

NORTH CAROLINA 40' SERIES PLAN 240.2596-R

LOT 7 - HIGHLAND GROVE -ELEVATION D

SHELF AND POLE

SMOKE DETECTOR

SOLID CORE

SECTION

SHEATHING

SLIDING GLASS

STANDARD

SHEET VINYL

TOP OF CURB

TOP OF PLATE

TOP OF SLAB

UNLESS NOTED OTHERWISE

VAPOR PROOF

MATER HEATER

MEATHER PROOF

TYPICAL

WASHER

MOOD

TEMPERED GLASS

SHEET

SHOWER

SIMILAR

SLIDING

THICK

SHEET INDEX

PLAN #240.2596-R

- ROOF PLAN, FRONT & REAR ELEVATIONS 'A'
- REOF FLANT, TROM IS REAR ELEVATIONS AT A RIGHT ELEVATIONS AT A CRAWL SPACE PARTIAL FIRST FLOOR PLANT FRONT S RIGHT ELEVATIONS 'A' AT CRAWL SPACE PARTIAL FRONT S RIGHT ELEVATIONS AT CONCRETE PORCH FRONT ELEVATIONS 'A' AT OPTIONAL 9"-1" PLATE HEIGHT PARTIAL RIGHT, LETT, AND FRONT ELEVATION AT W MAGONRY OPT #1 AND #2
- PARTIAL FIRST & SECOND FLOOR PLANS 'B
- PARTIAL FIRST & SECOND FLOOR PLANS B'
 ROOF PLAN, FRONT & REAR ELEVATIONS B'
 LEFT & RIGHT ELEVATIONS B'
 PARTIAL FIRST FLOOR PLAN, FRONT & RIGHT ELEVATIONS B' AT CRANL SPACE
 PARTIAL FRONT & RIGHT ELEVATIONS AT CONCRETE PORCH
 FRONT ELEVATIONS B' AT OPTIONAL 9"-I" PLATE HEIGHT
 PARTIAL FLOOR PLAN, ROOF, FRONT ELEVATION, PARTIAL RIGHT ELEVATION B'
- AT EXTENDED PORCH OPTION
 PARTIAL RIGHT, LEFT, AND FRONT ELEVATION 'B' W/ STONE

- PARTIAL FIRST & SECOND FLOOR PLANS (C'
 ROOF PLAN, FRONT & REAR ELEVATIONS (C'
 LEFT & RIGHT ELEVATIONS (C'
 PARTIAL FIRST FLOOR PLAN, FRONT & RIGHT ELEVATIONS (C' AT CRAWL SPACE
 PARTIAL FRONT & RIGHT ELEVATIONS AT CONCRETE PORCH
 FRONT ELEVATIONS (C' AT OPTIONAL 9'-1)" PLATE HEIGHT
 PARTIAL FLOOR PLAN, ROOF, FRONT ELEVATION, PARTIAL RIGHT ELEVATION (C'
 AT EXTENDED PORCH (CRITICN)

- AT EXTENDED PORCH OPTION

 AT EXTENDED PORCH OPTION

 PARTIAL RIGHT, LEFT, AND FRONT ELEVATION 'C' W' STONE OPT #1 AND #2

 PARTIAL RIGHT, LEFT, AND FRONT ELEVATION 'C' W' STONE OPT #1 AND #2

 AT EXTENDED PORCH OPTION

CONSULTANTS

OWNER :

- PARTIAL FIRST & SECOND FLOOR PLANS 'D'
 ROOF PLAN, FRONT & REAR ELEVATIONS 'D'
 LEFT & RIGHT ELEVATIONS 'D'
 ARTIAL FIRST FLOOR PLAN, FRONT & RIGHT ELEVATIONS 'D' AT CRAWL SPACE
 PARTIAL FRONT & RIGHT ELEVATIONS W OPTIONAL MASONRY AT CONCRETE PORCH
 FRONT ELEVATIONS 'D' AT OPTIONAL "L" PLATE HEIGHT
 PARTIAL RIGHT, LEFT, AND FRONT ELEVATION 'D' W STONE OPT #I AND #2

- SECTIONS SECTIONS AT CRAWL SPACE
- FIRST FLOOR UTILITY PLAN SECOND FLOOR UTILITY PLAN FIRST FLOOR UTILITY PLAN OPTIONS SECOND FLOOR UTILITY PLAN OPTIONS
- PARTIAL FLOOR PLANS, & ELEVATIONS W OPT. 12'X12' DECK AT CRANL SPACE PARTIAL FLOOR PLANS, & ELEVATIONS W OPT. 12'X24' DECK AT CRANL SPACE PARTIAL FLOOR PLANS, & ELEVATIONS W OPT. 12'X21' SCREENED-IN DECK AT CRANL SPACE
 PARTIAL FLOOR PLANS, & ELEVATIONS W OPT. 12'X24' SCREENED-IN DECK AT CRANL SPACE
 PARTIAL FLOOR PLANS, & ELEVATIONS W OPT. SUNROOM AT SLAB INTERFACE PARTIAL FLOOR PLANS, & ELEVATIONS W OPT. SUNROOM AT CRANL SPACE

- PARTIAL FLOOR PLAN ROOF & ELEVATIONS W/ OPT. COVERED PATIO
- PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. EXTENDED COVERED PATIO
 PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. EXTENDED COVERED PATIO
 PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. SCREENED-IN COVERED PATIO
 PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. SCREENED-IN EXTENDED COVERED PATIO
- ARCHITECTURAL DETAILS
- ARCHITECTURAL DETAILS ARCHITECTURAL DETAILS
- ARCHITECTURAL DETAILS ARCHITECTURAL DETAILS
- ARCHITECTURAL DETAILS

- ARCHITECTURAL DETAILS ARCHITECTURAL DETAILS

APPLICABLE CODES:

PROJECT DESCRIPTION:

2 STORY SINGLE FAMILY DETACHED RESIDENTIAL PLAN W/4 ELEVATIONS

NORTH CAROLINA 40' SERIES

HOME

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

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2018_NORTH CAROLINA STATE BUILDING CODES

PROJECT No.: 1350999:56

DIVISION MGR.:

MCP

01/26/21

2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD DIVISION REVISION NCI9017NCP- 04/01/19 CTD

N.E.C. NORTH CAROLINA ENERGY CO.

