THAT
- GYPSUM PLASTER SHALL NOT BE USED ON EXTERIOR SURFACES
- PLASTER COATS SHALL BE PROTECTED FROM FREEZING FOR A PERIOD OF NOT LESS THAN 24 HOURS AFTER SET HAS OCCURRED PLASTER SHALL BE APPLIED WHEN THE AMBIENT TEMPERATURE IS HIGHER THAN 40 DEGREES F (4 DEGREES C), UNLESS PROVISIONS ARE MADE TO KEEP CEMENT PLASTER WORK ABOVE 40 DEGREES (4 DEGREES C), PRIOR TO & DURING APPLICATION AND 48 HOURS
- COLOR AND FINISH TO BE SELECTED AND APPROVED BY OWNER/ BUILDER AND ARCHITECT
- A I-COAT EXTERIOR PLASTER SYSTEM SUCH AS "MAGNA WALL" I.C.C. NO. ER-4776. "EXPO FIBREWALL" I.C.C. NO. ER-4368. OR APPROVED EQUAL MAY BE USED IN LIEU OF A 3-COAT EXTERIOR





NORTH CAROLINA

01/26/202

50' SERIES KB HOME NORTH CAROLINA DIVISION

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2018 NORTH CAROLINA STATE BUILDING CODES

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ISSUE DATE: 09/11/18 PROJECT No.: 1350999:57 DIVISION MGR.:

REVISIONS: SEE BELOW " 2018 CODE UPDATE NCI90ISNCP/ 03/IS/I9 / CTD

DIVISION REVISIONS
NCI9022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE DIVISION REVISIONS NCI9047NCP/ 08/01/19 / FAE

DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA FRAMEWALK COMMENTS NCI9047NCP / 07-22-21 / KBA

243.2939-R

SHEET: GN₂ SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

MECHANICAL & PLUMBING

H.V.A.C.

- I. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE NORTH CAROLINA RESIDENTIAL AND MECHANICAL CODE. INSTALLATIONS OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY MITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL GAS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.Y.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERING MATERIALS OR EQUIPMENT.
- MHERE AIR CONDITIONING IS AN OPTIONAL FEATURE, HEATING SYSTEMS MUST BE DESIGNED AND DUCT WORK SIZED TO ACCOMMODATE FUTURE AIR CONDITIONING NEEDS.
- 4. MHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILLY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY, THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55 DEG, F (13 C) OR UP TO 85 DEG, F (29 C).
- 5. ALL DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH N.C.-R
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED.
- 8. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GAPAGE PER N. 4.
- EXTERIOR-GRADE INSTALLATIONS. EQUIPMENT AND APPLIANCES INSTALLED ABOVE GRADE LEVEL SHALL BE SUPPORTED ON A SOLID BASE OR APPROVED MATERIAL A MINIMUM OF 2 INCHES THICK.
- IO. UNDER-FLOOR INSTALLATION. SUSPENDED EQUIPMENT SHALL BE A MINIMUM OF 6 INCHES ABOVE THE ADJOINING GRADE.
- II. CRAWL SPACE SUPPORTS. IN A CRAWL SPACE, A MINIMUM OF 2-INCH THICK SOLID BASE, 2-INCH (5I MM) THICK FORWED CONCRETE, OR STACKED MASONRY UNITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD. THE WATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2 INCHES ABOVE GRADE.
- 12. DRAINAGE, BELOW-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REQUIREMENTS REFER TO N.C.-M

VENTING

- IN LIEU OF REQUIRED EXTERIOR OPENINGS FOR NATURAL VENTILATION IN BATHROOMS CONTAINING A BATHTUB, SHOWER OR COMBINATION THEREOF, A MECHANICAL VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMM VENTILATION RATES SHALL BE SO CFM FOR INTERMITTENT VENTILATION OR 20 CFM FOR CONTINUOUS VENTILATION. VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE PER N.C.-R.
- 2. EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS,
- 3. RANGE HOODS SHALL DISCHARGE TO THE OUTDOORS THROUGH A DUCT. THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE, SHALL BE AIR TIGHT, SHALL BE EQUIPPED WITH A BACK-DRAFT DAMPER AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS. DUCTS SERVING RANGE HOODS SHALL NOT TERMINATE IN AN ATTIC OR CRANL SPACE OR AREAS INSIDE THE BUILDING, DUCTS SERVING RANGE HOODS SHALL BE CONSTRUCTED OF GALVANIZED STEEL, STAINLESS STEEL OR COPPER.
- 4. WHERE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND WHERE MECHANICAL OR NATURAL VENTILATION IS OTHERWISE PROVIDED, LISTED AND LABELED DUCTLESS RANGE HOODS SHALL NOT BE REQUIRED TO DISCHARGE TO THE OUTDOORS PER N.C.-M
- 5. DUCTS FOR DOMESTIC KITCHEN COOKING APPLIANCES EQUIPPED WITH DOWN DRAFT EXHAUST SYSTEMS SHALL BE PERMITTED TO BE CONSTRUCTED OF SCHEDULE 40 PV.C PIPP ERROVIDED THAT THE INSTALLATION COMPLIES WITH ALL OF THE FOLLOWING PER N.C.-M:
- THE DUCT SHALL BE INSTALLED UNDER A CONCRETE SLAB POURED ON GRADE.
- B. THE UNDERFLOOR TRENCH IN WHICH THE DUCT IS INSTALLED SHALL BE COMPLETELY BACKFILLED WITH SAND OR GRAVEL.
- C. THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE THE INDOOR CONCRETE FLOOR SURFACE.
- D. THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE GRADE OUTSIDE THE BUILDING.
- E. THE PVC DUCTS SHALL BE SOLVENT CEMENTED.
- 6. EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CPM SHALL BE PROVIDED MITH MAKEUP AIR AT A RATE APPROXIMATELY EQUAL TO THE EXHAUST AIR RATE THAT IS IN EXCESS OF 400 CUBIC FEET PER MINUTE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED MITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMILTANEOUSLY WITH THE EXHAUST SYSTEM. DAMPERS SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT MITHOUT REMOVING PERHANENT CONSTRUCTION
- DOMESTIC WATER HEATERS, UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, SHALL BE VENTED TO THE OUTSIDE AIR BY A TYPE B' VENT AND COMPLY WITH THE REQUIREMENTS OF THE N.C.-M

PLUMBING

- I. A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN SUCH A MANNER SO AS TO PREVENT CONTAMINATION FROM NONPOTABLE LIQUIDS, SOLLIDS OR GASES BEING INTRODUCED INTO THE POTABLE WATER SUPPLY THROUGH CROSS-CONNECTIONS OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM. BACKFLOW PRE- VENTER APPLICATIONS SHALL CONFORM TO
- THE SUPPLY LINES OR FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW, PLUMBING FIXTURE FITTINGS SHALL PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME AILJIB.

MECHANICAL \$ PLUMBING (continued)

PLUMBING (continued)

- 3. ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION ASAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM, WATER PUMPS, FILTERS, SOPTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION.
- WATER SERVICE PIPING SHALL BE PROTECTED IN ACCORDANCE WITH N.C.-P SECTIONS AND EXCEPTIONS)
- FIXTURE FITTINGS, FAUCETS AND DIVERTERS SHALL BE CONNECTED TO THE WATER DISTRIBUTION SYSTEM SO THAT HOT WATER CORRESPONDS TO THE LEFT SIDE OF THE FITTINGS.
- DIVERTERS FOR SINK FAUCETS WITH A SECONDARY OUTLET CONSISTING OF A FLEXIBLE HOSE AND SPRAY ASSEMBLY SHALL CONFORM TO ASTM AII.2.18.1 IN ADDITION TO THE REGUIREMENTS IN N.C.-P
- 7. THE INSTALLATION OF A MATER SERVICE OR WATER DISTRIBUTION PIPE SHALL BE PROHIBITED IN SOIL AND GROUND WATER THAT IS CONTAMINATED. GROUND WATER CONDITIONS SHALL BE REQUIRED TO ACERTAIN THE ACCEPTABILITY OF THE WATER SERVICE OR WATER DISTRIBUTION PIPING MATERIAL FOR THE SPECIFIC INSTALLATION. WHERE DETRIMENTAL CONDITIONS EXIST, APPROVED ALTERNATIVE MATERIALS OR ROUTING SHALL BE REQUIRED.
- 8. MATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PLUMBING. ALL MATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 180 DEGREES F.
- 9. PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM THE LIME AND ACID OF CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION, MINIMUM WALL THICKNESS OF MATERIAL SHALL BE 0.025-INCH.
- IO. PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM
- II. PIPING SHALL BE INSTALLED SO AS TO PREVENT DETRIMENTAL STRAINS AND STRESSES IN THE PIPE. PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT. PIPING SHALL BE INSTALLED TO AVOID STRUCTURAL STRESSES OR STRAINS MITHIN BUILDING COMPONENTS.
- 12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE NALL INSULATION. IN OTHER CASES, MATER, SOIL AND WASTE PIPES SHALL NOT BE INSTALLED OUTSIDE OF A BUILDING, IN INCONDITIONED ATTICS, UNCONDITIONED UTILITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING ITEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MINIMUM OF R-65 INSULATION DETERMINED AT 15 DE6, F IN ACCORDANCE WITH ASTM CITY OR HEAT OR BOTH.

 EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT LESS THAN 6 INCHES BELOM THE FROST LINE AND NOT LESS THAN 12 INCHES BELOM GRADE.
- 3. BUILDING SEMER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C-R.
- 14. BUILDING SEMER PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL CONFORM TO THE RESPECTIVE PIPE STANDARDS OR ONE OF THE STANDARDS LISTED IN
- IS. MHERE MASTE LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF A FLUSHED TOILET MAY BE UNDESIRABLE, SUCH AS IN WALLS OR PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON PIPING OR SIMILAR APPROVED HARD OR DENSE PIPING TO MITIGATE SOUND.
- 16. CLEANOUTS ON BUILDING SEWERS SHALL BE LOCATED AS SET FORTH IN
- IT. THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH N.C.-R.
- IB. INDIVIDUAL SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED MITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERMOSTATIC-MIXING O'R COMBINATION PRESSURE-BALANCE/ THERMOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSE (IGIA ASME AI/2.106/CSA BISS.IG. AND SHALL BE INSTALLED AND ADJISTED PER MANUFACTURE'S INSTRUCTIONS.
- 19. GAS AND ELECTRIC WATER HEATERS HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN IS INCHES ABOVE THE GARAGE FLOOR. REFER TO N.C.-R. FOR EXCEPTION.
- 20. WATER HEATERS, (USING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM, HONEVER, WATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PUMPING OFFICIAL, PROVIDED THEY ARE VENTED AND SUPPLIED WITH ADEQUATE COMBUSTION AIR.
- II. IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, WATER HEATERS SHALL DE ANCHORED OR STRAPPED IN THE UPPER ONE-THIRD AND IN THE LOWER ONE-THIRD OF THE APPLIANCE TO RESIST A HORIZONTAL FORCE EQUAL TO ONE-THIRD OF THE OPERATING WEIGHT OF THE WATER HEATER, ACTING IN ANY HORIZONTAL DIRECTION, OR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S RECOMMENDATIONS.
- APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PRO-TECTED FROM IMPACT BY A MOVING VEHICLE.
- 23. WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN REMOTE LOCATIONS SUCH AS SUSPENDED CEILING, ATTICS, ABOVE OCCUPIED SPACES, OR INVENTILATED CRAPIL SPACES, A LOCATION WHERE WATER LEAKAGE FROM THE TANK WILL CAUSE DAMAGE TO PRIMARY STRUCTURAL MEMBERS, THE TANK OR WATER HEATER SHALL BE INSTALLED IN A GALVANIZED STELL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- 24. WHERE CLOTHES WASHING MACHINES ARE LOCATED ON WOOD FRAMED FLOORS WHERE LEAKAGE WOULD CAUSE DAMAGE, A GALVANIZED STEEL PAN HAVING A MINIMM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE SHALL BE PROVIDED.

MECHANICAL & PLUMBING (continued)

PLUMBING (continued

- 25. APPLIANCES AND EQUIPMENT USED FOR HEATING MATER OR STORING HOT WATER CHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND A SEPARATE TEMPERATURE. RELIEF VALVE OR A COMBINATION PRESSURE-AND-TEMPERATURE RELIEF VALVE. RELIEF VALVES SHALL HAVE A MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND SHALL CONFORM TO ANSI Z21.22. THE RELIEF VALVE SHALL NOT BE USED AS A MEANS OF CONTROLLING THERMAL EXPANSION.
- 26. THE WATER SUPPLY TO A DISHWASHER SHALL BE PROTECTED AGAINST BACKFLOW BY AN AIR GAP COMPLYING WITH ASME AII2.13 OR AII2.12 THAT IS INSTALLED INTEGRALLY WITHIN THE MACHINE OR A BACKFLOW PREVENTER IN ACCORDANCE WITH THE NC-R.
- 27. SINK AND DISHWASHER, THE COMBINED DISCHARGE FROM A DISHWASHER AND A ONE- OR TWO-COMPARTMENT SINK, WITH OR WITHOUT A FOOD-WASTE DISPOSER, SHALL BE SERVED BY A TRAP OF NOT LESS THAN III.2 INCHES (36 MM) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE UNDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE SINK RIM OR COUNTER BEFORE CONNECTING TO THE HEAD OF THE FOOD-WASTE DISPOSER OR TO A WYE FITTING IN THE SINK TAILPIECE.

FIREPLACE

- FACTORY-BUILT FIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. FACTORY-BUILT FIREPLACES SHALL BE TESTED IN ACCORDANCE WITH UL 12T.
- 2. FIREPLACES ARE TO BE PROVIDED WITH AN EXTERIOR AIR SUPPLY

ELECTRICAL

- ALL MATERIALS AND APPLIANCES, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE OR CURRENT SAE REQUIREMENTS.
- ALL ELECTRICAL SYSTEMS, CIRCUITS, FIXTURES AND EQUIPMENT SHALL BE GROUNDED IN A MANNER COMPLYING WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL WIRING SHALL BE 50 INSTALLED THAT, WHEN COMPLETED, THE SYSTEM MILL BE FREE FROM SHORT CIRCUITS AND FROM GROUNDS OTHER THAN AS REQUIRED OR PERMITTED IN NE.C. ARTICLE 250.
- ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORK-MANLIKE MANNER.
- ALL 125-VOLT, SINGLE-PHASE, IS- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED BELOW SHALL HAVE GROUND-FAULT CIRCUIT-INTERMIPTER PROTECTION FOR PERSONNEL. THE GROUND-FAULT CIRCUIT-INTERRIPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- A. BATHROOMS.
- B. GARAGES AND ALSO ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELON GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE.
- c. OUTDOORS
- CRAWL SPACES. WHERE THE CRAWL SPACE IS AT OR BELOW GRADE LEVEL.
- E. UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS.
- KITCHENS, WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SURFACES.
- G. SINKS, WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK.
- H. BOAT HOUSES.
- BATHTUBS OR SHOWER STALLS WHERE RECEPTACLES ARE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL.
- I. LAUNDRY AREAS
- DISHWASHER GFCI PROTECTION IS NOT REQUIRED FOR OUTLETS THAT SUPPLY DISHWASHERS INSTALLED IN DWELLING UNIT LOCATIONS
- CRAWL SPACE LIGHTING OUTLETS, GFCI PROTECTION SHALL BE PROVIDED FOR LIGHTING OUTLETS NOT EXCEEDING 120 VOLTS INSTALLED IN CRAWL SPACES.
- APPLIANCE RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFIC APPLIANCES, SUCH AS LAUNDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE APPLIANCE.
- IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SURROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DMELLING WITTS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY MALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLIDING ANY WALL SPACE OR MORE IN WIDTH (INCLIDING SPACE MEASURED AROUND CORNIESS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORNAYS AND SIMILAR OFENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BUT EXCLIDING SALIDING PANELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE COUNTERS OR RAILINGS, SHALL BE INCLIDED IN THE 6 FOOT MEASUREMENT.
- 9. IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA OF A DWELLING UNIT, THE TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS, ALL CONTERTOP OUTLETS, AND RECEPTACLE OUTLETS FOR REPRIGERATION EQUIPMENT. THE TWO OR MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- IO. IN KITCHENS, PANTRIES, BREAKFAST ROOMS, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTER SPACES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
- (I) A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH MALL COUNTER SPACE IZ INCHES OR MIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONS THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A REC

ELECTRICAL (continued)

- (2) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND COUNTER SPACE NITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER.
- (9) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH PENINSULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. A PENINSULAR COUNTERTOP IS MEASURED FROM CONNECTING PERPENDICULAR WALL.
- (4) COUNTERTOP SPACES SEPARATED BY RANGE TOPS, REFRIGERATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTERTOP SPACES IN APPLYING THE REQUIRENEMENTS OF (I), (2), AND (3)
 ABOVE. IF A RANGE, COUNTER-MOUNTED COOKING UNIT, OR SINK
 IS INSTALLED IN AN ISLAND OR PENINSULAR COUNTERTOP AND THE
 DEPTH OF THE COUNTER BEHIND THE ITEM IS LESS THEN 12 INCHES.
 IT WILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO
 TWO SEPARATE COUNTERTOP SPACES. EACH COUNTERTOP SPACE
 SHALL COMPLY WITH APPLICABLE REQUIREMENTS.
- (5) RECEPTACLE OUTLETS SHALL BE LOCATED NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP, RECEPTACLE OUTLETS RENDERED NOT READILY ACCESSIBLE BY APPLIANCES FASTENED IN PLACE, APPLIANCE GARAGES, SINKS, OR RANGETOPS AS COVERED IN 4) ABOVE, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS THESE REGUIRED OUTLETS.
- II. AT LEAST ONE WALL RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED IN WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE THAN 12" BELOW THE COUNTERTOP.
- 12. IN DIVELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT.
- 19. IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE MITH ELECTRIC POWER, THE BRANCH CIRCUIT SUPPLYING THIS RECEPTACLE(S) SHALL NOT SUPPLY CUTLETS OUTSIDE OF THE GARAGE. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN EACH VEHICLE BAY.
- 14. CABLE- OR RACEMAY-TYPE MIRING METHODS INSTALLED IN A GROOVE, TO BE COVERED BY MALLEDARD SIDING PANELING, CARPETING, OR, SIMILAR FINISH, SHALL BE PROTECTED BY 1/16 INCH THICK STEEL, PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN I-1/4 INCH FREE SPACE FOR THE FULL LENGTH OF THE GROOVE IN WHICH THE CABLE OR RACEMAY IS INSTALL IFF.
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.
- A. A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM MEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS MEATHERPROOF WHEN THE RECEPTACLE IS COVERED. (ATTACHMENT PLUG CAP NOT INSERTED AND RECEPTACLE COVERS (LOSED.)
- B. ALL IS- AND 20- AMPERE, 125- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHER PROOF INHETHER OR NOT THE ATTACHENT PLUE CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY". ALL IS- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER RESISTANT TYPE.
- I6. LIGHTING EQUIPMENT. NOT LESS THAN 75 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS
- 17. LIGHT FIXTURES WITHIN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH NE.C.
- 18. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYTING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARCIPS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE RROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A REACHBUT CIRCUIT.
- I9. BUILDINGS SHALL BE PROVIDED AITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
- 20. TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS.
 ALL NON-LOCKING TYPE (25-VOLT IS-AND 20-AMPERE RECEPTACLES
 SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS
 LISTED BELOW:

 I. RECEPTACLES LOCATED MORE THAN 5½ ABOVE THE FLOOR.
 - 2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.
 - 3. A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED MITHIN DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE PLACE TO ANOTHER, AND THAT IS CORD-AND-PLUS CONNECTED.
 - 4. NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS.
- DIMMER-CONTROLLED RECEPTACLES. A RECEPTACLE SUPPLYING LIGHTING LOADS SHALL NOT BE CONNECTED TO A DIMMER UNLESS THE PLUG/RECEPTACLE COMBINATION IS A NONSTANDARD CONFIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH UNIQUE COMBINATION.

SMOKE DETECTORS

- I. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S INSTRUCTIONS AND NC-R R314
- ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 21T AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NIFPA 12.

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA 12 THAT INCLIDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR AND AUDIBLE NOTFILECATION DEVICE INSTALLED AS REQUIRED BY THE NC-R R314.3 FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THE NC-R FOR SMOKE ALARMS IN THE EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONNECTED TO A CENTRAL STATION.

3. REQUIRED SMOKE DETECTORS SHALL BE LOCATED IN ACCORDANCE WITH THE NC-R 8314.3

ELECTRICAL (continued)

CARBON MONOXIDE ALARMS

- I. CARBON MONOXIDE ALARMS IN DMELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.
- SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYINS WITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NC-R ROIS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COMBINATION CARBON MONOXIDE AND SMOKE ALLARMS SHALL BE PERMITTED TO BE USED IN LIEU OF INDIVIDUAL CARBON MONOXIDE OR SMOKE ALLARMS.

DRYER VENT

 THE DRYER DUCT IS REQUIRED TO IDENTIFY THE LENGTH IN ACCORDANCE WITH SECTION MISO2.4.5





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

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2018 NORTH
CAROLINA STATE
BUILDING
CODES

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SEE BELOW "

ISSUE DATE: 09/11/18
PROJECT No.: 1350999:57
DIVISION MGR.: DS

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2018 CODE UPDATE
NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NCI9022NCP/ 03/15/19 / CTD

REVISIONS:

DIVISION REVISIONS
NCI9028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NCI9047NCP/ 08/01/19 / FAE

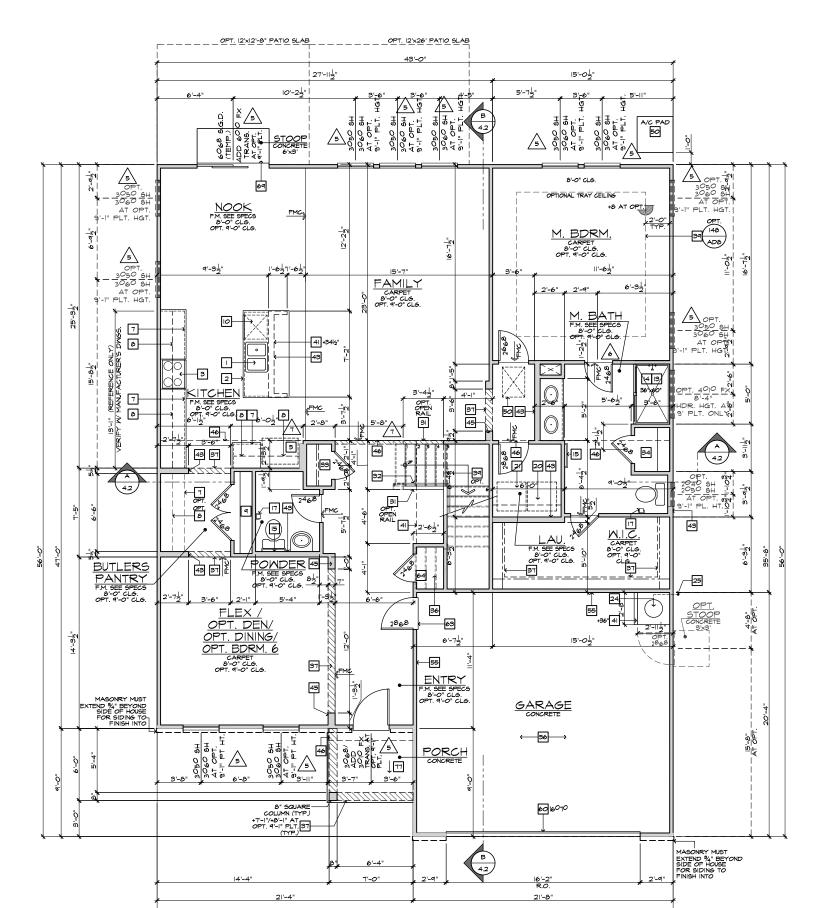
DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

PLAN ERROR
NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 67-28-21 / KBA

PLAN: 243.2939-R SHEET: GN3

spec level 1
RALEIGH-DURHAM
50' SERIES



43'-0"



INTERIOR KEY SOLIADE BOOTAGE

SQUAKE FOULAGE								
	PLAN 243.293	9-R						
FIRST FLOOR AREA	1779	SQ. FT.						
SECOND FLOOR ARE	1160	SQ. FT.						
TOTAL AREA			2939	SQ. FT.				
CRAWL GAR. AREA		437	SQ. FT.					
PORCH AREA(S)								
	ELEVATION 'A'		42	SQ. FT.				
1	ELEVATION 'B'		71	SQ. FT.				
	ELEVATION 'C'		86	SQ. FT.				
	ELEVATION 'D'		128	SQ. FT.				
DECK AREA(S)								
	OPEN 12'x12'		144	SQ. FT.				
	OPEN 12'x26'		312	SQ. FT.				
	SCREENED-IN 12'S		152	SQ. FT.				
	312	SQ. FT.						
SUNROOM AREA(S)								
	12'X 2'-8"		152	SQ. FT.				
PLATE NOTES								
8'-I" PLATE NOTES								
MINDOW HEADER		6'-8" L						
2nd FLOOR WIN ENTRY DOOR HI	DOW HOR, HEIGHT:	7'-0" L 6'-8" L	I.N.O.					
	DOOR HEIGHT:	6'-8" (TEMP.)					
 INTERIOR SOFF 		7'-4" U 6'-8" L	N.O.					
INTERIOR DOOR								
	<u> 1'-1" PLATE N</u>							
WINDOW HEADER		7'-8" U 7'-8" U						
2nd FLOOR WIN ENTRY DOOR HI	DOW HDR. HEIGHT:			NSOM ABV.				
. SLIDING GLASS	DOOR HEIGHT:	6'-8" V	V I2" TRA	NSOM ABV.				
INTERIOR SOFFI TRAY CEILING:	IT HEIGHT:	8'-0" L	J.N.O. ROP U.N.O.					
INTERIOR DOOR	R HEIGHT:	6'-8" 1	I.N.O.					

GENERAL PLAN NOTES

ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE HEIGHTS, U.N.O.

ALL INTERIOR DOORS TO BE HOLLOW CORE | 3/6" THICK, U.N.O. (REFER TO PLAN FOR SIZE).

ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).

ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE).

ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE | 3/4" THICK (REFER TO PLAN FOR SIZE). ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.

STAIR DATA NOTES

FIRST FLOOR WITH 9-1" PLATE HRIGHT:
16" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING.
15 TREADS AT 10" EACH
16 RISERS AT 7-1/6" EACH

FIRST FLOOR WITH 10'-P PLATE HEIGHT:
16" DEEP T.J.I. FLOOR JOISTS MITH 3/4" T&G DECKING.
16 TREADS AT 10" EACH
17 RISERS AT 8-1/0" EACH

FIRST FLOOR PLAN 'A' SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XIT")

BASIC PLAN

FLOOR PLAN NOTES

- SINK WITH GARBAGE DISPOSAL VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- DISHWASHER PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FA (VENT TO OUTSIDE AIR) VERIFY WITH MANUFACTURER SPEC'S
- 36" COOKTOP W BUILT-IN HOOD WLIGHT & FAN. (YENT TO OUTSIDE AIR) CABINET MOUNTED MICROWAYE INCLUDED OVEN WITH YENT YERIFY WITH MANUFACTURER SPEC'S.
- 39" CLEAR REFRIGERATOR SPACE PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).
- 6. DOUBLE OVEN VERIFY WITH MANUFACTUER SPEC'S.
- BASE CABINETS REFER TO INTERIOR ELEVATIONS
- 8. UPPER CABINETS REFER TO INTERIOR ELEVATIONS
- PANTRY SHELVES PER SPEC
- IO. ISLAND CABINET REFER TO INTERIOR ELEVATIONS
- TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSUR (NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S. 12. OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- SHOWER PAN WITH WAINSCOT TO 84" VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- 14. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE
- I6. NOT USED
- 17. TOILET PAPER HOLDER
- 18. EXTEND VANITY REFER TO INTERIOR ELEVATIONS
- 19. OPTIONAL SINK
- 20. PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)
- 21. DRYER VENT
- 22. NOT USED
- 23. FREE STANDING LAUNDRY SINK VERIFY DIMENSIONS WITH MFR'S SPEC'S.
- 24. ELECTRIC WATER HEATER LOCATE ON 18" HIGH FRAMED PLATFORM
- 25. TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN
 TO EXTERIOR MIN. 6" ABOVE & MAX. 24" ABOVE GRADE
- 26. NOT USED
- 27. NOT USED
- 28. PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS
- 29. NON-COMBUSTIBLE HEARTH MATERIAL
- 30. ROUTE OF FIREPLACE "B" VENT FROM BELOW -
- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 32. +34" +38" HIGH HANDRAIL DETAIL 83/AD5 33. COATS WITH SHELF & POLE - DETAIL 73/AD4
- 34. LINEN SHELVES PER SPEC
- 35. WARDROBE WITH SHELF & POLE DETAIL 73/AD4 U.N.O.
- 36. MEDIA NICHE REFER TO INTERIOR ELEVATIONS
- ST. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIGH
- 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HGT
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4 42. LOCATION OF PLUMBING WASTE DROP FROM ABOVE
- 43. 2x6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2x4 WALL
- 46. LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW
- 48. EXTERIOR RAIL
- 49. F.A.J. VENT TO OUTSIDE AIR 50. 22"x54" ATTIC ACCESS W/ STAIRS
- F.A.J. IN ATTIC PROVIDE MIN. 22"x30" ATTIC ACCESS PANE PROVIDE FUEL GAS, REFER TO UTILITY PLAN DETAIL 88/AD5
- 52. DUCT CHASE DETAIL 89 & 90/AD5 REFER TO MECH. PL
- 53. RETURN AIR GRILL (R.A.G.) -REFER TO MECHANICAL PLAN
- 54. I/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS
- SEPARATION BETWEEN SECOND FLOOR AND GARAGE CELLING, PROVIDE (I) LAYER OF 5%" TYPE "X" GYPSIM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING; PROVIDE (I) LAYER OF 1/2" GYPSIM BOARD
- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 58. NOT USED
- 59. NOT USED
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION
- 61. NOT USED
- DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL.
- 63. OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPINITH SOLID WOOD DOORS NOT LESS THAN 13/8-INCH THICK OR SHALL BE 20-MINUTE FIRE RATED. DOORS SHALL BE NEATHERSTRIPPED.





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988

2018_NORTH CAROLINA STATE

FAX: (919) 472-0582

BUILDING **CODES**

ISSUE DATE: 09/11/18 PROJECT No.: 1350999:57

REVISIONS: SEE BELOW 2018 CODE UPDATE NC190ISNCP/ 03/IS/19 / CTD

DIVISION MGR.:

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19047NCP/ 02/01/19 / FAE

DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-12-21 / KBA

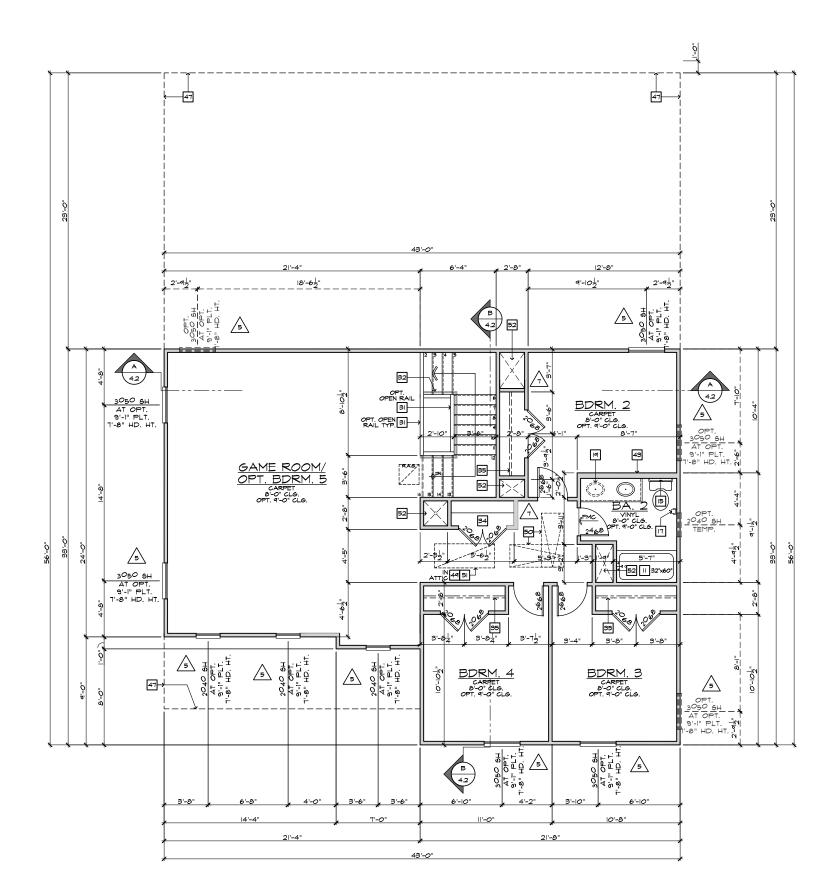
7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

1.1

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.





INTERIOR KEY

PLATE NOTES

8'-I" PLATE NOTES

9'-1" PLATE NOTES

GENERAL PLAN NOTES

ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE HEIGHTS, U.N.O.

ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE). ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE I 3/4" THICK (REFER TO PLAN FOR SIZE).

WINDOM HEADER HEIGHT:
2nd FLOOR WINDOM HDR. HEIGHT:
5LIDING 6LASS DOOR HEIGHT:
NITERIOR SOFFIT HEIGHT:
TRAY CELLING:
TRAY CELLING:
WINDOM HEIGHT:
TRAY CELLING:
0-0 WINDOM HEIGHT:

ALL INTERIOR DOORS TO BE HOLLOW CORE | 3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).

ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).

MINDOM HEADER HEIGHT:
2nd FLOOR MINDOM HDR HEIGHT:
7-0' UNO.
61-8' UNO.

FIRST FLOOR WITH 9-1" PLATE HRIGHT:
16" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING.
15 TREADS AT 10" EACH
16 RISERS AT 7-7/8" EACH

FIRST FLOOR WITH 10'-P PLATE HEIGHT:
16" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING.
16 TREADS AT 10" EACH
17 RISERS AT 8-1/0" EACH

SECOND FLOOR PLAN 'A'

SCALE 1/4"=1'-0" (22"X34") - 1/6"=1'-0" (11"X17")

BASIC PLAN

FLOOR PLAN NOTES

- I. SINK WITH GARBAGE DISPOSAL VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- DISHMASHER PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- 3. SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S
- 36" COOKTOP W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) CABINET MOUNTED MICROMAYE INCLUDED OVEN WITH VENT VERIFY WITH MANUFACTURER SPEC'S.
- 39" CLEAR REFRIGERATOR SPACE PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).
- DOUBLE OVEN VERIFY WITH MANUFACTURE SPEC'S.
- 7. BASE CABINETS REFER TO INTERIOR ELEVATIONS
- 8. UPPER CABINETS REFER TO INTERIOR ELEVATIONS
- PANTRY SHELVES PER SPEC
- IO. ISLAND CABINET REFER TO INTERIOR ELEVATIONS
- TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSURE (NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S.
- 12. OVAL TUB VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- SHOWER PAN WITH WAINSCOT TO 84" VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- 14. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE
- 15. TOWEL BAR
- 16. NOT USED
- 17. TOILET PAPER HOLDER
- IB. EXTEND VANITY REFER TO INTERIOR ELEVATIONS
- 19. OPTIONAL SINK
- 20. PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)
- 21. DRYER VENT
- 22. NOT USED
- 23. FREE STANDING LAUNDRY SINK VERIFY DIMENSIONS WITH MFR'S SPEC'S.
- 24. ELECTRIC MATER HEATER LOCATE ON 18" HIGH FRAMED PLATFORM
- 25. TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR MIN. 6" ABOVE & MAX. 24" ABOVE GRADE
- 26. NOT USED
- 27. NOT USED
- 28. PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS
- 29. NON-COMBUSTIBLE HEARTH MATERIAL
- 30. ROUTE OF FIREPLACE "B" VENT FROM BELOW PROVIDE 0.S.B. SHAFT
- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 32. +34" +38" HIGH HANDRAIL DETAIL 83/AD5
- 33. COATS WITH SHELF & POLE DETAIL 73/AD4
 34. LINEN SHELVES PER SPEC
- 35. WARDROBE WITH SHELF & POLE DETAIL 73/AD4 U.N.O.
- 36. MEDIA NICHE REFER TO INTERIOR ELEVATIONS
- 37. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIG
- 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HGT.
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4
 42. LOCATION OF PLUMBING WASTE DROP FROM ABOVE
- 43. 2×6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2x4 WALL
- 46. LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW
- 48. EXTERIOR RAIL
- 49. F.A.J. VENT TO OUTSIDE AIR
- 50. 22"x54" ATTIC ACCESS W/ STAIRS
- F.A.J. IN ATTIC PROVIDE MIN. 22"X30" ATTIC ACCESS PAN - PROVIDE FUEL GAS. REFER TO UTILITY PLAN DETAIL 88/AD5
- 52. DUCT CHASE DETAIL 89 \$ 90/AD5 REFER TO MECH. PLA
- 53. RETURN AIR GRILL (R.A.G.) -REFER TO MECHANICAL PLAN
- 54. 1/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS
- 55. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN ½" GYPSIM BOARD APPLIED TO THE GARAGE SIDE
- 56. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING, PROVID (1) LAYER OF %, TYPE "X" GYPSIM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING, PROVIDE (1) LAYER OF YEARD BOARD.
- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 58. NOT USED
- 59. NOT USED
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION
- 61. NOT USED
- 62. DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL.
- 63. OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/8-INCH THICK, OR SHALL BE 20-MINJTE FIRE RATED. DOORS SHALL BE NEATHERSTRIPPED.

NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

9 9 9

2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 09/11/18

PROJECT No.: 1350999:57 DIVISION MGR.: DS REVISIONS: SEE BELOW

2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NCI947NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR
NC21014NCP / 02-18-21 / KBA

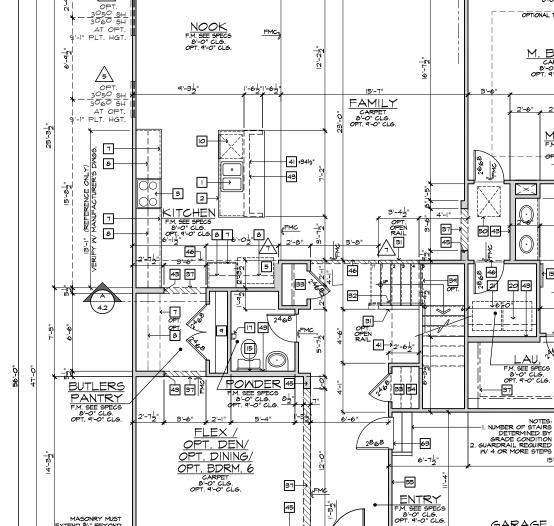
6 NC21014NCP / 02-18-21 / KB

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

PLAN: 243.2939-R SHEET:

1.2

spec. level 1
RALEIGH-DURHAM
50' SERIES



NOTES: I. NUMBER OF STAIRS DETERMINED BY GRADE CONDITION GUARDRAIL REQUIRED W 4 OR MORE STEPS

<u>_</u>5

17'-10¹

3'-6"

2 2 5

3'-6"

6'-52'

3'-9

15'-0¹

3'-6"

. Та Та Та Та Та Та Та

A/C PAD

12'-0"

6'-31

14 13 36 x60'

34

M.I.C. CARPET 8'-0" CLG. OPT. 9'-0"

PLT. HGT.

99 148 AD8

5 0PT. 3050 6H 3060 6H

OPT. 4010 FX

IDR. HGT. ATO

A 4.2

-25

OPT. 64 2040 SH 2 2050 SH - 1

4-1-6-TA

3060 9H AT OPT. 9'-I" PLT. I 3060 9H AT OPT. 100 9H AT OPT. 9'-I" PLT. I

8'-0" CLG.

OPTIONAL TRAY CEILING

2'-6" , 2'-9"

-22 6

15

20 43

GARAGE CONCRETE

← 56 →

60

16'-2'

21'-8"

PORCH

43'-0"

4.2

STAIR DATA NOTES

FIRST FLOOR WITH 9-1" PLATE HEIGHT:
16" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING DEEP T.J.I. FLOOR JOISTS WI IS TREADS AT IO" EACH IG RISERS AT 7-7/8" EACH

INTERIOR KEY

SQUARE FOOTAGE

PLAN 243,2939-R

ELEVATION 'A

ELEVATION 'B'

ELEVATION 'D

OPEN 12'x26'

MINDOM HEADER HEIGHT.
2nd FLOOR MINDOM HDR HEIGHT.
1-0° UNO.
5LIDING GLASS DOOR HEIGHT.
NITERIOR DOOR HEIGHT.
NITERIOR DOOR HEIGHT.
11-4° UNO.
6-8° UNO.
6-8° UNO.

SCREENED-IN 12'x12'-8"

SCREENED-IN 12'x26'

PLATE NOTES

8'-I" PLATE NOTES

9'-1" PLATE NOTES

GENERAL PLAN NOTES

ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE).

WINDOM HEADER HEIGHT:
2nd FLOOR WINDOM HDR. HEIGHT:
5LIDING 6LASS DOOR HEIGHT:
NITERIOR SOFFIT HEIGHT:
TRAY CELLING:
TRAY CELLING:
WINDOM HEIGHT:
TRAY CELLING:
0-0 WINDOM HEIGHT:

ALL INTERIOR DOORS TO BE HOLLOW CORE | 3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).

ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE | 3/4" THICK (REFER TO PLAN FOR SIZE). ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.

ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).

1160

42

86 128

152

SQ. FT

SQ FI

5Q. F1

5Q. F1

SQ. FT SQ. FT

50. F1

5Q. F1

5Q. F1

" TRANSOM ABV " TRANSOM ABV

2939 SQ FT

FIRST FLOOR ARE

TOTAL AREA

CRAWL GAR, AREA

PORCH AREA(S)

DECK AREA(S)

SUNROOM AREA(S)

SECOND FLOOR AREA

FIRST FLOOR WITH 10-1P PLATE HEIGHT:
16" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING.
16 TREADS AT 10" EACH
17 RISERS AT 8-1/0" EACH

FIRST FLOOR PLAN 'A' W/ CRAWLSPACE

8" SQUARE-COLUMN (TYP.)