N.E.C. NATIONAL ELECTRICAL CODE

I.C.B.O. INTERNATIONAL CONFERENCE
OF BUILDING OFFICIALS

A.S.T.M. AMERICAN SOCIETY FOR
TESTING MATERIALS TESTING MATERIALS

N.F.P.A. NATIONAL FIRE PROTECTION
ASSOCIATION FRAMEWALK REVISIONS NC19033NCP- 05/07/19 - CTD

DIVISION REVISIONS NC20023NCP- 05/07/20 - KBA

240.2596-R

SHEET:

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

ER HOME NORTH CAROLINA DIVISION 4506 S. MIAMI BLVD., SUITE 180 DURHAM, NC 27708 TEL. (191) 768-7980 FAX. (419) 544-2928 BUILDING SECTION SECTION INDICATOR SHEET NUMBER DETAIL REFERENCE KB HOME 5230 PACIFIC CONCOURSE DRIVE, SUITE 330 LOS ANGELES, CA 90045 DETAIL NUMBER TEL: (424) 294-3700 FAX: (3IO) 297-267I KEYNOTE REFERENCE REFERENCE NUMBER OFFSET REFERENCE DIFFERENTIAL IN FLOOR LEVEL OR FINISH SURFACE REVISION REFERENCE REFER TO TITLE SHEET **SCALE NOTE**

F BOX IS 1/2" SQ. THEN SCALE IS 1/8" = 1'-0"

ARCH. SYMBOLS

PLAN 240.2596-R SECOND FLOOR AREA TOTAL AREA 2573 SQ FT 5Q. F PORCH AREA(S) FI EVATION 'A' ELEVATION 'B' ELEVATION 'C' 62 136 FI EVATION 'D' SQ. FT. ATIO AREA(S) 10'x26'-7" COVERED 266 SQ. FT. DECK AREA(S) OPEN 12'x24 SCREENED-IN 12'x12' SCREENED-IN 12'x24' 288 SQ. FT.

SOUARE FOOTAGE

AMERICAN NATIONAL STANDARDS A.N.S.I. OCCUPANCY: I.E.C.C. UNDERWRITERS LABORATORIES, INC. CONSTRUCTION TYPE: **REVISION LIST** DATE LOG NUMBE 08/24/18 T.S, I.I - I.5, 2.I, 2.3, 2.4, 2.5, 3.AI - 3.D6, 4.I - 5.4 NC18024NC 03/15/19 T.S. GN.I. GN.2. GN.3. I.2. 3.AI, 3.BI, 3.B2, 3.B7, 3.CI, 3.C2, 3.C6, 3.D2, 5.I 04/01/19 I.I. 2.I. 3.AI, 3.B2, 3.C2, 3.D2, 5.I NCIGOITNO 05/07/19 T5, I.I-I.5, 3.AI-3.A5, 3.BI, 3.B3, 3.B4, 3.B6, 3.B7, 3.CI-3.C8, 3.DI-3.D6 4.1. 4.2. 5.1. 5.2. 5.4. 7.5. 7.6 NCIGOSSNC O3/O4/20 TS, I.I, I.3, I.4, 3.AI, 3.A3-6, 3.B2-8, 5.3, 8.3, 8.4 NG200ITNG 05/07/20 TS, I.I, I.3, I.4 NC20023N 8 08/20/20 TS, I.I. I.S, 4.I, 5.3 CBRP20003C 9 | 12/18/20 TS, I.I 2X6 BACK WALL OF PANTRY NC21003NC OI/26/2I TS, 3.AI, 3.A2, 3.A3 POPOUT ROOF FRONT 'A' NC21003NC

CODE INFORMATION

CODE ABBREVIATIONS

N.C.-R. NORTH CAROLINA RESIDENTIAL CODE
N.C.-B. NORTH CAROLINA BUILDING CODE

N.C.-M. NORTH CAROLINA MECHANICAL CODE

N.C.-E. NORTH CAROLINA ELECTRICAL

NC-EC NORTH CAROLINA ENERGY CODE

NORTH CAROLINA PLUMBING CODE NORTH CAROLINA FUEL GAS CODE

GROUND-FAULT CIRCUIT INTERRUPTER AIR CONDITIONING 5 # P ADJ. ADJUSTABLE GALVANIZED IRON S.C. ALTERNATE S.D. GI ASS AMPERAGE GYPSUM BOARD HOLLOW CORE CENTER LINE HDR. HEADER CABINET CLG. CEIL ING SHWR HEADER HEIGHT CLR. CLEAR SIM. HORIZONTAL SLIDER CONCRETE CARPET IN LIEU OF SL. GL. INSULATION DRYER INTERIOR LAMINATED D.G. DUAL GLAZED LAV. LAVATORY THK. LUMINOUS DIAMETER DIMENSION MEDICINE CABINET TOP DISP. MANUFACTURER T.O.S. DISPOSAL DIVIDED LIGHT MINIMIJM MOUNTED U.N.O. DOOR NOT IN CONTRACT V.P. D.S. N.I.C. DOWNSPOUT NOT TO SCALE .ש.ע DISHWASHER **OVER** ON CENTER MD. FIFV FI EVATION OPTIONAL 0.S.A. OUTSIDE AIR EQUAL EXH. EXT. EXHAUST PROPERTY LINE EXTERIOR PUSH BUTTON FORCED AIR UNIT F.G./FX FIXED GLASS PLATE FUEL GAS PLYW00D FINISH PAIR P.T.D.F. PRESSURE TREATED DOUGLAS FIR

RE/S

FLR. LINE FLOOR LINE

FLUORESCENT

FOOTING

GAR. DISP. GARBAGE DISPOSAL

FRENCH DOOR

FLOOR MATERIAL CHANGE

FLUOR

FR. DR

F.M.C.

FTG

ABBREVIATIONS

RADIUS

RE-SAWN

REVERSE

ROOM

RETURN AIR GRILL REFRIGERATOR

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:
 - A. ALL LAMS, STATUTES, THE MOST RECENT BUILDING CODES, OF ALL PUBLIC AUTHORITIES, REGULATIONS, AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES HAVING JURISDICTION OVER OWNER, CONTRACTOR, ANY SUBCONTRACTOR, THE PROJECT, THE PROJECT SITE, THE WORK, OF THE PROSECUTION OF THE MORK.
 - B. THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING TO SAFETY.
 - THE FAIR HOUSING AMENDMENTS ACT, THE AMERICANS WITH DISA-BILITIES ACT, AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING THERETO.
- 3. CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION DOCUMENTS AND INFORMATION FURNISHED BY ONNER, AND SHALL PROMPTLY REPORT IN WRITHIN TO ONNERS REPRESENTATIVE ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONSTRUCTION DOCU-MENTS OR INCONSISTENCIES WITH APPLICABLE CODE REQUIREMENTS OBSERVED BY THE CONTRACTOR.
- 4. IF CONTRACTOR PERFORMS WORK WHICH HE KNOWS OR SHOULD KNOW IS CONTRARY TO APPLICABLE CODE REQUIREMENTS, WITHOUT THE AGREEMENT OF OWNER, CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH WORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, WITHOUT LIMITATION, THE COSTS OF CORRECTING DEFECTIVE WORK.
- 5. 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 WORK, ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN WRITING TO THE OWNER.
- CONTRACTOR SHALL PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IF CONTRACTOR BECOMES AWARE DURING THE PERFORMANCE OF 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 FURNISHED ARE NEW UNLESS NOTED OTHERWISE AND ALL WORK WILL BE OF GOOD QUALITY AND FREE FROM FAULTS AND DEFECTS.
- 4. SUB-CONTRACTORS SHALL INSURE THAT ALL MORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMASED BY SUB-CONTRACTOR'S PERFORMANCE. SUB-CONTRACTOR'S AND SUPPLIERS ARE HEREBY NOTHERD THAT THEY ARE TO CONFER AND COOPERATE FULLY MITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUB-CONTRACTOR WORKMANSHIP SHALL BE OF GUALITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMANSHIP AT ANY TIME, AND CORRECTIONS NEEDED TO ENHANCE THE GUALITY OF BUILDING MILE BE DONE INMEDIATELY. EACH SUBCONTRACTOR, UNLESS SPECIFICALLY EXPMPTED BY THE TERMS OF HIS/HERS SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LETT BY OTHER SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LETT BY OTHER SUB-CONTRACT OR DUILDER MILL DETERMINE HOW SOON AFTER SUB-CONTRACT OR COMPLETES EACH PHASE OF HIS MORK. THAT TRASH AND DEBRIS BE REMOVED FROM THE SITE.
- O. APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLOMABLE FAILURE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION OR CLARIFICATION.
- II. 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.
- 2. 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.
- IB. 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 CONSTRUED AS BEING THE COMPLETED OF 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.
- 16. 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 DRAWNINGS FOR PITS, TRENCHES, ROOF OPENINGS, DEPRESSIONS, ETC. MORS SEVENING NO. 1918-1918, 2008. MINISTERS, PARAMINES.
- 18. THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE USED ON OTHER WORK.

SITE WORK

- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSFOOLS, 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 IMPEDIATELY.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES.
- REFER TO THE SOILS REPORT AS PREPARED BY THE GEOTECHNICAL ENGINEER.
- 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 MIDTH,
 LENGTH, AND DEPTH REQUIRED AND FINISHED MITH LEVEL BOTTOMS.
- 8. 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.
- II. ALL FINISH GRADES TO DRAIN AWAY FROM THE BUILDING FOOTINGS.
- 12. THERE SHALL BE NO ON-SITE WATER RETENTION.
- 13. THERE SHALL BE NO DRAINAGE TO ADJACENT PROPERTY.
- FOR ONSITE CONTSRUCTION, PLANS TO COMPLY WITH NECESSARY INSPECTIONS APPROVED BY THE BUILDING OFFICIAL.
- 15. 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 SATISPY THE DURABILITY CRITERIA OF THE N.C.-R
- MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE MITH ACI 3IB. SECTION 5.8.
- 4. THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI 318, 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 EMBEDDED 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
- IO. TOP OF CONCRETE SLABS TO BE A MINIMUM 4" W MASONRY VENEER 6" ELSEWHERE (8" H.J.D.) ABOVE FINISH GRADE.
- II. FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEIDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- 12. ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS, SLEEVES, BOLTS OR OTHER BYHEDDED MATERIALS AND ITEMS MUST BE SECURED AND APPROPRIATELY FASTENED IN THEIR PROPER LOCATIONS PRIOR TO THE PLACEMENT OF CONCRETE. SUBJCONTRACTOR SHALL VERIFY INSTALLATION OF HOLD-DOWNS, ANCHOR BOLTS, PA STRAPS, AND OTHER ANCHORAGE MATERIAL AND ITEMS PRIOR TO PLACEMENT OF CONCRETE.
- 3. POST-TENSION SLABS, IF APPLICABLE
 - POINT AND LINE LOADS FROM STRUCTURE ABOVE TO BE PROVIDED TO POST-TENSION ENGINEER PRIOR TO POST-TENSION DESIGN.
- B. 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 ACI 530/ASCE 57716 402.
- STONE VENEER UNITS NOT EXCEEDING 5 INCHES IN THICKNESS SHALL BE ANCHORED DIRECTLY TO MASONRY, CONCRETE OR TO STUD CONSTRUCTION BY ONE OF THE APPROVED METHODS LISTED IN THE N.C.-R.
- 4. MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY MITH ASTM C 270, THE TYPE OF MORTAR SHALL BE IN ACCORDANCE MITH THE N.C.-R AND SHALL MEET THE PROPORTION SPECIFICATIONS OR THE PROPERTY SPECIFICATIONS OF ASTM C 270
- GROUT SHALL CONSIST OF FIBER CEMENT MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C 416 AND THE PROPORTION SPECIFICATIONS PER THE N.C.-R
- AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK CONFORMING TO A.S.T.M. C-144-04 (MASONRY MORTAR) AND C-404-071 (GROUT).
- 7. 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 IN A RUNNING BOND PATTERN.
- 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.
- 2. 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 NUTS, BUT SHALL NOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS
- 4. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED SALVANIZED STEEL, STAINLES STEEL, SILICAN BROATE OR COPPER, VERIPY ACCEPTABLE FASTENERS PER CHEMICALS USED IN PRESSURE PRESERVITIVELY TREATED WOOD M N.C.-R. FASTENINGS FOR MOOD FOUNDATIONS SHALL BE AS REQUIRED IN APAPA TECHNICAL REPORT NO. T.