NOTES:
I. NUMBER OF STAIRS
DETERMINED BY
GRADE CONDITION
GUARDRAIL REQUIRED
W/ 4 OR MORE STEPS

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XIT"

END 3/4" BEYOND SIDE OF HOUSE FOR SIDING TO-FINISH INTO

MASONRY MUST EXTEND 3/4" BEYOND SIDE OF HOUSE FOR SIDING TO FINISH INTO

FLOOR PLAN NOTES SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S. DISHMASHER - PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S. SLIDE-IN RANGE/ OVEN COMBINATION MY BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S 36" COOKTOP - W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) - CABINET MOUNTED MICROMAYE INCLUDED OVEN WITH VENT - VERIFY WITH MANUFACTURER SPEC'S. HOME 39" CLEAR REFRIGERATOR SPACE - PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL). DOUBLE OVEN - VERIFY WITH MANUFACTURE SPEC'S. BASE CABINETS - REFER TO INTERIOR ELEVATIONS B. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS PANTRY - SHELVES PER SPEC IO. ISLAND CABINET - REFER TO INTERIOR ELEVATIONS TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSUR (NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S. 12. OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPECT SHOMER PAN WITH WAINSCOT TO 84" - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S. 14. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE IS. TOWEL BAR 16. NOT USED 17. TOILET PAPER HOLDER **NORTH CAROLINA** IB. EXTEND VANITY - REFER TO INTERIOR ELEVATIONS 50' SERIES 19. OPTIONAL SINK 20. PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL) KB HOME NORTH CAROLINA DIVISION 2I. DRYER VENT 4518 S. MIAMI BLVD. 22. NOT USED SUITE 180 23. FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS WITH MFR'S SPEC'S. DURHAM, NC 27703 TEL: (919) 768-7988 24. ELECTRIC WATER HEATER - LOCATE ON 18" HIGH FRAMED PLATFORM FAX: (919) 472-0582 25. TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE 9 9 9 26. NOT USED 27. NOT USED 2018 NORTH 26. PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS **CAROLINA STATE** 29. NON-COMBUSTIBLE HEARTH MATERIAL SO. ROUTE OF FIREPLACE "B" VENT FROM BELOW -PROVIDE O.S.B. SHAFT **BUILDING** 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5 CODES 32. +34" - +38" HIGH HANDRAIL DETAIL 83/AD5 33. COATS WITH SHELF & POLE - DETAIL T3/AD4 34. LINEN - SHELVES PER SPEC 35. WARDROBE WITH SHELF & POLE - DETAIL 73/AD4 U.N.O. 36. MEDIA NICHE - REFER TO INTERIOR ELEVATIONS 37. FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGH 38. NOT USED 39. LINE OF CEILING BREAK 40. INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT. 41. LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4 ISSUE DATE: 09/11/18 42. LOCATION OF PLUMBING WASTE DROP FROM ABOVE PROJECT No.: 1350999:57 43. 2x6 MALL DIVISION MGR.: 44. 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL REVISIONS: SEE BELOW ' 45. DOUBLE 2x4 WALL 46. LINE OF FLOOR ABOVE 47. LINE OF FLOOR BELOW DIVISION REVISIONS NC19022NCP/ 03/15/19 / CTD 48. EXTERIOR RAIL 49. F.A.J. VENT TO OUTSIDE AIR 50. 22"x54" ATTIC ACCESS W/ STAIRS F.A.J. IN ATTIC - PROVIDE MIN. 22"x30" ATTIC ACCESS - PROVIDE FUEL GAS. REFER TO UTILITY PLAN DETAIL 88/AD5 DIVISION REVISIONS NC19047NCP/ 08/01/19 / FAE 52. DUCT CHASE - DETAIL 89 & 90/AD5 - REFER TO MECH. PLA DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA 53. RETURN AIR GRILL (R.A.G.) -REFER TO MECHANICAL PLAN PLAN ERROR NC21014NCP / 02-12-21 / KBA 54. I/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS . THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN ½" GYPSUM BOARD APPLIED TO THE GARAGE SIDE FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NC19028NCP/ 04/22/19 / FAE

57. EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT

58. NOT USED

59. NOT USED

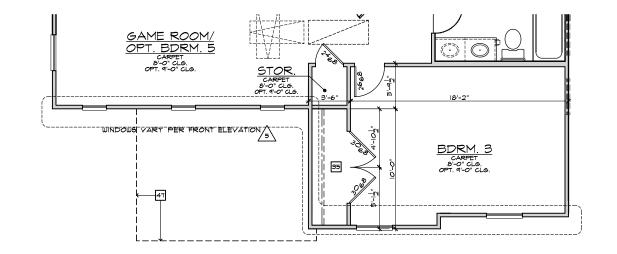
61. NOT USED

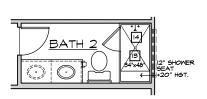
DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL.

63. OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPE WITH SOLID WOOD DOORS NOT LESS THAN I 3/6-INCH THICK, OR SHALL BE 20-MINITE FIRE RATED. DOORS SHALL BE WEATHERSTRIPPED.

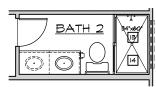
NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.

243.2939-R 1.3

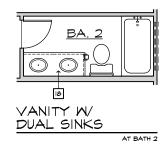


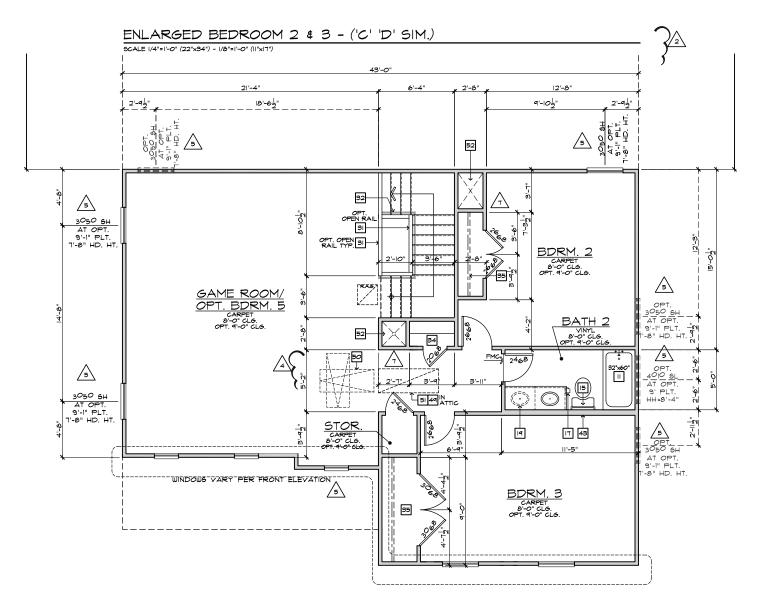


SHOWER W/ SEAT



SHOWER I.L.O. TUB





ENLARGED BEDROOM 2 \$ 3 PLAN OPTIONS

FLOOR PLAN NOTES

- SINK WITH GARBAGE DISPOSAL VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- DISHMASHER PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- 3. SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S
- 36" COOKTOP W/ BUILT-IN HOOD W/LIGHT & FAN. (VENT TO OUTSIDE AIR) CABINET MOUNTED MICROMAVE INCLUDED OVEN WITH VENT VERIFY WITH MANUFACTURER SPEC'S.
- 5. 39" CLEAR REFRIGERATOR SPACE PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).
- DOUBLE OVEN VERIFY WITH MANUFACTUER SPEC'S.
- 7. BASE CABINETS REFER TO INTERIOR ELEVATIONS
- 8. UPPER CABINETS REFER TO INTERIOR ELEVATIONS
- 7. PANTRY SHELVES PER SPEC
- O. ISLAND CABINET REFER TO INTERIOR ELEVATIONS
- . TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSURE (NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S.
- 12. OVAL TUB VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- SHOWER PAN WITH WAINSCOT TO 84" VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- 14. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE
- 15. TOWEL BAR
- 16. NOT USED
- 17. TOILET PAPER HOLDER
- 16. EXTEND VANITY REFER TO INTERIOR ELEVATIONS
- 19. OPTIONAL SINK
- 20. PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)
- 21. DRYER VENT
- 22. NOT USED
- 23. FREE STANDING LAUNDRY SINK VERIFY DIMENSIONS WITH MFR'S SPEC'S.
- 24. ELECTRIC WATER HEATER LOCATE ON 16" HIGH FRAMED PLATFORM
- 25. TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR MIN. 6" ABOVE & MAX. 24" ABOVE GRADE
- 26. NOT USED
- 27. NOT USED
- 26. PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS
- OR NON-COMPLISTIBLE HEARTH MATERIA
- 30. ROUTE OF FIREPLACE "B" VENT FROM BELOW PROVIDE O.S.B. SHAFT
- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 32. +34" +38" HIGH HANDRAIL DETAIL 83/AD5
- 33. COATS WITH SHELF & POLE DETAIL 73/AD4
 34. LINEN SHELVES PER SPEC
- 35. WARDROBE WITH SHELF & POLE DETAIL 73/AD4 U.N.O.
- 36. MEDIA NICHE REFER TO INTERIOR ELEVATIONS
- 37. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIG
- 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HGT.
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4 42. LOCATION OF PLUMBING WASTE DROP FROM ABOVE
- 43. 2x6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2×4 MALL
- 46. LINE OF FLOOR ABOVE 47. LINE OF FLOOR BELOW
- 48. EXTERIOR RAIL
- 49. F.A.J. VENT TO OUTSIDE AIR
- 50. 22"x54" ATTIC ACCESS W/ STAIRS
- F.A.J. IN ATTIC PROVIDE MIN. 22"x30" ATTIC ACCESS PANEL - PROVIDE FUEL GAS. REFER TO UTILITY PLAN DETAIL 86/AD5
- 52. DUCT CHASE DETAIL 89 \$ 90/AD5 REFER TO MECH. PLA
- 53. RETURN AIR GRILL (R.A.G.) -REFER TO MECHANICAL PLAN
- 54. I/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS
- 55. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 'S" GYPSUM BOARD APPLIED TO THE GARAGE SIDE
- 5. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF %" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF ½" GYPSUM BOARD
- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 58. NOT USED
- 59. NOT USED
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION
- 61. NOT USED
- 62. DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL.
- 63. OPENINGS BETMEEN GARAGE AND HOUSE SHALL BE EQUIPPED MITH SOLID MOOD DOORS NOT LESS THAN I 3/6-INCH THICK, OR SHALL BE 20-HINJTE FIRE RATED. DOORS SHALL BE WEATHERSTRIPPED

NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.







KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD.
SUITE 180
DURHAM, NC 27703

TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH
CAROLINA STATE
BUILDING
CODES

ISSUE DATE: 09/11/18
PROJECT No.: 1350999:57

DIVISION MGR.: DS
REVISIONS: SEE BELOW

2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAB

DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

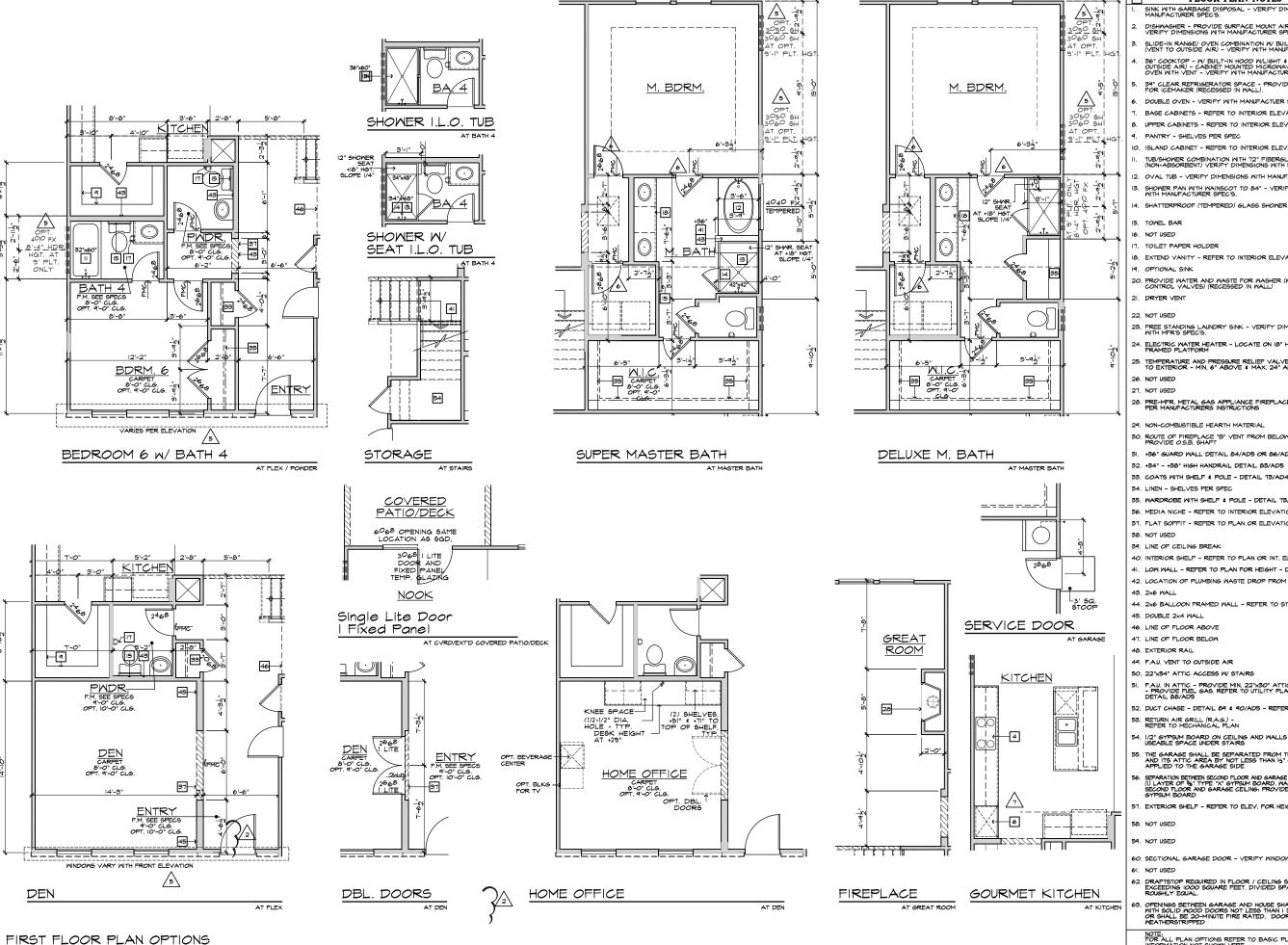
PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

PLAN: 243.2939-R

243.2939-R
SHEET:
1.4

spec level 1
RALEIGH-DURHAM
50' SERIES



FLOOR PLAN NOTES

SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.

DISHMASHER - PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.

36" COOKTOP - W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) - CABINET MOUNTED MICROMAYE INCLUDED OVEN WITH VENT - VERIFY WITH MANUFACTURER SPEC'S.

39" CLEAR REFRIGERATOR SPACE - PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).

DOUBLE OVEN - VERIFY WITH MANUFACTUER SPEC'S

BASE CABINETS - REFER TO INTERIOR ELEVATIONS

UPPER CABINETS - REFER TO INTERIOR ELEVATIONS PANTRY - SHELVES PER SPEC

O. ISLAND CABINET - REFER TO INTERIOR ELEVATIONS

2. OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPEC SHOWER PAN WITH WAINSCOT TO 84" - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.

4. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE

15. TOWEL BAR

6. NOT USED

17. TOILET PAPER HOLDER

18. EXTEND VANITY - REFER TO INTERIOR ELEVATIONS

19. OPTIONAL SINK

20. PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)

21. DRYER VENT

22. NOT USED

23. FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS WITH MFR'S SPEC'S.

24. ELECTRIC WATER HEATER - LOCATE ON 18" HIGH FRAMED PLATFORM

26. NOT USED

27. NOT USED

28. PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS

29. NON-COMBUSTIBLE HEARTH MATERIAL

30. ROUTE OF FIREPLACE "B" \vee ENT FROM BELOW - PROVIDE 0.5.B. SHAFT

31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5

32. +34" - +38" HIGH HANDRAIL DETAIL 83/AD5

34. LINEN - SHELVES PER SPEC

35. WARDROBE WITH SHELF & POLE - DETAIL 13/AD4 U.N.O

36. MEDIA NICHE - REFER TO INTERIOR ELEVATIONS

37. FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGH

39. LINE OF CEILING BREAK

40. INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HG

41. LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4

43. 2×6 WALL

44. 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL

45. DOUBLE 2x4 WALL 46. LINE OF FLOOR ABOVE

47. LINE OF FLOOR BELOW

48. EXTERIOR RAIL

49. F.A.U. VENT TO OUTSIDE AIR

50. 22"x54" ATTIC ACCESS W STAIRS

51. F.A.J. IN ATTIC - PROVIDE MIN. 22"X30" ATTIC ACCESS PAN - PROVIDE FUEL GAS. REFER TO UTILITY PLAN DETAIL 88/AD5

52. DUCT CHASE - DETAIL 89 & 90/AD5 - REFER TO MECH. PLA

54. I/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS

. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOAR APPLIED TO THE GARAGE SIDE

SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF \$\frac{1}{2}\text{" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF \$\frac{1}{2}\text{GYPSUM BOARD}

57. EXTERIOR SHELF - REFER TO ELEV. FOR HEIGH

58. NOT USED

9. NOT USED

60. SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION

61. NOT USED

62. DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL.

NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.





50' SERIES

NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD.

NORTH CAROLINA

SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE** BUILDING CODES

ISSUE DATE: 09/11/18 PROJECT No.: 1350999:57 DIVISION MGR.:

REVISIONS: SEE BELOW 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
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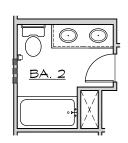
DIVISION REVISIONS
NCI9047NCP/ 00/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

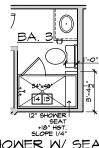
FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

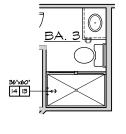


DUAL SINK

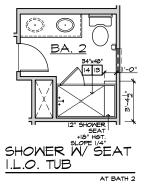
AT BATH 2

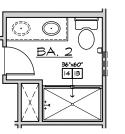


SHOWER W/ SEAT I.L.O. TUB AT BATH 3

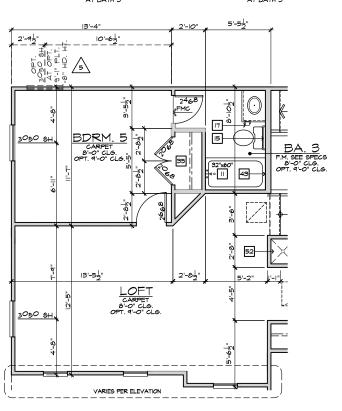


SHOWER I.L.O. TUB





SHOWER I.L.O. TUB



BEDROOM 5 W/ BATH 3 AND LOFT AT GAME ROOM

SECOND FLOOR PLAN OPTIONS

SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

FLOOR PLAN NOTES

- SINK WITH GARBAGE DISPOSAL VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- DISHMASHER PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) VERIFY WITH MANUFACTURER SPEC'S
- 36" COOKTOP W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) CABINET MOUNTED MICROMAYE INCLUDED OVEN WITH VENT VERIFY WITH MANUFACTURER SPEC'S.
- 34" CLEAR REFRIGERATOR SPACE PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).
- DOUBLE OVEN VERIFY WITH MANUFACTUER SPEC'S.
- . BASE CABINETS REFER TO INTERIOR ELEVATIONS
- 8. UPPER CABINETS REFER TO INTERIOR ELEVATIONS
- IO. ISLAND CABINET REFER TO INTERIOR ELEVATIONS
- TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSURE (NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S.
- 12. OVAL TUB VERIFY DIMENSIONS WITH MANUFACTURER SPECS
- SHOMER PAN WITH WAINSCOT TO 84" VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.
- 14. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE
- 15. TOWEL BAR
- 16. NOT USED
- 17. TOILET PAPER HOLDER
- 18. EXTEND VANITY REFER TO INTERIOR ELEVATIONS 19. OPTIONAL SINK
- 20. PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)
- 21. DRYER VENT
- 22. NOT USED
- 23. FREE STANDING LAUNDRY SINK VERIFY DIMENSIONS WITH MFR'S SPEC'S.
- 24. ELECTRIC WATER HEATER LOCATE ON 16" HIGH FRAMED PLATFORM
- 25. TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR MIN. 6" ABOVE & MAX. 24" ABOVE GRADE
- 26. NOT USED
- 27. NOT USED
- 20. PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS
- 29. NON-COMBUSTIBLE HEARTH MATERIAL
- 30. ROUTE OF FIREPLACE "B" VENT FROM BELOW -PROVIDE 0.S.B. SHAFT
- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 32. +34" +38" HIGH HANDRAIL DETAIL 83/AD5 33. COATS WITH SHELF & POLE - DETAIL 73/AD4
- 34. LINEN SHELVES PER SPEC
- 35. WARDROBE WITH SHELF & POLE DETAIL 73/AD4 U.N.O.
- 36. MEDIA NICHE REFER TO INTERIOR ELEVATIONS
- 37. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIGH
- 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HGT.
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4
- 42. LOCATION OF PLUMBING WASTE DROP FROM ABOVE 43. 2x6 MALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2x4 WALL
- 46. LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW
- 48. EXTERIOR RAIL
- 49. F.A.J. VENT TO OUTSIDE AIR 50. 22"x54" ATTIC ACCESS W/ STAIRS
- F.A.J. IN ATTIC PROVIDE MIN. 22"x30" ATTIC ACCESS P. PROVIDE FUEL GAS. REFER TO UTILITY PLAN DETAIL 88/AD5
- 52. DUCT CHASE DETAIL 89 \$ 90/AD5 REFER TO MECH. PLAY
- 53. RETURN AIR GRILL (R.A.G.) -REFER TO MECHANICAL PLAN
- 54. I/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS
- . THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE
- SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING, PROVIDE (I) LAYER OF $\frac{1}{2}$ % TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING, PROVIDE (I) LAYER OF $\frac{1}{2}$ % GYPSUM BOARD
- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 58. NOT USED
- 59. NOT USED
- 61. NOT USED
- 63. OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/8-INCH THICK, OR SHALL BE 20-MINUTE FIRE RATED. DOORS SHALL BE WEATHERSTRIPPED

NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.





NORTH CAROLINA 50' SERIES

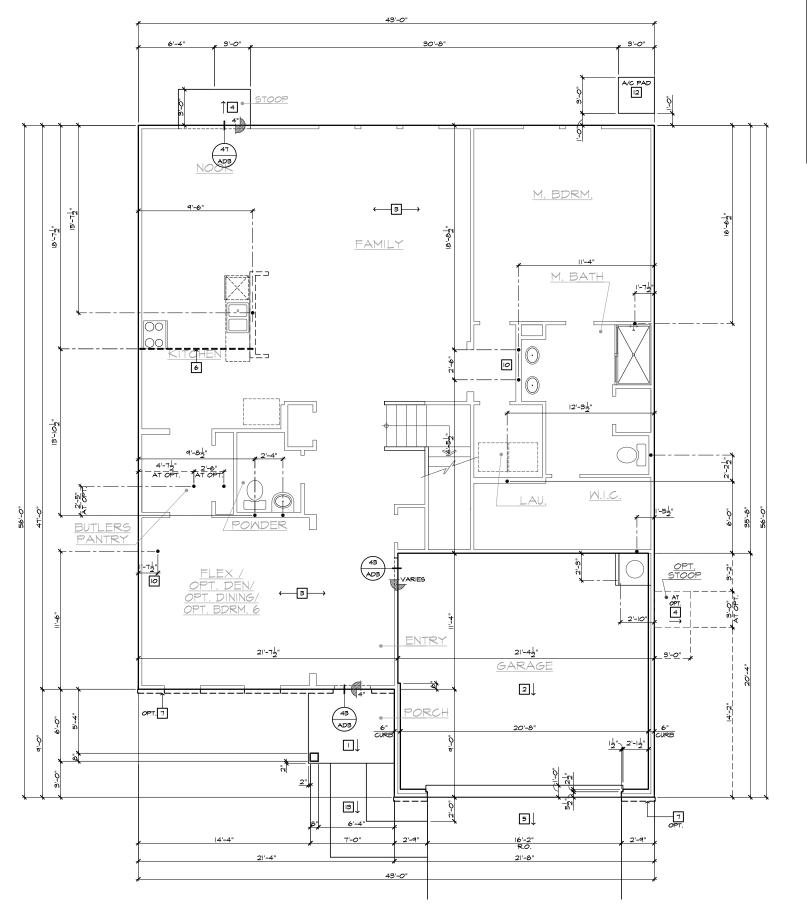
KB HOME NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 . FAX: (919) 472-0582
- 2018 NORTH **CAROLINA STATE**
 - **BUILDING** CODES
- 09/11/18 ISSUE DATE:
- PROJECT No.: 1350999:57 DIVISION MGR.: REVISIONS: SEE BELOW
- 2018 CODE UPDATE
 NC19015NCP/ 03/15/19 / CTD
- DIVISION REVISIONS NC19022NCP/ 03/15/19 / CTD
- DIVISION REVISIONS NC19028NCP/ 04/22/19 / FAE
- DIVISION REVISIONS NC19047NCP/ 08/01/19 / FAE
- DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA PLAN BRROR NC21014NCP / 02-12-21 / KBA
- 7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA





1.6



SLAB INTERFACE PLAN 'A'

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

BASIC PLAN AT SLAB-ON-GRADE

SLAB PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.

2. CONCRETE 6ARAGE SLAB PER STRUCTURAL - SLOPE 1/6" PER. 1-0" MIN. TOWARD DOOR OPENING.
3. CONCRETE FOUNDATION PER STRUCTURAL.

CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.

CONCRETE DRIVEWAY SLOPE I/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.

). PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.

7. 5" BRICK LEDGE FOR MASONRY VENEER.

8. 5" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

ELEVATIONS.

IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO FOUR OF SLAB.

II. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.

II. AC PAD. VERIFY LOCATION.

III. 36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN.





NORTH CAROLINA 50' SERIES

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DIVISION REVISIONS
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DIVISION REVISIONS NCI9647NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

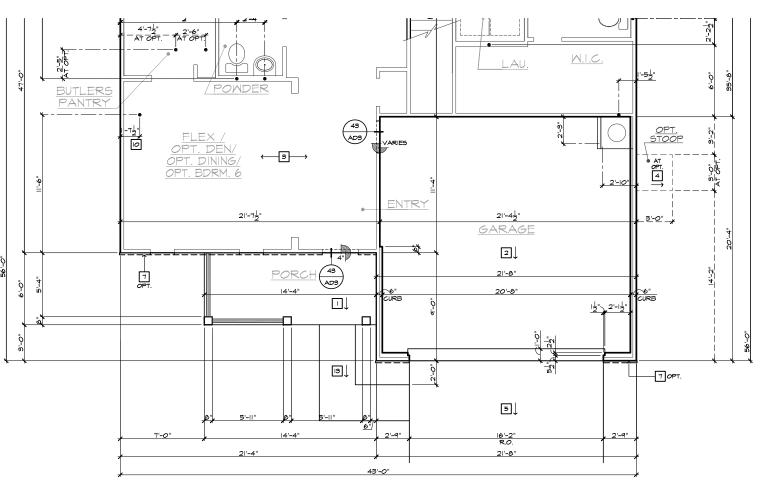
FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

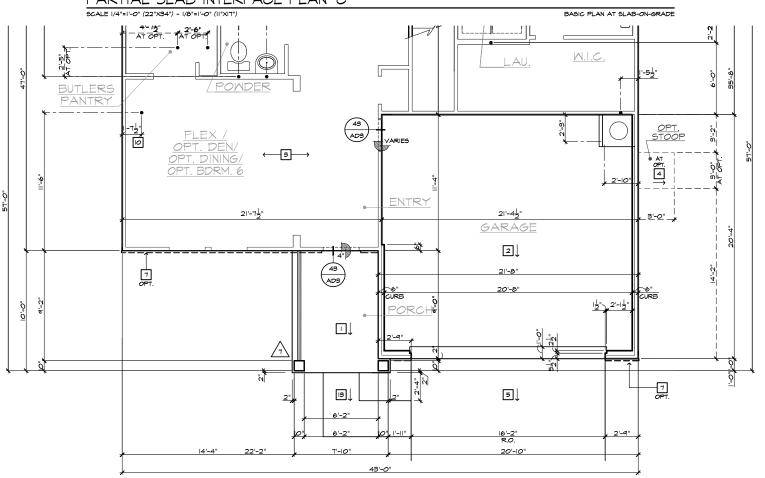
SPEC. LEVEL 1

RALEIGH-DURHAM 50' SERIES

2.1



PARTIAL SLAB INTERFACE PLAN 'C'



PARTIAL SLAB INTERFACE PLAN 'B'

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XIT")

BASIC PLAN AT SLAB-ON-GRADE

SLAB PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

- CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
- 2. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1-0" MIN. TOMARD DOOR OPENING.
 3. CONCRETE FOUNDATION PER STRUCTURAL.
- . CONCRETE STOOP: 36"x36" STANDARD SLOPE 1/4" PER FT. MIN.
- 5. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
- 6. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
- 7. 5" BRICK LEDGE FOR MASONRY VENEER.
 8. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
- REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
- IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
- | 11. 4" MIN. 8 | /4" MAX. TO HARD SURFACE. | 12. A/C PAD. VERIFY LOCATION. | 13. 36" WIDE WALKWAY- SLOPE | /4" PER FT. MIN.





NORTH CAROLINA 50' SERIES

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DIVISION REVISIONS
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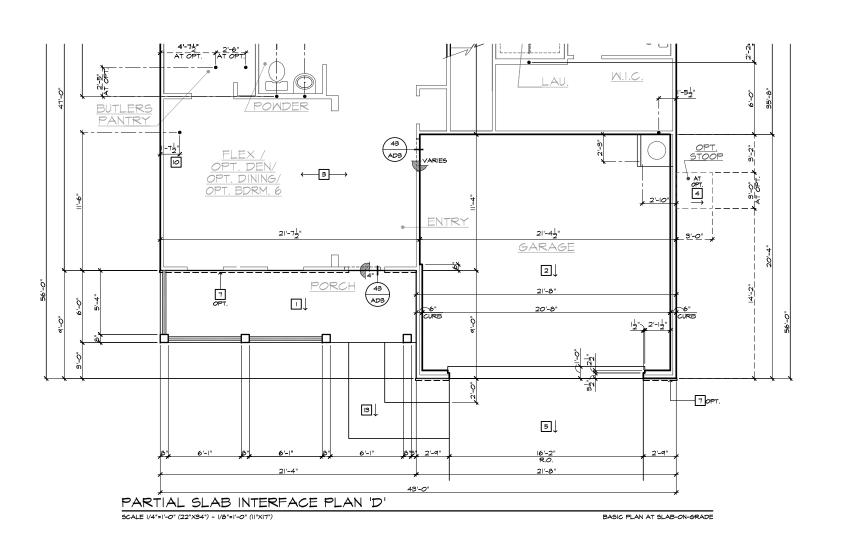
DIVISION REVISIONS
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PLAN ERROR NC21014NCP / 02-12-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

2.2



SLAB PLAN NOTES

- # SLAB PLAN
 NOTE: NOT ALL KEY NOTES APPLY. CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
- 2. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1-0" MIN. TOMARD DOOR OPENING.
 3. CONCRETE FOUNDATION PER STRUCTURAL.

- CONCRETE FOUNDATION PER STRUCTURAL.
 CONCRETE STOOP, SA'SBE'S TANDARD SLOPE I/4" PER FT. MIN.
 CONCRETE PRIVENAY SLOPE I/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
 FROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIEY LOGATION.

- 7. 5" BRICK LEDGE FOR MASONRY VENEER.
 8. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
- REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
- ELEVATIONS.

 IO. VERIFY ALL PLIMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

 II. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.

 II. 4"C PAD, VERIFY LOCATION.

 III. 36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN.





NORTH CAROLINA 50' SERIES

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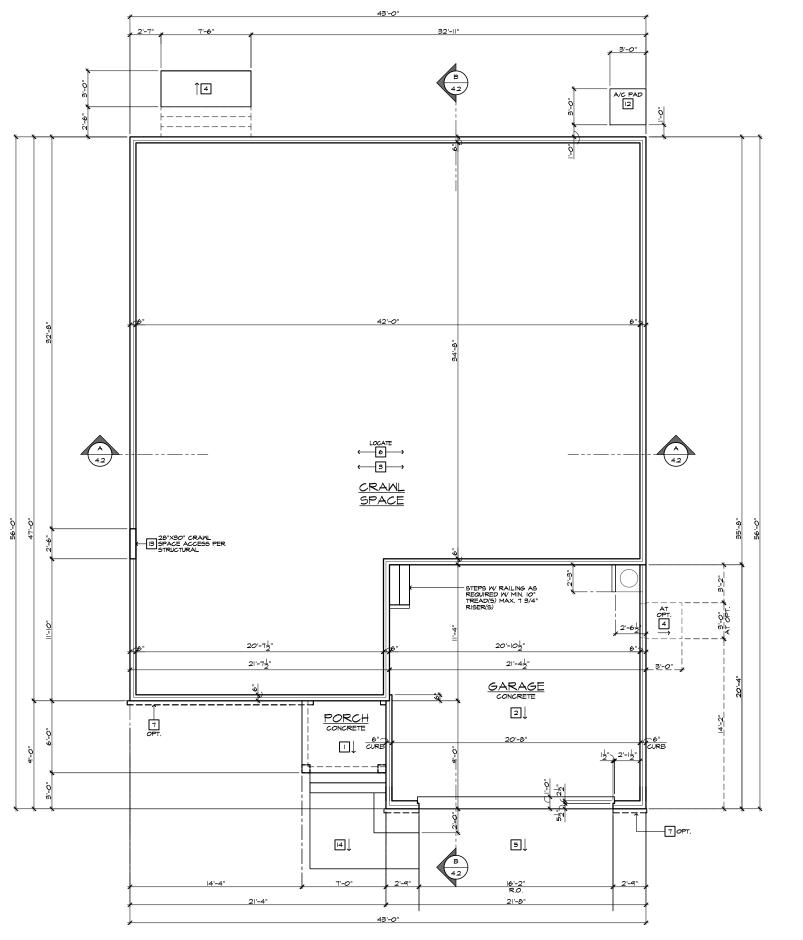
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PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

PLAN: 243.2939-R

2.3



CRAWL SPACE PLAN 'A'

SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

FOUNDATION PLAN NOTES

FOUNDATION P.
NOTE: NOT ALL KEY NOTES APPLY.

- CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE
 1/4" PER FT. MIN.
 CONCRETE 6ARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER.
 1'-0" MIN. TOWARD DOOR OPENING.
- 3. FOUNDATION PER STRUCTURAL.
- 4. STAIR LANDING: 36"x36" MIN.
- CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
- PROVIDE UNDER FLOOR VENTILATION
- 7. 4" TOE KICK FOR MASONRY VENEER.
- 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
- REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
- IO. VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

 II. 4" MIN. 7 3/4" MAX. TO HARD SURFACE.

- 12. A/C PAD. VERIFY LOCATION.
 13. CRAWL SPACE ACCESS
 14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 m TEL: (919) 768-7988 m FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 09/11/18 ■ PROJECT No.: 1350999:57 ■ DIVISION MGR.:

REVISIONS: SEE BELOW

2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NCI9028NCP/ 04/22/19 / FAE

DIVISION REVISIONS NCI9647NCP/ 08/01/19 / FAE

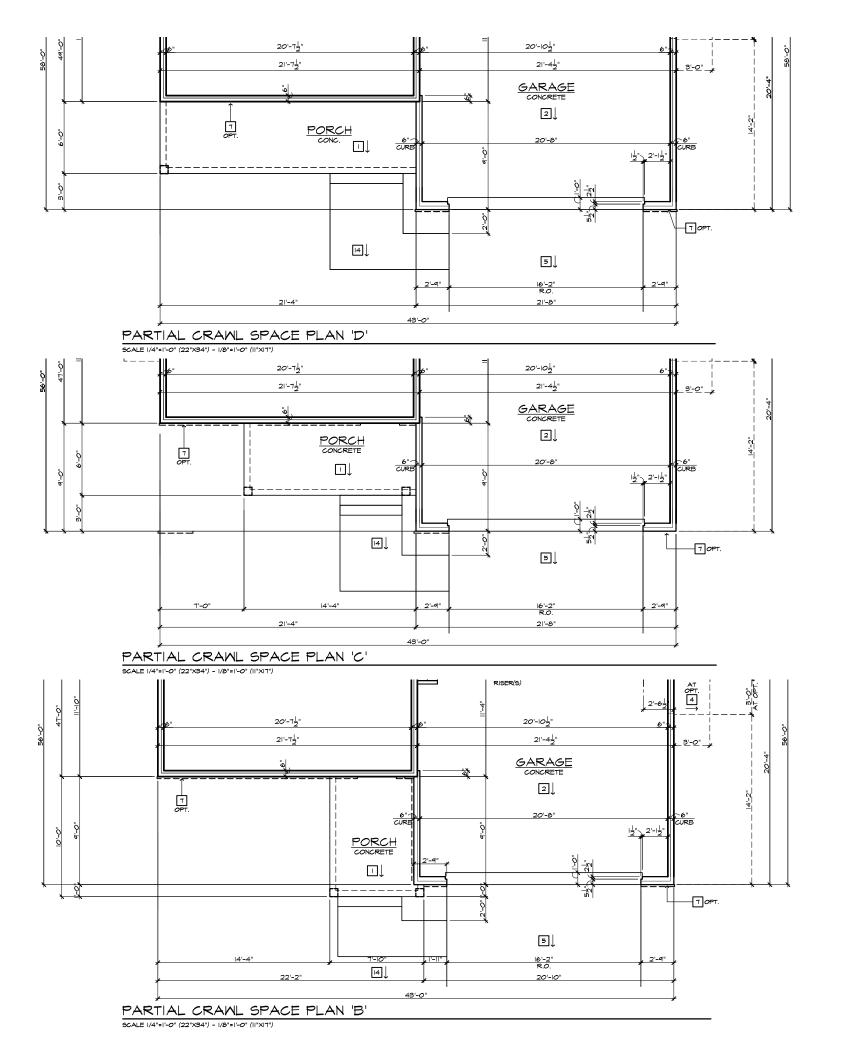
DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

2.4



FOUNDATION PLAN NOTES

FOUNDATION P

- CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.
- CONCRETE GARAGE SLAB PER STRUCTURAL SLOPE 1/8" PER 1'-0" MIN. TOWARD DOOR OPENING.
- 3. FOUNDATION PER STRUCTURAL.
- 4. STAIR LANDING: 36"x36" MIN.
- CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
- PROVIDE UNDER FLOOR VENTILATION
- 7. 4" TOE KICK FOR MASONRY VENEER.
- 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
- REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
- IO. VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL
- II. 4" MIN. 7 3/4" MAX. TO HARD SURFACE.
- 12. A/C PAD. VERIFY LOCATION.
 13. CRAWL SPACE ACCESS
 14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

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2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 09/11/18 ■ PROJECT No.: 1350999:57 ■ DIVISION MGR.:

REVISIONS: SEE BELOW

P 2018 CODE UPDATE
NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

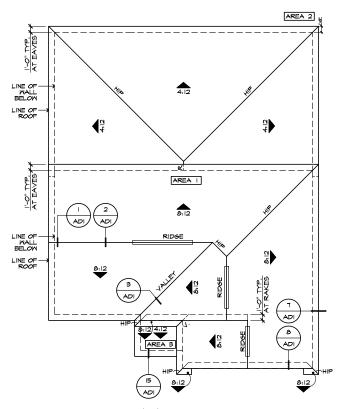
PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

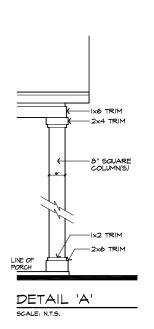
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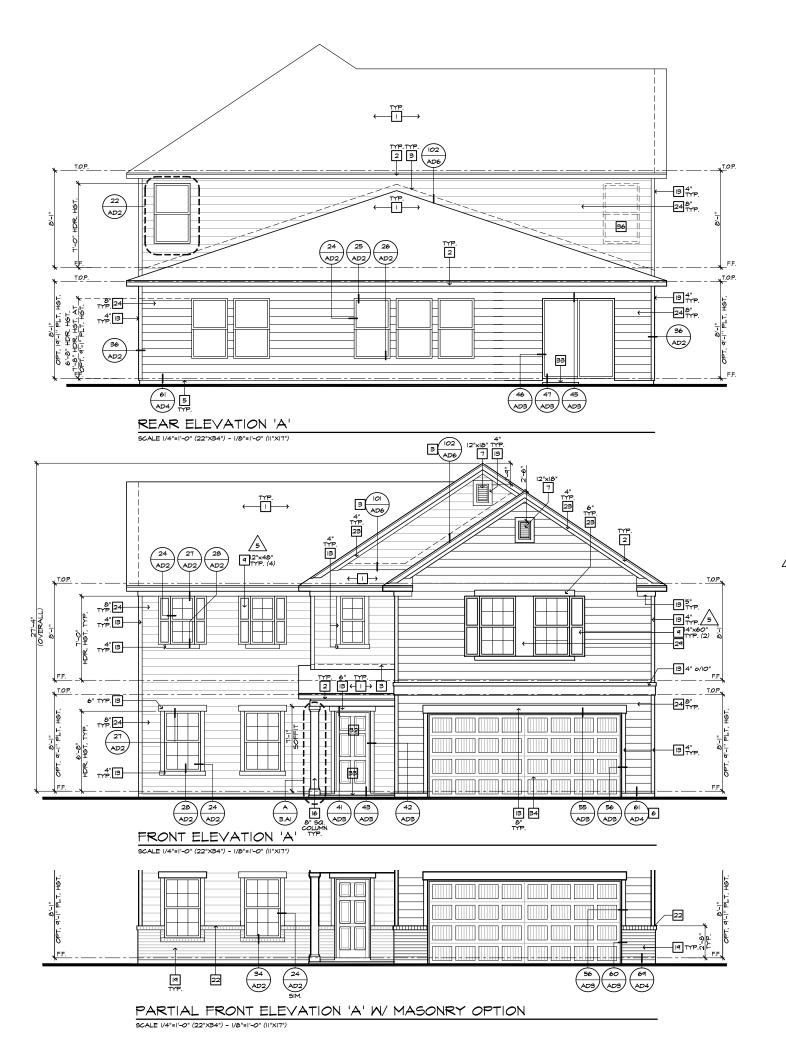
SPEC. LEVEL 1 RALEIGH-DURHAM



ROOF PLAN 'A'

SCALE I/8"=1'-0" (22"X34") - I/I6"=1'-0" (II"XI7")





2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED 24"x24" CHIMNEY DECORATIVE VENT HOME DECORATIVE CORBEL DECORATIVE SHUTTERS IO. PEDIMENT, SEE ELEVATION FOR TYPE II. RECESSED ELEMENT
12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE 13. TRIM - SEE ELEVATION FOR SIZE 14. SYNTHETIC MATERIAL PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE 17. SHAKE SIDING 18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS 20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE 22. ROWLOCK COURSE 23. FRIEZE BOARD
24. SIDING W/ 4" CORNER TRIM PER SPECS 25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM **NORTH CAROLINA** 27. LIGHT WEIGHT PRECAST STONE TRIM 28. RAILINGS (+36" U.N.O.) 50' SERIES 29. VINYL WRAP 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE. KB HOME 31. BRACKET OR KICKER - FYPHON OR EQ. NORTH CAROLINA DIVISION 32 ENTRY DOOR 33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN. 4518 S. MIAMI BLVD. 34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP SUITE 180 DURHAM, NC 27703 36. OPTIONAL DOOR/MINDOW - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF TEL: (919) 768-7988 FAX: (919) 472-0582 38. KEYSTONE 39. SOLDIER CROWN 4L WATER TABLE 42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE 2018 NORTH ROOF PLAN NOTES 'A' CAROLINA STATE INDICATES ROOF SLOPE AND DIRECTION, U.N.O. 8:12 **BUILDING** ROOF MATERIAL: COMPOSITION SHINGLE 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. CODES 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE. UN.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS. ATTIC VENT CALCULATIONS PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3"-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDES BY EAVE VENTS, (LON VENTING) (20) No.-R. 806 2)

* CALCULATION BY VISO, HIGHLOW VENTING NOT REQUIRED.