WOOD & FRAMING

LUMBER

- THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME WOOD 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 RSO2J.
- 9. 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 NO.-R AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUINS SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF THE PRODUCT AND THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARD COMMITTEE TREATED WOOD PROGRAM.
- 5. 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 NC-R 2.
 THE FOLLOWING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY
 DURABLE MOOD 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 AMPA UI
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN 18 INCHES, OR WOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRANL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN 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 SEPARATE 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.
- WOOD SIDING AND SHEATHING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND.
- . MOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOPS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, INLESS SEPARATED FROM SUCH FLOORS OR ROOPS BY ANIMPERVIOUS MOISTURE BARRIER.
- 7. WOOD FURRING STRIPS OR OTHER WOOD 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 S. STRIPS OR FRAMING MEMBERS.
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POSTS, GUARDRAILS, PICKETS, STEPS AND FLOOR STRUCTURE. COYERINGS THAT MOULD PREVENT MOISTURE OR WATER ACCUMILATION ON THE SURFACE OR AT JOINTS BETWEEN IMPMERS 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

MOOD \$ FRAMING (continued)

SHEATHING

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE N.C.-R
- 2. 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 PLYMOOD 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 PLYWOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE.
- I. IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING HARD BOARD OR ALUMINUM 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 WOOD SHEATHING OR 5/8 INCH SYPSUM 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 10 FEET OR MORE FROM THE BUILDING 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
- 5. TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.S. 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

- I. THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE
- 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 IN TOP PLATES SHALL BE STUDS, PLATES SHALL BE NOT OCCUR OVER STUDS, PLATES SHALL BE NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND HAVE 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 MEMBERS 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.
- 7. INTERIOR NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED MITH 2-INCH-BY-3-INCH STUDS SPACED 24 INCHES ON CENTER OR, WHEN NOT A PART OF A BRACED MALL LINE, 2-INCH-BY-4-STUDD SPACED 16 INCHES ON CENTER. INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE. INTERIOR NONBEARING WALSHALL BE FIREBLOCKED IN ACCORDANCE WITH THE NC-R.

MOOD \$ FRAMING (continued)

- 8. DRILLING AND NOTHCING OF STUDS SHALL BE IN ACCORDANCE WITH THE
 - I. NOTHCING, ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH, STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD WIDTH. 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.
 - 2. 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 WIDTH, THE EDGE OF THE HOLE IS NO MORE THAN 50'S 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 9.4 INCH DIAMETER CAN BE AS CLOSE AS I 1/2 INCHES ON CENTER SPACING, STUD9 LOCATED IN EXTERIOR PIALLS OR BEARING PARTITIONS DRILLED OVER 40 PERCENT AND UP TO 60 PERCENT SHALL ALSO BE DOUBLED WITH NO MORE THAN TWO SUCCESSIVE DOUBLED STUD9 BORED.
 - S. CUTTING AND NOTCHING OF STUDS SHALL BE PERMITTED TO BE INCREASED TO 65 PERCENT OF THE WIDTH 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 REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL, PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO CEILING AND AT LEAST ONE STUD FURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.

 (b) 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 FURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- I. WHEN PIPING OR DUCTHORK IS PLACED IN OR PARTIALY IN AN EXTERIOR OR INTERIOR LOAD-BEARING WALL, NECESSITATION CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE B MORE THAN 50 PERCENT OF ITS WIDTH A GALYANIZED METAL TIE OF NOT LESS THAN 0.054 INCH THICK AND II/2" INCHES MIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT IOD NAILS HAVING A MINIMM LENGTH OF II/2 INCHES (38 MIN) AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND A MINIMM OF 6 INCHES PAST THE OPENING.
- IO. HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-R.
- II. PROVIDE LATERAL BRACING PER THE N.C.-R
- 13. FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- IS. WILESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMAM REQUIREMENTS OF THIS CODE, ALL STUD PARTITIONS OR NALLS WITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS RATIO EXCEEDING SO SHALL HAVE BRIDGING NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FITTED SNUGLY 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 PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE LOCATIONS SPECIFIED IN THE N.C.-R
- 2. 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 PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD, I/2-INCH GYPSOM BOARD, OR I/4-INCH CEMENT-BASED
- BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIRE BLOCK.
- 4. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10 FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROYS OF STUDS OR STAGGERED STUDS, LOOSE FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE IT'S ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.
- 5. 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 JODO SQUARE FIET, DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY 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;
- I. 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 ARE REQUIRED.



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NORTH CAROLINA 40' SERIES

NORTH CAROLINA DIVISION
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2018 NORTH
CAROLINA STATE
BUILDING
CODES

ISSUE DATE: 06/02/15
PROJECT No.: 1350999:56

MCP

REVISIONS: 05/07/19

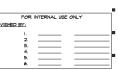
| DIVISION REVISIONS | NCI8024NCP - 08/24/18 - CTD | NCI8024NCP - 08/24/18 - CTD | OR CODE UPDATE | NCI9015NCP - 03/15/19 / CTD | OR CODE | OR COD

DIVISION MGR.:

DIVISION REVISION
NCIPOTINGP. 04/01/19 CTD

FRAMEWALK REVISIONS
NCIPO33NCP- 05/07/19 - CTD

DIVISION REVISIONS
NC20012NCP- 01/29/20 · KBA





spec. level 1
RALEIGH-DURHAM
40' SERIES

THERMAL & MOISTURE PROTECTION

- PROVIDE ALL FLASHING, COUNTER-FLASHING, BITUTHENE, MEMBRANE WATERPROOFING, SHEET METAL, CAULKING, SEALANTS, ELASTOMERIC WALKING SURFACES, AND RAIN GUITERS 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 PER 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-FLOWS 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 ALL DAMPPROOFED IN ACCORDANCE WITH THE N.C.-R.
- PARAPET WALLS SHALL BE PROPERLY COPED WITH NONCOMBUSTIBLE. PACATHERPROOF MATERIALS OF A MIDTH NO LESS THAN THE THICKNESS OF THE PARAPET WALL. PARAPET COPING SHALL EXTEND 2" MINIMUM DOWN THE FACES OF THE PARAPET