APPROXIMATE RIDGE VENT LOCATIONS SHOWN, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD. AREA I / MAIN
VENTILATION REQUIRED:
ATTIC AREA | 1235 | 50. FT. | 300 = | 4.|| 50. FT. | X | 144 = | 54|.24 | 50. | N. | X | 50% = | 245.42 | 50. | N. ISSUE DATE: PROJECT No.: 1350999:57 DIVISION MGR.: VENTILATION PROVIDED: SEE BELOW 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD (60) LIN. FEET OF VENTILATED SOFFIT (5 SQ. IN./FOOT) = TOTAL VENTILATION PROVIDED AREA 2 / FIRST FLOOR ROOF (REAR) VENTILATION REQUIRED: ATTIC AREA 989 SQ. FT. /300 = 3.2 SQ. FT. X |44 = 460.0 SQ. |N. X 50% = 230.4 SQ. |N. DIVISION REVISIONS NCI9028NCP/ 04/22/19 VENTILATION PROVIDED: DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA TOTAL VENTILATION PROVIDED: FLAN ERROR
NC21014NCP / 02-18-21 / KBA AREA 3 / PORCH VENTILATION REQUIRED: ATTIC AREA 7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA VENTILATION PROVIDED:
(--) LIN FEET OF RIDGE VENT AT (18 SQ. IN.FOOT) =
(6) LIN FEET OF VENTILATED SOFFIT (5 SQ. IN.FOOT) =
(--) 5-144 ROOF VENT(S) AT (144 SQ. IN. EA) = TOTAL VENTILATION PROVIDED: NOTES: ALL VENT OPENINGS SHALL BE COVERED WITH 1/4" CORROSION RESISTANT METAL MESH. FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUSS MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS. 243.2939-R SHEET: 3.A1 LOCATE HIGH VENTING MINIMUM 3'-O" VERTICAL DISTANCE ABOVE WHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS, PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS. SPEC. LEVEL 1

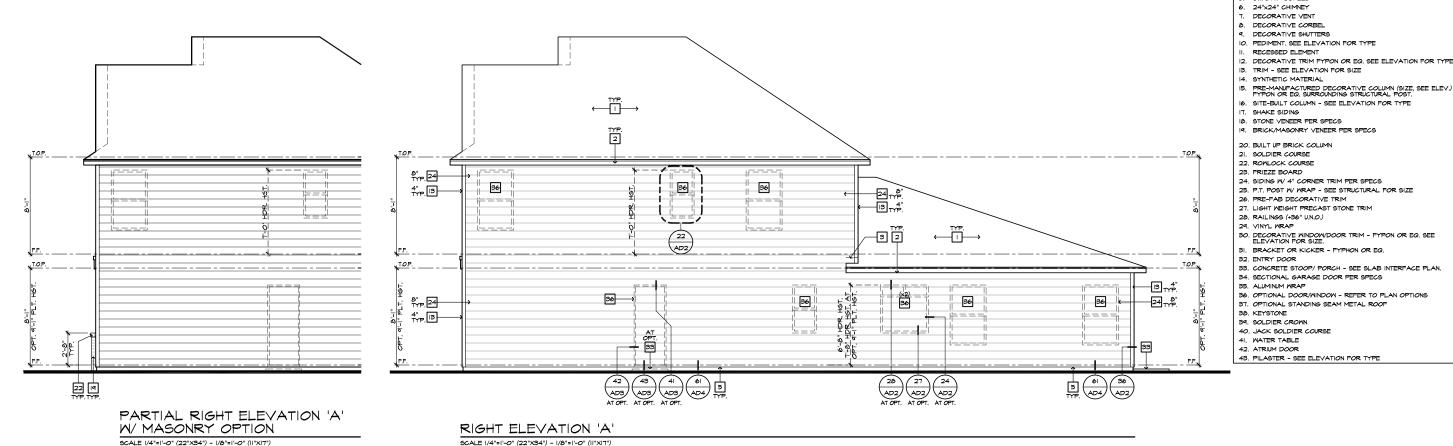
ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

RALEIGH-DURHAM

50' SERIES



TYP. 22 AD2 TYP. 23 -24 _Tp". -13 _Tp". 24 AD2 27 102 AD6 3 AD2 4" 23 2 TYP. -[13] 4" *o/*8" \$ 5"p. 24 13 6" 8" 5Q. COLUMN 4"p.[3] 36 36 33 36 AD2 61 5 AD4 TYP. 9 22

LEFT ELEVATION 'A'

PARTIAL LEFT ELEVATION 'A' W/ MASONRY OPTION

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

1. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

9. GI. FLASHING
4. G.I. FLASHING
5. GI. DRIP SCREED

6. 24"x24" CHIMNEY

7. DECORATIVE CYBEL

HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH
CAROLINA STATE
BUILDING
CODES

ISSUE DATE: 09/11/18
PROJECT No.: 1350999:57
DIVISION MGR.: DS
REVISIONS: SEE BELOW

P 2018 CODE UPDATE NCI90ISNCP/ 03/IS/19 / CTD

DIVISION REVISIONS
NCI9022NCF/ 03/15/19 / CTD

DIVISION REVISIONS
NCI9028NCF/ 04/22/19 / FAE

DIVISION REVISIONS NC19047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

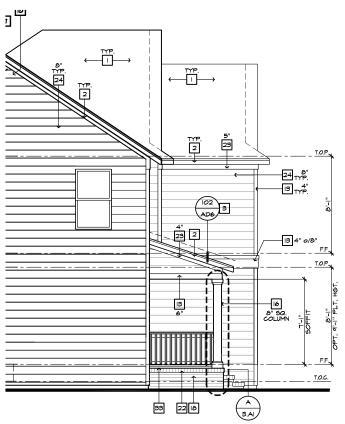
PLAN ERROR
NC21014NCP / 02-12-21 / KBA
FRAMEWALK COMMENTS

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

PLAN: 243.2939-R

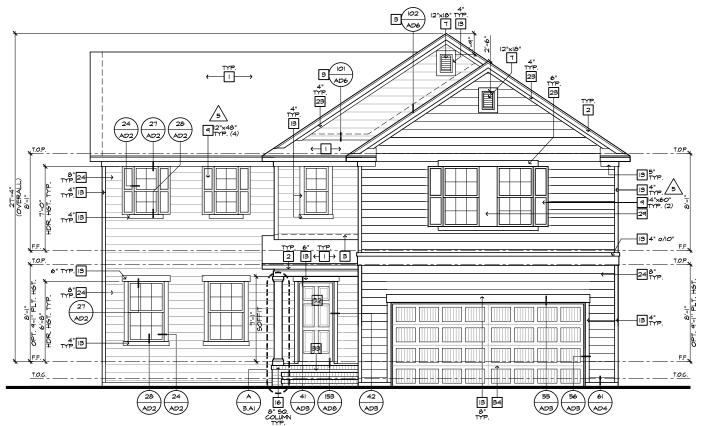
3.A2

spec. level 1
RALEIGH-DURHAM
50' SERIES



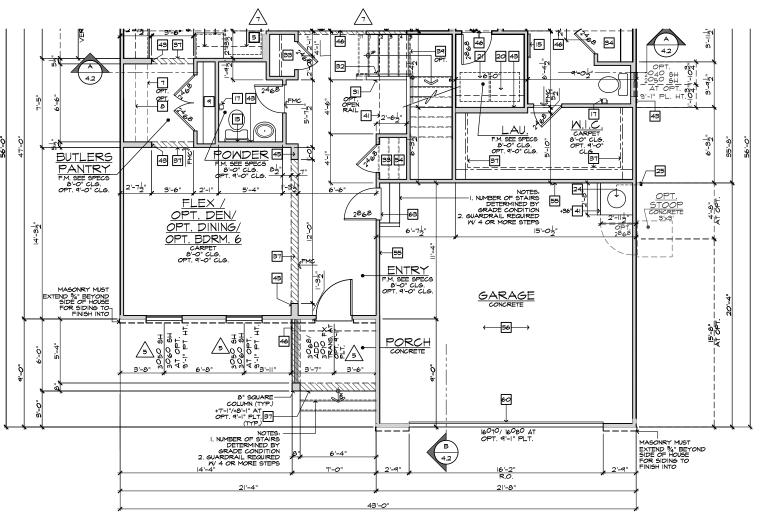
PARTIAL LEFT ELEVATION 'A' AT CRAWL SPACE

SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")



FRONT ELEVATION 'A' W/ CRAWL SPACE

SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")



PARTIAL FIRST FLOOR PLAN 'A' AT CRAWL SPACE

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XIT"

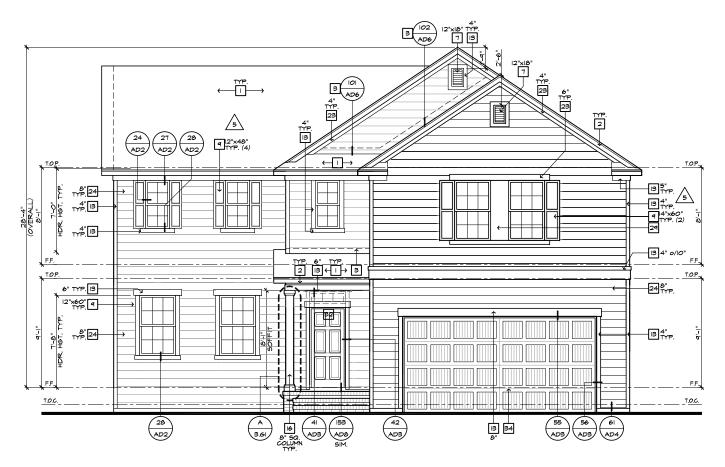
BASIC PLAN

ELEVATION NOTES NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED 6. 24"x24" CHIMNEY 7. DECORATIVE VENT HOME 8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE I. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE IS. TRIM - SEE ELEVATION FOR SIZE 14. SYNTHETIC MATERIAL 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE IT. SHAKE SIDING 18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS 20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE 22. ROWLOCK COURSE 23. FRIEZE BOARD 24. SIDING W/ 4" CORNER TRIM PER SPECS 25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM **NORTH CAROLINA** 27. LIGHT WEIGHT PRECAST STONE TRIM 50' SERIES 28. RAILINGS (+36" U.N.O.) 29. VINYL WRAP 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE. KB HOME NORTH CAROLINA DIVISION 31. BRACKET OR KICKER - FYPHON OR EQ. 32. ENTRY DOOR 4518 S. MIAMI BLVD. 33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS SUITE 180 35. ALUMINUM WRAP DURHAM, NC 27703 36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS TEL: (919) 768-7988 37. OPTIONAL STANDING SEAM METAL ROOF FAX: (919) 472-0582 38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE 4I. WATER TABLE 42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE # PARTIAL PLAN NO 2018 NORTH PARTIAL PLAN NOTES **CAROLINA STATE** NOTE: NOT ALL KEY NOTES APPLY 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5 **BUILDING** 37. FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT 38. NOT USED CODES 39. LINE OF CEILING BREAK 40. INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT 41. LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4 43. 2x6 WALL 44. 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL 45. DOUBLE 2x4 WALL 46. LINE OF FLOOR ABOVE 47. LINE OF FLOOR BELOW 48. EXTERIOR RAIL ISSUE DATE: PROJECT No.: 1350999:57 SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING, PROVID (I) LAYER OF 3%" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF 1/3 GYPSUM BOARD DIVISION MGR.: REVISIONS: SEE BELOW ' 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD 57. EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT 60. SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION DIVISION REVISIONS NC19022NCP/ 03/15/19 / CTD DIVISION REVISIONS NC19028NCP/ 04/22/19 / FAE DIVISION REVISIONS NC19047NCP/ 08/01/19 / FAE DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA PLAN ERROR NC21014NCP / 02-18-21 / KBA FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

PLAN: 243.2939-R SHEET: 3.A3

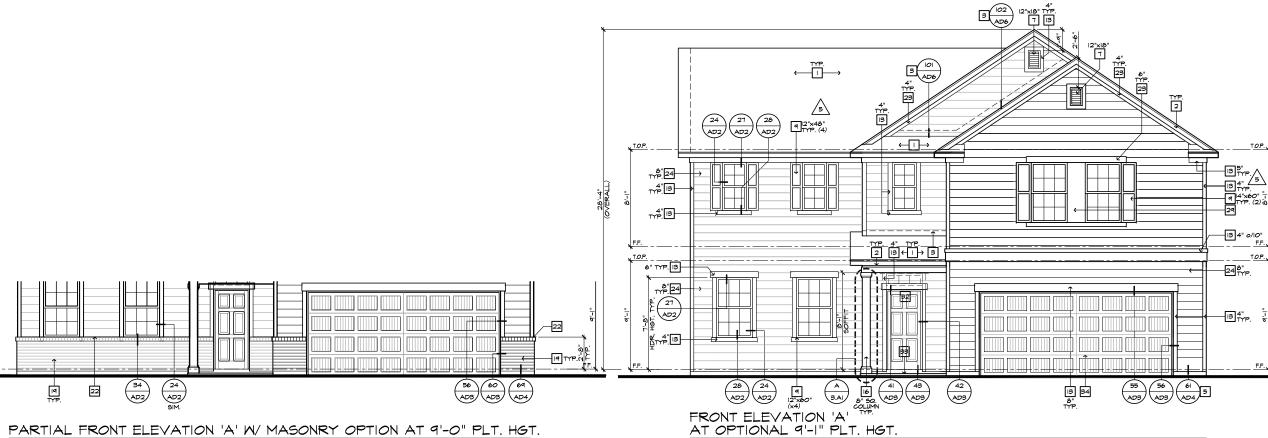
NOTE:
REFER TO BASIC ELEVATIONS FOR INFORMATION NOT
SHOWN HERE
RALEIGH-DUI

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE



FRONT ELEVATION 'A' W/ CRAWL SPACE AT OPTIONAL 9'-I" PLT. HGT.

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL
- 9. DECORATIVE SHUTTERS
- IO. PEDIMENT. SEE ELEVATION FOR TYPE II. RECESSED ELEMENT
- 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM SEE ELEVATION FOR SIZE
 14. SYNTHETIC MATERIAL
- 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
- IT. SHAKE SIDING
- 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS
- 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. SIDING W/ 4" CORNER TRIM PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 28. RAILINGS (+36" U.N.O.)
- 29. VINYL WRAP
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN.
- 34. SECTIONAL GARAGE DOOR PER SPECS
- 35. ALUMINUM WRAP 36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS
- 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE
 41. WATER TABLE

- 43. PILASTER SEE ELEVATION FOR TYPE

HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703
- TEL: (919) 768-7988 FAX: (919) 472-0582
- 2018 NORTH **CAROLINA STATE** BUILDING CODES
- ISSUE DATE: ■ PROJECT No.: 1350999:57 ■
- DIVISION MGR.: SEE BELOW
- P 2018 CODE UPDATE
 NC19015NCP/ 03/15/19 / CTD
- DIVISION REVISIONS
 NC19022NCP/ 03/15/19 / CTD
- DIVISION REVISIONS
 NC19047NCP/ 08/01/19 / FAE
- DIVISION REVISIONS
 NC20038NCP/ 10/29/20 / KBA
- PLAN ERROR NC21014NCP / 02-18-21 / KBA
- FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

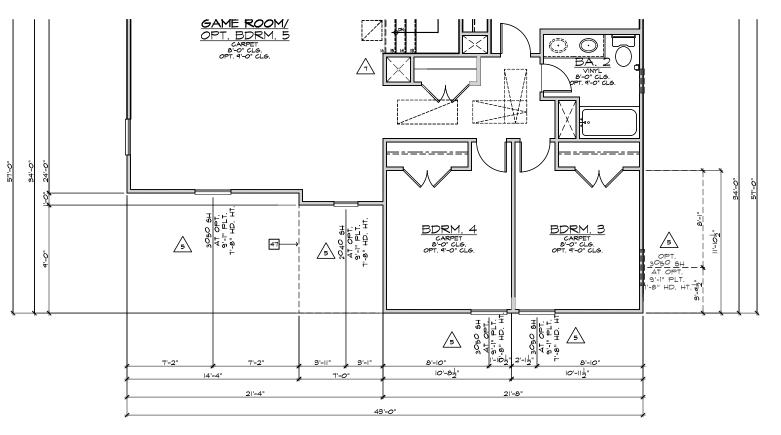
243.2939-R

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

SCALE |/4"=|'-O" (22"X34") - |/8"=|'-O" (||"X|7")

SCALE I/4"=I'-O" (22"X34") - I/6"=I'-O" (II"XIT")

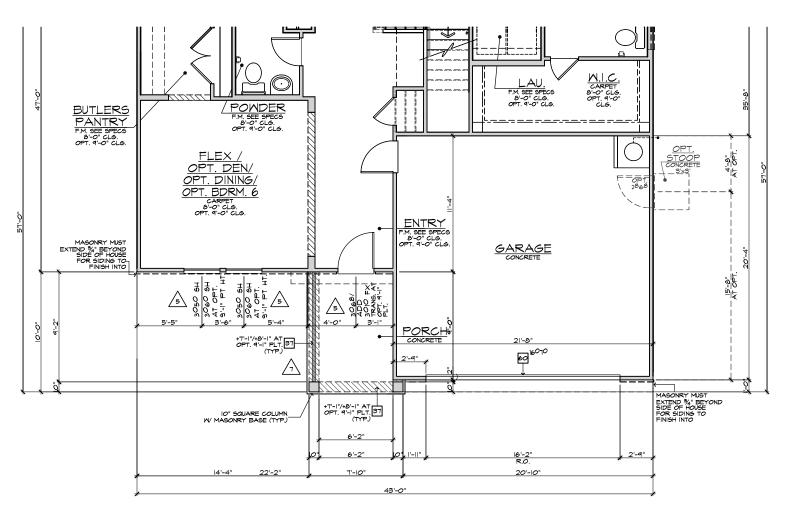
3.**A**4



PARTIAL SECOND FLOOR PLAN 'B'

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

BASIC PLAN



PARTIAL FIRST FLOOR PLAN 'B'

SCALE I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XI7")

BASIC PLAN

PARTIAL PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY

- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 37. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIGHT 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HGT
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4
- 43. 2x6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2x4 MALL
- 46. LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW 48. EXTERIOR RAIL

- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 m TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING CODES

- PROJECT No.: 1350999:57 ■
- DIVISION MGR.: SEE BELOW B
- 2018 CODE UPDATE
 NCI90ISNCP/ 03/IS/I9 / CTD
- DIVISION REVISIONS
 NC19022NCP/ 03/15/19 / CTD
- DIVISION REVISIONS
 NC19028NCP/ 04/22/19 / FAE
- DIVISION REVISIONS
 NC19047NCP/ 08/01/19 / FAE
- DIVISION REVISIONS
 NC20038NCP/ 10/29/20 / KBA PLAN ERROR NC21014NCP / 02-18-21 / KBA
- FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

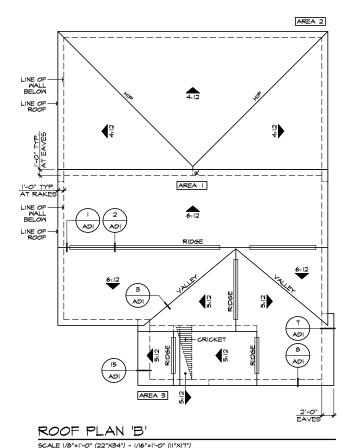


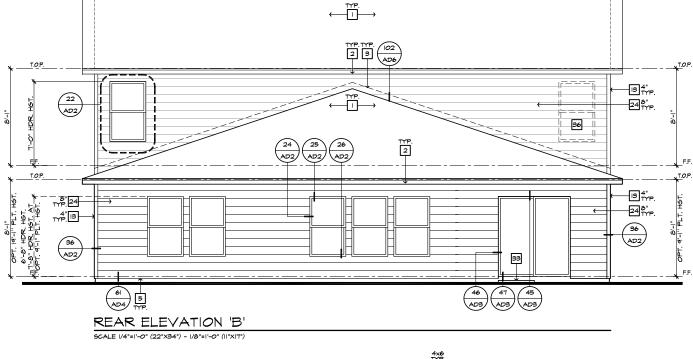
SPEC. LEVEL 1 RALEIGH-DURHAM

50' SERIES

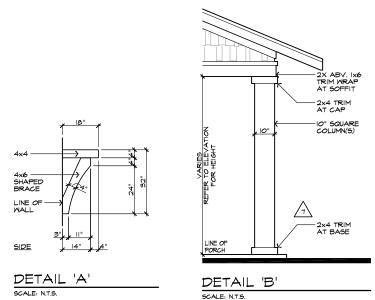
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NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

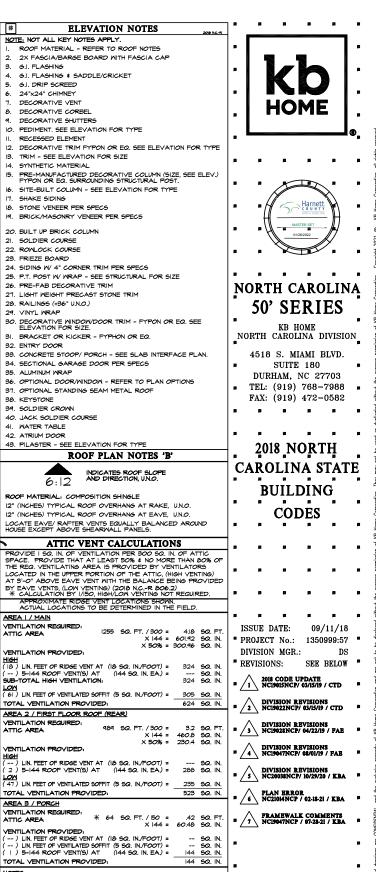












ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY. ROOF MATERIAL - REFER TO ROOF NOTES
 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET

5. G.I. DRIP SCREED

6 24"x24" CHIMNEY DECORATIVE VENT

8. DECORATIVE CORBEL

II. RECESSED ELEMENT

17. SHAKE SIDING

20. BUILT UP BRICK COLUMN

26. PRE-FAB DECORATIVE TRIM

28. RAILINGS (+36" U.N.O.)

21. SOLDIER COURSE

22. ROWLOCK COURSE

23. FRIEZE BOARD

32. ENTRY DOOR

38. KEYSTONE 39. SOLDIER CROWN

42. ATRIUM DOOR

AREA I / MAIN

VENTILATION PROVIDED

TOTAL VENTILATION PROVIDED: AREA 2 / FIRST FLOOR ROOF (REAR)
VENTILATION REQUIRED:
ATTIC AREA

TOTAL VENTILATION PROVIDED:

TOTAL VENTILATION PROVIDED:

AREA 3 / PORCH VENTILATION REQUIRED: ATTIC AREA

LOW (61) LIN FEET OF VENTILATED SOFFIT (5 SQ. IN/FOOT) =

(47) LIN FEET OF VENTILATED SOFFIT (5 SQ. IN/FOOT) =

35. ALUMINUM WRAP

40. JACK SOLDIER COURSE 41. WATER TABLE

6:12

9. DECORATIVE SHUTTERS

IO. PEDIMENT. SEE ELEVATION FOR TYPE

18. STONE VENEER PER SPECS
19. BRICK/MASONRY VENEER PER SPECS

24. SIDING W/ 4" CORNER TRIM PER SPECS 25 PT POST W/ WRAP - SEE STRUCTURAL FOR SIZE

31. BRACKET OR KICKER - FYPHON OR EQ.

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

ROOF MATERIAL: COMPOSITION SHINGLE

ROOF PLAN NOTES 'B'

INDICATES ROOF SLOPE AND DIRECTION, U.N.O.

27. LIGHT WEIGHT PRECAST STONE TRIM

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

13. TRIM - SEE ELEVATION FOR SIZE 14. SYNTHETIC MATERIAL

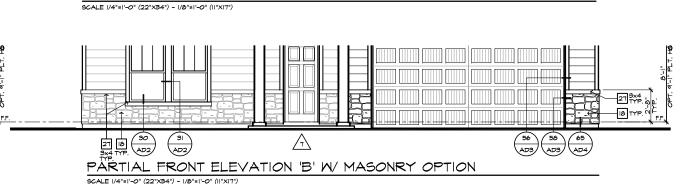
NOTES: ALL VENT OPENINGS SHALL BE COVERED WITH I/4" CORROSION RESISTANT METAL MESH. FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUST MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS.

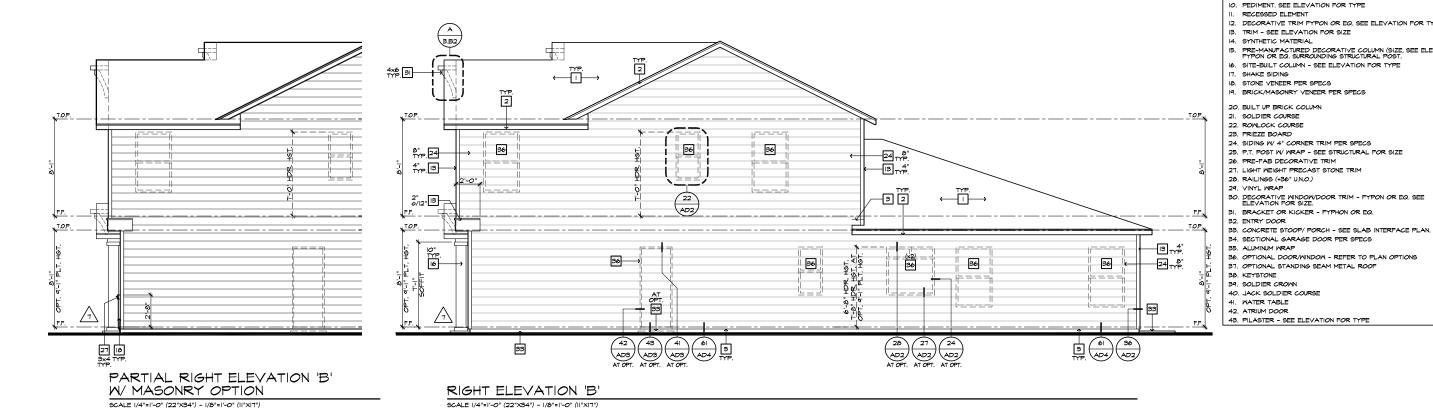
M MOISTOP IN THE SAME MANNER PRESCRIBED FOR WINDOW INSTALLATION DAYS (BAFFLES) PHERE VENT BLOCKS ARE USED BETWEEN ROOF FRAMING WEIGHERS OF PREVENT VENT HOLES FROM BEING BLOCKED BY INSULATION. LOCATE HIGH VENTING MINIMUM 3'-O" VERTICAL DISTANCE ABOV EAVES. WHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS, PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS.

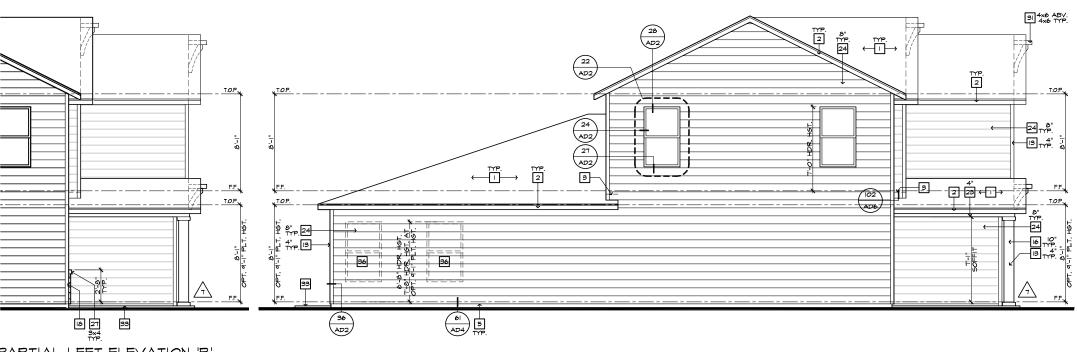
3.**B**2 SPEC. LEVEL 1

243.2939-R

RALEIGH-DURHAM 50' SERIES



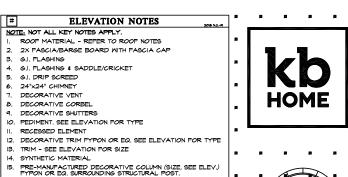




PARTIAL LEFT ELEVATION 'B' W/ MASONRY OPTION

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

LEFT ELEVATION 'B'



6. 24"x24" CHIMNEY 7. DECORATIVE VENT



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING**

CODES

ISSUE DATE: 09/11/18 ■ PROJECT No.: 1350999:57 ■ DIVISION MGR.:

SEE BELOW B

P 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

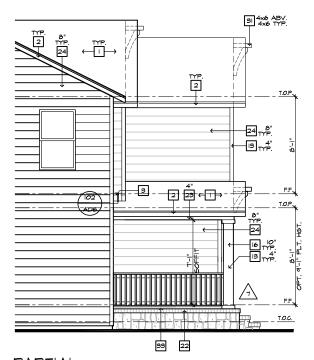
PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

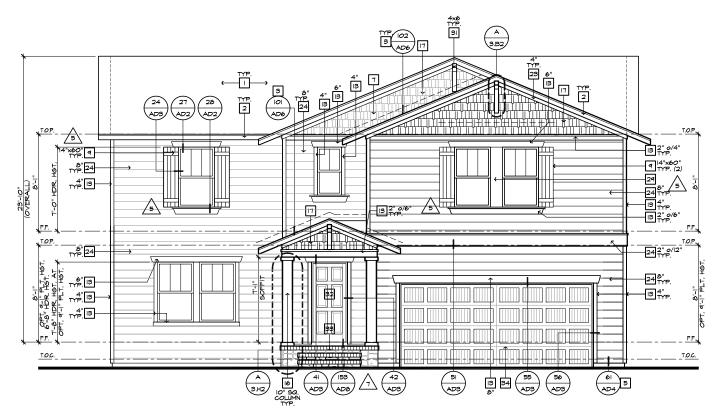
SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

3.**B**3



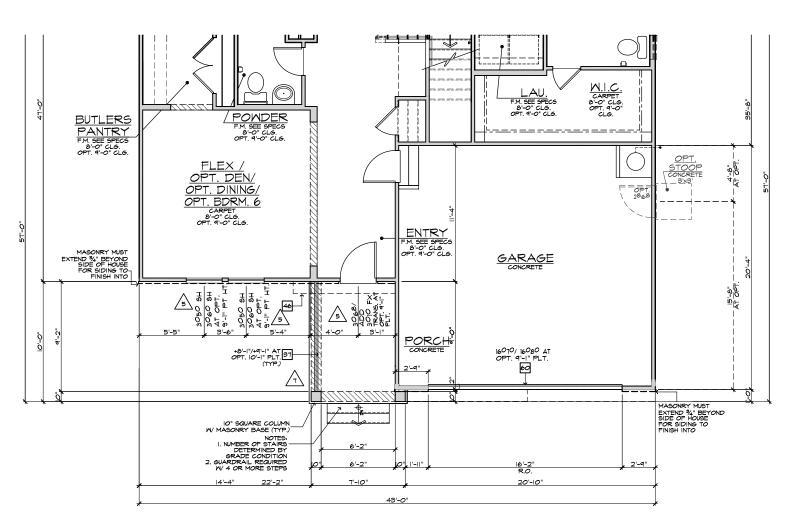
PARTIAL LEFT ELEVATION 'B' AT CRAWL SPACE

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")



FRONT ELEVATION 'B' W/ CRAWL SPACE

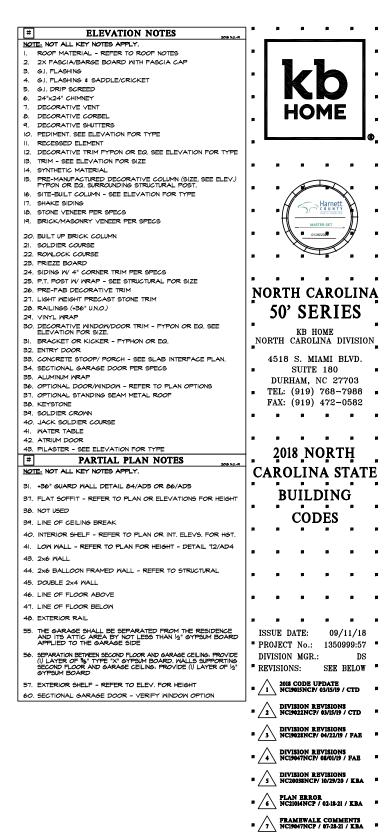
SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



PARTIAL FIRST FLOOR PLAN 'B' AT CRAWL SPACE

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7"

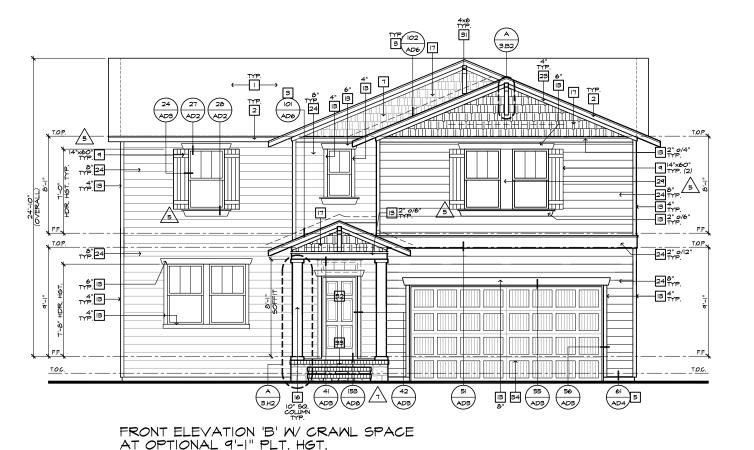
BASIC PLAN



243.2939-R 3.**B**4

SPEC. LEVEL 1 NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE RALEIGH-DURHAM

50' SERIES NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE



SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

ELEVATION NOTES

- NOTE: NOT ALL KEY NOTES APPLY.

 I. ROOF MATERIAL REFER TO ROOF NOTES
- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING

- 4. G.I. FLASHING & SADDLE/CRICKET
 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL II. RECESSED ELEMENT
- 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE
- 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM SEE ELEVATION FOR SIZE
 14. SYNTHETIC MATERIAL
- 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 16. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- IT. SHAKE SIDING 19. BRICK/MASONRY VENEER PER SPECS
- 18. STONE VENEER PER SPECS
- 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. SIDING W/ 4" CORNER TRIM PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 28. RAILINGS (+36" U.N.O.)
- 29. VINYL WRAP 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN.
- 34. SECTIONAL GARAGE DOOR PER SPECS
- 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/WINDOW REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE
 41. WATER TABLE
- 42. ATRIUM DOOR
- 43. PILASTER SEE ELEVATION FOR TYPE

HOME



NORTH CAROLINA 50' SERIES

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2018 NORTH **CAROLINA STATE** BUILDING CODES

ISSUE DATE: ■ PROJECT No.: 1350999:57 ■ DIVISION MGR.:

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NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

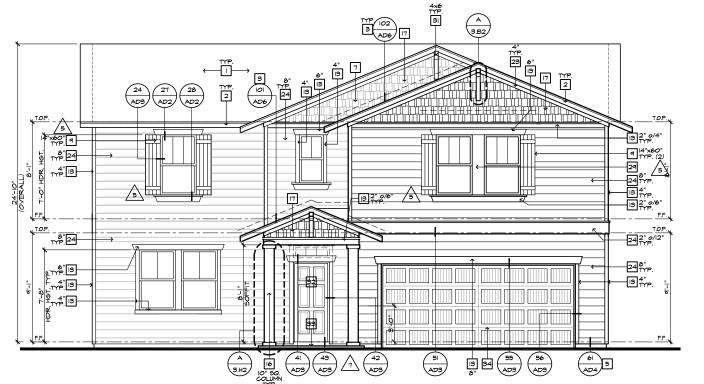
PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

3.**B**5

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

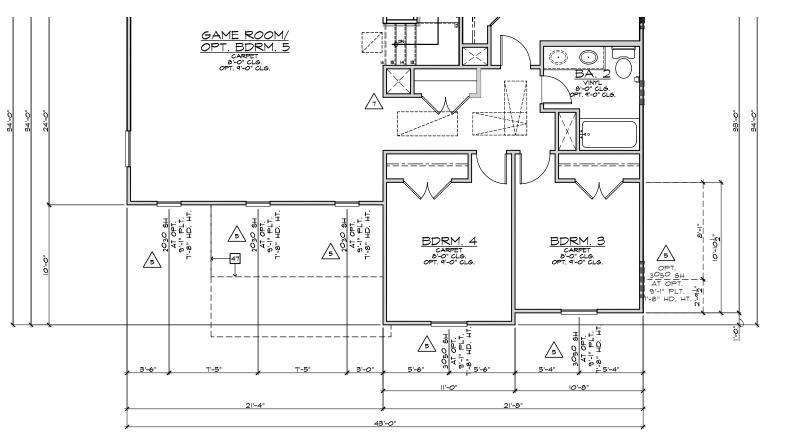




PARTIAL FRONT ELEVATION 'B' W/ MASONRY OPTION AT 9'-0" PLT. HGT.

FRONT ELEVATION 'B' AT OPTIONAL 9'-I" PLT. HGT.

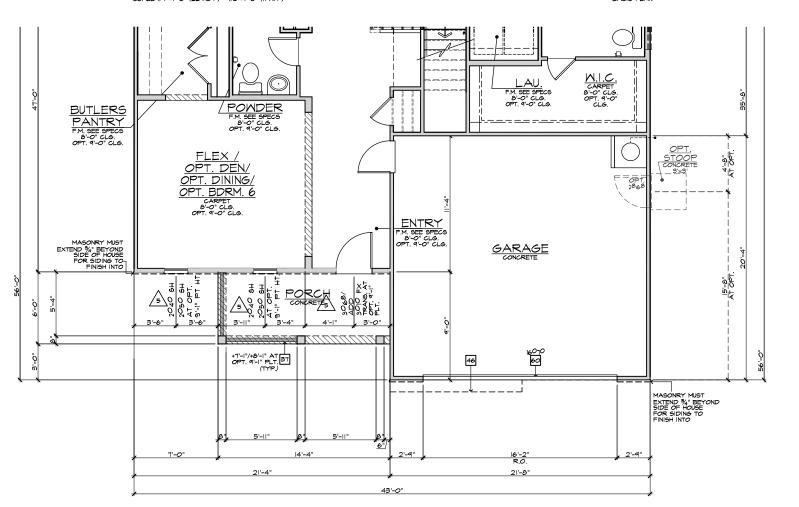
SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XIT")



PARTIAL SECOND FLOOR PLAN 'C'

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

BASIC PLAN



PARTIAL FIRST FLOOR PLAN 'C'

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

PARTIAL PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY

- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 37. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIGHT 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HGT
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4
- 43. 2x6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL

- 45. DOUBLE 2x4 MALL
- 46. LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW
- 48. EXTERIOR RAIL

- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION





NORTH CAROLINA 50' SERIES

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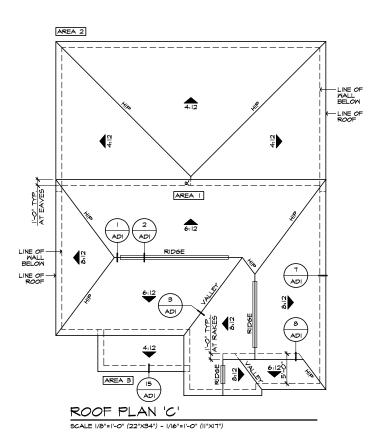
2018 NORTH CAROLINA STATE BUILDING CODES

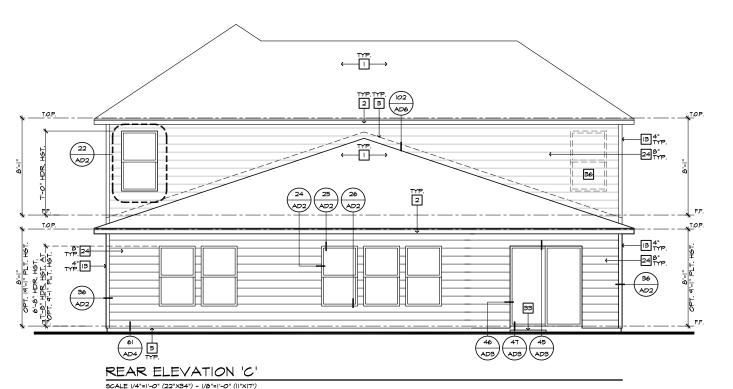
- PROJECT No.: 1350999:57 DIVISION MGR.:
- SEE BELOW B 2018 CODE UPDATE
 NC19015NCP/ 03/15/19 / CTD
- DIVISION REVISIONS
 NC19022NCP/ 03/15/19 / CTD
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- DIVISION REVISIONS
 NC19047NCP/ 08/01/19 / FAE
- DIVISION REVISIONS
 NC20038NCP/ 10/29/20 / KBA
- PLAN ERROR NC21014NCP / 02-18-21 / KBA
- FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

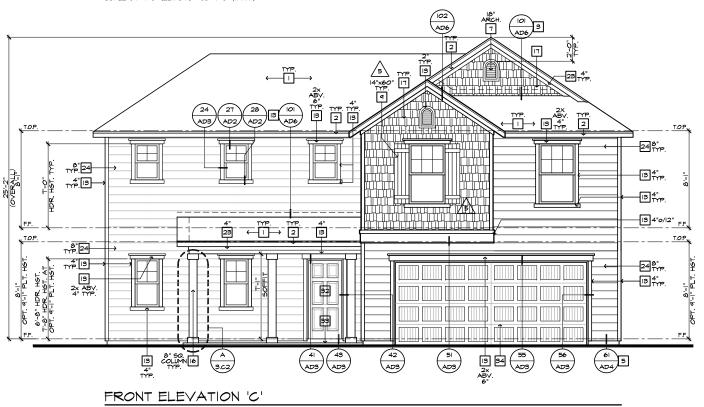


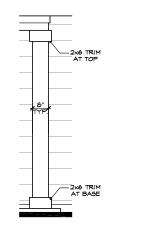
SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE









DETAIL 'A'



PARTIAL FRONT ELEVATION 'C' W/ MASONRY OPTION

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES

- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET
 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL
- 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE
- II. RECESSED ELEMENT
- 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- IS. TRIM SEE ELEVATION FOR SIZE
- 14. SYNTHETIC MATERIAL
- 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
- 17. SHAKE SIDING 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS
- 20. BUILT UP BRICK COLUMN
- 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. SIDING W/ 4" CORNER TRIM PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 28. RAILINGS (+36" U.N.O.) 29. VINYL WRAP
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ.
- 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN.
- 34. SECTIONAL GARAGE DOOR PER SPECS
- 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/WINDOW REFER TO PLAN OPTIONS
- 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE 41. WATER TABLE
- 42. ATRIUM DOOR
- 43. PILASTER SEE ELEVATION FOR TYPE

ROOF PLAN NOTES 'C'



ROOF MATERIAL: COMPOSITION SHINGLE

12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O.
12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O.

LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS.

ATTIC VENT CALCULATIONS PROVIDE I SQ. IN. OF VENTILATION PER 300 30. IN. OF ATTIC
SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS
LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING)
AT 3-0° ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED
BY EAVE VENTS, (LOW VENTING) (2018 N.C.-R. 806.2)

* CALCULATION BY (JISO, HIGH/LOW VENTING NOT REQUIRED.
APPROXIMATE RIDGE VENT LOCATIONS SHOWN.
ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

AREA I / MAIN
VENTILATION REQUIRED:
ATTIC AREA

1238 SQ. FT. /300 = 4.13 SQ. FT X 144 = 594.72 SQ. IN. X 50% = 291.36 SQ. IN. VENTILATION PROVIDED:

#IGH

#IGH

(20) LIN. FEET OF RIDGE VENT AT (18 SQ. IN./F007) = 360 SQ. IN.

LOY

(142) LIN. FEET OF VENTILATED SOFFIT (5 SQ. IN./F007) = 110 SQ. IN.

TOTAL VENTILATION PROVIDED: 1070 SQ. IN. AREA 2 / FIRST FLOOR ROOF (REAR)
VENTILATION REQUIRED:
ATTIC AREA

989 50. FT. / 300 = 3.2 50. FT X | 444 = 460.8 50. IN. X 50% = 230.4 50. IN.