FLASHING

- APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANIER TO PREVENT ENTRY OF MATER INTO THE MALL IZ. CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS, SELF-ADHRED DEMORRANES USED AS FLASHING IN COMPLY WITH AAMA TII. FLUID-APPLIED MEMBRANES USED AS FLASHING IN IS. EXTERIOR WALLS SHALL COMPLY WITH AAMA TII. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. ALLMINUM FLASHING SHALL ON THE SURFACE OF THE EXTERIOR WALL FINISH. ALLMINUM FLASHING SHALL DETERMINED TO THE SURFACE OF THE EXTERIOR WALL FINISH. ALLMINUM FLASHING SHALL DETERMINED TO THE SURFACE OF THE EXTERIOR WALL FINISH. ALLMINUM FLASHING SHALL DETERMINED TO THE SURFACE OF THE EXTERIOR WALL FINISH. ALLMINUM FLASHING SHALL DETERMINED TO THE SURFACE OF THE STRUCTURE OF 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-IO27, 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.O.I9-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED
- ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE ARCHITECTURAL SHEET METAL ANNUAL, AND SEALANT, WATERPROOFING AND RESTORATION INSTITUTE'S (SWR.I.) GUIDE -SEALANT'S: THE PROFESSIONAL'S GUIDE".
- SHEET METAL SHALL BE STEEL SHEET, HOT-DIPPED, TIGHT COATED AND GALVANIZED, CONFORMING TO A.S.T.M. A525 AND SHALL BE A NUMBER 24 SHEET METAL GAGE INLESS OTHERNISE 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 WITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALUMINUM 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 SOURABLE 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 CHIMMEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. VIDE FLASHING 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 REQUIREME OF THE N.C.-R
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4664, TYPE I, OR ASTM D 6757. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1470
- ASPHALT SHINGLES SHALL COMPLY WITH ASTM D 225 OR ASTM D 3462.
- FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS STEEL, ALIMINUM, OR COPPER ROOFING NAILS, MINIMUM I2 GASE SHANK NITH A MINIMUM 38 INCH DIANETER HEAD, ASTM F 1667, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM OF 34 INCH INTO THE ROOF SHEATHING, WHERE THE ROOF SHEATHING IS LESS THAN 3/4 INCH THICK, THE FASTENERS SHALL COMPLY WITH ASTM F 1667.
- 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.
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL BE APPLIED IN ACCOR-DANCE 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.
- CONCRETE AND CLAY TILE SHALL BE INSTALLED ONLY OVER SOLID SHEATHING OR SPACED STRUCTURAL SHEATHING BOARDS
- CLAY AND CONCRETE ROOF TILE SHALL BE INSTALLED ON ROOF 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, SIGLINGH HEAD, AND OF SUFFICIENT LENGTH TO PENETRATE THE DECK A MINIMM OF 34-INCH OR THROUGH THE THICKNESS OF THE DECK HICKNESS IS LESS. ATTACHING MIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SHALLER THAN O.083-INCH. PERIMETER FASTENING AREAS INCLIDE THREE TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- 17. 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, INDERLAYMENT 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 WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLIDE FLASHING, THE EXTERIOR WALL ENVELOPE SHA BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMILATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THE ASSEMBLY TO THE EXTERIOR. PROTECTION ASAINST 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 AND 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 FIBER CEMENT SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R. AND COMPLYING WITH ASTM D SATE 914ALL BE PERMITTED ON EXTERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED SPECIFIED DOES NOT EXCEED ICO MILES PER HOUR AND THE BUILDINGS HEIGHT IS LESS THAN 40 FIET IN EXPOSURE C. MHERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS ISO MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 FT. DATA INDICATING COMPLIANCE MIST BE SUBMITTED. FIBER CEMENT SIDIN SHALL BE SECURED TO BUILDING HE OF 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 REQUIREMENTS OF THE N.C.-B
- 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 CIIB6, TYPE A, MINIMUM GRADE III. LAP SIDING SHALL BE LAPPED A MINIMUM OF III/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONGUE-AND-AROOVE END JOINTS SHALL HAVE THE ENDS SEALED WITH CAULKING, INSTALLED WITH AN H-SECTION JOINT COVER, LOCATED OVER A STRUP 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-PERNIEABLE MEDRANES, INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, RALL-ASSEMBLIES, CRANL SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 28 WITH AN ACCOMPANYING SMOKEDEVELOPED INDEX NOT TO EXCEED 28 WHEN TRESTED IN A SAME
- DUCT INSULATION MATERIALS SHALL CONFORM TO THE FOLLOWING
- 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 CFR. PARTS 1209 AND 1404. EACH PACKAGE OF SUCH INSULATIN MATERIAL SHALL BE CLEARLY LABELED IN ACCORDANCE WITH CPSC 16 CFR, PARTS 1209 AND 1404.
- INSULATION IN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES OR ATTICS SHALL BE EITHER OF THE BLONN-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 ADDPTED STATE AND LOCAL ENERGY CODE EQUIREMENTS. REFER TO MECHANICAL PLANS FOR SPECIFICATIONS.
- THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED MITH AN AIR BARRIER SYSTEM TO LIMIT INFILTRATION THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS INFILTRATION FOR DIFFERENTIAL EXPANSION AND CONTRACTION, FOR ALL HOMES, WHERE PRESENT THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED MITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT MITH APPENDIX E-2.3 AND E-2.4 OF THE NC-R; MICH SYSTEMS AND UNDER 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 SUBSEQUENT 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 WINDOWS 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 I 3/6 INCHES THAN I 3/6 INCHES THAN I 3/6 INCHES THICK, OR 20-MINITE FIRE-RATED DOORS.
- NO DOUBLE FRENCH DOORS SHALL BE USED UNLESS THERE IS A SUFFICIENT OVERHANG OR COVERED PATIO COVERING THESE DOORS. NO DOUBLE MOOD FRENCH DOORS SHALL BE USED IN
- PROVIDE SECURITY HARDWARE FOR ALL DOORS AND WINDOWS IANCE 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. E288-73 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 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 MINDOM WELL

DOORS & WINDOWS (continued)

- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUNET 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.
- _ EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM CLEAR 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 WITHOUT THE USE OF KEYS, TOOLS OF 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 WITH A VERTICAL DEPTH GREATER THAN 44 INCHES SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE WITH THE WINDOW 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 RESCUE 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 GREATER 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 & 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 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 WHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERAWIC-FIRED, LASER ETCHED, EMBOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT 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

 SLAXING IN AN INDIVIDUAL PIXED 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
- 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 SWIMMING POOLS, HOT TUBS AND SPAS WHERE 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 LL 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 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 180 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 CONSERVATION CODE.
- LOCATED MORE THAN 72 INCHES (1829 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE NINDOM 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 OPENINGS THAT ALLOW 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 SYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 41%, C 94, C 1002, C 1041, C 1171, C 111%, C 1218, C 1946, OR C 1658 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R ADHESIVES FOR THE INSTALLATION OF GYPSUM BOARD SHALL CONFORM TO ASTM C 551.
- GYPSUM BOARD MATERIALS SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN THE NC.-R WHERE REQUIRED FOR FIRE PROTECTION, CONFORM TO THE NC.-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 FRANING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRANING 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.
- FASTENERS AT THE TOP AND BOTTOM PLATES OF VERTICAL ASSEMBLIES, FASTENERS AT THE TOP AND BOTTOM PLATES OF VERTICAL ASSEMBLIES, OR THE EDGES AND ENDS OF HORIZONTAL ASSEMBLIES PERFENDICULAR TO SUPPORTS, AND AT THE WALL LINE MAY BE OMITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE- RESISTIVE ASSEMBLIES, FASTENERS ALL 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.
- MATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY
- 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-
- 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 SECURELY FASTENED PER THE N.C.-R. OR NITH OTHER APPROVED ALUMINUM, 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 TREATER DY NOD OR DECAY-RESISTANT WOOD OR SYPSUM BACKINS, IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING MATERIAL OR IS COMPLETELY CONCEALED, 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