(47) LIN FEET OF VENTILATED SOFFIT (5 SQ. IN/FOOT) = TOTAL VENTILATION PROVIDED:

AREA 3 / PORCH VENTILATION REQUIRED: ATTIC AREA * 86 SQ. FT. / 150 = .57 × 144 = 82.08

VENTILATION PROVIDED:
(---) LIN. FEET OF RIDGE VENT AT (18 90. IN./FOOT) =
(22) LIN. FEET OF VENTILATED SOFFIT (5 50. IN./FOOT) =
(---) 5-144 ROOF VENT(S) AT (144 90. IN. EA) = TOTAL VENTILATION PROVIDED:

NOTES:

ALL VENT OPENINGS SHALL BE COVERED WITH I/4" CORROSION RESISTANT METAL MESH.

LOCATE HIGH VENTING MINIMUM 3'-O" VERTICAL DISTANCE ABOVE EAVES.

MHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS, PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS.





NORTH CAROLINA 50' SERIES

кв номе NORTH CAROLINA DIVISION

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2018 NORTH CAROLINA STATE **BUILDING** CODES

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DIVISION REVISIONS NC19022NCP/ 03/15/19 / CTD

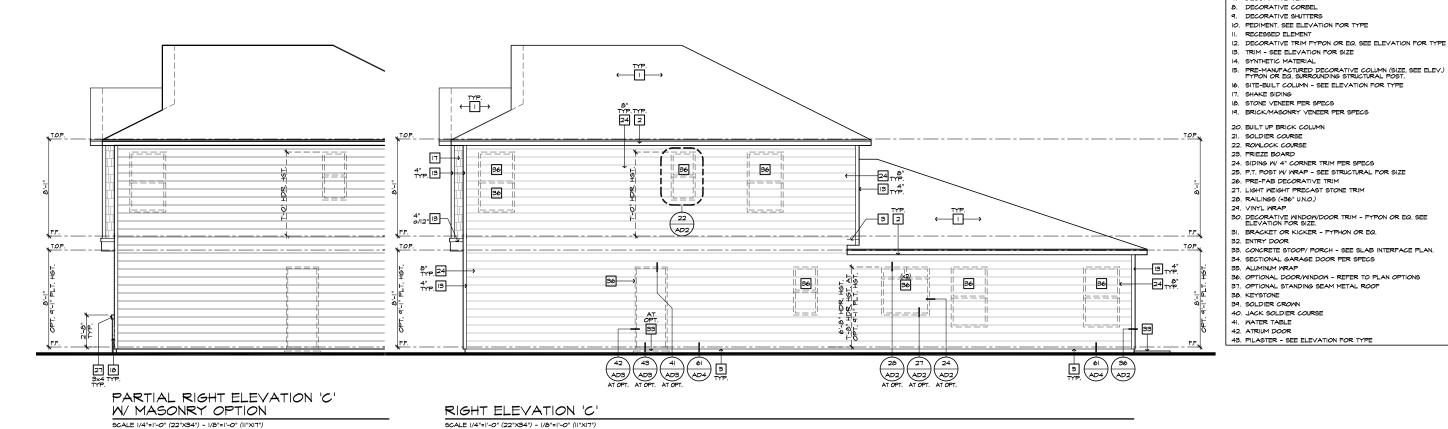
DIVISION REVISIONS NC19028NCP/ 04/22/19 / FAR

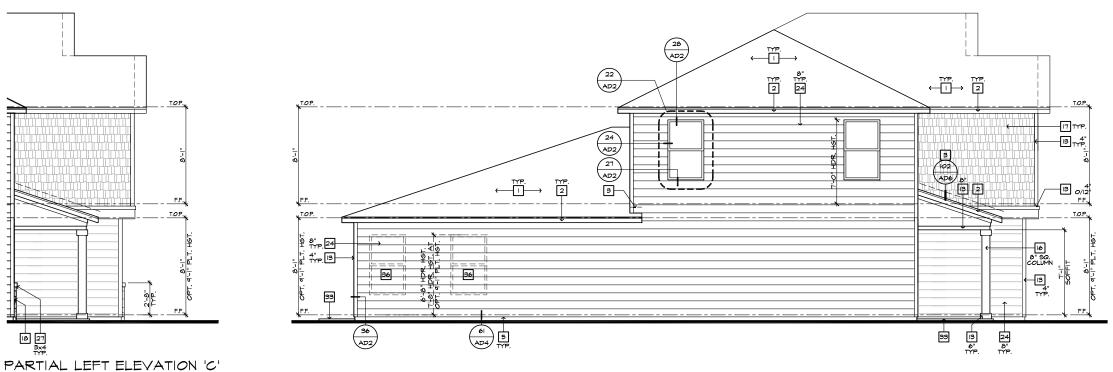
DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA 6 PLAN BRROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

3.C2





HOME

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED

6. 24"x24" CHIMNEY 7. DECORATIVE VENT



NORTH CAROLINA 50' SERIES

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CAROLINA STATE BUILDING CODES

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DIVISION REVISIONS
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NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

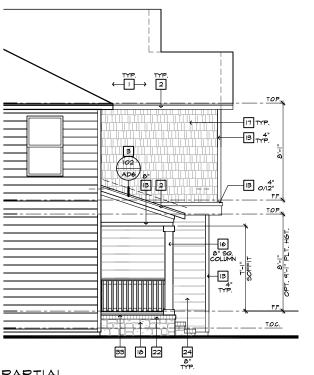
3.C3

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

LEFT ELEVATION 'C' SCALE I/4"=1'-0" (22"X34") - I/6"=1'-0" (II"XIT")

W/ MASONRY OPTION

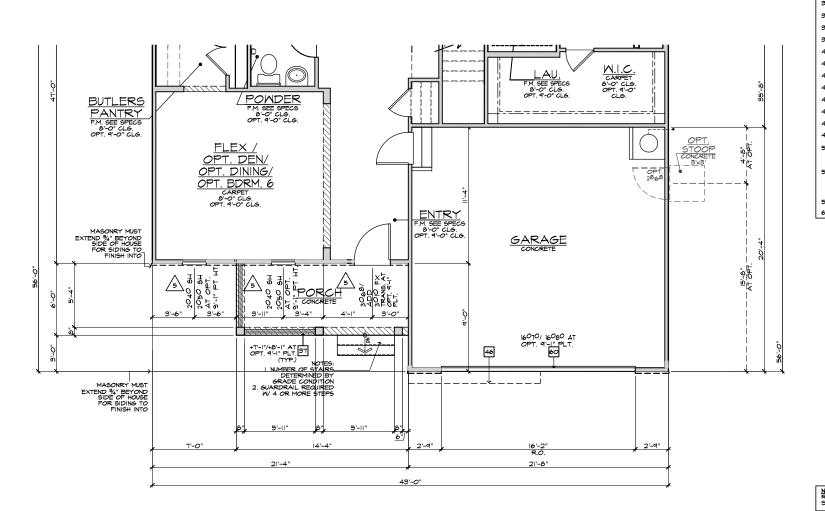
SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



PARTIAL
LEFT ELEVATION 'C' AT CRAWL SPACE
SCALE 1/4"=1"-0" (22"X94") - 1/8"=1"-0" (11"X1")



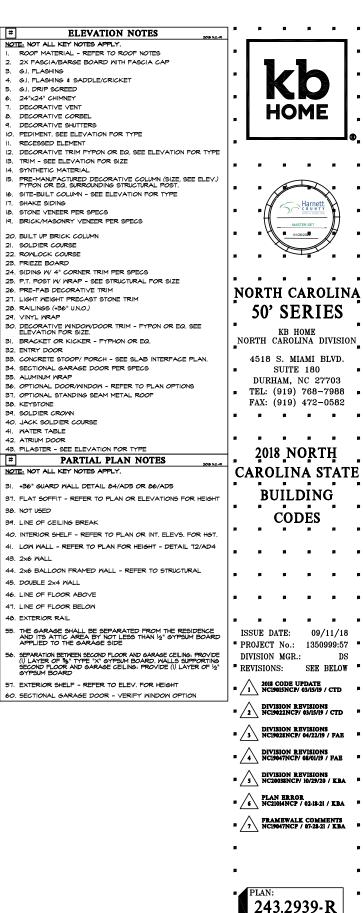
FRONT ELEVATION 'C' W/ CRAML SPACE SCALE 1/4*=1'-0* (22*X94*) - 1/8*=1'-0* (11*X1*)



PARTIAL FIRST FLOOR PLAN 'C' AT CRAWL SPACE

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

BASIC PLAN



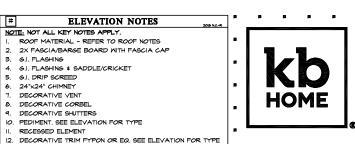
NOTE:
REFER TO BASIC ELEVATIONS FOR INFORMATION NOT
SHOWN HERE

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE SPEC. LEVEL 1
RALEIGH-DURHAM
50' SERIES

3.C4



SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|T")



13. TRIM - SEE ELEVATION FOR SIZE
14. SYNTHETIC MATERIAL

SHAKE SIDING
 STONE VENEER PER SPECS
 BRICK/MASONRY VENEER PER SPECS

23. FRIEZE BOARD
24. SIDING W/ 4" CORNER TRIM PER SPECS

27. LIGHT WEIGHT PRECAST STONE TRIM

31. BRACKET OR KICKER - FYPHON OR EQ.
32. ENTRY DOOR

34. SECTIONAL GARAGE DOOR PER SPECS

42. ATRIUM DOOR
43. PILASTER - SEE ELEVATION FOR TYPE

25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM

30. DECORATIVE WINDOWDOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

36. OPTIONAL DOOR/MINDOW - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF

20. BUILT UP BRICK COLUMN
21. SOLDIER COURSE
22. ROWLOCK COURSE

28. RAILINGS (+36" U.N.O.)

29. VINYL WRAP

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE
41. WATER TABLE

PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)
 EYPON OR EQ. SURROUNDING STRUCTURAL POST.
 SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE



NORTH CAROLINA 50' SERIES

KB HOME
NORTH CAROLINA DIVISION
4518 S. MIAMI BLVD.

SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH

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BUILDING
CODES

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DIVISION REVISIONS
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NC19047NCP/ 08/01/19 / FAB

DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS
NC19047NCP / 07-28-21 / KBA

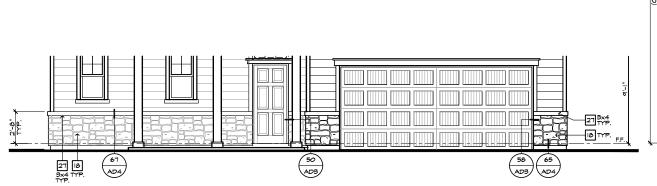
7 NC19047NCP / 07-28-21 / KB/

PLAN: 243.2939-R

3.C5

spec. Level 1
RALEIGH-DURHAM
50' SERIES



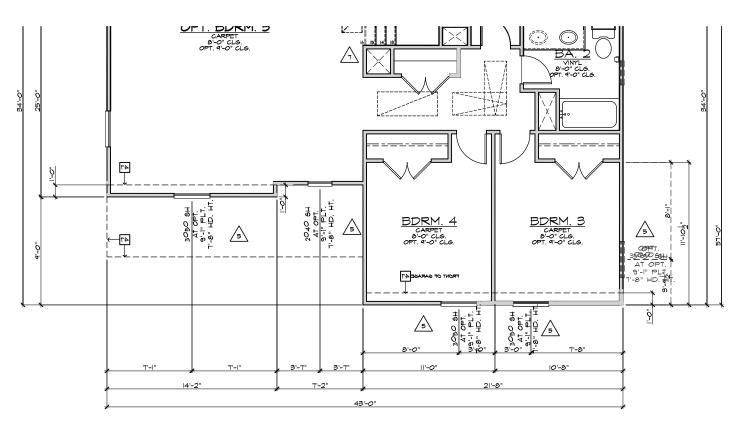


PARTIAL FRONT ELEVATION 'C' W/ MASONRY OPTION AT 9'-0" PLT. HGT.

FRONT ELEVATION 'C'

AT OPTIONAL 9'-1" PLT. HGT.

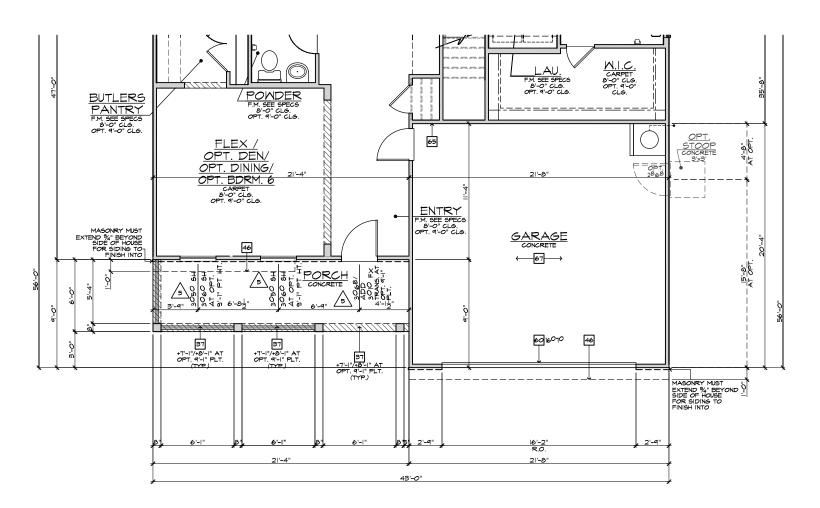
5CALE 1/4"=1"-0" (22"X34") - 1/8"=1"-0" (11"X17")



PARTIAL SECOND FLOOR PLAN 'D'

SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

BASIC PLAN



PARTIAL FIRST FLOOR PLAN 'D'

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

BASIC PLAN

PARTIAL PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY

- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 31. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIGHT 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HGT.
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4
- 43. 2x6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2x4 MALL
- 46. LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW 48. EXTERIOR RAIL
- THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOA APPLIED TO THE GARAGE SIDE
- 56. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING. PROVIDE (I) LAYER OF \$\frac{1}{2}\text{TYPE} \text{"X} & GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING. PROVIDE (I) LAYER OF \$\frac{1}{2}\text{"}
- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

TEL: (919) 768-7988

FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 09/11/18
PROJECT No.: 1350999:57

DIVISION MGR.: DS REVISIONS: SEE BELOW

2018 CODE UPDATE NCI90ISNCP/ 03/IS/I9 / CTD

DIVISION REVISIONS NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NCI9028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NCI904TNCP/ 04/01/19 / FAE

NCI9047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-12-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

PLAN: 243.2939-R

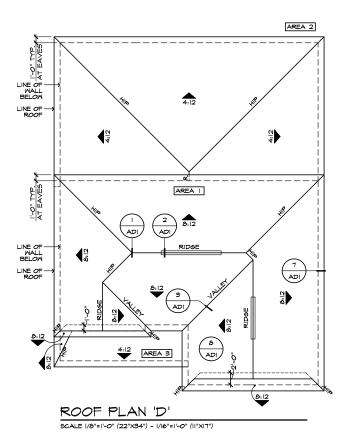
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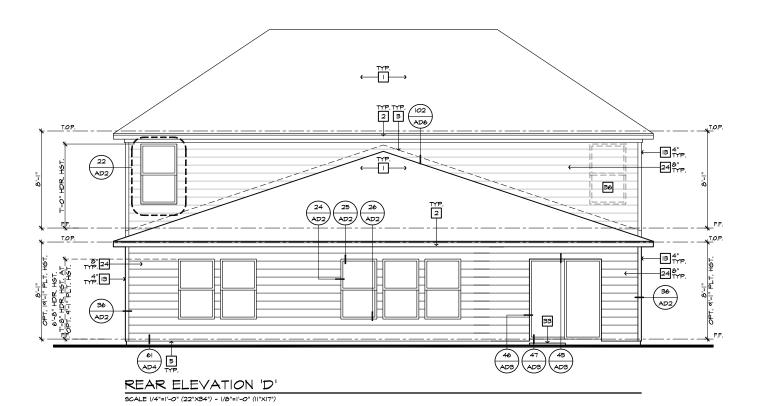
spec. level 1

RALEIGH-DURHAM

50' SERIES

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE









PARTIAL FRONT ELEVATION 'D' W/ MASONRY OPTION

SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

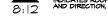
SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES

- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 6. DECORATIVE CORBEI
- 9. DECORATIVE SHUTTERS
- IO. PEDIMENT. SEE ELEVATION FOR TYPE II. RECESSED ELEMENT
- 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM SEE ELEVATION FOR SIZE
 14. SYNTHETIC MATERIAL
- PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 16. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- 17. SHAKE SIDING
- 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS
- 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. SIDING W/ 4" CORNER TRIM PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE
- 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 28. RAILINGS (+36" U.N.O.)
- 29. VINYL WRAP 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN.
- 34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/WINDOW REFER TO PLAN OPTIONS
- 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE
- 4I. WATER TABLE
- 42. ATRIUM DOOR
- 43. PILASTER SEE ELEVATION FOR TYPE

ROOF PLAN NOTES 'D'



ROOF MATERIAL: COMPOSITION SHINGLE 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O.

12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE. U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS.

ATTIC VENT CALCULATIONS

PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC
SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS
LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING)
AT 3-0° ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED
BY EAVE VENTS, (LOW VENTING) (2018 N.C.-R. 806.2)

* CALCULATION BY (JISO, HIGH/LOW VENTING NOT REQUIRED.
APPROXIMATE RIDGE VENT LOCATIONS SHOWN.
ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

1262 SQ. FT. / 300 =

AREA I / MAIN
VENTILATION REQUIRED:
ATTIC AREA

X 144 = 604.6 5Q. IN X 50% = 302.4 5Q. IN VENTILATION PROVIDED:
HIGH
(17) LIN. FEET OF RIDGE VENT AT (18 SQ. IN./FOOT) = 306 SQ. IN.

LOW (61) LIN FEET OF VENTILATED SOFFIT (5 SQ. IN/FOOT) = 305 SQ. IN TOTAL VENTILATION PROVIDED: 611 SQ. IN. AREA 2 / FIRST FLOOR ROOF (REAR)

VENTILATION REQUIRED: ATTIC AREA 989 50. FT. / 300 = 3.2 50. FT X | 444 = 460.8 50. IN. X 50% = 230.4 50. IN.

(47) LIN. FEET OF VENTILATED SOFFIT (5 SQ. IN./FOOT) = 523 SQ IN

TOTAL VENTILATION PROVIDED: AREA 3 / PORCH VENTILATION REQUIRED: ATTIC AREA

 VENTILATION PROVIDED:
 0 50. IN./F0071 = 0 50. IN./F0071 = 0 50. IN./F0071 = 0 50. IN./F0071 = 35 50. IN./F0071 = 35 50. IN./F0071 = 10. IN./F0071 = 10 TOTAL VENTILATION PROVIDED:

NOTES:

ALL VENT OPENINGS SHALL BE COVERED WITH $\ensuremath{\mathsf{I}}/4\ensuremath{\mathsf{I}}$ Corrosion resistant metal mesh.

LOCATE HIGH VENTING MINIMUM 3'-O" VERTICAL DISTANCE ABOVE EAVES.

WHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS, PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS.





NORTH CAROLINA 50' SERIES

кв номе NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH CAROLINA STATE **BUILDING** CODES

ISSUE DATE: PROJECT No.: 1350999:57 DIVISION MGR.:

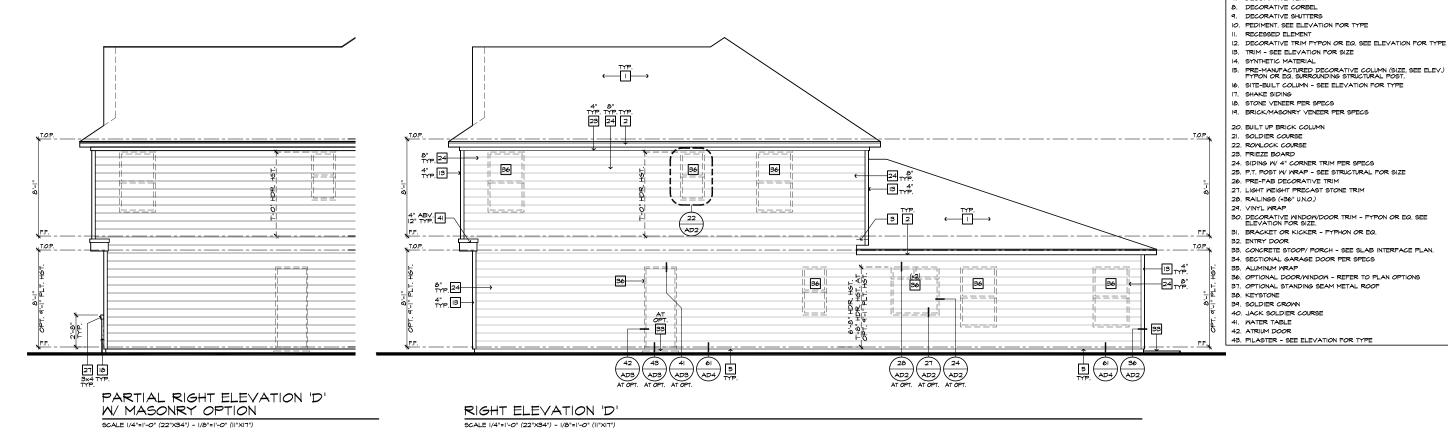
REVISIONS: SEE BELOW 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

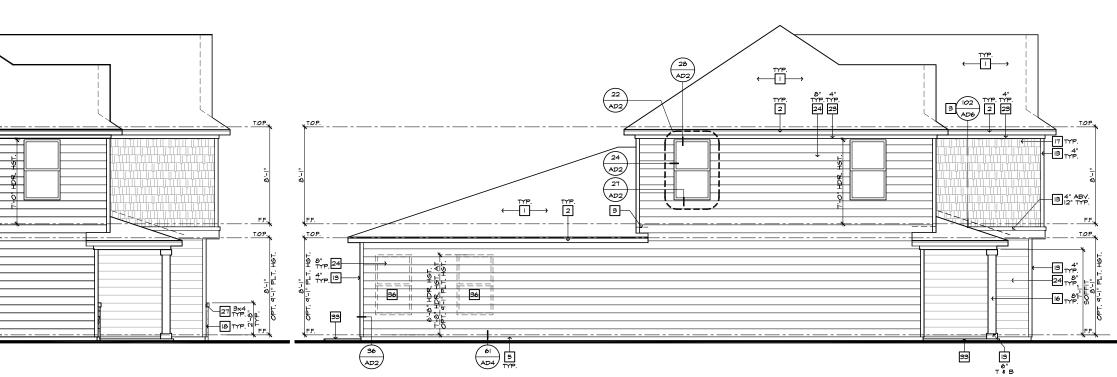
6 PLAN BRROR NC21014NCP / 02-18-21 / KBA

7 FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

3.D2





PARTIAL LEFT ELEVATION 'D' W/ MASONRY OPTION

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

LEFT ELEVATION 'D' SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7") NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED HOME

ELEVATION NOTES

6. 24"x24" CHIMNEY 7. DECORATIVE VENT



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

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2018 NORTH **CAROLINA STATE**

BUILDING

CODES

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2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE

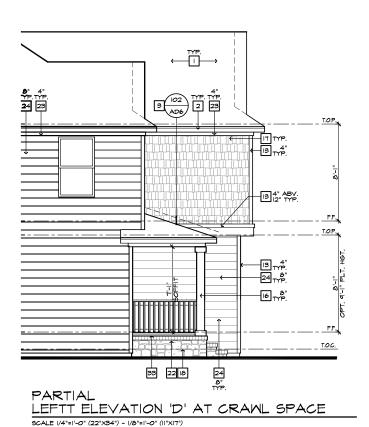
DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

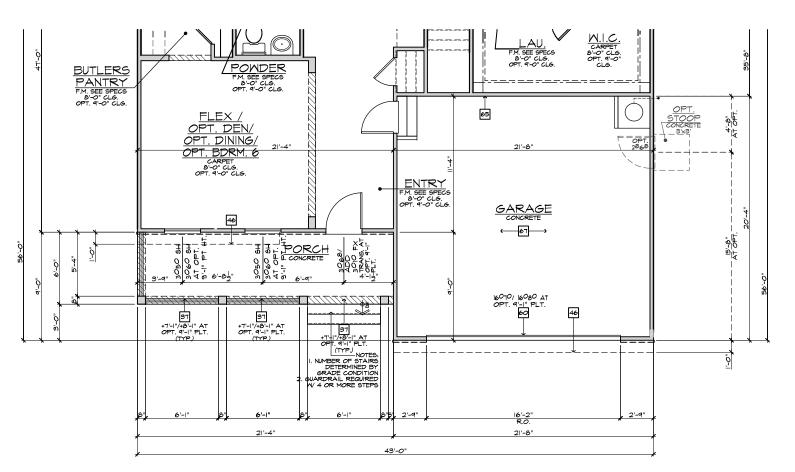
243.2939-R

3.D3





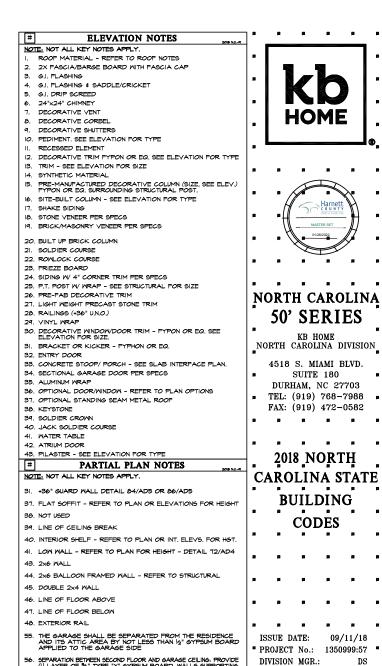
FRONT ELEVATION 'D' W/ CRAWL SPACE



PARTIAL FIRST FLOOR PLAN 'D' AT CRAWL SPACE

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XIT")

BASIC PLAN



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DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS NC19028NCP/ 04/22/19 / FAE DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

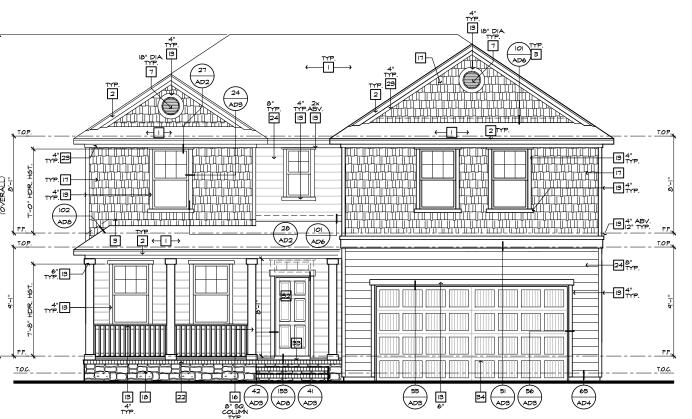
243.2939-R SHEET:

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT SHOWN HERE

57. EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT

60. SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION



ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING

4. G.I. FLASHING & SADDLE/CRICKET
5. G.I. DRIP SCREED

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL

9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE

II. RECESSED ELEMENT

12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE

13. TRIM - SEE ELEVATION FOR SIZE
14. SYNTHETIC MATERIAL

PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

IT. SHAKE SIDING

18. STONE VENEER PER SPECS

19. BRICK/MASONRY VENEER PER SPECS

20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE

22. ROWLOCK COURSE

34 56 AD3 AD3

55 AD3 6"

23. FRIEZE BOARD
24. SIDING W/ 4" CORNER TRIM PER SPECS

25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM

27. LIGHT WEIGHT PRECAST STONE TRIM 28. RAILINGS (+36" U.N.O.)

29. VINYL WRAP

NORTH CAROLINA 50' SERIES KB HOME NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

HOME

2018 NORTH **CAROLINA STATE BUILDING** CODES

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DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
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DIVISION REVISIONS
NC19647NCP/ 08/01/19 / FAE DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

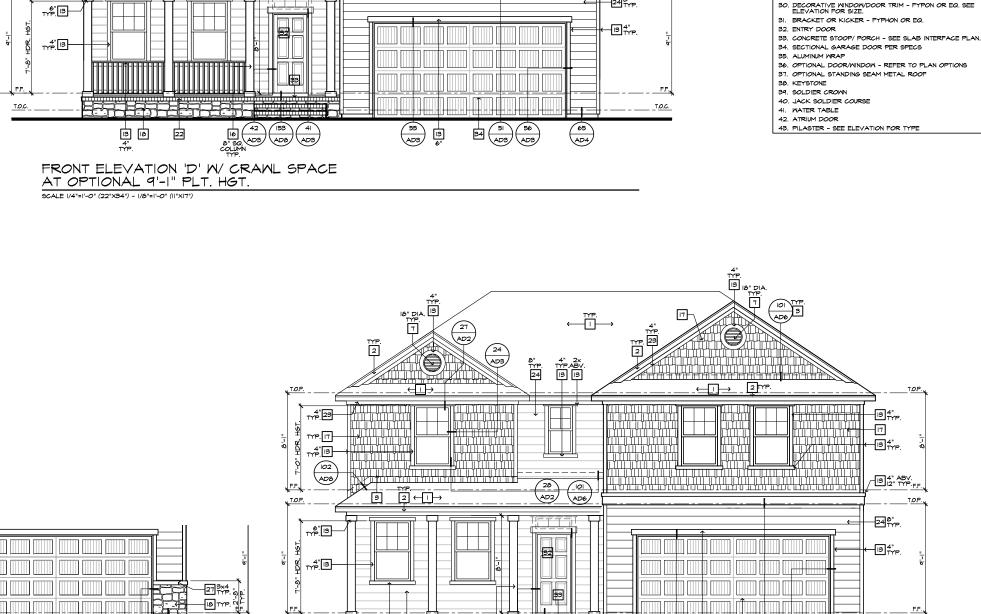
PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

3.D5

SPEC. LEVEL 1 RALEIGH-DURHAM



16 42 43 41 AD3 AD3 AD3 COLUMN

PARTIAL FRONT ELEVATION 'D' W/ MASONRY OPTION AT 9'-0" PLT. HGT.

67 AD4

IB TYP.

FRONT ELEVATION 'D' AT OPTIONAL 9'-1" PLT. HGT. SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

13 24 4" 8" TYP. TYP.

58 65 AD3 AD4

27 3×4 7×2.





NORTH CAROLINA 50' SERIES

кв номе NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 m TEL: (919) 768-7988 FAX: (919) 472-0582

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DIVISION REVISIONS NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS NC19047NCP/ 08/01/19 / FAE

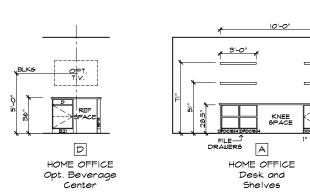
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FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

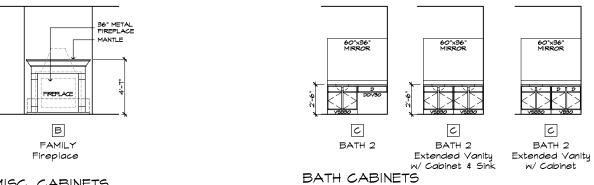
243.2939-R

4.1 SPEC. LEVEL 1

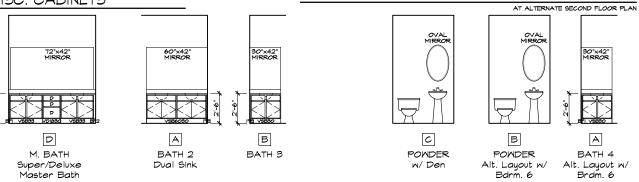
RALEIGH-DURHAM 50' SERIES

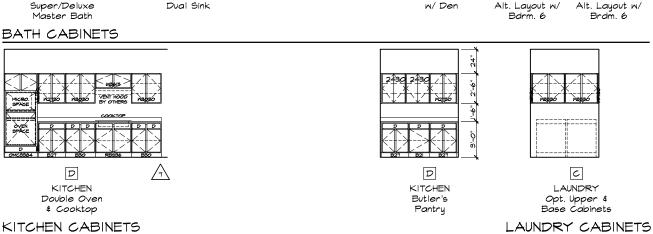


MISC. ELEVATIONS



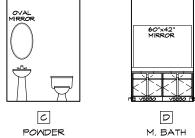
MISC. CABINETS

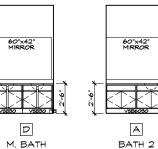


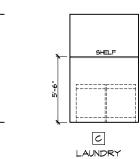


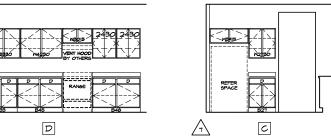
OPTIONAL INTERIOR ELEVATIONS

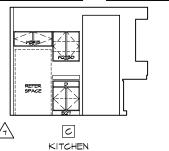
SCALE: I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XIT")

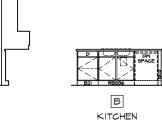


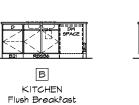






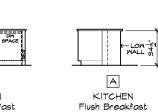






Bar

LAUNDRY AND MISCELLANEOUS CABINETS



Bar

KITCHEN CABINETS

BATH CABINETS

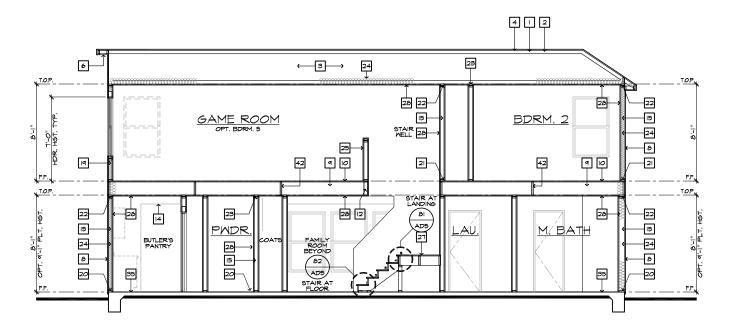
Α

BATH 4

STANDARD INTERIOR ELEVATIONS

SCALE: I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XIT")

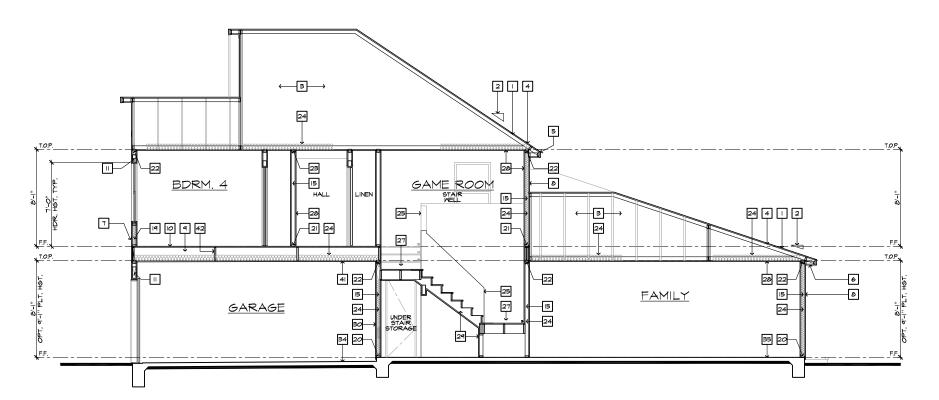
KITCHEN



SECTION "A"

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XIT")

AT SLAB ON GRADE



SECTION "B"

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7") AT SLAB ON GRADE

SECTION NOTES

SECTION 1
NOTE: NOT ALL KEY NOTES APPLY.

ROOF MATERIAL - REFER TO ROOF NOTES 2. ROOF PITCH - REFER TO ROOF NOTES

2. ROOF HIGH REPER WOOD ROOF TRUSS SYSTEM - SEE STRUCTURAL & TRUSS CALCS
4. ROOF SHEATHING PER STRUCTURAL

5. 2x FASCIA/BARGE BOARD

6. CONT. SOFFITED EAVE W/ VENTING

8. EXTERIOR FINISH PER ELEVATIONS 1. FLOOR FRAMING PER STRUCTURAL

O. FLOOR SHEATHING PER STRUCTURAL II. HEADER PER STRUCTURAL

FLUSH BEAM PER STRUCTURAL
 DROPPED BEAM PER STRUCTURAL

14. FLAT/ ARCHED SOFFIT PER PLAN

15. 2x4 STUD WALL

I6. 2x6 STUD WALL 17. 2x6 BALLOON FRAMED WALL PER STRUCTURAL

IB. DBL. 2x4 WALL PER PLAN

19. 2x CRIPPLES @ 16" O.C. 20. 2x PRESSURE TREATED SILL PLATE

2I. 2x SOLE PLATE

22. DBL. 2x TOP PLATE @ EXTERIOR & BEARING WALLS 23. IX OVER 2X TOP PLATE @ INTERIOR & NON-BEARING WALLS

24. INSULATION MATERIAL PER ENERGY CALCULATIONS

25. MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT

27. STAIR TREADS AND RISERS PER PLAN: - MIN. IO" TREAD & MAX. 7 3/4" RISER

28. INTERIOR FINISH: - MIN. 1/2" GYP. BD. @ WALLS & SAG RESISTANT OR 5/6" DRYWALL @ CEILING

29. MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.

30. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.

31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 32. INTERIOR SHELF - MIN. I/2" GYP. BD. OVER 3/8" PLY WD.

33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE I/4" PER FT. MIN.

34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN. 35. CONCRETE FOUNDATION PER STRUCTURAL

36. LINE OF OPTIONAL TRAY CEILING/ STEP CEILING

37. LINE OF OPTIONAL VOLUME CEILING
38. PROFILE OF OPTIONAL COVERED PATIO

39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS 40. 8" BLOCK WALL

CEILING

2, WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE
CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A
SINGLE-FAMILY DWELLING PARATT STOPPS SHALL BE INSTALLEI
SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT
EXCEED JOOD SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE
THE CONCEALED SPACE INTO APPROXIMATELY EGGIAL AREAS

HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 . FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

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SEE BELOW

P 2018 CODE UPDATE
NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

REVISIONS:

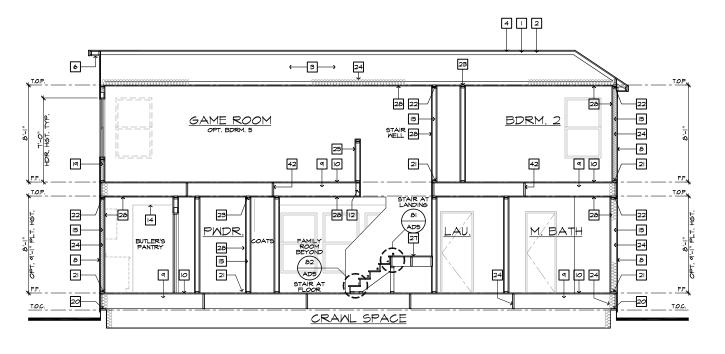
DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

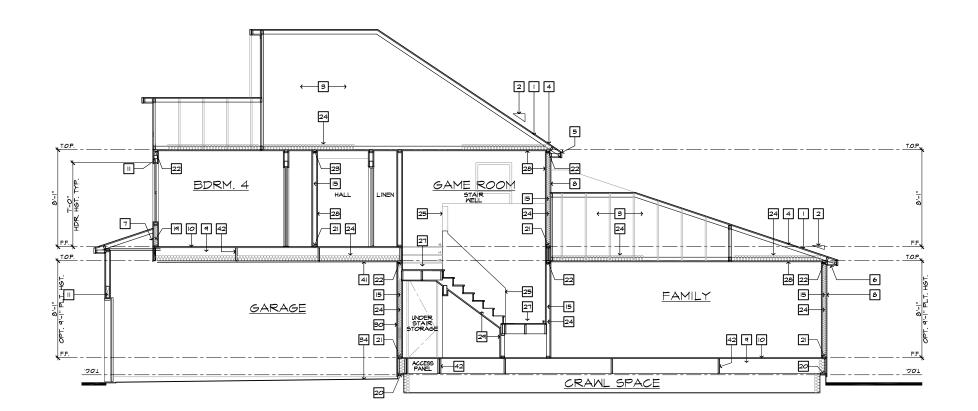
PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R



SECTION "A" SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XIT") AT CRAWL SPACE



SECTION "B"

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XIT") AT CRAWL SPACE

SECTION NOTES

SECTION 1
NOTE: NOT ALL KEY NOTES APPLY.

ROOF MATERIAL - REFER TO ROOF NOTES ROOF PITCH - REFER TO ROOF NOTES

PRE-MANUFACTURED MOOD ROOF TRUSS SYSTEM - SEE STRUCTURAL & TRUSS CALCS ROOF SHEATHING PER STRUCTURAL

5. 2x FASCIA/BARGE BOARD

6. CONT. SOFFITED EAVE W/ VENTING

8. EXTERIOR FINISH PER ELEVATIONS I. FLOOR FRAMING PER STRUCTURAL

O. FLOOR SHEATHING PER STRUCTURAL

II. HEADER PER STRUCTURAL

12. FLUSH BEAM PER STRUCTURAL IS. DROPPED BEAM PER STRUCTURAL

14. FLAT/ ARCHED SOFFIT PER PLAN

15. 2x4 STUD WALL

I6. 2x6 STUD WALL

17. 2x6 BALLOON FRAMED WALL PER STRUCTURAL18. DBL. 2x4 WALL PER PLAN

19. 2x CRIPPLES @ 16" O.C. 20. 2x PRESSURE TREATED SILL PLATE

2I. 2x SOLE PLATE

22. DBL. 2x TOP PLATE @ EXTERIOR & BEARING WALLS 23. IX OVER 2X TOP PLATE @ INTERIOR & NON-BEARING WALLS

24. INSULATION MATERIAL PER ENERGY CALCULATIONS

25. MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT

27. STAIR TREADS AND RISERS PER PLAN: - MIN. IO" TREAD & MAX. 7 3/4" RISER

28. INTERIOR FINSH: - MIN. 1/2" GYP. BD. @ WALLS & SAG RESISTANT OR 5/8" DRYWALL @ CEILING

29. MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.

30. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.

31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 32. INTERIOR SHELF - MIN. I/2" GYP. BD. OVER 3/8" PLY WD.

33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE I/4" PER FT. MIN.

34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN.

35. CONCRETE FOUNDATION PER STRUCTURAL 36. LINE OF OPTIONAL TRAY CEILING/ STEP CEILING

37. LINE OF OPTIONAL VOLUME CEILING
38. PROFILE OF OPTIONAL COVERED PATIO

39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS 40. 8" BLOCK WALL

CEILING

2, WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE
CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A
SINGLE-FAMILY DWELLING PARATT STOPPS SHALL BE INSTALLEI
SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT
EXCEED JOOD SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE
THE CONCEALED SPACE INTO APPROXIMATELY EGGIAL AREAS

HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

ISSUE DATE: 09/11/18 ■ PROJECT No.: 1350999:57 ■ DIVISION MGR.:

SEE BELOW B

REVISIONS: P 2018 CODE UPDATE
NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

SPEC. LEVEL 1

4.3

RALEIGH-DURHAM 50' SERIES

M. BDRM

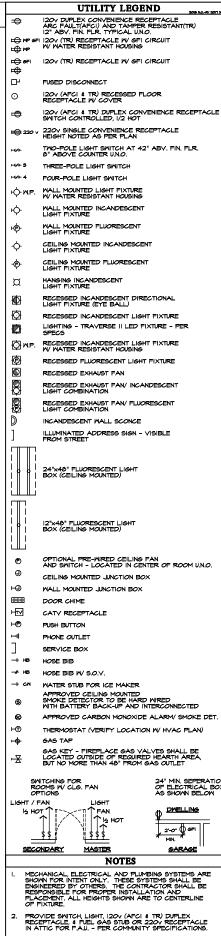
BLOCK & PRE-WIRE FOR OPT, CLG. FAN

⑤

N ATTIC

♦●§ - •

PORCH



HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING**

CODES

ISSUE DATE: 09/11/18

REVISIONS: SEE BELOW

2018 CODE UPDATE NCI90I5NCP/ 03/I5/I9 / CTD

DIVISION REVISIONS NCI9022NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9028NCP/ 04/22/19 / FAE

DIVISION REVISIONS NCI9047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

SPEC. LEVEL 1

5.1

DIVISION MGR.:

PROJECT No.: 1350999:57

OPTIONAL PRE-MIRED CEILING FAN AND SMITCH - LOCATED IN CENTER OF ROOM U.N.O.

APPROVED CARBON MONOXIDE ALARM/ SMOKE DET. THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)

24" MIN. SEPERATION OF ELECTRICAL BOX AS SHOWN BELOW

DWELLING

MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT, ALL HEIGHTS SHOWN ARE TO CENTERLINE OF FIXTURE.

SMOKE DETECTORS IN ROOMS WITH VOLUME CEILING TO BE LOCATED AT HIGHEST POINT OF CEILING 20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION. 200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.

RALEIGH-DURHAM 50' SERIES

NOOK

PONDER

BLOCK & PRE-WIRE FOR OPT, CLG, FAN

6'-I" HANGING

<u>₩</u>

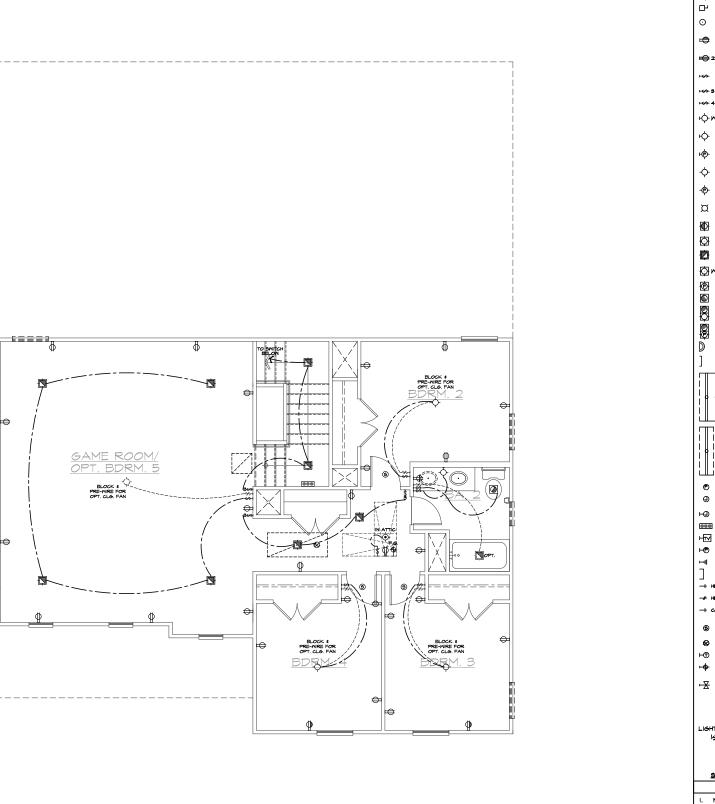
BLM. FOR-RANGE

BUTLERS PANTRY

#B +28" # N 50.V.

ELECTRIOCAL SERVICE PANEL/ TELEPHONE SERVICE BOX/ CABLE T.V. SERVICE BOX

<u>M.I.C.</u>



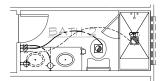
120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O. HP 6FI 120V (TR) RECEPTACLE W/ 6FI CIRCUIT W/ WATER RESISTANT HOUSING **HOME** FUSED DISCONNECT 120v (AFCI & TR) RECESSED FLOOR RECEPTACLE W COVER 120v (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SMITCH CONTROLLED, 1/2 HOT 220 V 220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. θ " ABOVE COUNTER U.N.O. THREE-POLE LIGHT SMITCH -69-4 FOUR-POLE LIGHT SWITCH WALL MOUNTED LIGHT FIXTURE W WATER RESISTANT HOUSING ι∳.M.P. WALL MOUNTED INCANDESCENT LIGHT FIXTURE WALL MOUNTED FLUORESCENT LIGHT FIXTURE CEILING MOUNTED INCANDESCENT LIGHT FIXTURE CEILING MOUNTED FLUORESCENT LIGHT FIXTURE NORTH CAROLINA HANGING INCANDESCENT LIGHT FIXTURE 50' SERIES RECESSED INCANDESCENT DIRECTION LIGHT FIXTURE (EYE BALL) KB HOME RECESSED INCANDESCENT LIGHT FIXTURE NORTH CAROLINA DIVISION LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS 4518 S. MIAMI BLVD. **⋈.**P. RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING SUITE 180 DURHAM, NC 27703 RECESSED FLUORESCENT LIGHT FIXTURE TEL: (919) 768-7988 RECESSED EXHAUST FAN FAX: (919) 472-0582 RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION INCANDESCENT WALL SCONCE **2018 NORTH** ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET **CAROLINA STATE** BUILDING 24"x46" FLUORESCENT LIGHT BOX (CEILING MOUNTED) CODES 12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED) OPTIONAL PRE-MIRED CEILING FAN AND SMITCH - LOCATED IN CENTER OF ROOM U.N.O. € 0 CEILING MOUNTED JUNCTION BOX WALL MOUNTED JUNCTION BOX DOOR CHIME ISSUE DATE: 09/11/18 CATY RECEPTACLE PROJECT No.: 1350999:57 PUSH BUTTON DIVISION MGR.: REVISIONS: SEE BELOW SERVICE BOX 2018 CODE UPDATE NCI90I5NCP/ 03/I5/I9 / CTD HOSE BIB W 5.0.V. DIVISION REVISIONS NCI9022NCP/ 03/15/19 / CTD WATER STUB FOR ICE MAKER APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED DIVISION REVISIONS NCI9028NCP/ 04/22/19 / FAE APPROVED CARBON MONOXIDE ALARM/ SMOKE DET THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN) DIVISION REVISIONS
NCI9047NCP/ 08/01/19 / FAE GAS TAP GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA 6 PLAN ERROR NC21014NCP / 02-18-21 / KBA 24" MIN. SEPERATION OF ELECTRICAL BOX AS SHOWN BELOW 7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA <u>DMELLING</u> 2'-0" ØFI \$ \$ \$ MASTER NOTES MECHANICAL, ELECTRICAL AND PLIMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT, ALL HEIGHTS SHOWN ARE TO CENTERLINE OF FIXTURE. 243.2939-R SHEET: 5.2 SMOKE DETECTORS IN ROOMS WITH VOLUME CEILING TO BE LOCATED AT HIGHEST POINT OF CEILING SPEC. LEVEL 1 20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION. RALEIGH-DURHAM

200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS

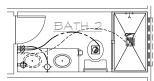
D.S.

50' SERIES

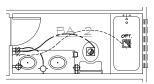
UTILITY LEGEND



SHOWER W/ SEAT I.L.O. TUB AT BATH 2



SHOWER I.L.O. TUB



VANITY W/ DUAL SINKS AT BATH 2 EEEE, GAME ROOM/ OPT. BDRM. 5 BLOCK & PRE-WIRE FOR OPT. CLG. FAN BATH 2

ENLARGED BEDROOM 2 & 3 UTILITY PLAN - ('A', 'B', 'C', 'D' SIM.)

ㅁ FUSED DISCONNECT 120v (AFCI & TR) RECESSED FLOOR RECEPTACLE W COVER 0 120v (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SMITCH CONTROLLED, 1/2 HOT TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER U.N.O. THREE-POLE LIGHT SWITCH FOUR-POLE LIGHT SWITCH WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING Ю́- М.Р. ф WALL MOUNTED INCANDESCENT LIGHT FIXTURE WALL MOUNTED FLUORESCENT LIGHT FIXTURE CEILING MOUNTED INCANDESCENT LIGHT FIXTURE CEILING MOUNTED FLUORESCENT LIGHT FIXTURE HANGING INCANDESCENT LIGHT FIXTURE Ø RECESSED INCANDESCENT DIRECTION LIGHT FIXTURE (EYE BALL) \bigcirc RECESSED INCANDESCENT LIGHT FIXTURE LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING **®** RECESSED FLUORESCENT LIGHT FIXTURE RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION INCANDESCENT MALL SCONCE ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET € 888 DOOR CHIME +CATY RECEPTAGLE H® PUSH BUTTON SERVICE BOX HOSE BIB W/ S.O.V. APPROVED CARBON MONOXIDE ALARM/ SMOKE DET HT THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN) ьф GAS TAP \$ \$ \$ \$ MASTER MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT, ALL HEIGHTS SHOWN ARE TO CENTERLINE OF FIXTURE.

HOME



NORTH CAROLINA 50' SERIES

NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING**

CODES

ISSUE DATE: 09/11/18

REVISIONS: SEE BELOW

2018 CODE UPDATE NCI90ISNCP/ 03/IS/I9 / CTD

DIVISION REVISIONS
NCI9022NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NCI9047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

6 PLAN ERROR NC21014NCP / 02-18-21 / KBA

7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

SHEET: 5.3

DIVISION MGR.:

PROJECT No.: 1350999:57

D.S.

12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)

OPTIONAL PRE-WIRED CEILING FAN AND SMITCH - LOCATED IN CENTER OF ROOM U.N.O.

UTILITY LEGEND 120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O.

W SFI 120V (TR) RECEPTACLE W SFI CIRCUIT W W WATER RESISTANT HOUSING ₩ 6FI 120v (TR) RECEPTACLE W 6FI CIRCUIT

WALL MOUNTED JUNCTION BOX

WATER STUB FOR ICE MAKER

APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED

20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION.

200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.

NOTES

24" MIN. SEPERATION OF ELECTRICAL BOX AS SHOWN BELOW <u>DWELLING</u>

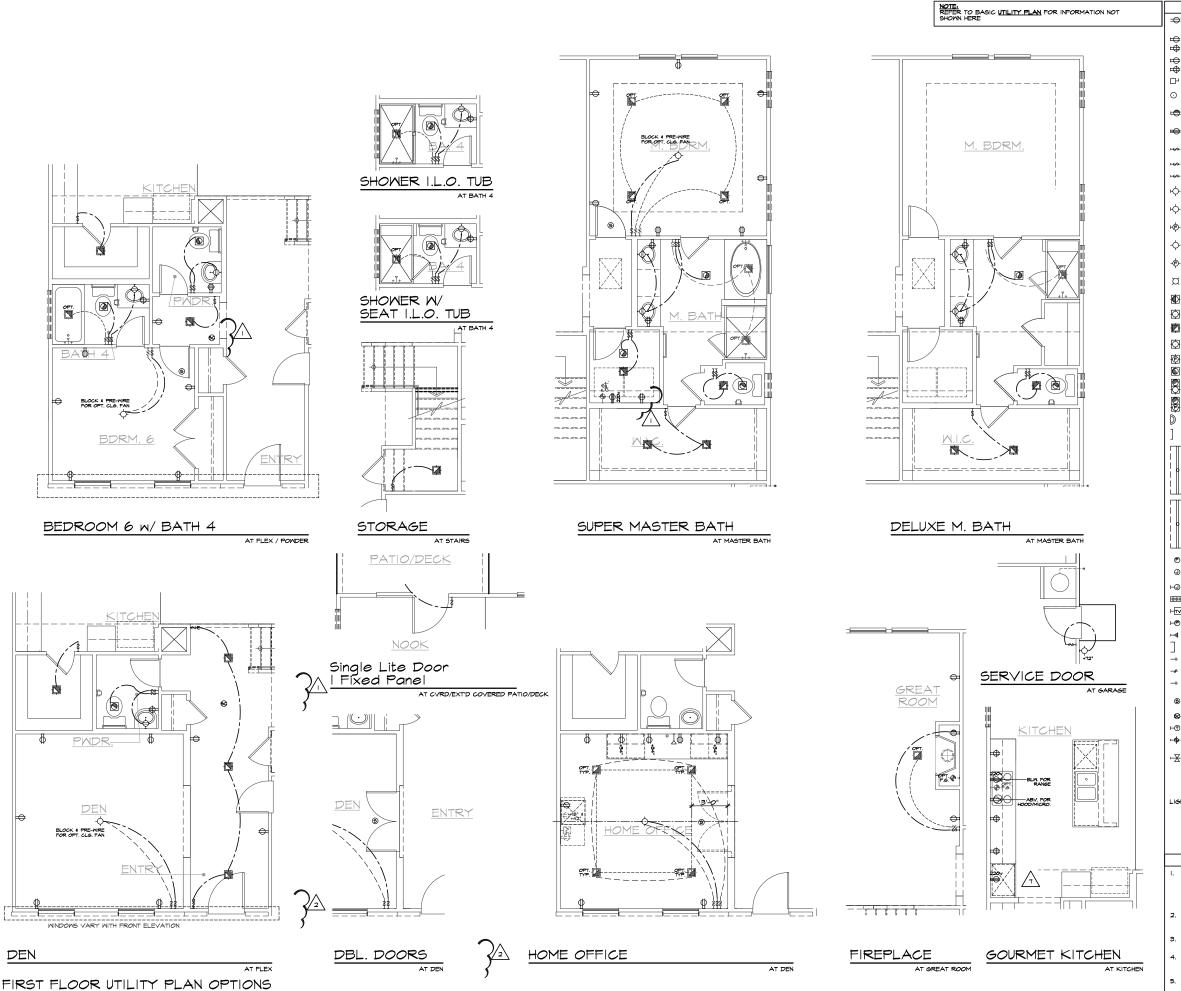
243.2939-R

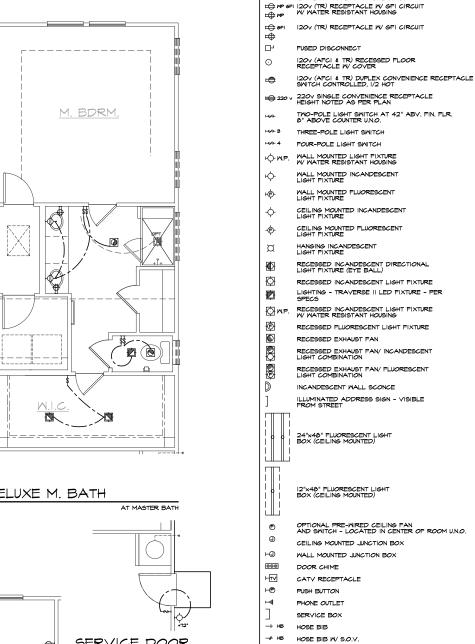
SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

ENLARGED BEDROOM 2 & 3 UTILITY PLAN OPTIONS

SCALE I/4"=I'-0" (22"x34") - I/8"=I'-0" (II"xI7")







WALL MOUNTED JUNCTION BOX REVISIONS: WATER STUB FOR ICE MAKER APPROVED CEILING MOUNTED
SMOKE DETECTOR TO BE HARD WIRED
WITH BATTERY BACK-UP AND INTERCONNECTED APPROVED CARBON MONOXIDE ALARM/ SMOKE DET HT THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN) GAS TAP 24" MIN. SEPERATION OF ELECTRICAL BOX AS SHOWN BELOW <u>DWELLING</u> 2'-0" GFI SECONDARY MASTER NOTES MECHANICAL, ELECTRICAL AND PLIMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND





NORTH CAROLINA 50' SERIES

NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING**

CODES

UTILITY LEGEND 120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O.

> ISSUE DATE: PROJECT No.: 1350999:57 DIVISION MGR.: D.S.

> > 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

SEE BELOW

DIVISION REVISIONS
NCI9022NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NCI9047NCP/ 08/01/19 / FAE DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

6 PLAN ERROR NC21014NCP / 02-18-21 / KBA

7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

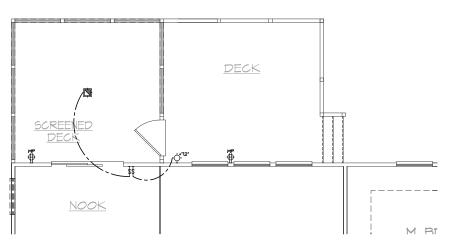
243.2939-R

5.4

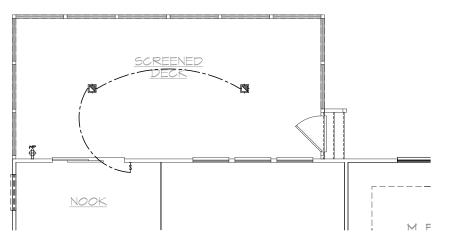
200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

DEN

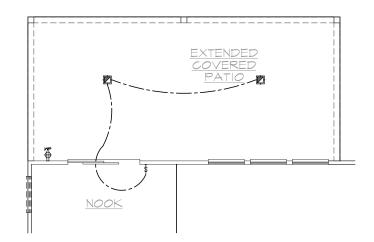


12'x12'-8" SCREENED DECK W/ 12'x13'-4" DECK



12'x26' SCREENED DECK

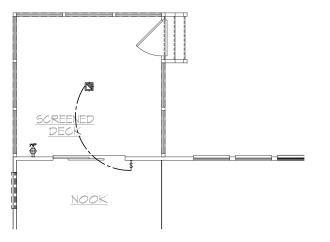
AT NOOK



AT NOOK

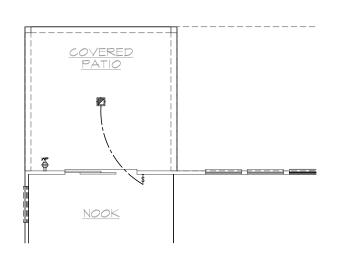
AT NOOK

12'x26' EXTENDED COVERED PATIO



12'x12' SCREENED DECK

AT NOOK



12'x12'-8" COVERED PATIO

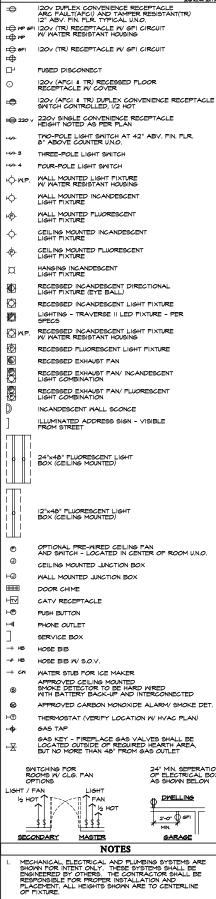
STOOP SUNRO 6'-1" HANGING C

SUNROOM AT CRAWL SPACE

AT NOOK

FIRST FLOOR UTILITY PLAN OPTIONS

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD.

SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING

CODES

ISSUE DATE: 09/11/18

REVISIONS: SEE BELOW

2018 CODE UPDATE NCI90I5NCP/ 03/I5/I9 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NCI9047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA PLAN ERROR NC21014NCP / 02-18-21 / KBA

7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

SPEC. LEVEL 1

5.5

DIVISION MGR.:

PROJECT No.: 1350999:57

D.S.

UTILITY LEGEND

OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O. WALL MOUNTED JUNCTION BOX

WATER STUB FOR ICE MAKER

APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED

THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)

NOTES

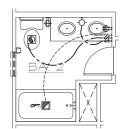
24" MIN. SEPERATION OF ELECTRICAL BOX AS SHOWN BELOW <u>DWELLING</u> 2'-0" GFI

243.2939-R SHEET:

SMOKE DETECTORS IN ROOMS WITH VOLUME CEILING TO BE LOCATED AT HIGHEST POINT OF CEILING

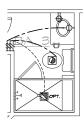
20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION.

RALEIGH-DURHAM 200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS. 50' SERIES

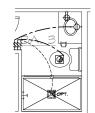


AT BATH 2

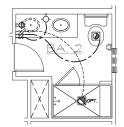
DUAL SINK



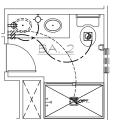
SHOWER W/ SEAT I.L.O. TUB AT BATH 3



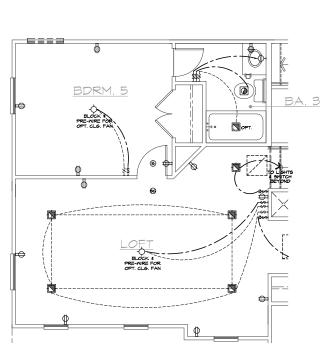
SHOWER I.L.O. TUB



SHOWER W/ SEAT I.L.O. TUB AT BATH 2



SHOWER I.L.O. TUB



BEDROOM 5 W/ BATH 3 AND LOFT

SECOND FLOOR UTILITY PLAN OPTIONS





NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

BUILDING

CODES

ISSUE DATE: 09/11/18

REVISIONS: SEE BELOW

2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NCI9047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA PLAN ERROR NC21014NCP / 02-13-21 / KBA

FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

DIVISION MGR.:

PROJECT No.: 1350999:57

D.S.

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION INCANDESCENT MALL SCONCE 2018 NORTH ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET CAROLINA STATE

24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)

12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)

OPTIONAL PRE-MIRED CEILING FAN AND SMITCH - LOCATED IN CENTER OF ROOM U.N.O. WALL MOUNTED JUNCTION BOX

UTILITY LEGEND

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Ю́- М.Р. ф

FUSED DISCONNECT

120v (AFCI & TR) RECESSED FLOOR RECEPTACLE W COVER

220 V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN

THREE-POLE LIGHT SWITCH

FOUR-POLE LIGHT SWITCH WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING

WALL MOUNTED INCANDESCENT LIGHT FIXTURE WALL MOUNTED FLUORESCENT LIGHT FIXTURE

CEILING MOUNTED INCANDESCENT LIGHT FIXTURE CEILING MOUNTED FLUORESCENT LIGHT FIXTURE

RECESSED INCANDESCENT DIRECTIONA LIGHT FIXTURE (EYE BALL)

LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS

RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING

RECESSED FLUORESCENT LIGHT FIXTURE

RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION

HANGING INCANDESCENT LIGHT FIXTURE

RECESSED EXHAUST FAN

120v (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SMITCH CONTROLLED, 1/2 HOT

TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER U.N.O.

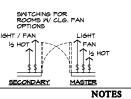
888 DOOR CHIME +CATY RECEPTACLE H® PUSH BUTTON

SERVICE BOX

HOSE BIB W/ S.O.V. WATER STUB FOR ICE MAKER APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED

APPROVED CARBON MONOXIDE ALARM/ SMOKE DET. THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)

HT GAS TAP



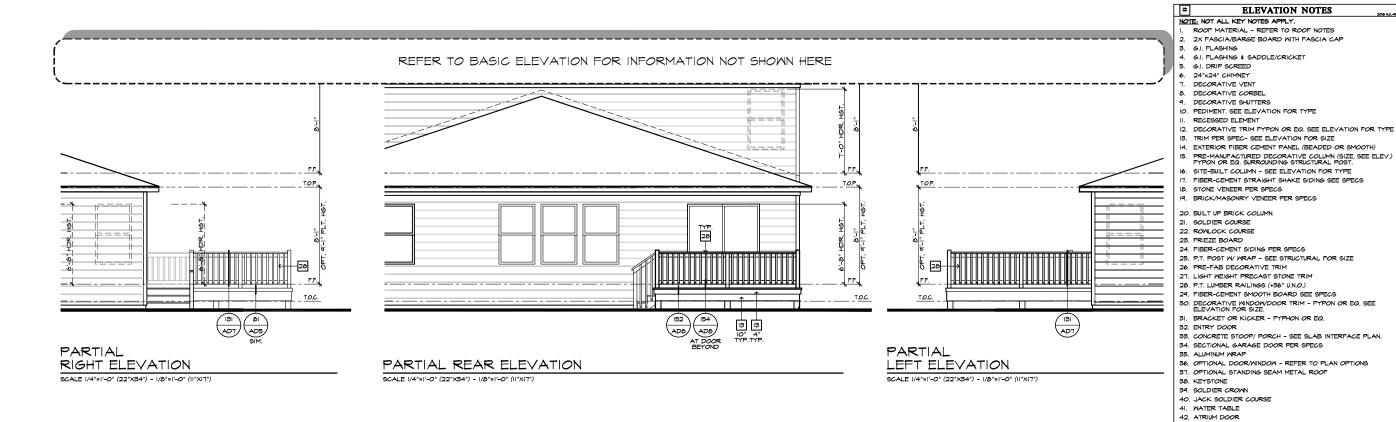
24" MIN. SEPERATION OF ELECTRICAL BOX AS SHOWN BELOW <u>DWELLING</u> 2'-0" GFI

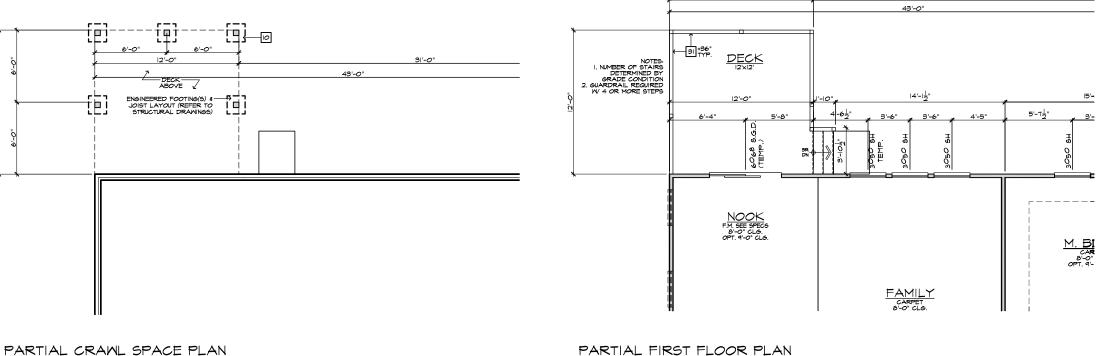
MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENSINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE OF FIXTURE.

SMOKE DETECTORS IN ROOMS WITH VOLUME CEILING TO BE LOCATED AT HIGHEST POINT OF CEILING 20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION.

200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.

243.2939-R SHEET: 5.6





PARTIAL FIRST FLOOR PLAN

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

12'x25' ENLARGED DECK AT CRAWL SPACE

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

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2018 NORTH MOTE, NOT ALL KEY NOTES APPLY

27. MATER HEATER LOCATION: - FOR GAS - LOCATE ON 10" HIGH
PLATFORM - FOR NITERIOR LOCATION - FOR GAS - LOCATE ON 10" HIGH
PLATFORM - FOR NITERIOR LOCATION - FOR YOUTE PAN 8

DRAIN. (REFER TO DETAILS)

29. MATER HEATER B: VENT TO OUTSIDE AIR

21. MAIN LINE SHUT-OFF VALVE AND TEMP. \$ PRESSURE RELIEF

34. LINE OF MALL BELOW

41. LINE OF FLOOR ABOVE

42. LINE OF FLOOR BELOW

43. NIN 36, HIGH SWARPRAIL (REFER TO DETAIL SHEETS)

51. LOW MAIL - REFER TO PLAN FOR HEIGHT **CAROLINA STATE BUILDING** CODES 2. LINE OF FLOOR BELOW
3. MIN. 986 (1904) SUASPRAIL (REFER TO DETAIL SHEETS)
3. MIN. 986 (1904) SUASPRAIL (REFER TO DETAIL SHEETS)
4. DEL. 2x4 MALL - REFER TO PLAN FOR HEIGHT
4. DEL. 2x4 MALL PER PLAN
5. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
7. FLAT SOFFIT
9. ARCHED SOFFIT
9. ARCHED SOFFIT
9. OPT. DOOR! MINDOW
1. PRE-MANDFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)
1. PRE-MANDFACTURED DOOR FER SPECIAL POST.
1. SECTIONAL GARAGE POOR FER SPECIAL POST.
1. SECTIONAL GARAGE POOR FER SPECIAL POST.
1. MIN. 12* EMBEDDMENT INTO COLUMETE.
1. (NOT REQUIRED AT ELECTRIC WATTER HEATERS OR FOR APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL
1. TRAVEL PATH).
1. ESRESS MINDOW
1. PRE-MANDFACTURED SIZE
1. SECTIONAL SIZE
1. SECTI

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SEE BELOW

2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-12-21 / KBA

243.2939-R

HEET:

7.1

7 FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

. 4" TOE KICK FOR MASONRY VENEER 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN, 12" EMBEDMENT INTO CONCRETE.

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

5. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.

FOUNDATION PLAN NOTES

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/6" PER I'-O" MIN. TOWARD DOOR OPENING.

ELEVATION NOTES

VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

4" MIN. 7 3/4" MAX. TO HARD SURFACE.

12. A/C PAD. VERIFY LOCATION

NOTE: NOT ALL KEY NOTES APPLY

3. FOUNDATION PER STRUCTURAL. STAIR LANDING: 36"x36" MIN.

43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO

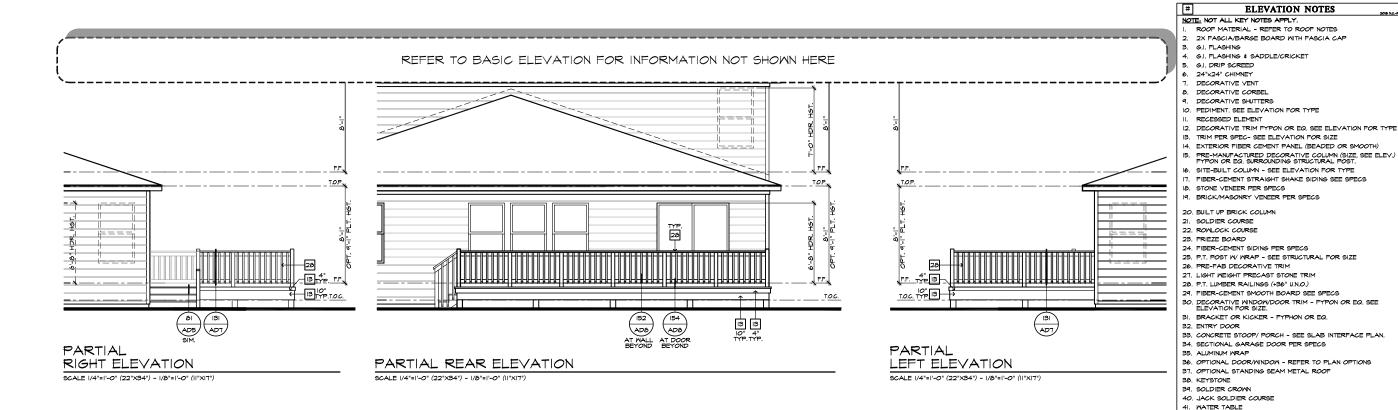
PARTIAL PLAN NOTES

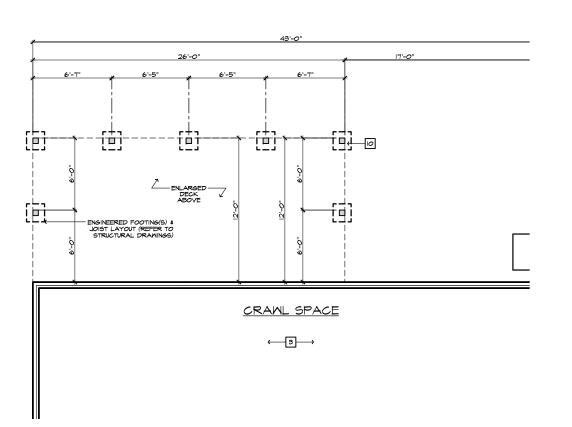
13. CRAWL SPACE ACCESS

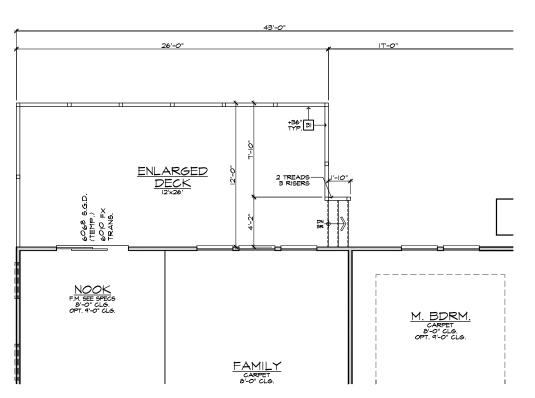
14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.

NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT SHOWN HERE

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE







PARTIAL CRAWL SPACE PLAN

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

12'x25' ENLARGED DECK AT CRAWL SPACE

PARTIAL FIRST FLOOR PLAN



ELEVATION NOTES



NORTH CAROLINA 50' SERIES

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2018 NORTH MOTE, NOT ALL KEY NOTES APPLY 201. MATER HEATER LOCATION: - FOR GAS - LOCATE ON 10" HIGH PLATFORM - FOR NITERIOR LOCATION - FOR GAS - LOCATE ON 10" HIGH PLATFORM - FOR NITERIOR LOCATION - FOR YOUTE PAN 8 20. MATER HEATER BY VENT TO OUTSIDE AIR 21. MAIN LINE SHUT-OFF VALVE AND TEMP. 8 PRESSURE RELIEF 34. LINE OF MALL BELOW 41. LINE OF FLOOR ABOVE 42. LINE OF FLOOR BELOW 43. NIN 30" HIGH SUNTRALI (REFER TO DETAIL SHEETS) 51. LOW MAIL - REFER TO PLAN FOR HEIGHT **CAROLINA STATE BUILDING** CODES 2. LINE OF FLOOR BELOW 3. MIX 950 FLOOR SPECIAL (REFER TO DETAIL SHEETS) 3. MIX 950 FLOOR SPECIAL (REFER TO DETAIL SHEETS) 4. LOW WALL - REFER TO PLAN FOR HEIGHT 4. DBL. 2x4 WALL PER PLAN 5. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT 6. FLAT SOFFIT 7. PLAT SOFFIT 7. OPT. DOOR VINDOW 7. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) 7. PROPIN DOOR 100 FOR PLAN PORTON 7. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) 7. PROPIN DOOR 100 FOR STRUCTURAL POST. 7. PROPIN DECORATIVE - REFER TO BE SOLUTION SEE STRUCTURAL POST. 7. PROPIN DOOR 100 FOR THE VEHICLE'S NORMAL 7. PLAN PARAP. 7. EGRESS WINDOW 7. WINDOM LETOSE. HEIGHT & WIDTH OF OPENING TO EXTEND 6* 7. STEP-DUIT COLUMN - SEE ELEVATION FOR TYPE 7. SOLORETE SLAB. SLOPE 1/4* PER FT. MIN. SEE PLAN FOR

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DIVISION REVISIONS
NC19028NCP/ 04/22/19 / FAE

DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-12-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

5. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.

FOUNDATION PLAN NOTES

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/6" PER 1'-0" MIN. TOWARD DOOR OPENING.

4" MIN. 7 3/4" MAX. TO HARD SURFACE.

12. A/C PAD. VERIFY LOCATION 13. CRAWL SPACE ACCESS

NOTE: NOT ALL KEY NOTES APPLY

3. FOUNDATION PER STRUCTURAL. STAIR LANDING: 36"x36" MIN.

6. PROVIDE UNDER FLOOR VENTILATION 7. 4" TOE KICK FOR MASONRY VENEER

42. ATRIUM DOOR

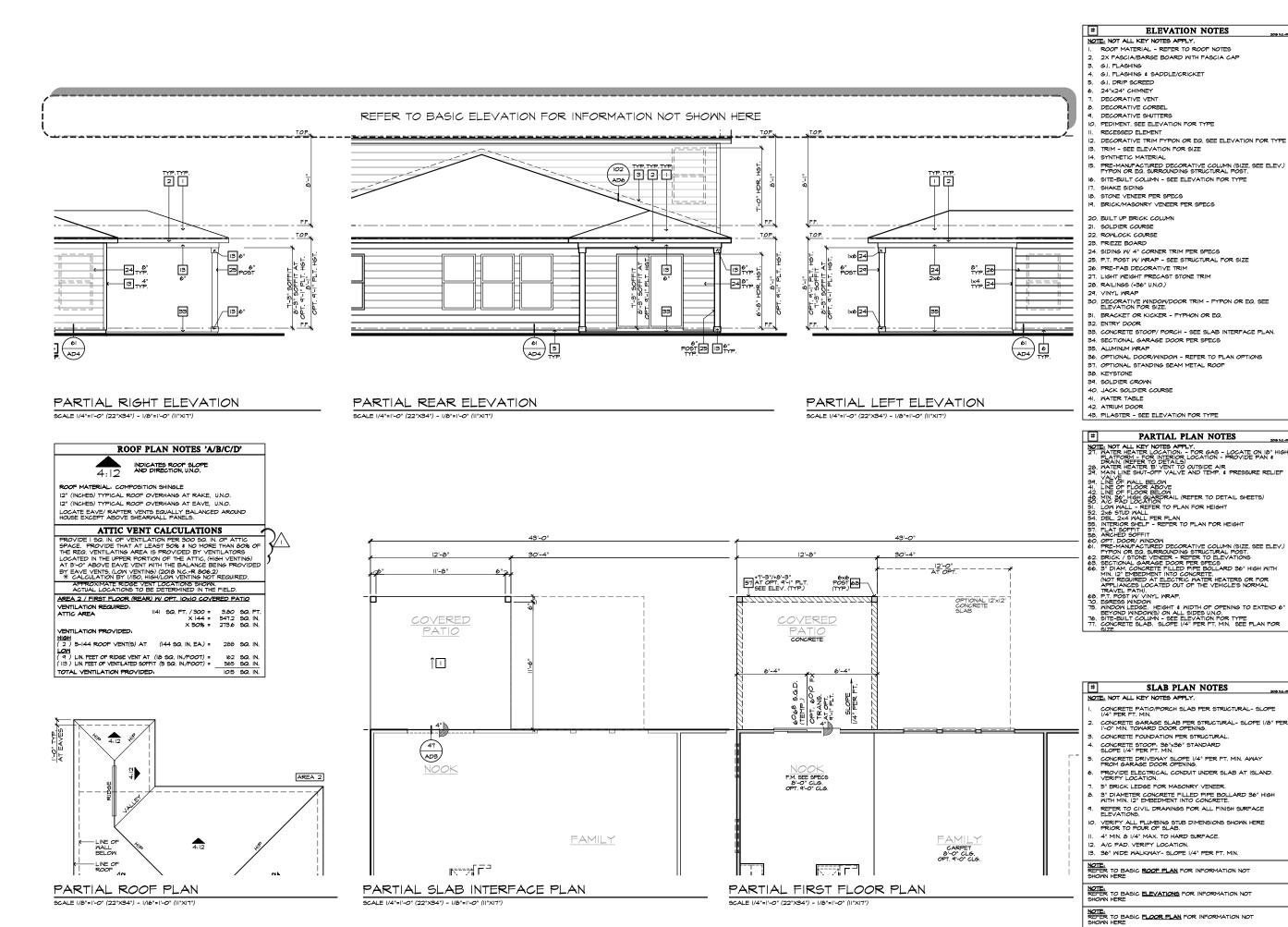
43. PILASTER - SEE ELEVATION FOR TYPE

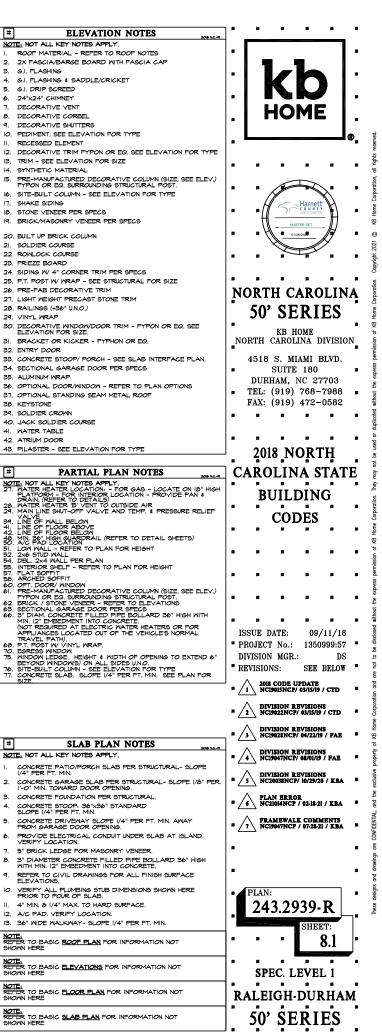
PARTIAL PLAN NO

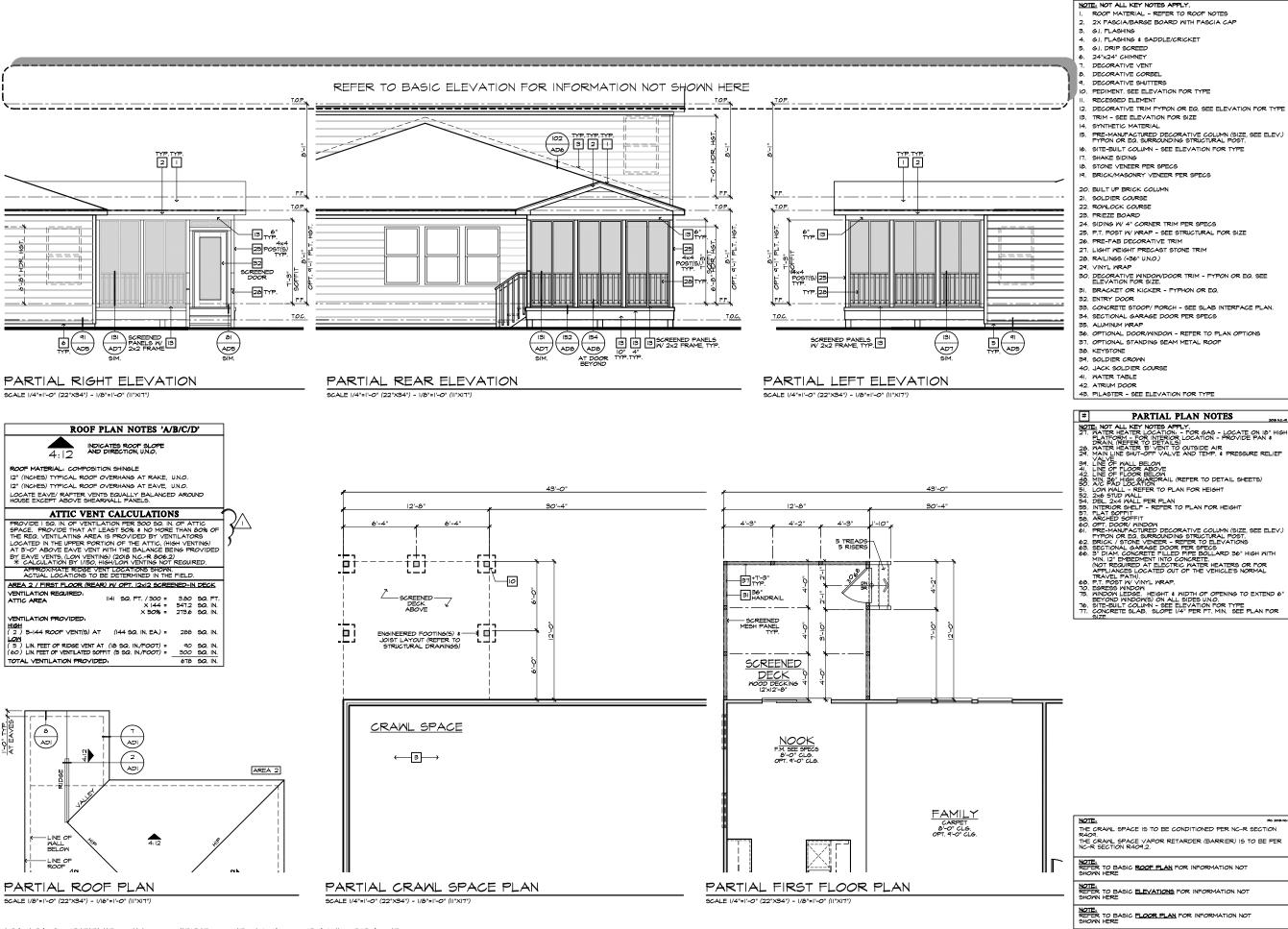
PARTIAL PLAN NOTES

14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.