- 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 LIME 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 I (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



HOME

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NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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2018 NORTH CAROLINA STATE BUILDING CODES

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FOR INTERNAL USE ONL'

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MECHANICAL & PLUMBING

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE NITH THE NORTH CAROLINA RESIDENTIAL AND MECHANICAL CODE. INSTALLATIONS OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL GAS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERIN MATERIALS OR EQUIPMENT.
- WHERE AIR CONDITIONING IS AN OPTIONAL FEATURE, HEATING SYSTEMS MUST BE DESIGNED AND DUCT WORK SIZED TO ACCOMMODATE FUTURE AIR CONDITIONING NEEDS.
- WHERE 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 DAILY 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 (19 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 CELLINGS 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
- 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.
- CRAWL SPACE SUPPORTS. IN A CRAWL SPACE, A MINIMUM OF 2-INCH THICK SOLID BASE, 2-HOH (SI MM) THICK FORMED CONCRETE, OR STACKED MASONRY UNITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD. THE MATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2
- 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 LIEU OF REQUIRED EXTENSION OPENINGS FOR NATURAL VENTILATION IN BATHROOMS CONTAINING A BATHROOM FOR OR COMBINATION THEREOF, A MECHANICAL VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMAY VENTILATION RATES SHALL BE 50 CPM FOR INTERMITTENT VENTILATION OR 20 CPM FOR CONTINUOUS VENTILATION. VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE FER NO.—TR
- 2. EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS.
- RANGE HOODS SHALL DISCHARGE TO THE OUTDOORS THROUGH A DICT. THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE, SHALL BE AR 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, STAINLESG STEEL OR CARBOE
- MHERE 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
- DUCTS FOR DOMESTIC KITCHEN COOKING APPLIANCES EQUIPPED MITH DOWN DRAFT EXHAUST SYSTEMS SHALL BE PERMITTED TO BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE PROVIDED THAT THINSTALLATION COMPLIES WITH ALL OF THE FOLLOWING PER N.C.—M
- THE DUCT SHALL BE INSTALLED UNDER A CONCRETE SLAB POURED ON GRADE.
- THE UNDERFLOOR TRENCH IN WHICH THE DUCT IS INSTALLED SHALL BE COMPLETELY BACKFILLED WITH SAND OR GRAVEL.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE THE INDOOR CONCRETE FLOOR SURFACE.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE GRADE OUTSIDE THE BUILDING.
- THE PVC DUCTS SHALL BE SOLVENT CEMENTED.
- EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CPM SHALL BE PROVIDED WITH 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 WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEOUSLY WITH THE EXHAUST SYSTEM. DAMPERS SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT 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

- A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED CONTAMINATION FROM NONPOTABLE LIQUIDS, SOLIDS OR GASES BEING INTRODUCED INTO THE POTABLE MATER SUPPLY THROUGH CROSS-CONNECTIONS OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM. BACKFLOW PRE- VENTER APPLICATIONS SHALL CONFORM TO
- 2. 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 All2.18.1.

MECHANICAL & PLUMBING (continued)

- 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 A12.16.1 IN ADDITION TO THE REQUIREMENTS IN N.C.-P
- THE INSTALL ATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE THE INSTALLATION OF A MATER SERVICE OR MATER DISTRIBUTION PIPE SHALL BE PROHIBITED IN SOIL AND SEROUND MATER THAT IS CONTAMINATED. SROUND WATER CONDITIONS SHALL BE REQUIRED TO ACCERTAIN THE ACCEPTABILITY OF THE MATER SERVICE OR MATER DISTRIBUTION PIPING MATERIAL FOR THE SPECIFIC INSTALLATION. WHERE DETRIMENTAL CONDITIONS EXIST, APPROVED ALTERNATIVE MATERIALS OR ROJING SHALL BE REQUIRED.
- MATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PILMBING. ALL MATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF IOO PSI AT 180 DEGREES F.
- 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
- PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM
- 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 WITHIN BUILDING COMPONENTS.
- MATER PIPES INSTALLED IN A MALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE MALL INSULATION, IN OTHER CASES, MATER, SOIL, AND PASTE PIPES SHALL NOT DE INSTALLED OUTSIDE OF A BUILDING, IN INCONDITIONED ATTICS, INCONDITIONED UTILLITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING TEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MINIMAM OF R-65 INSULATION DETERMINED AT 15 DEG. F IN ACCORDANCE WITH ASTM CITY OF HEAT OR BOTH OR BOTH.

 EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT
 LESS THAN 6 INCHES BELOW THE FROST LINE AND NOT LESS
 THAN 12 INCHES BELOW GRADE.
- BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS
- 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
- WHERE WASTE 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.
- CLEANOUTS ON BUILDING SEWERS SHALL BE LOCATED AS SET FORTH IN
- THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH N.C.-R.
- INDIVIDUAL SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED MITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERMOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/THERMOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSET [OIG/ ASPE AILZ]. [OIG/SA BIZS]. 6, AND SHALL E INSTALLED AND ADJISTED PER MANUFACTURE'S INSTRUCTIONS.
- GAS AND ELECTRIC WATER HEATERS HAVING AN IGNITION SOURCE SHALL ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 10 INC ABOVE THE GARAGE FLOOR. REFER TO N.C.-R FOR EXCEPTION.
- MATER 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 AS BEDROOM OR BATHROOM, HOWEVER, WATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PLUMBING OFFICIAL, PROVIDED THEY ARE VENTED AND SUPPLIED WITH ADEQUATE COMBUSTION AIR.
- IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, WATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIND AND IN THE LOWER ONE-THIRD OF THE APPLIANCE TO RESIST A HORIZONTAL FORCE EQUAL TO ONE-THIRD OF THE OPERATING PIEIGHT OF THE WATER HEATER, ACTING IN ANY HORIZONTAL DIRECTION, OR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S RECOMMENDATIONS.
- 22. APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PROTECTED FROM IMPACT BY A MOVING VEHICLE.
- 23. WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN: WHERE MATER HEATERS OR HOT MATER STORAGE TAMES ARE INSTALLED IN.
 REMOTE LOCATIONS SUCH AS SUSPENDED CEILING, ATTICS, ABOVE OCCUPIED
 SPACES, OR UNVENTILATED CRANL 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 STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- WHERE CLOTHES WASHING MACHINES ARE LOCATED ON WOOD FRAMED FLOORS WHERE LEAKAGE WOULD CAUSE DAMAGE, A GALVANIZED STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE SHALL BE PROVIDED

MECHANICAL & PLUMBING (continued)

- APPLIANCES AND EQUIPMENT USED FOR HEATING WATER OR STORING HOT WATER SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND A SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION PRESSURE-AND-TEMPERATURE RELIEF VALVE, RELIEF VALVE SHALL HAVE A MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND SHALL CONFORM TO ANSI 221.22. THE RELIEF VALVE SHALL NOT BE USED AS A MEANS OF CONTROLLING THERMAL EXPANSION.
- THE WATER SUPPLY TO A DISHMASHER SHALL BE PROTECTED AGAINST BACKFLON 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.
- 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 1/2 INCHES (36 MM) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE WIDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE WIDERSIDE OF THE COUNTER AND SHALL BE SECURELY CONNECTING TO THE WIDERSIDE 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.

- 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 U. 127.
- 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 SO INSTALLED THAT, WHEN COMPLETED, THE SYSTEM WILL BE FREE FROM SHORT CIRCUITS AND FROM GROUNDS OTHER THAN AS REQUIRED OR PERMITTED IN N.E.C. ARTICLE 250.
- ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORK-
- ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES THE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.
 THE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.
 THE GROUND-FAULT CIRCUIT-INTERRUPTER SHALL BE INSTALLED IN A
 READILY ACCESSIBLE LOCATION.
 - A. BATHROOMS.
 - B. GARAGES AND ALSO ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELOW GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE.

 - CRAML SPACES. WHERE THE CRAML SPACE IS AT OR BELOW GRADE LEVEL.
- UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS.
- KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE
- SINKS, WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK.
- BATHTUBS OR SHOWER STALLS WHERE RECEPTACLES ARE INSTALLED MITHIN 6° OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL.
- DISHWASHER GFCI PROTECTION IS NOT REQUIRED FOR OUTLETS THAT SUPPLY DISHWASHERS INSTALLED IN DWELLING UNIT
- CRAML SPACE LIGHTING OUTLETS, GFCI PROTECTION SHALL BE PROVIDED FOR LIGHTING OUTLETS NOT EXCEEDING 120 VOLTS INSTALLED IN CRAML SPACES.
- APPLIANCE RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFIC APPLIANCES, SUCH AS LANDRY 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, SUNROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE 2 FEET OR MORE IN WIDTH (INCLUDING SPACE WALL SPACE 2 FEET OR MORE IN WIDTH (INCLUDING SPACE MEASURED AROUND CORNERS) AND UNBROKEN ALONS THE FLOOR LINE BY DOORWAYS AND SIMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PAINELS IN EXTERIOR WALLS, BUT EXCLUDING SLIDING PANELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BARSTYPE COUNTERS OR RAILINGS, SHALL BE INCLUDED IN THE 6 FOOT MEASUREMENT.
- 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 COUNTERTOP OUTLETS, AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT. THE TWO OF MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS
- 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
- (I) A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE 12 INCHES OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONS THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE.

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.
- AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH PENINSULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER. AT DAY SHORT DIMENSION OF 12 INCHES OR GREATER. A PENINSULAR COUNTERTOP IS MEASURED FROM CONNECTING PERPENDICULAR WALL.
- COUNTERTOP SPACES SEPARATED BY RANGE TOPS, REFRIGERATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTERTOP SPACES IN APPLYING THE REQUIREMENTS 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 IS NOTHE.
 IT WILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO
 THE GENERAL COUNTERTOP SPACE FACE. 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 READILLY ACCESSIBLE BY APPLIANCE FASTENED IN PLACE, APPLIANCE GARAGES, SINKS, OR RANGETOPS AS COVERED IN 4) ABOVE, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS THESE REQUIRED OUTLETS.
- 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 COUNTERTOR
- 12. IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT.
- IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE WITH ELECTRIC POWER, THE BRANCH CIRCUIT SUPPLYING THI RECEPTACLE(S) SHALL NOT SUPPLY OUTLETS OUTSIDE OF THE GARAGE. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN EACH VEHICLE BAY.
- 14. CABLE- OR RACEWAY-TYPE WIRING METHODS INSTALLED IN A GROOVE. TO BE COVERED BY MALLBOARD, SIDING, PANELING, CARPETING, OR SIMILAR FINISH, SHALL BE PROTECTED Y 1/16 INCH THICK STEEL PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN 1-1/4 INCH FREE SPACE FOR THE FULL LENGTH OF THE GROOVE IN WHICH THE CABLE OR RACEWAY
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.
 - A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM WEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS WEATHER-ROOF WHEN THE RECEPTACLE IS COVERED (ATTACHENT PLUS CAP NOT INSERTED AND RECEPTACLE COVERS CLOSED.)
 - ALL 15- AND 20- AMPERE, 125- AND 250-VOLT RECEPTACLES
 INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS
 WEATHER PROOF WHETHER OR NOT THE ATTACHMENT PLIGS 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.
- LIGHT FIXTURES WITHIN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C.
- ALL 120-VOLT, SINGLE PHASE, I5- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTERS(), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERPRIPTERS SHALL IS INSTALLED TO INTERPRIPTER SHALL IS INSTALLED TO IN A SPEATING HALLWAY. NTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE
- BUILDINGS SHALL BE PROVIDED WITH 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.
- TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS.
 ALL NON-LOCKING TYPE I25-VOLT I5-AND 20-AMPERE RECEPTACLES.
 SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS LISTED BELON.
 - 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 WITHIN 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 PLUS-RECEPTACLE COMBINATION IS A NONSTANDARD CONFIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH

SMOKE DETECTORS

- 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 217 AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 72

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NEPA AND AUDIBLE NOTIFICATION 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 NG-R FOR SMOKE ALARMS IN THE EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONNECTED TO A CENTRAL STATION

REQUIRED SMOKE DETECTORS SHALL BE LOCATED IN ACCORDANCE

ELECTRICAL (continued)

CARBON MONOXIDE ALARMS

- CARBON MONOXIDE ALARMS IN DMELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE INMEDIATE 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 COMPLYING MITH UL 2094 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NC-R R3I5 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF INDIVIDUAL CARBON MONOXIDE OR SMOKE ALARMS.