NOTE: REFER TO BASIC **ELEVATIONS** FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE 243.2939-R SHEET: 7.2







HOME

ELEVATION NOTES



NORTH CAROLINA 50' SERIES

кв номе NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703

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2018 NORTH **CAROLINA STATE BUILDING** CODES

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DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD DIVISION REVISIONS NCI9028NCP/ 04/22/19 / FAE

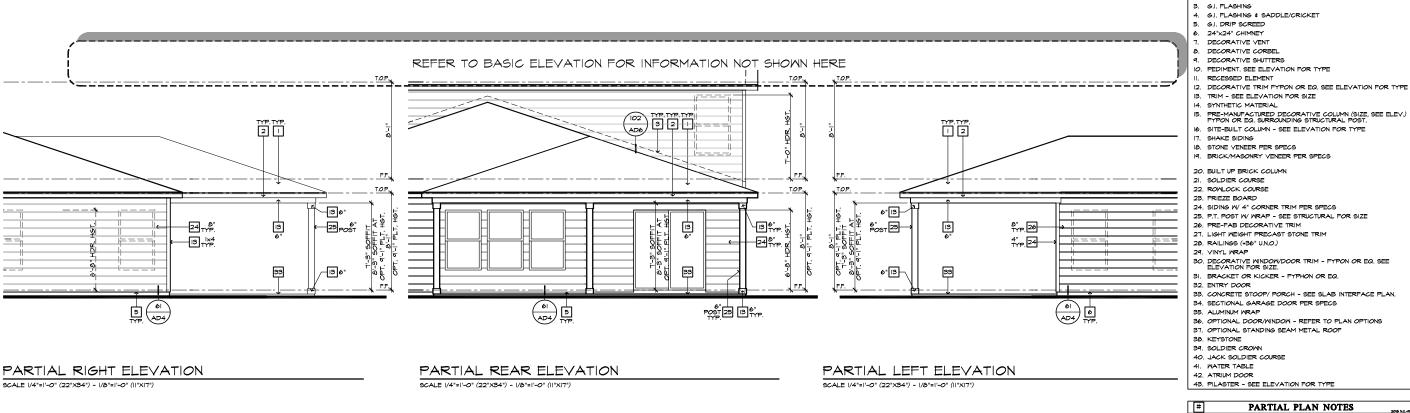
DIVISION REVISIONS NCI9047NCP/ 08/01/19 / FAE DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

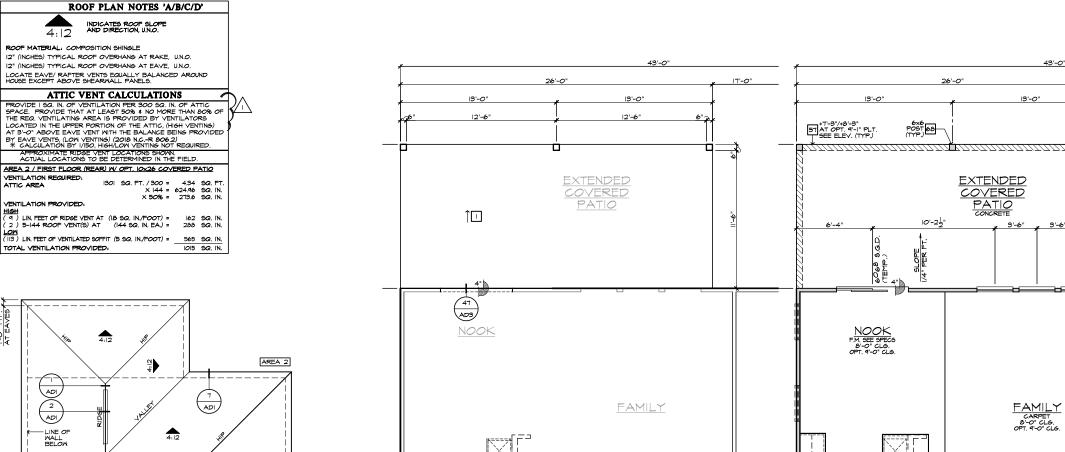
PLAN ERROR NC21014NCP / 02-18-21 / KBA

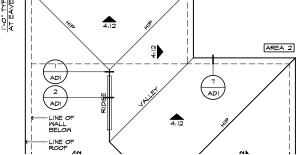
FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

243.2939-R

HEET: 8.2







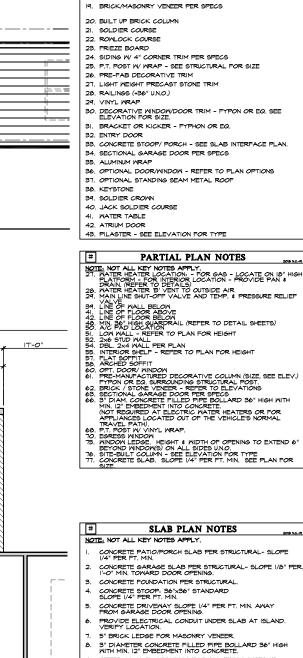
PARTIAL ROOF PLAN SCALE 1/8"=1'-0" (22"X34") - 1/16"=1'-0" (11"X17")

PARTIAL SLAB INTERFACE PLAN SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

PARTIAL FIRST FLOOR PLAN SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

12'x26' COVERED PATIO

SCALE I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XI7",



HOME



NORTH CAROLINA 50' SERIES

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REVISIONS: SEE BELOW 2018 CODE UPDATE NCI90ISNCP/ 03/IS/I9 / CTD

DIVISION REVISIONS
NC19022NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9028NCP/ 04/22/19 / FAE DIVISION REVISIONS NC19047NCP/ 08/01/19 / FAE

DIVISION REVISIONS NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-12-21 / KBA

7 FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

SHEET:

8.A3

13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.

NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

II. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.

12. A/C PAD, VERIFY LOCATION.

ELEVATION NOTES

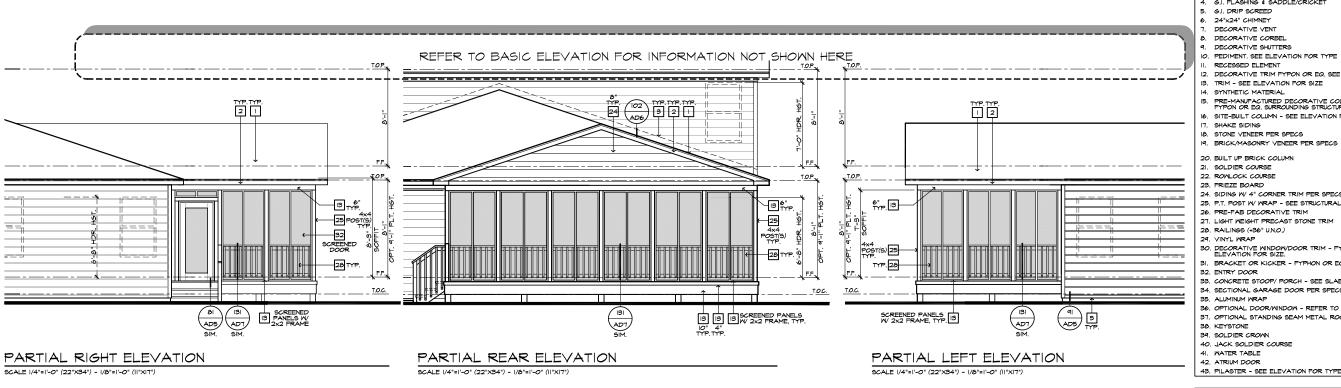
ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

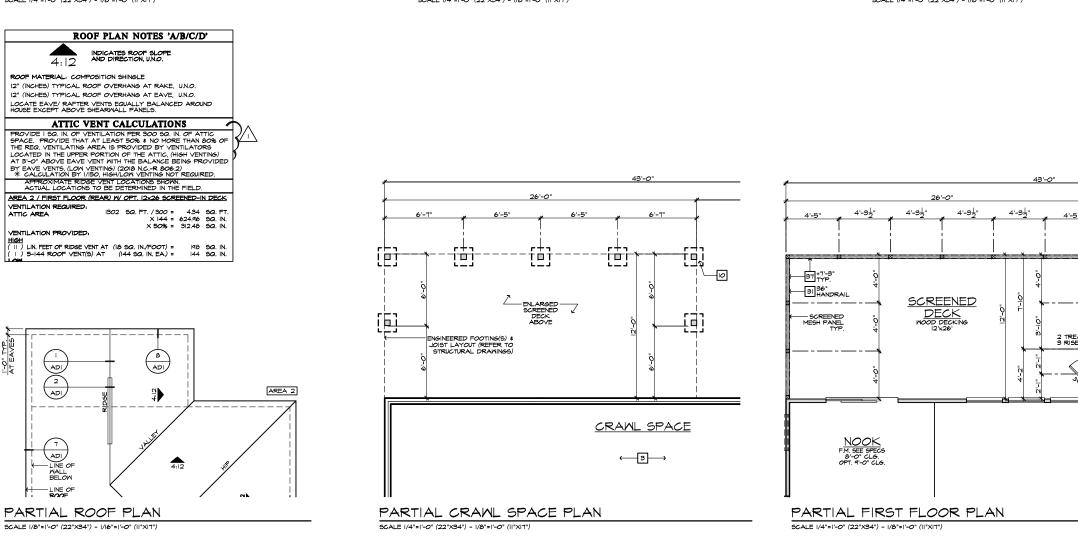
NOTE: NOT ALL KEY NOTES APPLY.

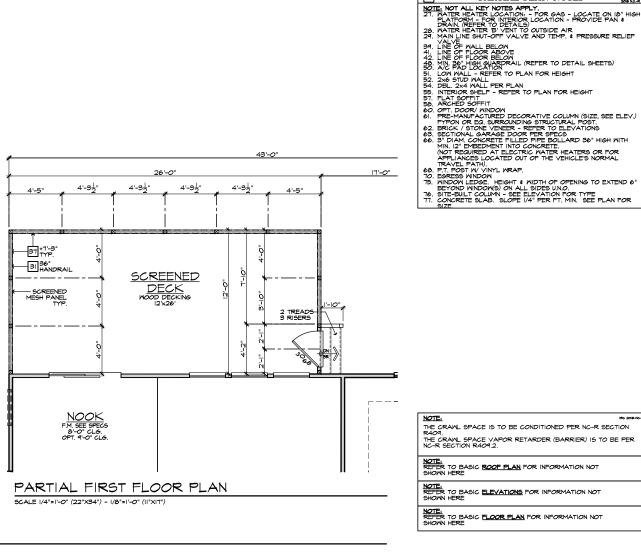
NOTE: REFER TO BASIC **ELEVATIONS** FOR INFORMATION NOT SHOWN HERE

NOTE:
REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT

NOTE: REFER TO BASIC SLAB PLAN FOR INFORMATION NOT SHOWN HERE









ELEVATION NOTES

ROOF MATERIAL - REFER TO ROOF NOTES

NOTE: NOT ALL KEY NOTES APPLY.

4. G.I. FLASHING & SADDLE/CRICKET

O. PEDIMENT. SEE ELEVATION FOR TYPE RECESSED ELEMENT

24. SIDING W/ 4" CORNER TRIM PER SPECS

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

PARTIAL PLAN NOTES

27. LIGHT WEIGHT PRECAST STONE TRIM

IS. TRIM - SEE ELEVATION FOR SIZE 14. SYNTHETIC MATERIAL

3. G.I. FLASHING

IT. SHAKE SIDING 18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS

21. SOLDIER COURSE 22. ROWLOCK COURSE

28. RAILINGS (+36" U.N.O.)

23. FRIEZE BOARD

29. VINYL WRAP

32. ENTRY DOOR

35. ALUMINUM WRAP

42. ATRIUM DOOR

40. JACK SOLDIER COURSE 4I. WATER TABLE

5. G.I. DRIP SCREED 5. 24"x24" CHIMNEY 7. DECORATIVE VENT

DECORATIVE CORBEL DECORATIVE SHUTTERS



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NC19028NCP/ 04/22/19 / FAE

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NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS
NC19047NCP / 07-28-21 / KBA

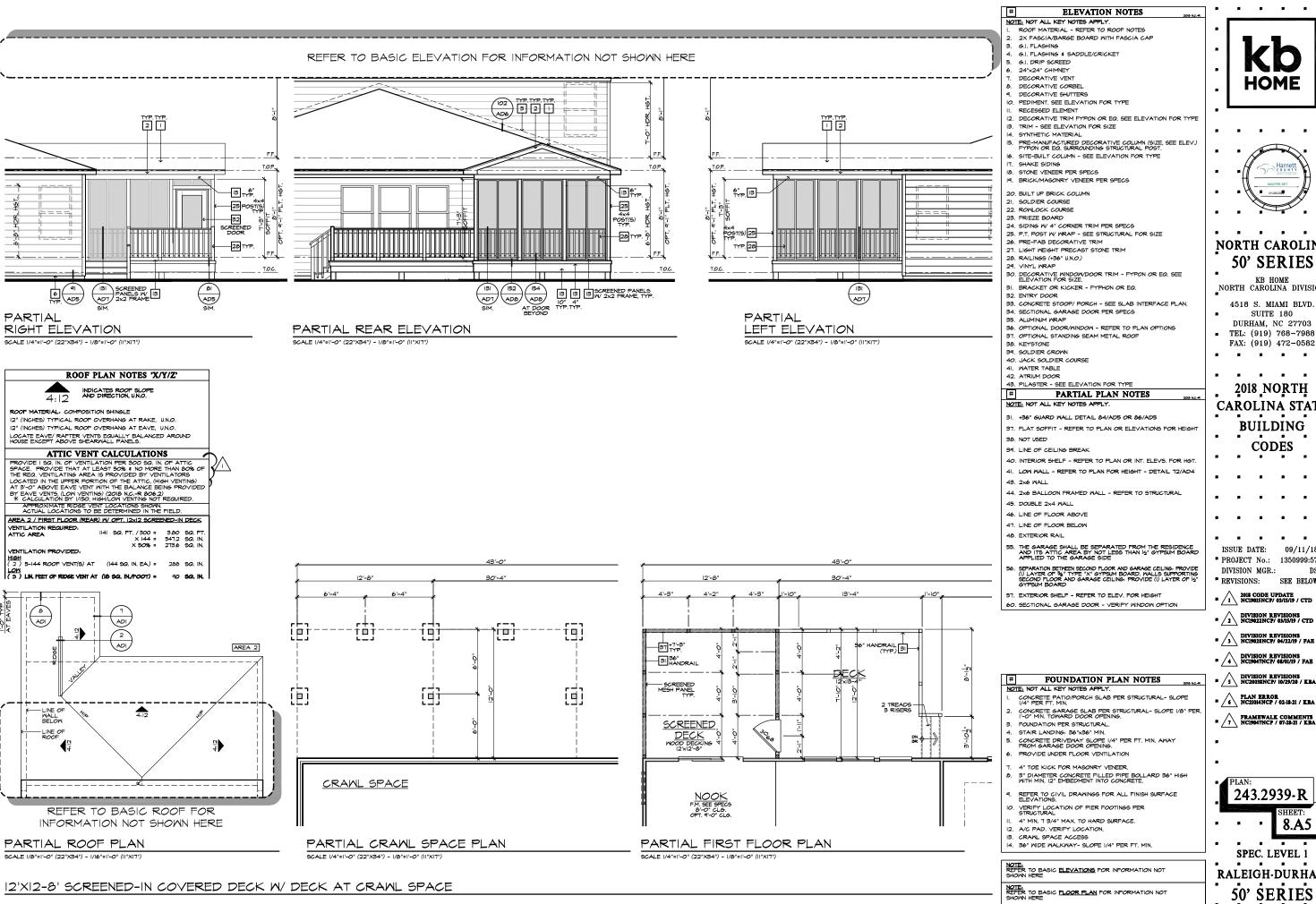
NOTE:
THE CRANL SPACE IS TO BE CONDITIONED PER NC-R SECTION REGOT,
THE CRANL SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION REGOT.

NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC **ELEVATIONS** FOR INFORMATION NOT SHOWN HERE

NOTE:
REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT

243.2939-R 8.A4



HOME



NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 ■ TEL: (919) 768-7988 ■ FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

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DIVISION REVISIONS
NC19047NCP/ 08/01/19 / FAE

DIVISION REVISIONS
NC20038NCP/ 10/29/20 / KBA

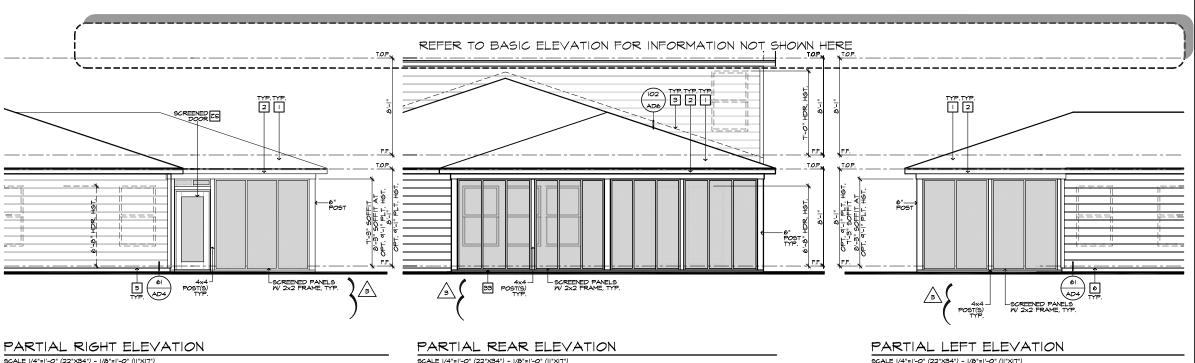
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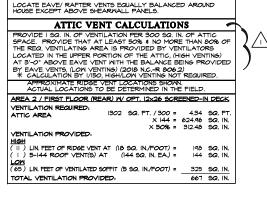
FRAMEWALK COMMENTS NCI9047NCP / 07-28-21 / KBA

243.2939-R

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

8.A5



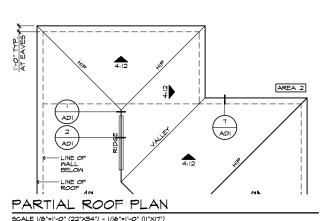


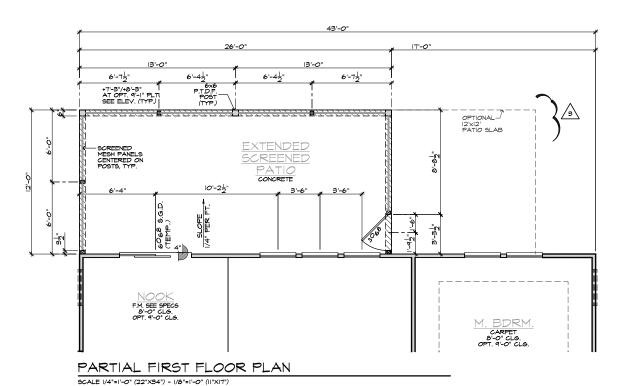
ROOF PLAN NOTES 'A/B/C/D'

INDICATES ROOF SLOPE AND DIRECTION, U.N.O.

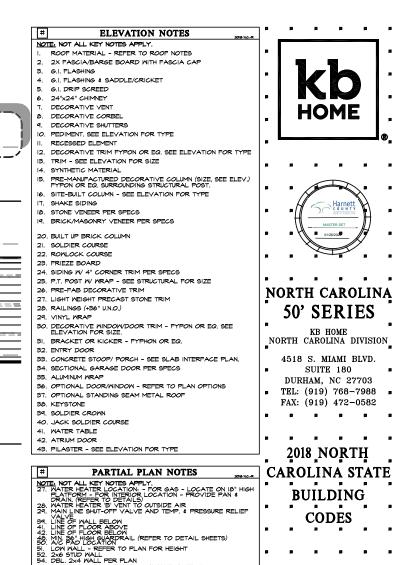
ROOF MATERIAL . COMPOSITION SHINGLE

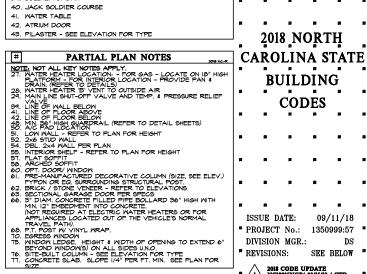
12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE. U.N.O.





12'x26' SCREENED-IN EXTENDED COVERED PATIO





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DIVISION REVISIONS
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NC20038NCP/ 10/29/20 / KBA

PLAN ERROR NC21014NCP / 02-18-21 / KBA

FRAMEWALK COMMENTS NC19047NCP / 07-28-21 / KBA

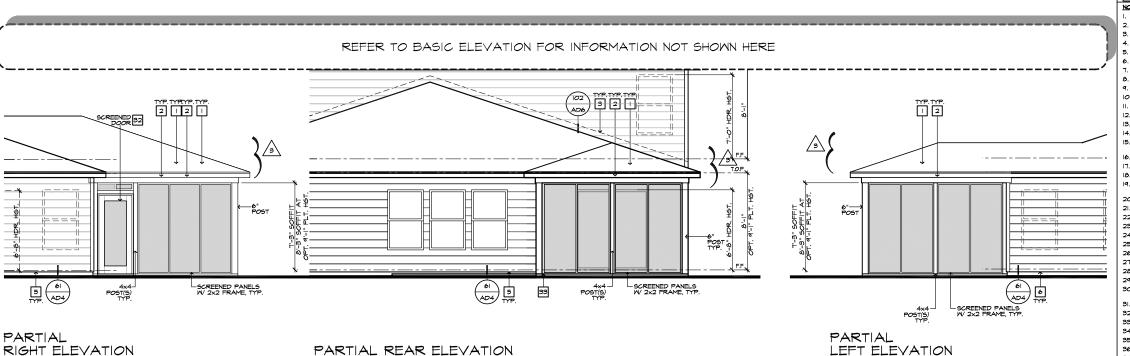
NOTE:
THE CRANL SPACE IS TO BE CONDITIONED PER NC-R SECTION RAOR.
THE CRANL SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION RAOR 2.

NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

243.2939-R SHEET: 8.A6



SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"XI7")

12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS. ATTIC VENT CALCULATIONS PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING SERE IS PROVIDED BY VENTILATING STATE LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 33-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS, (LOW VENTING) (2016 N.C.-R. 806-2) ** CALCULATION BY INSO, HIGHLOW VENTING NOT REQUIRED. APPROXIMATE RIDGE VENT LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD. AREA 2 / FIRST FLOOR (REAR) W OPT, I2xI2 SCREENED-IN DECK VENTILATION REQUIRED: ATTIC AREA VENTILATION PROVIDED: <u>HIGH</u> (2) 5-144 R*OO*F ∨ENT(S) AT (144 SQ. IN. EA.) = 288 SQ. IN. LON (5) LIN. FEET OF RIDGE VENT AT (18 SQ. IN./FOOT) = 90 SQ. IN (60) LIN. FEET OF VENTILATED SOFFIT (5 SQ. IN./FOOT) = 300 SQ. IN TOTAL VENTILATION PROVIDED: 4:12 AREA 2 MALL BELOW ROOF

REFER TO BASIC ROOF FOR INFORMATION NOT SHOWN HERE

PARTIAL ROOF PLAN SCALE I/8"=1'-0" (22"X34") - I/I6"=1'-0" (II"XI7")

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

ROOF MATERIAL: COMPOSITION SHINGLE

ROOF PLAN NOTES 'X/Y/Z'

INDICATES ROOF SLOPE

12'x12' PATIO SLAB F.M. SEE SPECS 8'-O" CLG. OPT. 9'-O" CLG. M. BDRM

PARTIAL FIRST FLOOR PLAN

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

- ROOF MATERIAL REFER TO ROOF NOTES
- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- G.I. FLASHING
- G.I. FLASHING & SADDLE/CRICKET
- G.I. DRIP SCREED
- 24"x24" CHIMNEY
- DECORATIVE VENT
- DECORATIVE CORBEL
- DECORATIVE SHUTTERS
- IO. PEDIMENT. SEE ELEVATION FOR TYPE
- II. RECESSED ELEMENT
- 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM SEE ELEVATION FOR SIZE
- SYNTHETIC MATERIAL
- IS. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
- 17. SHAKE SIDING
- 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS
- 20. BUILT UP BRICK COLUMN
- 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD 24. SIDING W 4" CORNER TRIM PER SPECS
- 25. P.T. POST W/ WRAP SEE STRUCTURAL FOR SIZE
- 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 28. RAILINGS (+36" U.N.O.) 29. VINYL WRAP
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ.
- 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS
- 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/WINDOW REFER TO PLAN OPTIONS
- 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE
- 39. SOLDIER CROWN

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

- 40. JACK SOLDIER COURSE
- 41. WATER TABLE
- 42. ATRIUM DOOR
- 43. PILASTER SEE ELEVATION FOR TYPE #

PARTIAL PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY.

- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 37. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIGH 38. NOT USED
- 39. LINE OF CEILING BREAK
- 40 INTERIOR SHELF REFER TO PLAN OR INT. ELEVS FOR HOT
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4
- 43. 2x6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2x4 MALL
- 46. LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW

NOTE: NOT ALL KEY NOTES APPLY

FOUNDATION PER STRUCTURAL.

4. STAIR LANDING: 36"x36" MIN

12. A/C PAD. VERIFY LOCATION.

CONCRETE GARAGE SLAB PER STRUCTU

IO. VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

4" MIN. 7 3/4" MAX. TO HARD SURFACE.

14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.

- 48. EXTERIOR RAIL
- 55. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSIM BOARD APPLIED TO THE GARAGE SIDE
- 56. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF %" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF 1/2 GYPSUM BOARD

FOUNDATION PLAN NOTES

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.

5. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. PROVIDE UNDER FLOOR VENTILATION 4" TOE KICK FOR MASONRY VENEER

3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION

HOME

NORTH CAROLINA 50' SERIES

KB HOME NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 B FAX: (919) 472-0582
- 2018 NORTH **CAROLINA STATE**
- BUILDING CODES
- ISSUE DATE: 09/11/18
- PROJECT No.: 1350999:57 DIVISION MGR.: REVISIONS: SEE BELOW
 - 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD
 - DIVISION REVISIONS
 NC19022NCP/ 03/15/19 / CTD
 - DIVISION REVISIONS
 NC19028NCP/ 04/22/19 / FAE
 - DIVISION REVISIONS
 NC19047NCP/ 08/01/19 / FAE
 - DIVISION REVISIONS
 NC20038NCP/ 10/29/20 / KBA
 - PLAN ERROR NC21014NCP / 02-18-21 / KBA
 - FRAMEWALK COMMENTS NCI9047NCP / 07-22-21 / KBA



243.2939-R

8.A7

SPEC. LEVEL 1 RALEIGH-DURHAM 50' SERIES

NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

STRUCTURAL PLANS FOR:



243.2939 - RH GARAGE

PLAN RELEASE / REVISIONS				
REV. DATE	ARCH PLAN VERSION	REVISION DESCRIPTION	DRFT	
01/03/2019	249.2939 MP LH 2018-07-17	2018 NORTH CAROLINA RESIDENTIAL CODE UPDATE, NEW DRAWING TEMPLATE	CAR	
04/02/2019	2939_ABCD-R_NC19022NCP_03.22.19	ADDED DEN OPT, SUPER MASTER BATH, AND BED 6 W/ BATH 4 OPTION	CAR	
06/11/2019	243.2939 ABCD RH 2019.04.24	ADDED SCREENED PATIO OPTS	CAR	
10/07/2020	243.2939 LH 2019.07.25	UPDATED REAR COVERED/SCREENED PATIO OPTIONS; RELOCATING REAR POSTS/BEAMS	ABS	

NOTES

- 1. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDSfaulkner, PLLC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- 2. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
- 3. PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
 - A. IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
 - B. IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.

CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE

ENGINEER OF RECORD

JDSfaulkner, PLLC
ENGINEERING + DESIGN + CONSULTING + SURVEYING
CONSULTING SERVICES
8600 'D' JERSEY COURT
RALEIGH, NC 27617
FIRM LIC. NO: P-0961
PROJECT REFERENCE: 20901658



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P-0961

JDSfaulkner, PLLC HAS PERFORMED A
STRUCTURAL REVIEW OF THESE PLANS. THE
STRUCTURAL COMPONENTS COMPLY WITH THE
2018 NORTH CAROLINA RESIDENTIAL CODE FOR
ONE-AND TWO-FAMILY DWELLINGS FOR NC
PLAN REVIEW. DEVIATION OF ANY STRUCTURAL
REQUIREMENTS OF THESE PLANS WITHOUT THE
APPROVAL OF THE EOR IS PROHIBITED.



PROJECT NO.: 20901658 DATE: 10/07/2020

243.2939

TITLE SHEET

T

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE RESIDENTIAL CODE (SEE TITLE SHEET).

GENERAL

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDSfaulkner, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
- 2. BRACED-WALL DESIGN IS BASED ON SECTION R602.10 WALL BRACING. PRIMARY PRESCRIPTIVE METHOD TO BE CS-WSP. SEE WALL BRACING PLANS AND DETAILS FOR ADDITIONAL INFORMATION.

ALL NON-PRESCRIPTIVE SOLUTIONS ARE BASED ON GUIDELINES ESTABLISHED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - SPECIAL DESIGN PROVISIONS FOR WIND AND SFISMIC.

 SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC PROVISIONS, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY.

DESIGN LOADS

ASSUMED SOIL BEARING-CAPACITY	2,000 PS
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ULTIMATE DESIGN WIND SPEED GROUND SNOW ROOF	LIVE LOAD 115 MPH, EXPOSURE B 15 PSF 20 PSF
RESIDENTIAL CODE TABLE R301.5	LIVE LOAD (PSF)
DWELLING UNITS	40
SLEEPING ROOMS	30
ATTICS WITH STORAGE	20
ATTICS WITHOUT STORAGE	10
STAIRS	40
DECKS	40
EXTERIOR BALCONIES	60
PASSENGER VEHICLE GARAGES	50
FIRE ESCAPES	40
GUARDS AND HANDRAILS	200 (pounds, concentrated)

COMPONENT AND CLADDING LOADS, INCLUDING THOSE FOR DOORS AND WINDOWS, SHALL BE DERIVED FROM TABLES R301.2(2) AND R301.2(3) FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 35 FEET, LOCATED IN EXPOSURE B.

ABBREVIATIONS		KS	KING STUD COLUMN
45)/	450/5	LVL	LAMINATED VENEER LUMBER
ABV		MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALI	ALTERNATE	MFTR	MANUFACTURER
BRG BSMT	BEARING	MIN	MINIMUM
		NTS	NOT TO SCALE
CANT	CANTILEVER	OA	OVERALL
CJ	CEILING JOIST	oc	
CLG CMU	CEILING	PT	PRESSURE TREATED
		R.	RISER
CO	CASED OPENING	REF	
COL		RFG	ROOFING
	CONCRETE	RO	ROUGH OPENING
	CONTINUOUS	RS	ROOF SUPPORT
D	CLOTHES DRYER		STUD COLUMN
DBL	DOUBLE	SF	SQUARE FOOT (FEET)
DIAM DJ		SH	SHELF / SHELVES
DN DN	DOUBLE JOIST DOWN	SHTG	
DN DP	DEEP	SHW	
DR DR			SIMILAR
DSP	DOUBLE RAFTER DOUBLE STUD POCKET		SINGLE JOIST
EA	EACH		STUD POCKET
EA EE	EACH END		SPECIFIED
EQ	EQUAL	SQ	SQUARE
EX	EXTERIOR	T	TREAD
FAU	FORCED-AIR UNIT	TEMP	
FDN	FOUNDATION	THK	THICK(NESS)
FF	FINISHED FLOOR	TJ	TRIPLE JOIST
FLR	FLOOR(ING)	TOC	TOP OF CURB / CONCRETE
FP.	FIREPLACE	TR	TRIPLE RAFTER
FTG	FOOTING	TYP	TYPICAL
HB	HOSE BIBB	TYP UNO	UNLESS NOTED OTHERWIS
пь HDR		W	CLOTHES WASHER
HGR	HANGER	WH	WATER HEATER
JS	JACK STUD COLUMN	WWF	WELDED WIRE FABRIC
33	JACK STOD COLUMN	XJ	EXTRA JOIST

MATERIALS

 INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

 FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI

3. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

4. PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI

5. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI

- 6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fv = 50 KSI
- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.
- 8. POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1457
- 9. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2.
- 10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES
- 11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD C270.
- 12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE
- 13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EVICT
- 2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.
- 3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/502: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
- I. CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3 AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
 - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
 - B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
- 5. PLAIN-MASONRY WALL DESIGN TO BE PER TABLE R404.1.1(1) OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
 - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
 - B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
 - C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
- 6. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE SECTION R403.1.6 FOR SPECIFIC CONDITIONS.
- 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.
- 8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE DIEDS
- 9. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).
- 10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.
- 11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.
- 12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

FRAMING

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
- 2. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
- NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
- 4. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- 5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- 6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 7. PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED LUMBER.
 - A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN - OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
 - B. ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
 - C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND DETAILS.
- ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
 A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND
 - COORDINATION BEFORE CONSTRUCTION.

 B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
 - C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
 - D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS. UNO.
- 10. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS. UNO.
- 11. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.
- 12. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).
- 13. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).
- 14. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.
- 15. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.





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P-0961

JDSfaulkner, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THE APPROVAL OF THE EOR IS PROHIBITED.



ECT NO.: 20901658 E: 10/07/2020

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GENERAL NOTES

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GN1.0

FASTENER SCHEDULE				
CONNECTION	3" x 0.131" NAIL	3" x 0.120" NAIL		
JOIST TO SILL PLATE	(4) TOE NAILS	(4) TOE NAILS		
SOLE PLATE TO JOIST / BLOCKING	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)		
STUD TO SOLE PLATE	(4) TOE NAILS	(4) TOE NAILS		
TOP OR SOLE PLATE TO STUD	(3) FACE NAILS	(4) FACE NAILS		
RIM JOIST OR BAND JOIST TO TOP PLATE OR SILL PLATE	TOE NAILS @ 6" OC	TOE NAILS @ 4" OC		
BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE	(4) TOE NAILS	(4) TOE NAILS		
DOUBLE STUD	NAILS @ 8" OC	NAILS @ 8" OC		
DOUBLE TOP PLATES	NAILS @ 12" OC	NAILS @ 12" OC		
DOUBLE TOP PLATES LAP (24" MIN LAP LENGTH)	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT		
TOP PLATE LAP AT CORNERS AND INTERSECTING WALLS	(3) FACE NAILS	(3) FACE NAILS		
OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE (PARALLEL TO WALL)	NAILS @ 6" OC	NAILS @ 4" OC		
BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE (PERPENDICULAR TO WALL)	(3) TOE NAILS	(3) TOE NAILS		

SEE <u>TABLE R602.3(1)</u> FOR ADDITIONAL STRUCTURAL-MEMBER FASTENING REQUIREMENTS.

DETAILS AND NOTES ON DRAWINGS GOVERN.

BALLOON WALL FRAMING SCHEDULE (USE THESE STANDARDS UNLESS NOTED OTHERWISE ON THE FRAMING PLAN SHEETS)

FRAMING MEMBER SIZE	MAX HEIGHT (PLATE TO PLATE) 115 MPH ULTIMATE DESIGN WIND SPEED
2x4 @ 16" OC	10'-0"
2x4 @ 12" OC	12'-0"
2x6 @ 16" OC	15'-0"
2x6 @ 12" OC	17'-9"
2~0 @ 46" 00	19'-0"
2x8 @ 16" OC	
2x8 @ 12" OC	22'-0"
(2) 2x4 @ 16" OC	14'-6"
(2) 2x4 @ 12" OC	17'-0"
(0) 0C @ 4C!! OO	041.011
(2) 2x6 @ 16" OC	21'-6"
(2) 2x6 @ 12" OC	25'-0"
(2) 2x8 @ 16" OC	27'-0"
(2) 2x8 @ 12" OC	31'-0"
(2) 200 (2) 12 00	31-0

- a. ALL HEIGHTS ARE MEASURED SUBFLOOR TO TOP OF WALL PLATE.
- b. WHEN SPLIT-FRAMED WALLS ARE USED FOR HEIGHTS OVER 12', THE CONTRACTOR SHALL ADD 6' MINIMUM OF CS16 COIL STRAPPING (FULLY NAILED), CENTERED OVER THE WALL BREAK.
- C. FINGER-JOINTED MEMBERS MAY BE USED FOR CONTINUOUS
 HEIGHTS WHERE TRADITIONALLY MILLED LUMBER LENGTHS ARE
- d. FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR CONDITION IN DRAWINGS.

ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

1. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL



DENOTES OVER-FRAMED AREA

- 3. MINIMUM 7/16" OSB ROOF SHEATHING
- 4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- 6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- 7. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

STICK-FRAMED ROOF - STRUCTURAL NOTES

- PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
- 2. FUR RIDGES FOR FULL RAFTER CONTACT.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.



DENOTES OVER-FRAMED AREA

- 5. MINIMUM 7/16" OSB ROOF SHEATHING
- PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
- 7. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

BRICK VENEER LINTEL SCHEDULE				
SPAN	STEEL ANGLE SIZE	END BEARING LENGTH		
UP TO 42"	L3-1/2"x3-1/2"x1/4" 8" (MIN. @ EACH END)			
UP TO 72"	L6"x4"x5/16"* (LLV) 8" (MIN. @ EACH END)			
OVER 72"	L6"x4"x5/16"* (LLV) ATTACH LINTEL w/ 1/2" THRU BOLT @ 12" OC, 3" FROM EACH END			

* FOR QUEEN BRICK: LINTELS AT THIS CONDITION MAY BE 5"x3-1/2"x5/16"

NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4" STEEL ANGLE WITH 16D NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" OC TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3"x3"x1/4" PLATES SHALL BE WELDED AT 24" OC ALONG THE STEEL ANGLE.





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P-0961

JDSfaulkner, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THE APPROVAL OF THE EOR IS PROHIBITED.



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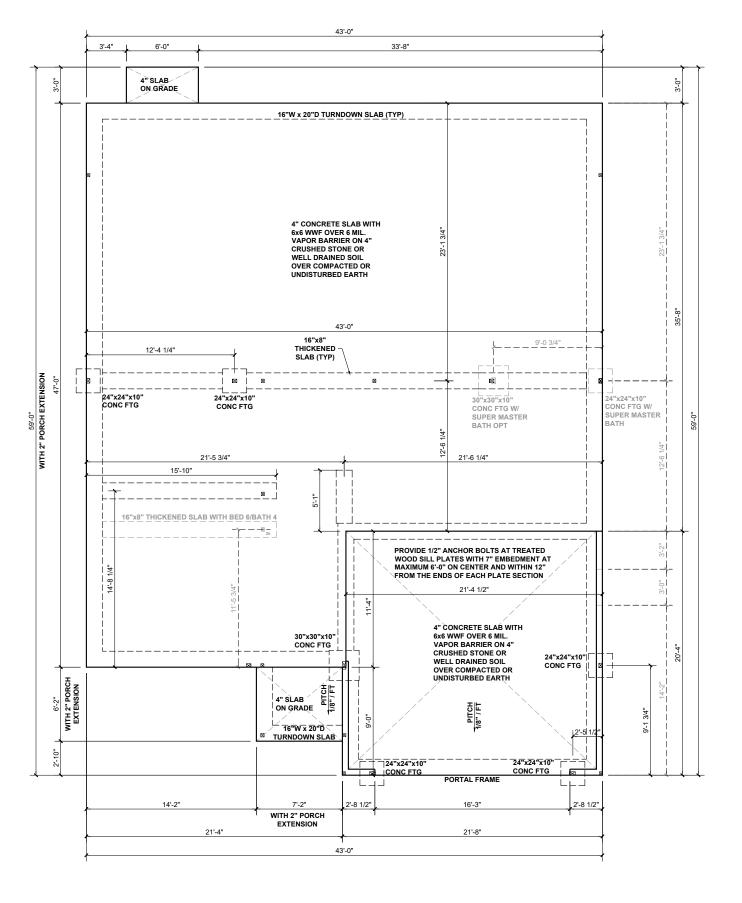
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GENERAL NOTES

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BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT

WINDOW / DOOR HEADER

■ POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.



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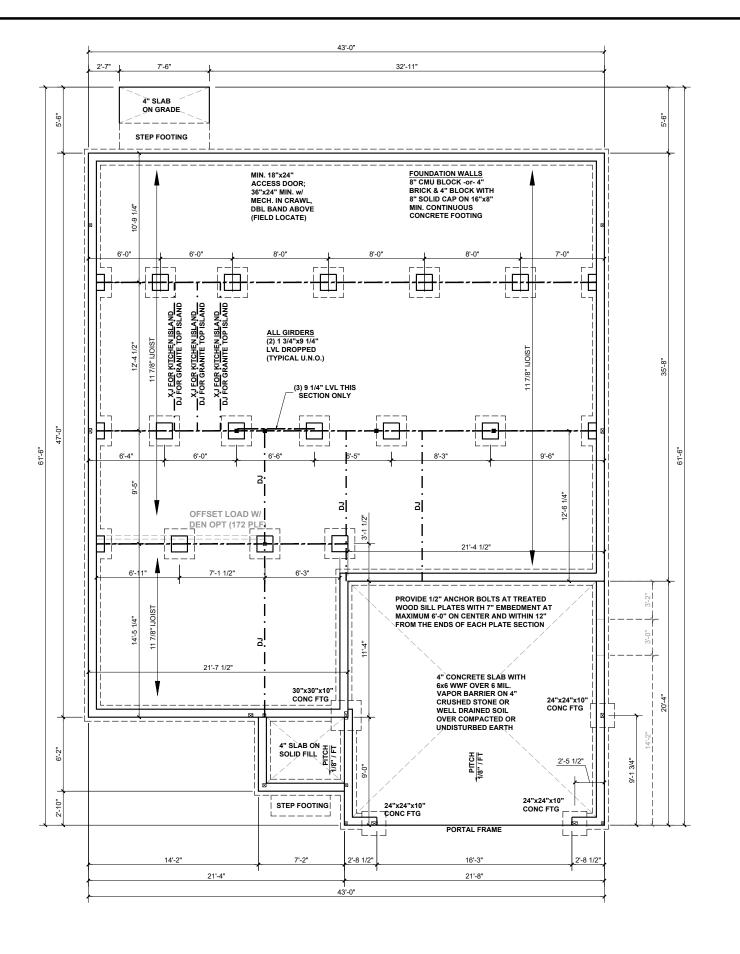
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SLAB FOUNDATION PLAN

S.10A

SLAB FOUNDATION PLAN - 'A'



BEAM & POINT LOAD LEGE

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

 ☑ POINT LOAD TRANSFER
 ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECT FROM MAIN WALL FOOTING

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY SOLID MASONRY

8 X16 UP TO 32" HIGH UP TO 5'-0" HIGH 12X16 UP TO 48" HIGH UP TO 9'-0" HIGH 16X16 UP TO 64" HIGH UP TO 12'-0" HIGH 24X24 UP TO 96" HIGH

WITH 30" X 30" X 10 CONCRETE FOOTING, UNO.

CRAWL SPACE VENTILATION

THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDERFLOOR SPACE AREA, AND ONE SUCH OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.

EXCEPTION: THE TOTAL AREA OF VENTILATION MAY BE REDUCED TO 1/1500 OF THE UNDERFLOOR AREA WHERE THE GROUND SURFACE IS TREATED WITH AN APPROVED VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION.

1778 SQUARE FEET OF TOTAL CRAWL SPACE /

11.85 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

KB



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SEAL 3 045403 10/7/20 040/7/20

P-0961

JDSfaulkner, PLLC HAS PERFORMED A
STRUCTURAL REVIEW OF THESE PLANS. THE
STRUCTURAL COMPONENTS COMPLY WITH THE
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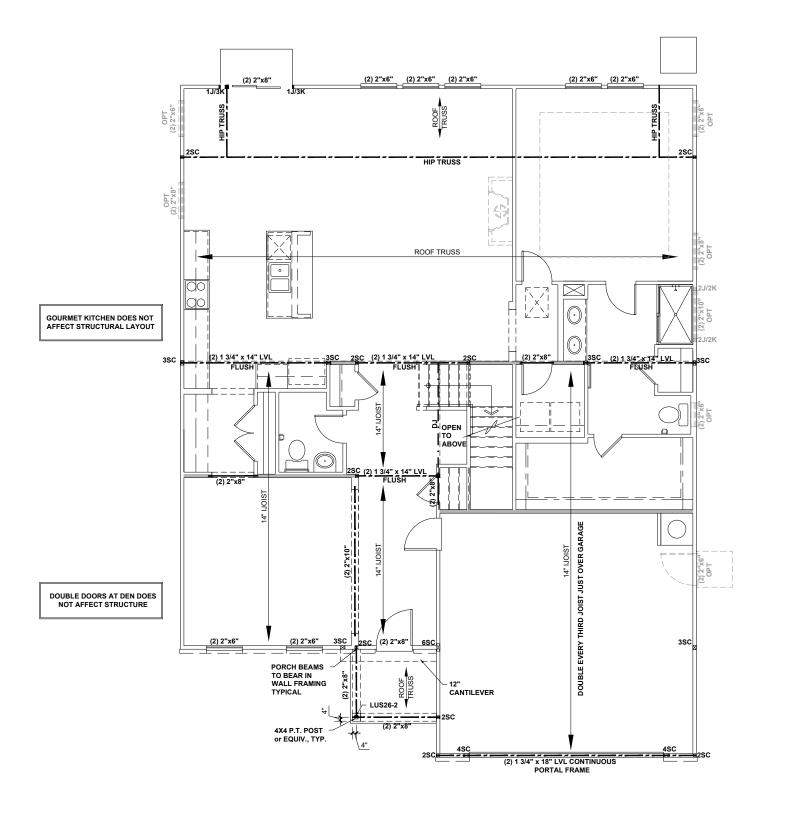
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CRAWL SPACE FOUNDATION PLAN

S.30A

CRAWLSPACE FOUNDATION PLAN - 'A'



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

I. ALL FRAMING TO BE #2 SPF MINIMUM.

 ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END, UNO.

3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

 ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

PRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

1. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).

2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON NS16 FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING, U.N.O.

ALL HANGERS TO BE LUS26-2 FOR TWO PLY SAWN LUMBER BANDS, JOISTS, HEADERS, AND BEAMS UNLESS OTHERWISE NOTED. KB

Harnett COURTY MASTER SET 01:06/2022

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P-0961

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8600 'D' JERSEY CT, RALEIGH, NC 27617;919.480.1075 INFO@JDSfaulkner.COM ; WWW.JDSfaulkner.COM PROJECT NO.: 20901658

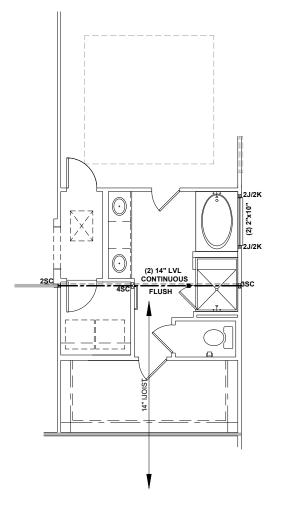
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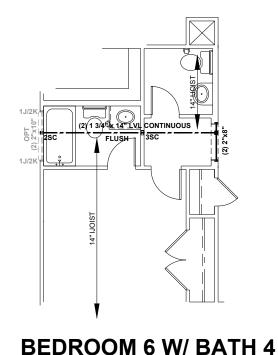
FIRST FLOOR
CEILING FRAMING PLAN

FIRST FLOOR CEILING FRAMING PLAN - 'A'



SUPER MASTER BATH

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



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

14" LOIST

DEN SCALE: 1/8"=1'-0" BEAM & POINT LOAD LEGEN

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE
BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

I. ALL FRAMING TO BE #2 SPF MINIMUM.

 ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END, UNO.

3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

 ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

8. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB

PRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

1. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).

2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

SEE FULL PLAN FOR ADDITIONAL INFORMATION

KB HOME

Harnett Co U.M.T. MARTER ST. 01050000

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PROJECT NO.: 20901658

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PLAN: **243.2939**

FIRST FLOOR OPTIONS CEILING FRAMING PLANS

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S1.1A

FIRST FLOOR OPTIONS CEILING FRAMING PLANS - 'A'

(2) 2"x6" (2) 2"x6" (2) 2"x6" (2) 2"x6" ROOF TRUSS BY MANUFACTURER (2) 2"x6" (2) 2"x6'

BED 5 W/ BATH 3 AND LOFT

ENLARGED BEDROOM 2 & 3 DOES NOT AFFECT STRUCTURAL LAYOUT

DOES NOT AFFECT STRUCTURAL LAYOUT

SHOWER OPTS DO NOT AFFECT STRUCTURAL LAYOUT

BEAM & POINT LOAD LEGEND INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ---- DOUBLE RAFTER / DOUBLE JOIST -- STRUCTURAL BEAM / GIRDER WINDOW / DOOR HEADER POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.) ALL FRAMING TO BE #2 SPF MINIMUM ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTE w/ MIN (1) JACK AND (1) KING EACH END, UNO. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN. ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J /

STRUCTURE FOR ALL POINT LOADS.

BEAM SUPPORT IS (1) 2x4 STUD.

ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM

ALL EXTERIOR WALLS TO BE FULLY SHEATHED

WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS MANUFACTURER'S SPECIFICATIONS).

FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY

(2) 2X_ STUDS UNLESS OTHERWISE NOTED. STUD

COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24

BRACKETS. TRIM OUT PER BUILDER. 10. PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO

PORCH HEADER / BAND.

(1) K, UNO.

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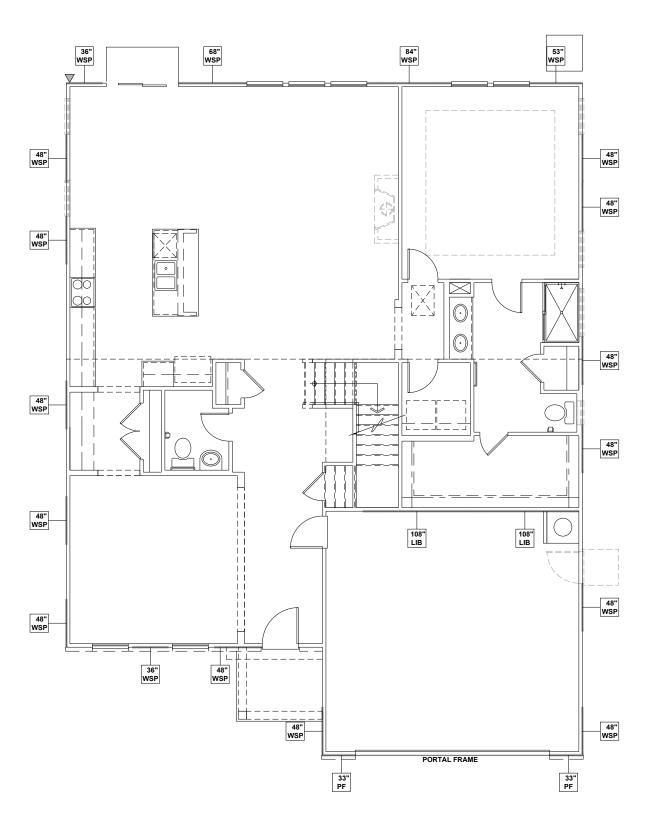


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SECOND FLOOR CEILING FRAMING PLAN

SECOND FLOOR CEILING FRAMING PLAN - 'A'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING
METHOD USING THE RECTANGLE CIRCUMSCRIBED
AROUND THE FLOOR PLAN OR PORTION OF THE
FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE
STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE
RECTANGLE.

PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).

- FOR ADDITIONAL WALL BRACING INFORMATION,

REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

SCALED LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1				
SIDE	PROVIDED LENGTH			
FRONT	18.0 FT.	19.25 FT.		
RIGHT	23.0 FT.	24.0 FT.		
REAR	18.0 FT.	20.08 FT.		
LEFT	23.0 FT.	24.0 FT.		



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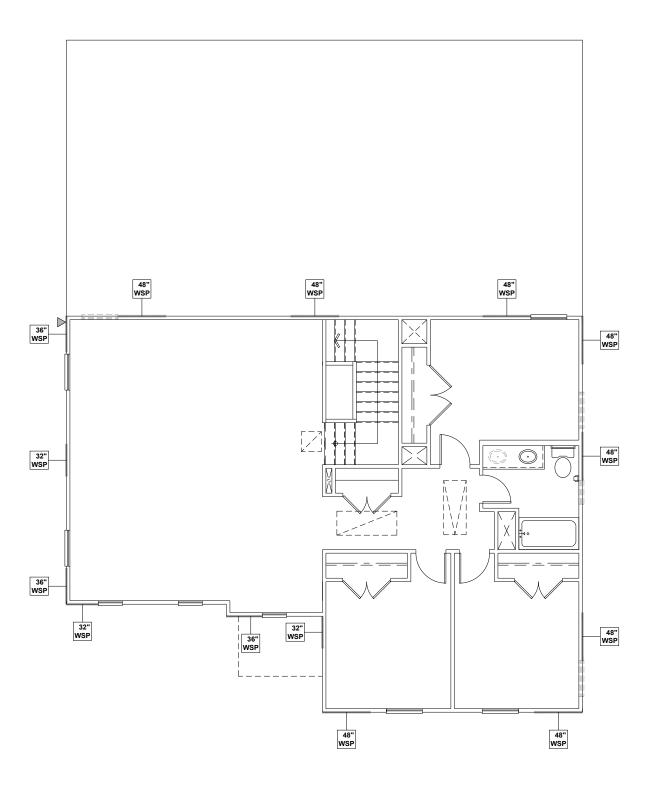
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FIRST FLOOR WALL BRACING PLAN

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S4.0A

FIRST FLOOR WALL BRACING PLAN - 'A'



WALL BRACING REQUIREMENTS

MINIMUM PANEL WIDTH IS 24"

- FIGURES BASED ON THE CONTINUOUS SHEATHING
 METHOD USING THE RECTANGLE CIRCUMSCRIBED
 AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION PANELS WIAT STIFT OF 1058 ETHILD RICE.
 FOR EASE OF CONSTRUCTION (NAILING & BLOCK
 REQUIREMENTS STILL APPLY).
 FOR ADDITIONAL WALL BRACING INFORMATION,
 REFER TO WALL BRACING DETAIL SHEET(S).
- RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH OF WALL PANEL AT LOCATION

LENGTH PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH		
FRONT	9.0 FT.	13.66 FT.		
RIGHT	7.0 FT.	11.33 FT.		
REAR	9.0 FT.	12.0 FT.		
LEFT	7.0 FT.	12.0 FT.		



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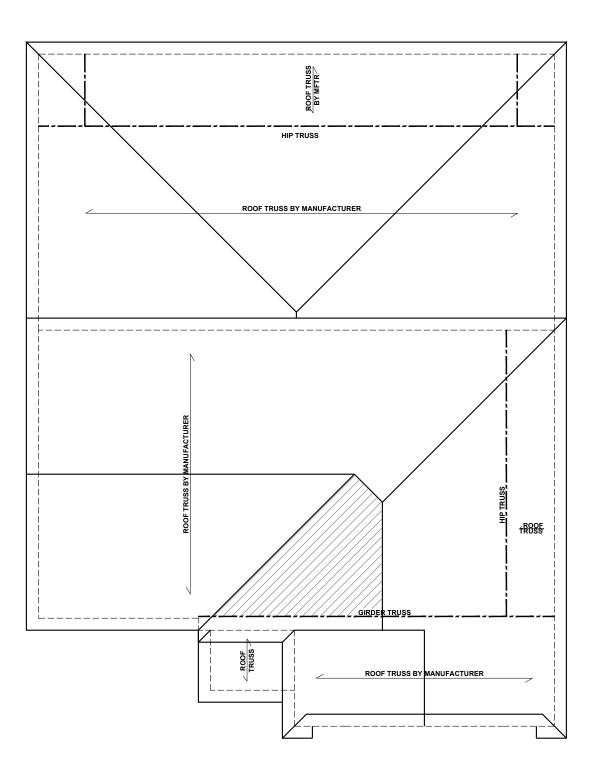


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SECOND FLOOR WALL BRACING PLAN

S5.0A

SECOND FLOOR WALL BRACING PLAN - 'A'



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ----- DOUBLE RAFTER / DOUBLE JOIST --- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

DENOTES OVER-FRAMED AREA

3. MINIMUM 7/16" OSB ROOF SHEATHING

4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.

PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED

UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3'
ABOVE THE SOFFIT VENTILATION INTAKE.

2441 SQUARE FEET OF TOTAL ATTIC / 150 =

16.27 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28' (1) SIMPSON H2.5A HURRICANE

(1) SIMPSON HZ.5A HURRICAN CLIP TO DBL TOP PLATE OR BEAM OR (1) SIMPSON H3 CLIP TO

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NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180
DURHAM, NC 27703
TEL: (919) 768-7988 FAX: (919) 472-0582



P-0961

JDSfaulkner, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THI APPROVAL OF THE EOR IS PROHIBITED.



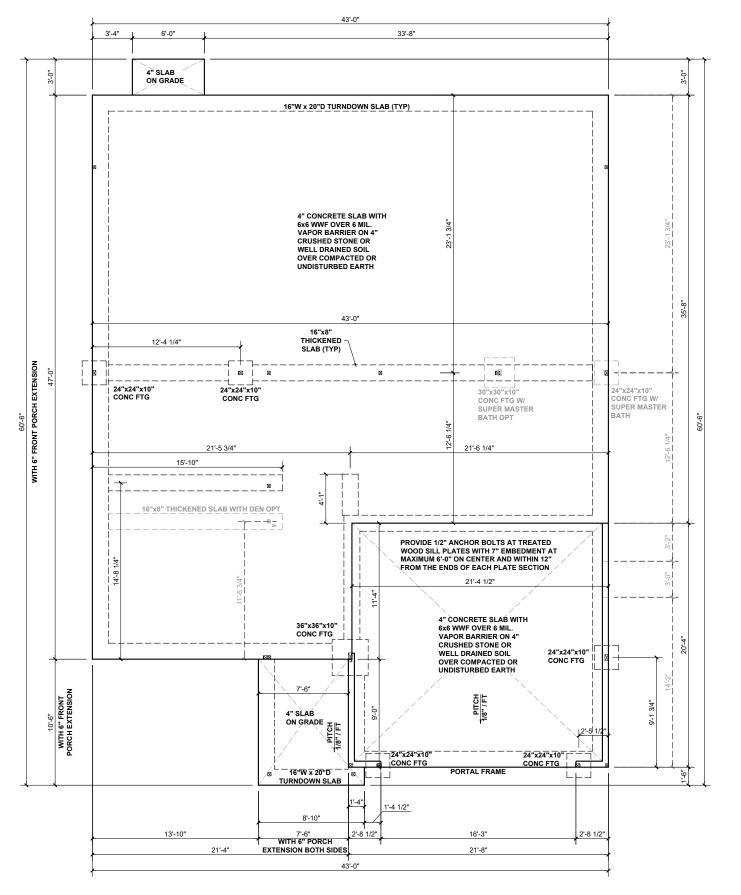
10/07/2020

243.2939

ROOF FRAMING PLAN

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ROOF FRAMING PLAN - 'A'



SLAB FOUNDATION PLAN - 'B'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT

---- DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

 ☑ POINT LOAD TRANSFER
 ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.



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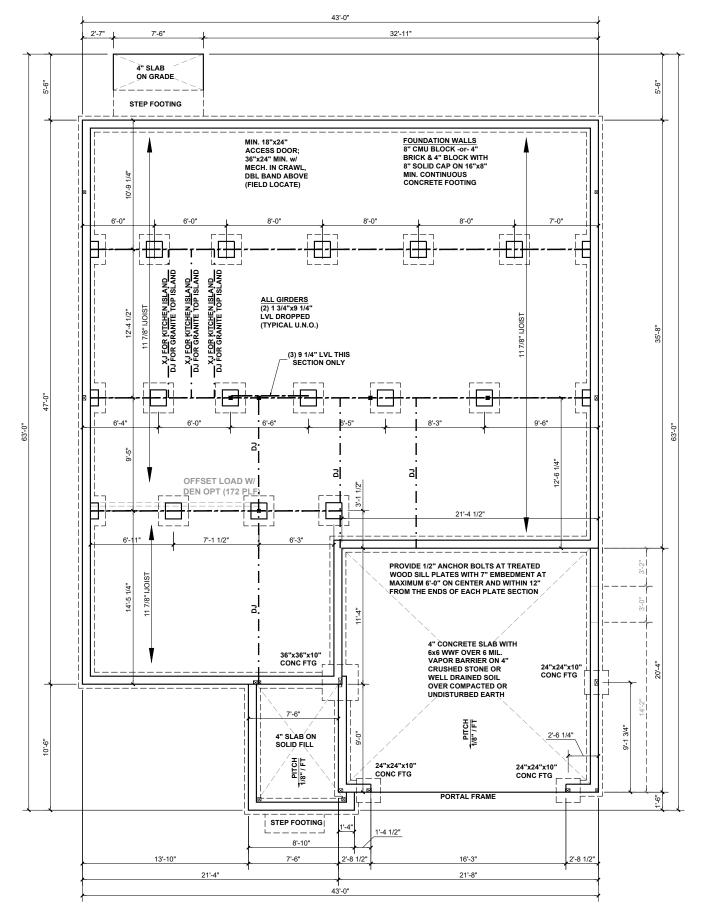
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SLAB FOUNDATION PLAN

. . . .

S.10B



CRAWLSPACE FOUNDATION PLAN - 'B'

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

BEAM & POINT LOAD LEG

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT
DOUBLE RAFTER / DOUBLE JOIST
STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER
POINT LOAD TRANSFER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE
BEARING ON BEAM / GIRDER

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECT FROM MAIN WALL FOOTING

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY SOLID MASONRY

8 X16 UP TO 32" HIGH UP TO 5'-0" HIGH 12X16 UP TO 48" HIGH UP TO 9'-0" HIGH 16X16 UP TO 64" HIGH UP TO 12'-0" HIGH 24X24 UP TO 96" HIGH WITH 30" X 30" X 10 CONCRETE FOOTING, UNO.

CRAWL SPACE VENTILATION

THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDERFLOOR SPACE AREA, AND ONE SUCH OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.

EXCEPTION: THE TOTAL AREA OF VENTILATION MAY BE REDUCED TO 1/1500 OF THE UNDERFLOOR AREA WHERE THE GROUND SURFACE IS TREATED WITH AN APPROVED VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION.

1778 SQUARE FEET OF TOTAL CRAWL SPACE /

11.85 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)





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JDSfaulkner, PLLC HAS PERFORMED A
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PROJECT NO.: 20901658

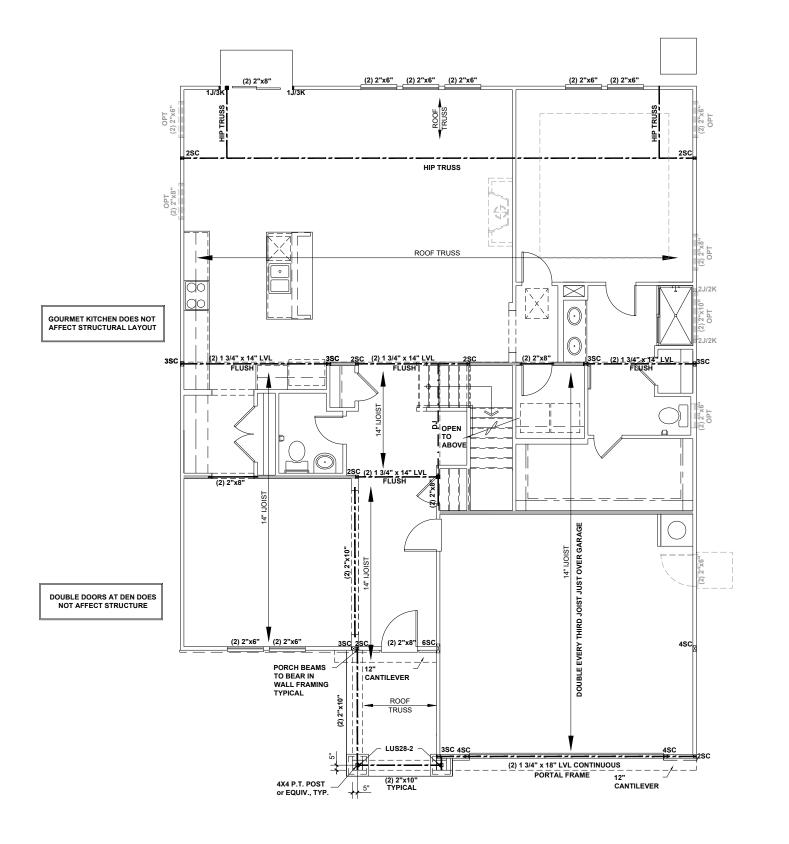
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CRAWL SPACE FOUNDATION PLAN

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S.30B



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

WINDOW / DOOR HEADER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

I. ALL FRAMING TO BE #2 SPF MINIMUM.

 ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END, UNO.

3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

3. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

PRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED A' BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

 WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).

FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING, U.N.O.

ALL HANGERS TO BE LUS26-2 FOR TWO PLY SAWN LUMBER BANDS, JOISTS, HEADERS, AND BEAMS UNLESS OTHERWISE NOTED.



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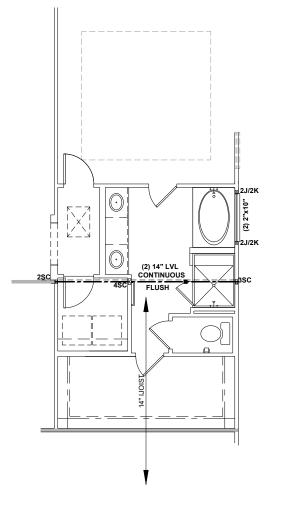
PLAN: **243.2939**

FIRST FLOOR CEILING FRAMING PLAN

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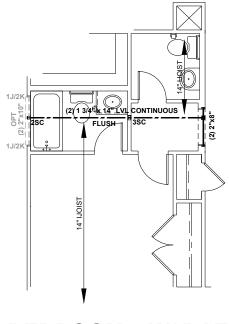
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FIRST FLOOR CEILING FRAMING PLAN - 'B'



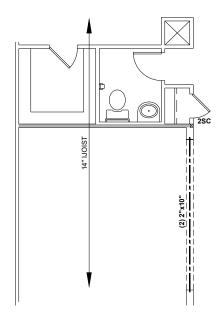
SUPER MASTER BATH

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



BEDROOM 6 W/ BATH 4

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



DEN SCALE: 1/8"=1'-0"

INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ----- DOUBLE RAFTER / DOUBLE JOIST -- STRUCTURAL BEAM / GIRDER POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

ALL FRAMING TO BE #2 SPF MINIMUM.

ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.

EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

STRUCTURE FOR ALL POINT LOADS.

ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

ALL EXTERIOR WALLS TO BE FULLY SHEATHED

FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).

FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

SEE FULL PLAN FOR ADDITIONAL INFORMATION

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243.2939

FIRST FLOOR OPTIONS CEILING FRAMING PLANS

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FIRST FLOOR OPTIONS CEILING FRAMING PLANS - 'B'

(2) 2"x6" (2) 2"x6" ROOF TRUSS BY MANUFACTURER (2) 2"x6"

BED 5 W/ BATH 3 AND LOFT

ENLARGED BEDROOM 2 & 3 DOES NOT AFFECT STRUCTURAL LAYOUT

DOES NOT AFFECT STRUCTURAL LAYOUT POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

I. ALL FRAMING TO BE #2 SPF MINIMUM.

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- 5. ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- 7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- 10. PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- 1. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
- 12. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

SHOWER OPTS DO NOT AFFECT STRUCTURAL LAYOUT

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X, STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

KB HOME

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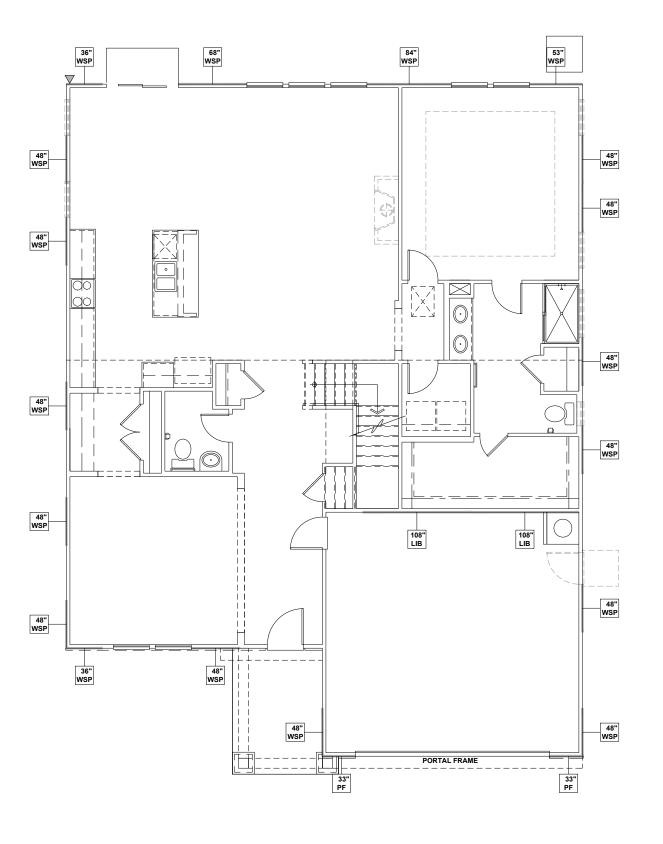
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SECOND FLOOR CEILING FRAMING PLAN

. . . .

S2.0B

SECOND FLOOR CEILING FRAMING PLAN - 'B'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.

- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY). - FOR ADDITIONAL WALL BRACING INFORMATION.

REFER TO WALL BRACING DETAIL SHEET(S).
SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

SCALED LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1 SIDE REQUIRED LENGTH PROVIDED LENGTH FRONT 18.0 FT. 19.25 FT. RIGHT 23.0 FT. 24.0 FT. REAR 18.0 FT. 20.08 FT. LEFT 23.0 FT. 24.0 FT.



Harnett Country Master SET 01/26/2022

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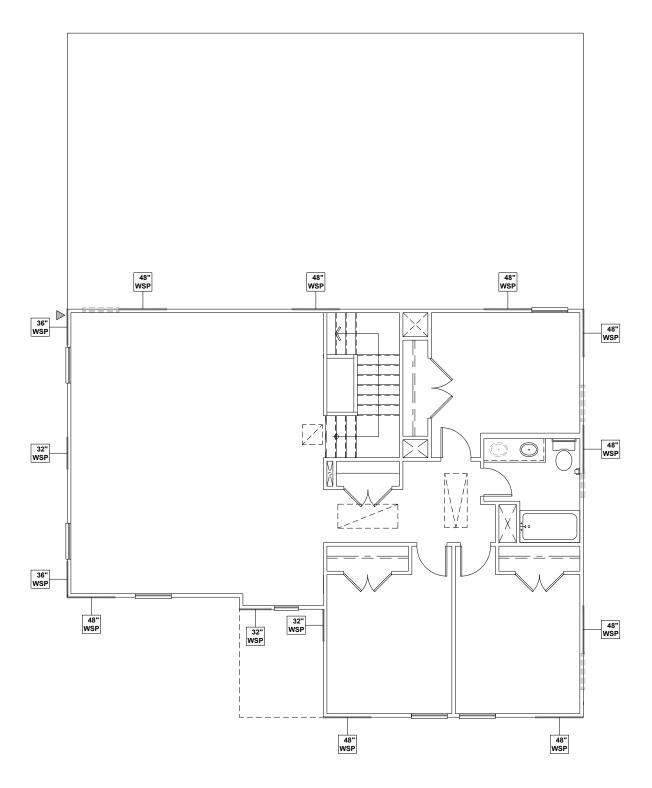
PLAN: **243.2939**

FIRST FLOOR WALL BRACING PLAN

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S4.0B

FIRST FLOOR WALL BRACING PLAN - 'B'



SECOND FLOOR WALL BRACING PLAN - 'B'

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

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"

- MINIMOM FALE WIDTH 324
 FIGURES BASED ON THE CONTINUOUS SHEATHING
 METHOD USING THE RECTANGLE CIRCUMSCRIBED
 AROUND THE FLOOR PLAN OR PORTION OF THE
 FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE
 STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE
 RECTANGLE
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
 FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). - SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 104 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

24"
WSP
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHEE BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	9.0 FT.	14.66 FT.
RIGHT	7.0 FT.	11.33 FT.
REAR	9.0 FT.	12.0 FT.
LEFT	7.0 FT.	12.0 FT.
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FAX: (919) 472-0582

P-0961

JDSfaulkner, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THIS APPROVAL OF THE EOR IS PROHIBITED.



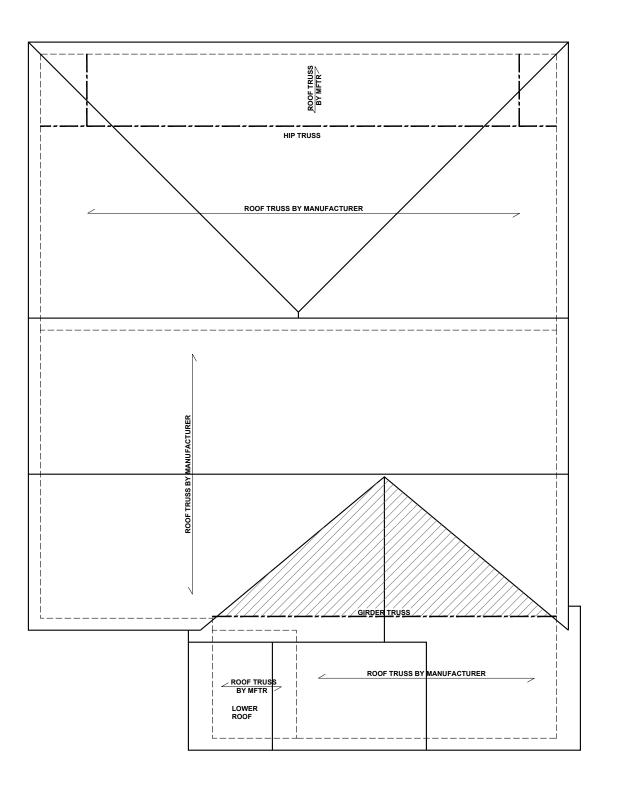
DATE: 10/07/20

243.2939

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SECOND FLOOR WALL BRACING PLAN

S5.0B



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ---- DOUBLE RAFTER / DOUBLE JOIST

--- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

DENOTES OVER-FRAMED AREA

3. MINIMUM 7/16" OSB ROOF SHEATHING

4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.

PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED

UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC
SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3'
ABOVE THE SOFFIT VENTILATION INTAKE.

2535 SQUARE FEET OF TOTAL ATTIC / 150 =

16.9 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

OR (1) SIMPSON H3 CLIP TO

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PROJECT NO.: 2090165

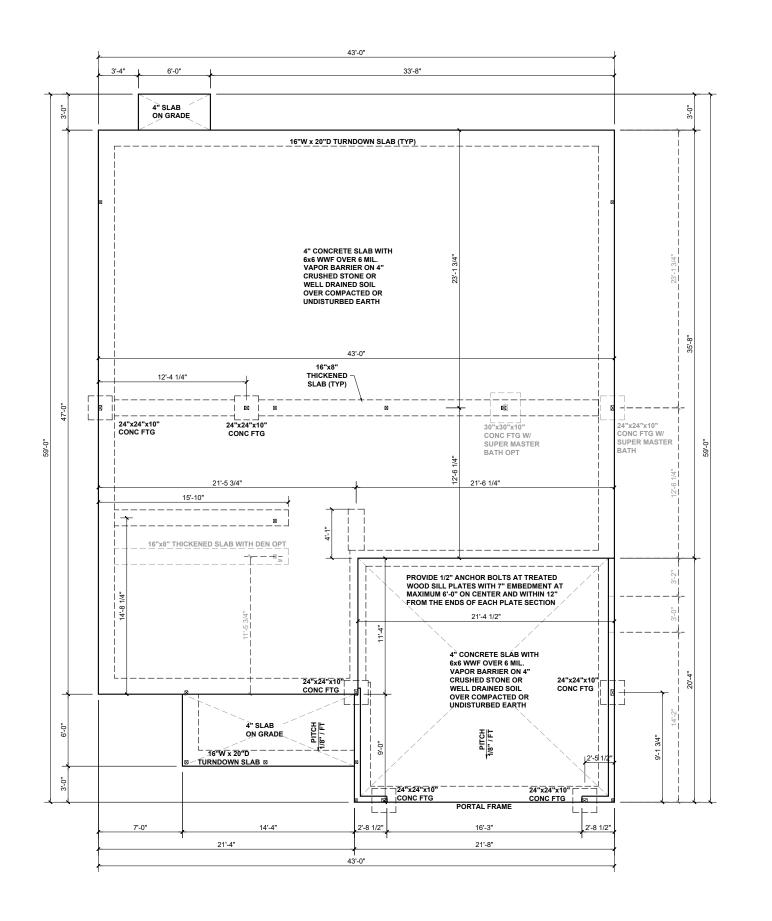
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ROOF FRAMING PLAN

S7.0B

ROOF FRAMING PLAN - 'B'



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
OF ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.



KB HOME
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P-0961

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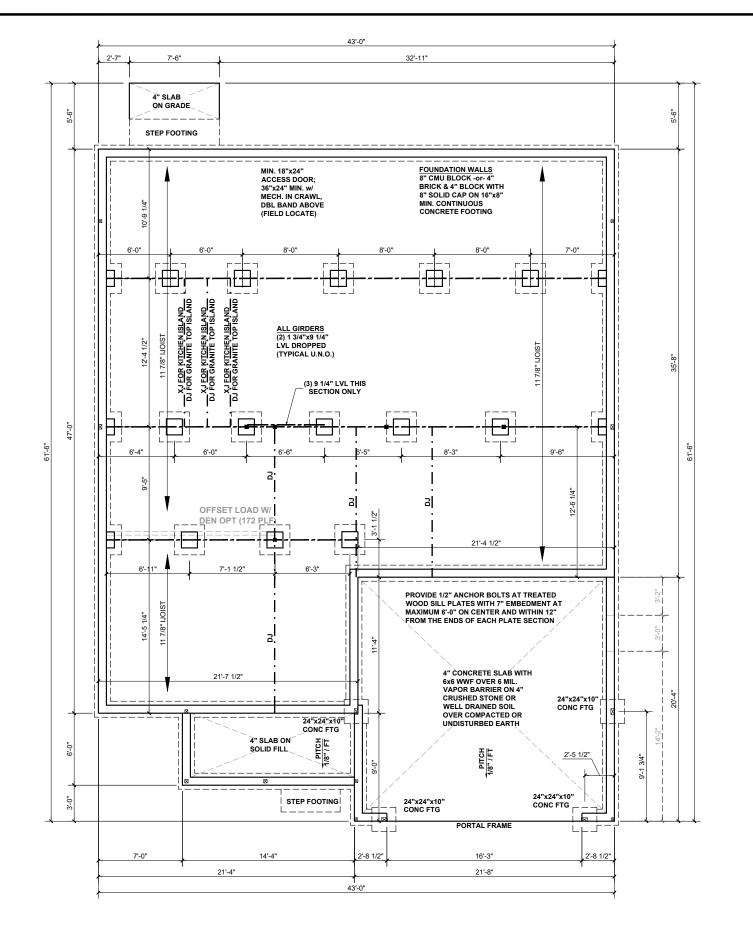
PLAN: **243.2939**

SLAB FOUNDATION PLAN

. . . .

S.10C

SLAB FOUNDATION PLAN - 'C'



INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ----- DOUBLE RAFTER / DOUBLE JOIST

-- STRUCTURAL BEAM / GIRDER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECT FROM MAIN WALL FOOTING

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE

UP TO 32" HIGH UP TO 5'-0" HIGH UP TO 9'-0" HIGH UP TO 12'-0" HIGH UP TO 48" HIGH UP TO 64" HIGH 24X24 UP TO 96" HIGH

WITH 30" X 30" X 10 CONCRETE FOOTING, UNO.

CRAWL SPACE VENTILATION

THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDERFLOOR SPACE AREA, AND ONE SUCH OPENING SHALL BE WITHIN 3
FEET OF EACH CORNER OF THE BUILDING.

EXCEPTION: THE TOTAL AREA OF VENTILATION MAY BE REDUCED TO 1/1500 OF THE UNDERFLOOR AREA WHERE THE GROUND SURFACE IS TREATED WITH AN APPROVED VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION.

1778 SQUARE FEET OF TOTAL CRAWL SPACE /

11.85 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)



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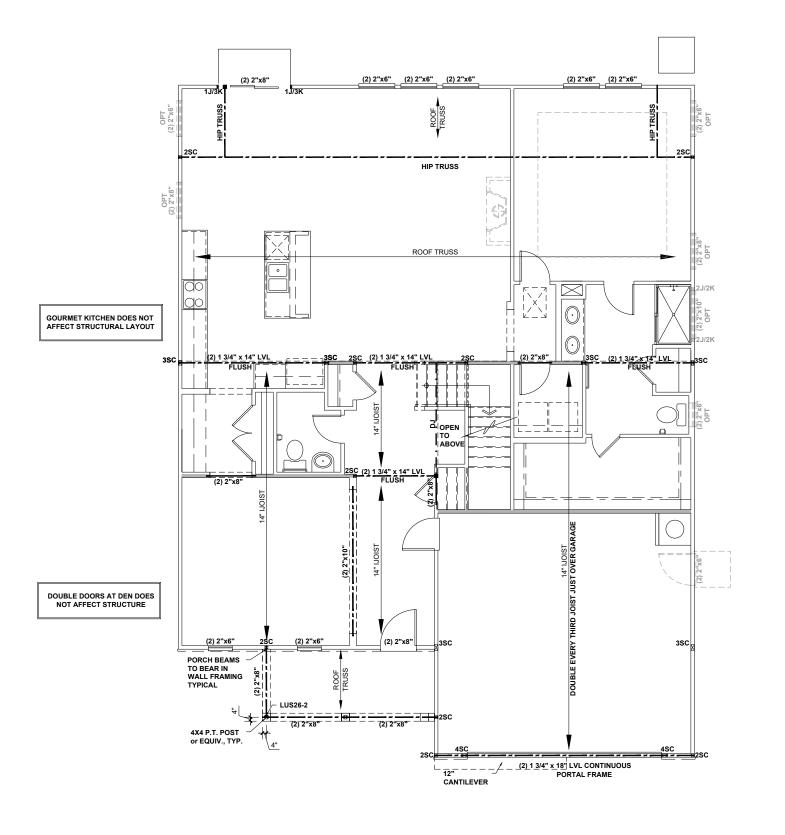


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CRAWL SPACE FOUNDATION PLAN

S.30C

CRAWLSPACE FOUNDATION PLAN - 'C'



INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

DOUBLE RAFTER / DOUBLE JOIS
 STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

I. ALL FRAMING TO BE #2 SPF MINIMUM.

 ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END, UNO.

3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

3. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

PRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

1. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).

2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING, U.N.O.

ALL HANGERS TO BE LUS26-2 FOR TWO PLY SAWN LUMBER BANDS, JOISTS, HEADERS, AND BEAMS UNLESS OTHERWISE NOTED.



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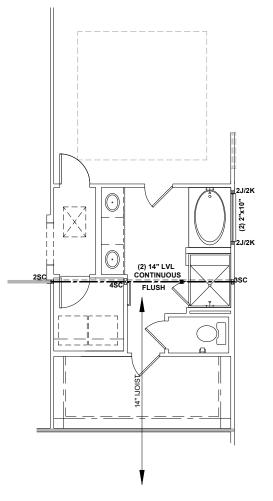
PROJECT NO.: 209
DATE: 10/0

PLAN: **243.2939**

FIRST FLOOR
CEILING FRAMING PLAN

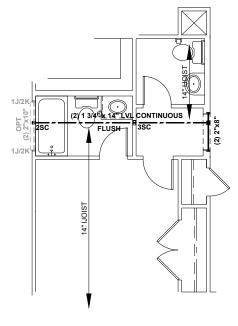
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FIRST FLOOR CEILING FRAMING PLAN - 'C'



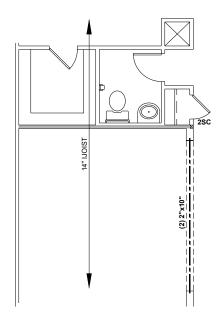
SUPER MASTER BATH

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



BEDROOM 6 W/ BATH 4

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



DEN SCALE: 1/8"=1'-0" BEAM & POINT LOAD LEGEN

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE
BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

1. ALL FRAMING TO BE #2 SPF MINIMUM.

ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END, UNO.

3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

 ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

 ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

8. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB

PRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

1. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).

12. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

SEE FULL PLAN FOR ADDITIONAL INFORMATION

KB HOME

Harrett COUNTY ON OFFICE OF THE PROPERTY OF TH

NORTH CAROLINA DIVISION
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SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582



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PROJECT NO.: 20901658

DATE: 10/07/2020

PLAN:

243.2939

FIRST FLOOR OPTIONS CEILING FRAMING PLANS

. . . .

S1.1C

FIRST FLOOR OPTIONS CEILING FRAMING PLANS - 'C'

TRUSS 1J/2K (2) 2"x6" (2) 2"x6" ROOF TRUSS BY MANUFACTURER ROOF TRUSS (2) 2"x6" (2) 2"x6"

BED 5 W/ BATH 3 AND LOFT

ENLARGED BEDROOM 2 & 3 DOES NOT AFFECT STRUCTURAL LAYOUT

DOES NOT AFFECT STRUCTURAL LAYOUT

SHOWER OPTS DO NOT AFFECT STRUCTURAL LAYOUT

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ----- DOUBLE RAFTER / DOUBLE JOIST -- STRUCTURAL BEAM / GIRDER

> WINDOW / DOOR HEADER POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

ALL FRAMING TO BE #2 SPF MINIMUM.

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
- STRUCTURE FOR ALL POINT LOADS.
- ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- 0. PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS MANUFACTURER'S SPECIFICATIONS).
- FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_ STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.



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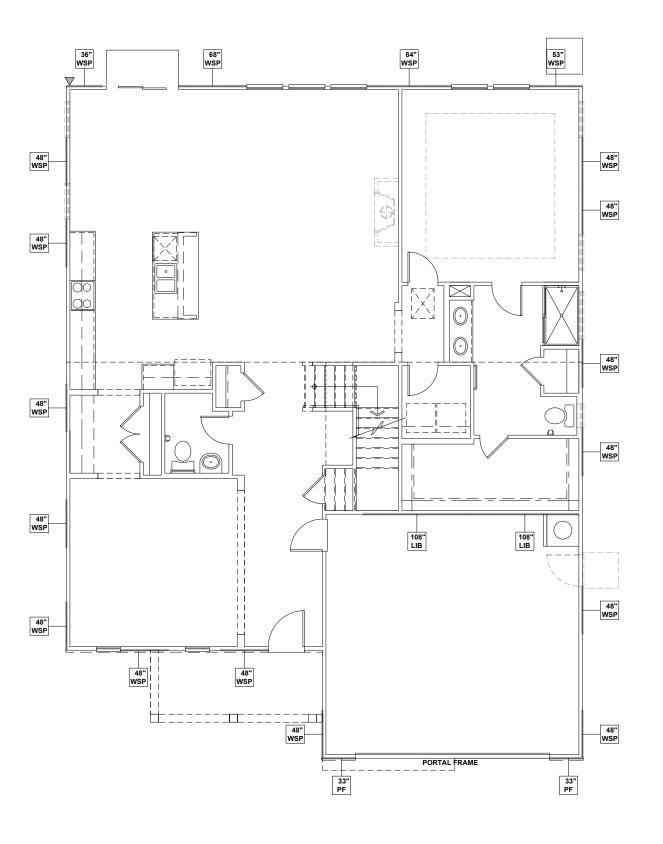
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243.2939

SECOND FLOOR CEILING FRAMING PLAN

SECOND FLOOR CEILING FRAMING PLAN - 'C'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.

- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY). - FOR ADDITIONAL WALL BRACING INFORMATION.

REFER TO WALL BRACING DETAIL SHEET(S).
SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W. SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICAL
LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1 SIDE REQUIRED LENGTH LENGTH LENGTH LENGTH FRONT 18.0 FT. 20.25 FT. RIGHT 23.0 FT. 24.0 FT. REAR 18.0 FT. 20.08 FT. LEFT 23.0 FT. 24.0 FT.



KB HOME
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SEAL 3 045403 10/7/20 045403 10/7/20 10/7/20

P-0961

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PROJECT NO.: 209016 DATE: 10/07/20

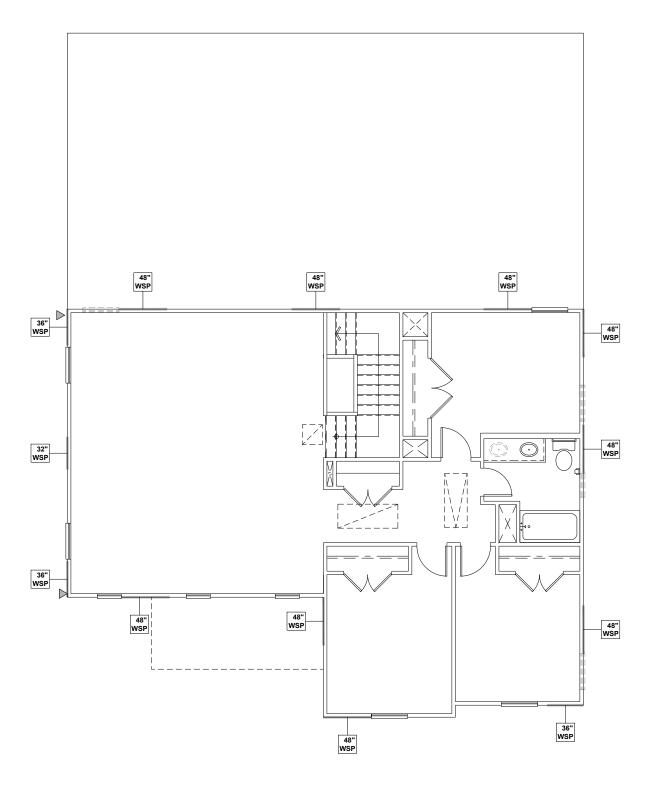
PLAN: **243.2939**

FIRST FLOOR WALL BRACING PLAN

. . . .

S4.0C

FIRST FLOOR WALL BRACING PLAN - 'C'



SECOND FLOOR WALL BRACING PLAN - 'C'

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

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"

- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
 FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
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 SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 104 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICAL
LENGTH
WSP
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH	
FRONT	9.0 FT.	11.0 FT.	
RIGHT	7.0 FT.	12.66 FT.	
REAR	9.0 FT.	12.0 FT.	
LEFT	7.0 FT.	12.0 FT.	





P-0961

JDSfaulkner, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THIS APPROVAL OF THE EOR IS PROHIBITED.



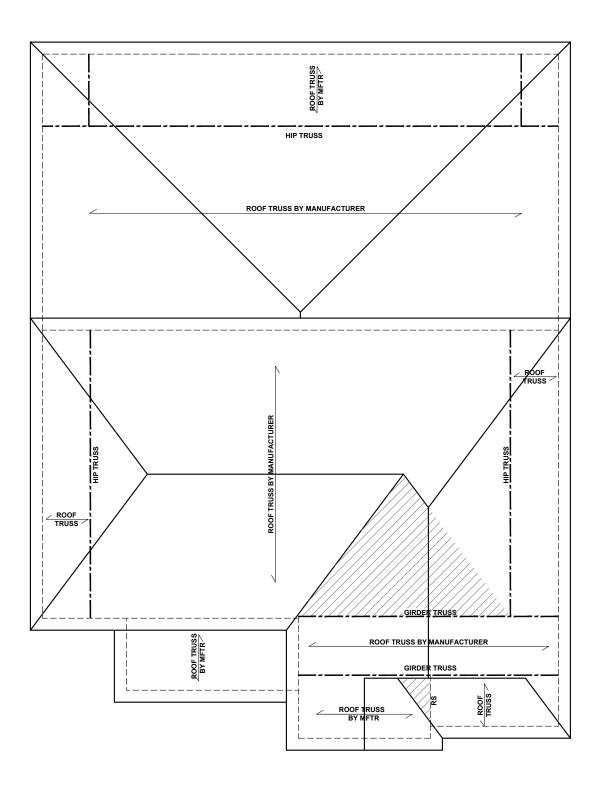
DATE: 10/07/2020

PLAN:
243.2939

SECOND FLOOR WALL BRACING PLAN

. . . .

S5.0C



INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

DENOTES OVER-FRAMED AREA

3. MINIMUM 7/16" OSB ROOF SHEATHING

4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.

6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.

. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

______SQUARE FEET OF TOTAL ATTIC / 150 =

16.78 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR
NAILING PER TABLE 602.3(1)
NCRBC 2018 EDITION

OVER 28'

(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE



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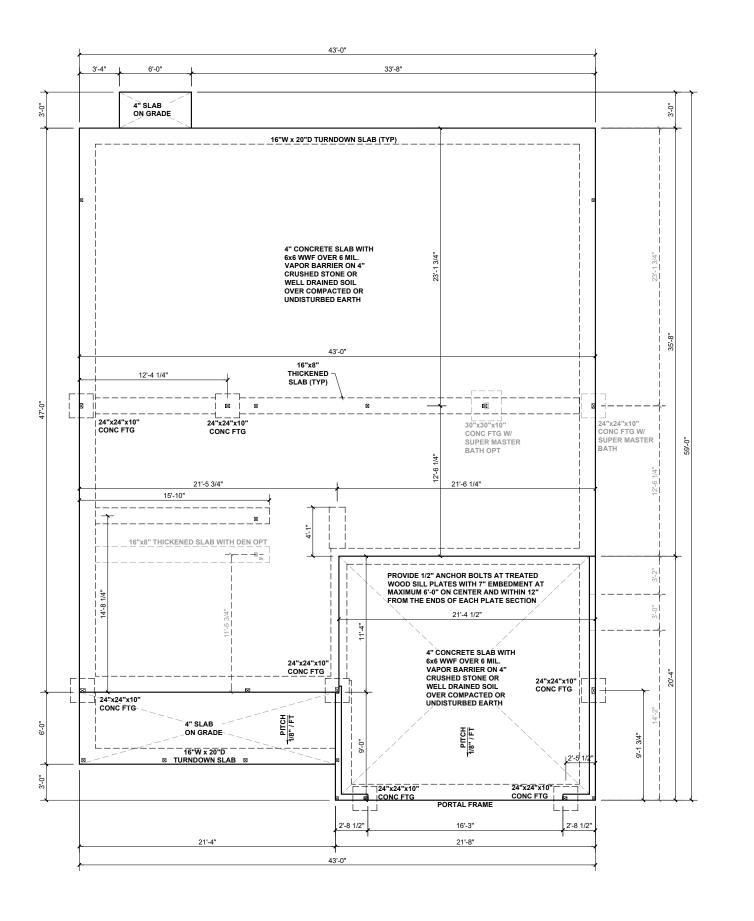


INFO@JDSfaulkner.COM; WWW.JDSfaulkner.COM					
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PLAN: 243.2939					

ROOF FRAMING PLAN

S7.0C

ROOF FRAMING PLAN - 'C'



INTERIOR LOAD BEARING WALL
OF ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

☑ POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.



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ORTH CAROLINA DIVISION
4518 S. MIAMI BLVD.

4518 S. MIAMI BLVD.
SUITE 180
DURHAM, NC 27703
TEL: (919) 768-7988
FAX: (919) 472-0582



P-0961

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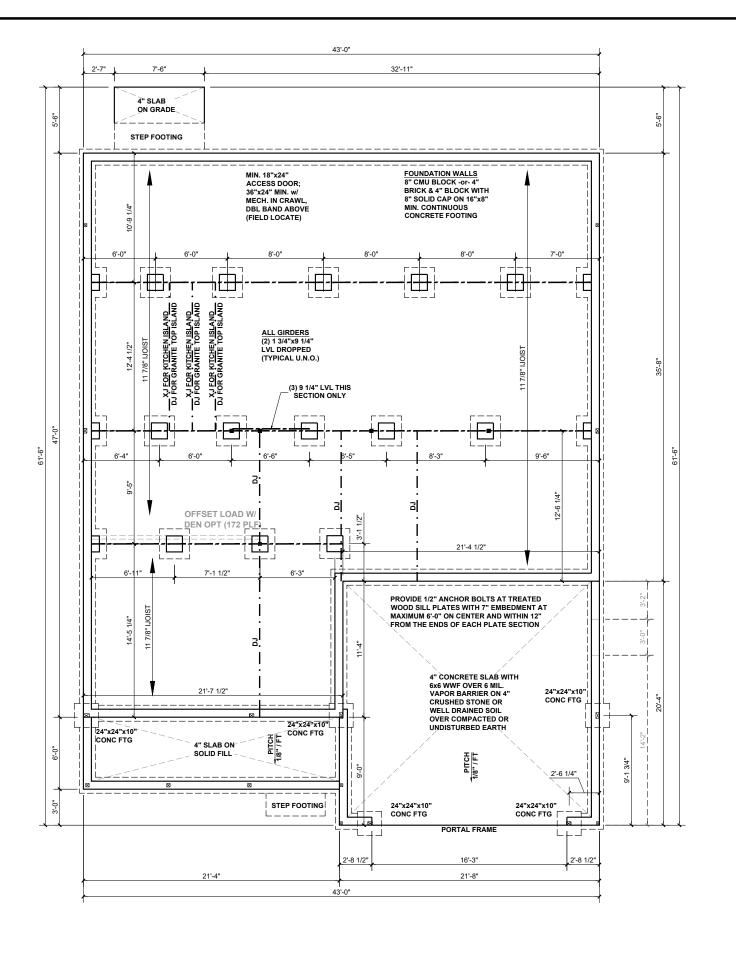
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PLAN: **243.2939**

SLAB FOUNDATION PLAN

S.10D

SLAB FOUNDATION PLAN - 'D'



INTERIOR LOAD BEARING WALL
ON ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST
STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER
POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECT FROM MAIN WALL FOOTING

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY SOLID MASONRY

8 X16 UP TO 32" HIGH UP TO 5'-0" HIGH 12X16 UP TO 48" HIGH UP TO 9'-0" HIGH 16X16 UP TO 64" HIGH UP TO 12'-0" HIGH 24X24 UP TO 96" HIGH WITH 30" X 30" X 10 CONCRETE FOOTING, UNO.

CRAWL SPACE VENTILATION

THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDERFLOOR SPACE AREA, AND ONE SUCH OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.

EXCEPTION: THE TOTAL AREA OF VENTILATION MAY BE REDUCED TO 1/1500 OF THE UNDERFLOOR AREA WHERE THE GROUND SURFACE IS TREATED WITH AN APPROVED VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION.

1778 SQUARE FEET OF TOTAL CRAWL SPACE /

11.85 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

KB



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P-0961

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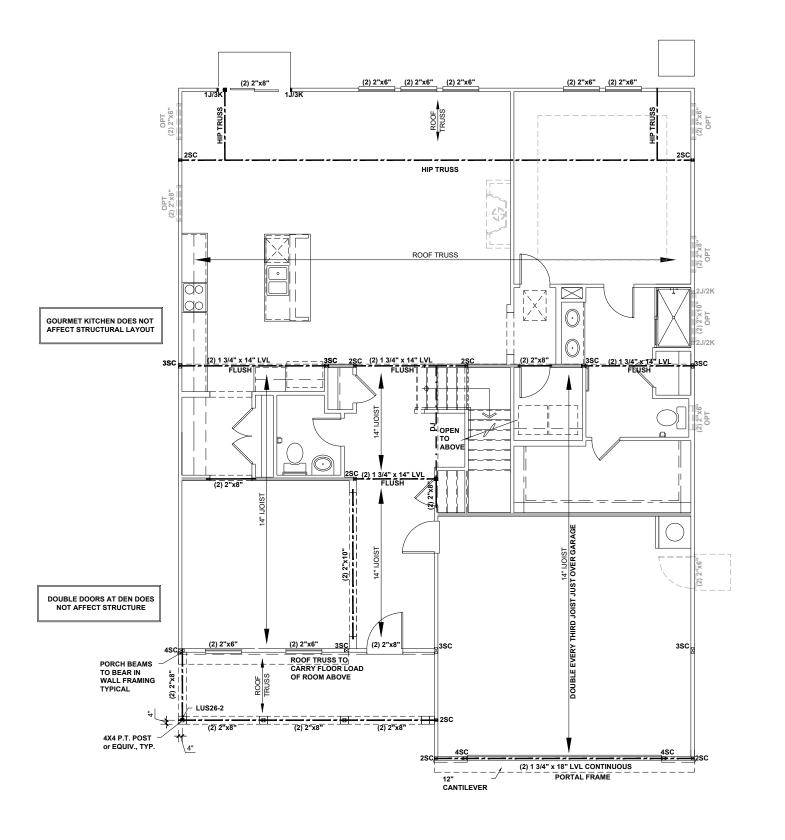
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CRAWL SPACE FOUNDATION PLAN

S.30D

CRAWLSPACE FOUNDATION PLAN - 'D'



INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

WINDOW / DOOR HEADER

 POINT LOAD TRANSFER
 ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

1. ALL FRAMING TO BE #2 SPF MINIMUM.

 ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END, UNO.

3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

. ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

8. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

PRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

 WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).

FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING, U.N.O.

ALL HANGERS TO BE LUS26-2 FOR TWO PLY SAWN LUMBER BANDS, JOISTS, HEADERS, AND BEAMS UNLESS OTHERWISE NOTED.



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P-0961

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NFO@JDSfaulkner.COM; WWW.JDSfaulkner.COM
PROJECT NO.: 20901658

DATE: 10/07/2

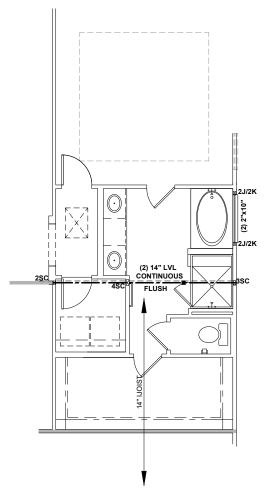
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FIRST FLOOR CEILING FRAMING PLAN

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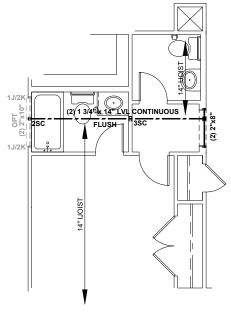
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FIRST FLOOR CEILING FRAMING PLAN - 'D'



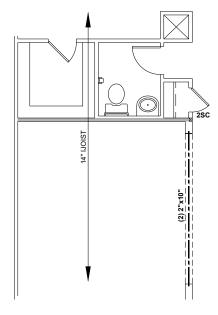
SUPER MASTER BATH

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



BEDROOM 6 W/ BATH 4

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



DEN SCALE: 1/8"=1'-0"

INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ----- DOUBLE RAFTER / DOUBLE JOIST -- STRUCTURAL BEAM / GIRDER

POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

ALL FRAMING TO BE #2 SPF MINIMUM.

ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.

EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.

STRUCTURE FOR ALL POINT LOADS.

ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

ALL EXTERIOR WALLS TO BE FULLY SHEATHED

FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).

FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

SEE FULL PLAN FOR ADDITIONAL INFORMATION

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P-0961

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243.2939

. . . . FIRST FLOOR OPTIONS

CEILING FRAMING PLANS

FIRST FLOOR OPTIONS CEILING FRAMING PLANS - 'D'

(2) 2"x6" ROOF GIRDER TRUSS (2) 2"x6" (2) 2"x6" ROOF TRUSS BY MANUFACTURER STRUCTURAL GABLE TRUSS (2) 2"x6' (2) 2"x6'

BED 5 W/ BATH 3 AND LOFT

ENLARGED BEDROOM 2 & 3 DOES NOT AFFECT STRUCTURAL LAYOUT

DOES NOT AFFECT STRUCTURAL LAYOUT

SHOWER OPTS DO NOT AFFECT STRUCTURAL LAYOUT

CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

PORCH HEADER / BAND.

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_ STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

BEAM & POINT LOAD LEGEND INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ----- DOUBLE RAFTER / DOUBLE JOIST -- STRUCTURAL BEAM / GIRDER POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.) ALL FRAMING TO BE #2 SPF MINIMUM ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN. ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J /

STRUCTURE FOR ALL POINT LOADS.

BEAM SUPPORT IS (1) 2x4 STUD.

ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM

ALL EXTERIOR WALLS TO BE FULLY SHEATHED

WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS MANUFACTURER'S SPECIFICATIONS).

FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST

FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER. 0. PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO

(1) K, UNO.



NORTH CAROLINA DIVISION

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P-0961

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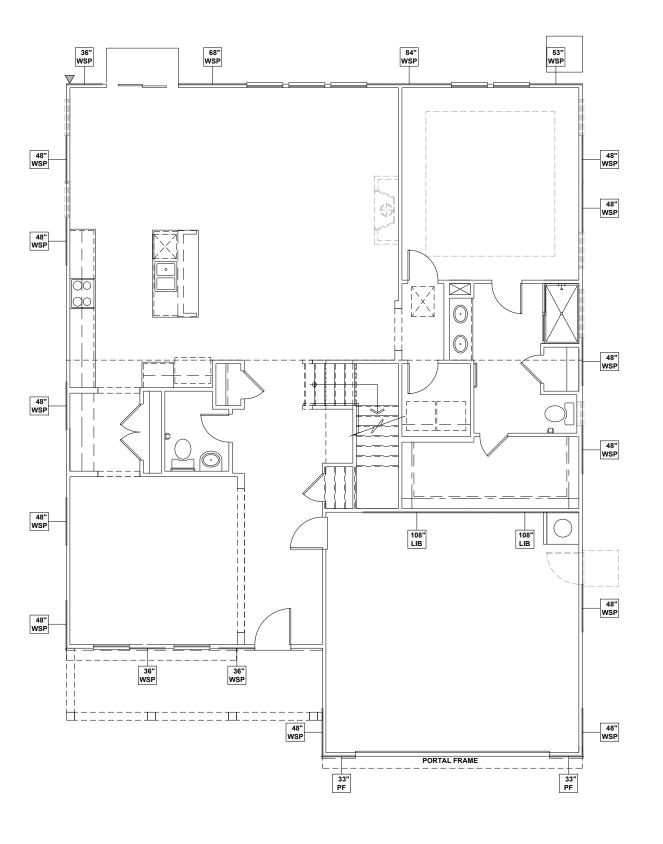


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SECOND FLOOR CEILING FRAMING PLAN

. . . .

SECOND FLOOR CEILING FRAMING PLAN - 'D'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.

- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY). - FOR ADDITIONAL WALL BRACING INFORMATION.

REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICAL
LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1						
SIDE	REQUIRED LENGTH	PROVIDED LENGTH				
FRONT	18.0 FT.	19.25 FT.				
RIGHT	23.0 FT.	24.0 FT.				
REAR	18.0 FT.	20.08 FT.				
LEFT	23.0 FT.	24.0 FT.				



KB HOME
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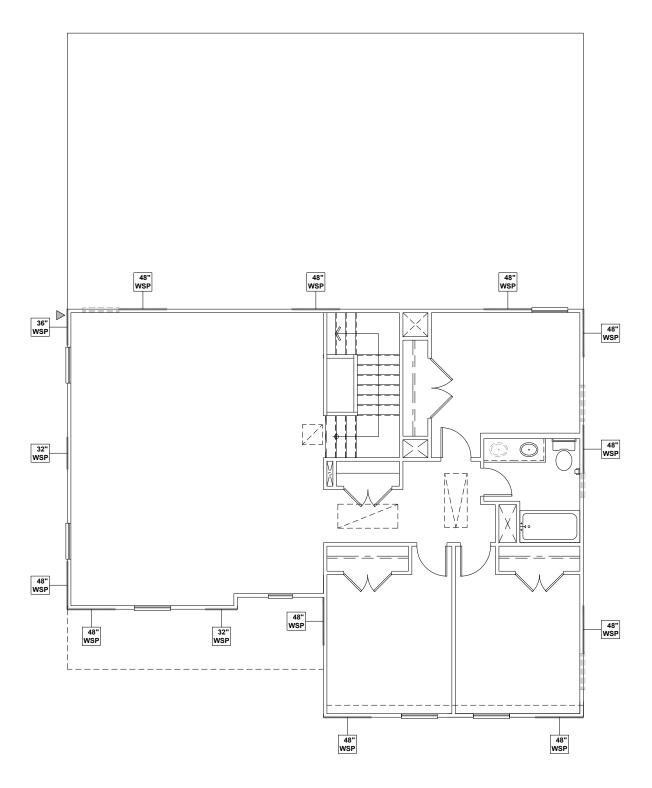
PLAN: **243.2939**

FIRST FLOOR WALL BRACING PLAN

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S4.0D

FIRST FLOOR WALL BRACING PLAN - 'D'



SECOND FLOOR WALL BRACING PLAN - 'D'

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

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"

- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
 FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). - SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE. 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 104 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICAL
LENGTH
WSP
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH REQUIRED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

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KB HOME
NORTH CAROLINA DIVISION

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P-0961

JDSfaulkner, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THIS APPROVAL OF THE EOR IS PROHIBITED.



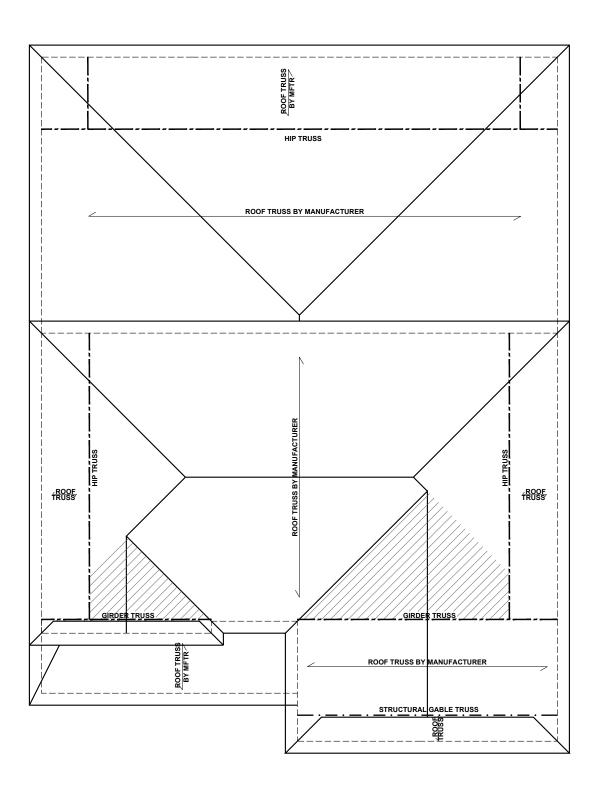
PROJECT NO.: 20901658 DATE: 10/07/2020

PLAN: **243.2939**

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SECOND FLOOR WALL BRACING PLAN

S5.0D



INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER
POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2. DENOTES OVER-FRAMED AREA

3. MINIMUM 7/16" OSB ROOF SHEATHING

4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.

PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.

7. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

2569 SQUARE FEET OF TOTAL ATTIC / 150 =

17.12 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAI

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE KB

•
Harnett COUNTY SOUTH CARROLLSA
01/26/2022

NORTH CAROLINA DIVISION

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P-0961

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PROJECT NO.:			20901038		
DATE:			10/07/2020		
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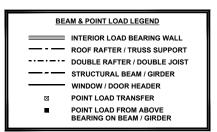
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ROOF FRAMING PLAN

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S7.0D

ROOF FRAMING PLAN - 'D'

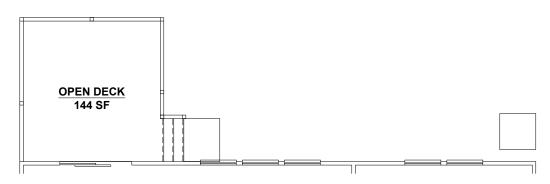


SEE FULL PLAN FOR ADDITIONAL INFORMATION

12'-0" 6'-0" 6'-0" (2) 2"x10" #2 SYP PT TYPICAL 4"X4" PT POST ON 16"x16"x8" CONC. FOOTING TYPICAL IF OVER 4" TALL USE 6"X6" PT POST ON 16"X16"X8" FOOTINGS 2"x10" PT BAND SECURED TO HOUSE W/ 5/8" THRU BOLTS @ 20" O.C. MAX.

12'x12' OPEN DECK-FDN

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



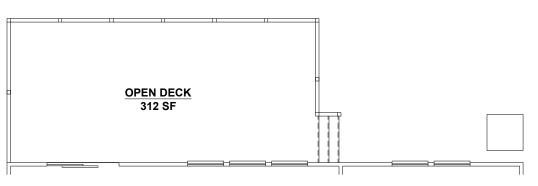
12'x12' OPEN DECK

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

43'-0" 26'-0" 8'-8" 8'-8" 8'-8" 17'-0" 8'-8" 17'-0" 8'-8" 4"X4" PT POST ON 16"x16"x8" CONC. FOOTING TYPICAL IF OVER 4' TALL USE 6"X6" PT POST ON 16"X16"X8" FOOTINGS 2"x10" PT BAND SECURED TO HOUSE W/ 5/8" THRU BOLTS @ 20" O.C. MAX.

12'x26' OPEN DECK- FDN

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

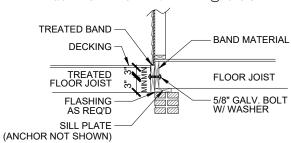


12'x26' OPEN DECK

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

(3) 12d GALV. NAILS @ 6" O.C. AND 5/8"dia. GALV. BOLTS W/ WASHER @ 20" O.C.

FOR BRICK VENEER STRUCTURES: 5/8"dia. GALV. BOLTS W/ WASHER @, 16" O.C.



- FRONT PORCH COLUMNS TO BE MIN. 4X4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- 2. REAR PORCH COLUMNS TO BE MIN. 4X4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN.) TO PORCH HEADER/BAND.

OPEN DECK

KB

Harnett Country

MASTER SET

01/08/2022

KB HOME
NORTH CAROLINA DIVISION

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DURHAM, NC 27703
TEL: (919) 768-7988
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SEAL 3 045403 10/7/20 CHARLES E.

P-0961

JDS/aulkner, PLLC HAS PERFORMED A
STRUCTURAL REVIEW OF THESE PLANS. THE
STRUCTURAL COMPONENTS COMPLY WITH THE
2018 NORTH CAROLINA RESIDENTIAL CODE FOR
ONE- AND TWO-FAMILY DWELLINGS FOR NC
PLAN REVIEW. DEVIATION OF ANY STRUCTURAL
REQUIREMENTS OF THESE PLANS WITHOUT THE
APPROVAL OF THE EOR IS PROHIBITED.



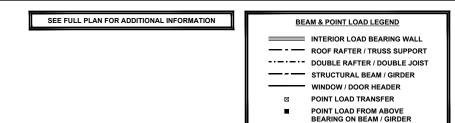
PROJECT NO.: 20901658 DATE: 10/07/2020

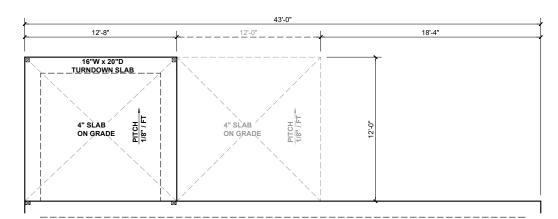
PLAN: **243.2939**

REAR OPTIONS

RO1

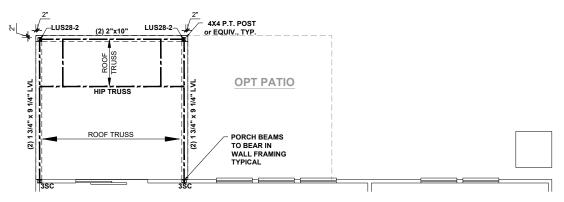
DECK ATTACHEMENT 3/4" = 1'-0"





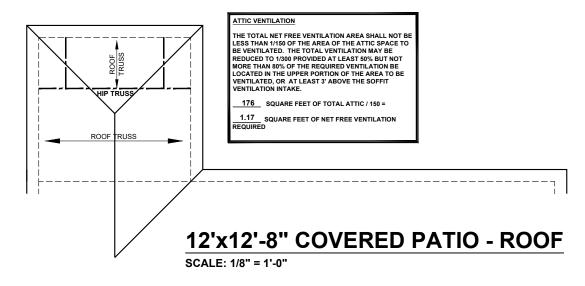
12'x12'-8" COVERED PATIO - FDN

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



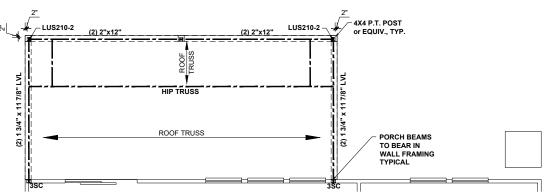
12'x12'-8" COVERED PATIO

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



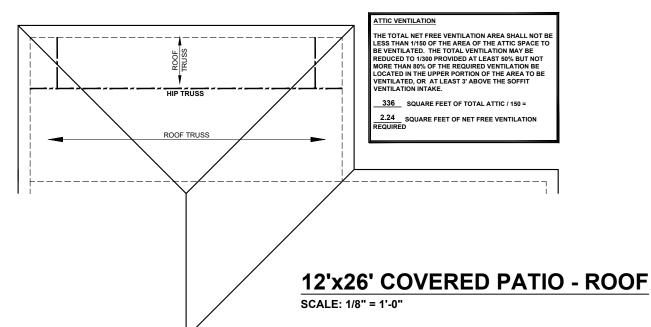
12'x26' COVERED PATIO - FDN

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



12'x26' COVERED PATIO

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



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KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

SEAL 3 045403 10/7/20 048403 10/7/20 10/7/20

P-0961

JDSfaulkner, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURE REQUIREMENTS OF THESE PLANS WITHOUT THE APPROVAL OF THE EOR IS PROHIBITED.



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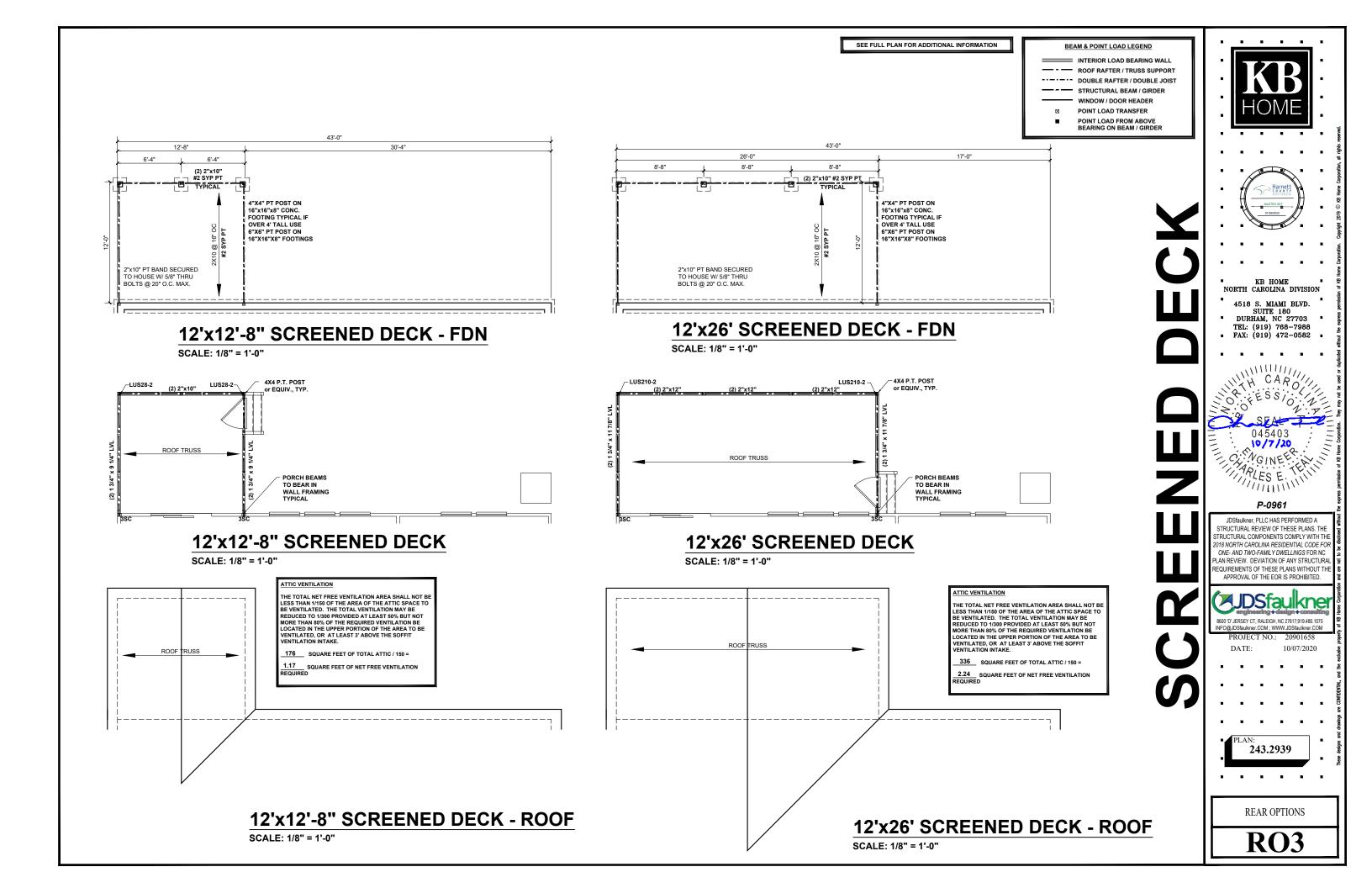
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243.2939

REAR OPTIONS

RO2



INTERIOR LOAD BEARING WALL - ROOF RAFTER / TRUSS SUPPORT ----- DOUBLE RAFTER / DOUBLE JOIST -- STRUCTURAL BEAM / GIRDER

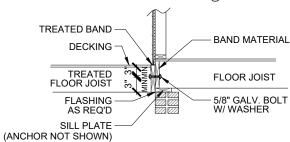
POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

- 1. FRONT PORCH COLUMNS TO BE MIN. 4X4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- 2. REAR PORCH COLUMNS TO BE MIN. 4X4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN.) TO PORCH HEADER/BAND.

(3) 12d GALV. NAILS @ 6" O.C. AND 5/8"dia. GALV. BOLTS W/ WASHER @ 20" O.C.

FOR BRICK VENEER STRUCTURES: 5/8"dia. GALV. BOLTS W/ WASHER @ 16" O.C.



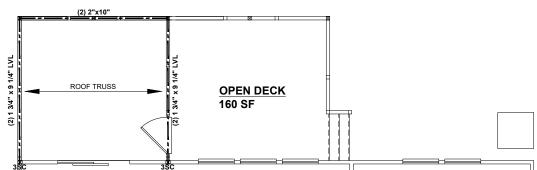
10 DECK ATTACHEMENT DTCR 3/4" = 1'-0"

6'-8" (2) 2"x10" #2 SYP PT (2) 2"x10" #2 SYP PT TYPICAL 4"X4" PT POST ON 16"x16"x8" CONC. FOOTING TYPICAL IF 16"X16"X8" FOOTINGS 2"x10" PT BAND SECURED 2"x10" PT BAND SECURED TO HOUSE W/ 5/8" THRU BOLTS @ 20" O.C. MAX. TO HOUSE W/ 5/8" THRU BOLTS @ 20" O.C. MAX. **FDN - 12'x12'-8" SCREENED**

13'-4"

DECK W/ 13' OPEN DECK

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



12'x12'-8" SCREENED **DECK W/ 13' OPEN DECK**

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

THE TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE. 176 SQUARE FEET OF TOTAL ATTIC / 150 = 1.17 SQUARE FEET OF NET FREE VENTILATION ROOF TRUSS ROOF - 12'x12'-8" SCREENED **DECK W/ 13' OPEN DECK** SCALE: 1/8" = 1'-0"



NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD. SUITE 180
DURHAM, NC 27703
TEL: (919) 768-7988 FAX: (919) 472-0582

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243.2939

REAR OPTIONS

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24" FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
 - PANELS MAY SHIFT UP TO 36" EITHER DIRECTION
- FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).

 FOR ADDITIONAL WALL BRACING INFORMATION,
- REFER TO WALL BRACING DETAIL SHEET(S).

 SCHEMATIC BELOW INDICATES HOW SIDES OF
- RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

- NUMERICAL SCALED LENGTH LENGTH OF PANEL OF WALL PANEL
AT LOCATION —

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

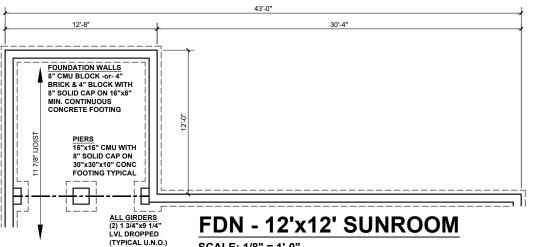
SEE FULL PLAN FOR ADDITIONAL INFORMATION

BEAM & POINT LOAD LEGEND INTERIOR LOAD BEARING WALL

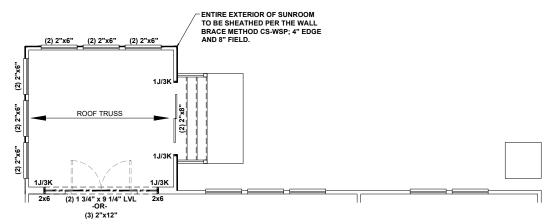
- ROOF RAFTER / TRUSS SUPPORT ---- DOUBLE RAFTER / DOUBLE JOIST -- STRUCTURAL BEAM / GIRDER WINDOW / DOOR HEADER

POINT LOAD TRANSFER

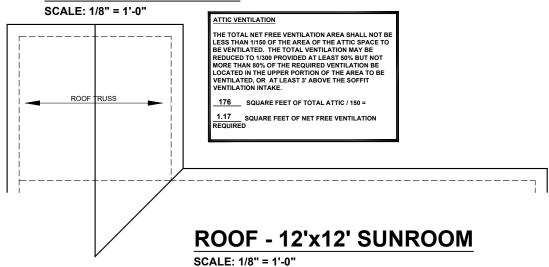
POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER



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



12'x12' SUNROOM



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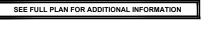
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REAR OPTIONS

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BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

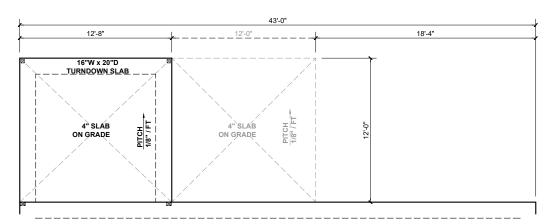
ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

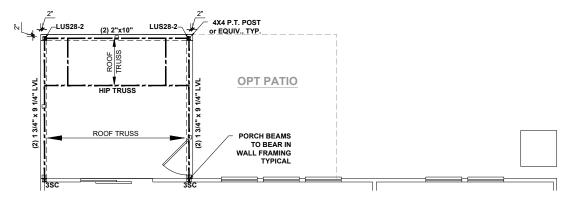
WINDOW / DOOR HEADER

 ☑ POINT LOAD TRANSFER
 ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER



12'x12'-8" SCREENED PATIO - FDN

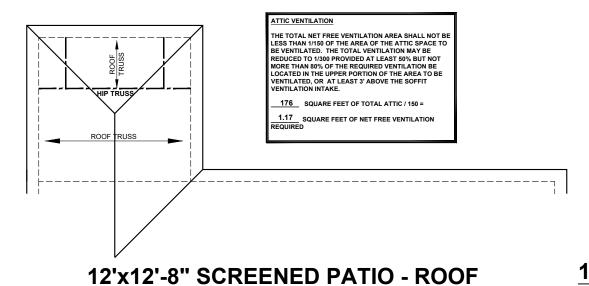
SCALE: 1/8" = 1'-0"



12'x12'-8" SCREENED PATIO

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

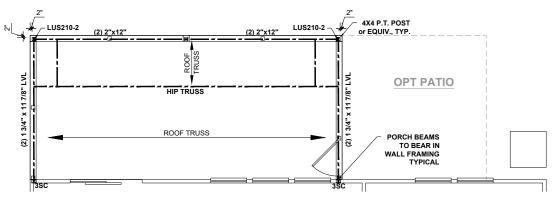
SCALE: 1/8" = 1'-0"



43'.0" 26'.0" 12'.0" 12'.0" 5'.0" 12'.0" 5'.0" 4" SLAB ON GRADE ON GRADE ON GRADE ON GRADE

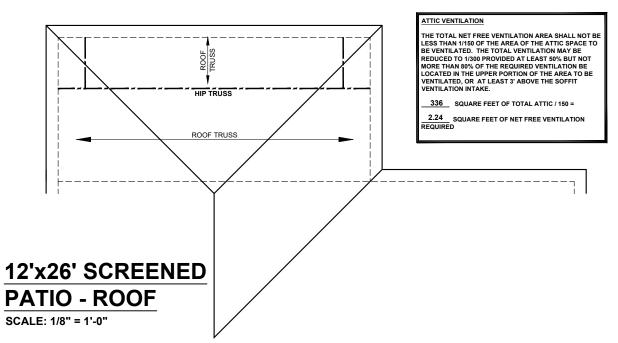
12'x26' SCREENED PATIO - FDN

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



12'x26' SCREENED PATIO

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



SCREENED PATIO

HOME ---

MASTER SET 01:06/2022

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SEAL 3 045403 10/7/20 CHAGINEE

P-0961

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DATE. 10/07/2020

PLAN: **243.2939**

REAR OPTIONS

RO6