DRYER VENT

THE DRYER DUCT IS REQUIRED TO IDENTIFY THE LENGTH IN ACCORDANCE WITH SECTION MI502.4.5



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HOME

NORTH CAROLINA 40' SERIES KB HOME

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2018 NORTH CAROLINA STATE BUILDING CODES

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05/07/19

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FOR INTERNAL USE ONL'

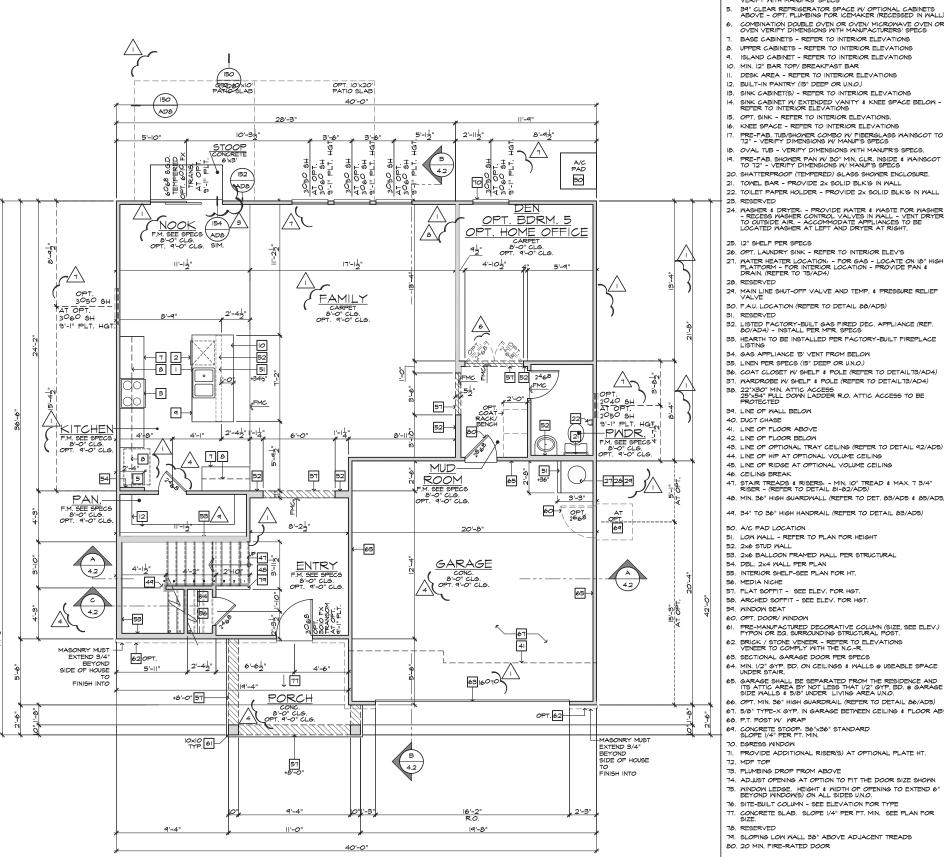
240.2596-R GN₃



	SQUARE FOOT	AGE			
	PLAN 240.2596	5-R			
FIRST FLOOR AR		1158	SQ. FT.		
SECOND FLOOR	AREA	1415	SQ. FT.		
TOTAL ARE	A	2573	SQ. FT.		
GARAGE AREA		416	SQ. FT.		
PORCH AREA(S)					
	ELEVATION 'A'	83	SQ. FT.		
	ELEVATION 'B'	84	SQ. FT.		
	ELEVATION 'C'	62	SQ. FT.		
PATIO AREA(S)	ELEVATION 'D'	136	SQ. FT.		
FATIO AREA(5)	IO'XIO' COVERED	100	SQ. FT.		
	10'x26'-7" COVERED		50. FT.		
DECK AREA(S)	10 x26-1 00 VERED	200	3Q. 1 1.		
DEOR AREAS	OPEN 12'x12'	144	SQ. FT.		
	OPEN 12'x24'	288	50. FT.		
	SCREENED-IN 12'x12'		5Q. FT.		
	SCREENED-IN 12'x24'		5Q. FT.		
SUNROOM AREA					
	12'x12'	144	SQ. FT.		
4	PLATE NOTE	SS	2018 N.GR		
	8'-I" PLATE NO	TES			
2nd FLOOR ENTRY DOC SLIDING GL INTERIOR SI	ADER HEIGHT: MINDOM HDR. HEIGHT: R HEIGHT: ASS DOOR HEIGHT: OOR HEIGHT:	6'-8" U.N.C 7'-0" U.N.C 6'-8" U.N.C 6'-8" (TEM 7'-4" U.N.C 6'-8" U.N.C).). P.) -		
1112110112	9'-1" PLATE NO		•		
4010 WINDO ENTRY DOC SLIDING GL. INTERIOR SI TRAY CEILI	ASS DOOR HEIGHT: OFFIT HEIGHT:	7'-8" U.N.O 8'-4" U.N.C 6'-8" U.N.C 6'-8" (TEM 8'-0" U.N.C 714" DROP 6'-8" U.N.C).). (P.)). U.N.O.		
	STAIR DATA NOTES 200 NG-R				
14" DEEP T.J.I. F	TH 8-1" PLATE HEIGHT: LOOR JOISTS WITH 3/4" ' AT IO" EACH AT 7-7/16" EACH	T&G DECKING			
14" DEEP T.J.I. F	TH 9-1" PLATE HEIGHT: "Loor Joists With 3/4" " At 10" Each at 1-3/4" Each	T&G DECKING			
	GENERAL PLAN NOTES				
ALL CEILING HE HEIGHTS, U.N.O.	ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE				
ALL INTERIOR DOORS TO BE HOLLOW CORE I 3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).					
EXTERIOR GRAD	ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).				
ALL HOUSE TO ((REFER TO PLAI	SARAGE DOORS TO BE 2 N FOR SIZE).	0-MINUTE FIR	E-RATED		

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.



NOTE: NOT ALL KEY NOTES APPLY. SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS DISHMASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS

FLOOR PLAN NOTES

SLIDE-IN RANGE/OVEN COMBINATION W BUILT-IN NON-VENTED HOOD WLIGHT & FAN. - VERIFY WITH MANUFACTURERS' SPECS . 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS

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NORTH CAROLINA 40' SERIES

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2018 NORTH **CAROLINA STATE BUILDING** CODES

06/02/15

MCP

05/07/19

PROJECT No.: 1350999:56

DIVISION REVISIONS
NCI8024NCP · 08/24/18 · CTD

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

DIVISION REVISION
NCI9017NCP- 04/01/19 CTD

FRAMEWALK REVISIONS
NCI9033NCP- 05/07/19 - CTD

DIVISION REVISIONS
NC20012NCP- 01/29/20 · KBA

DIVISION REVISIONS NC20017NCP- 03/04/20 - KBA

DIVISION REVISIONS
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ISSUE DATE:

REVISIONS:

DIVISION MGR.:

43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5) 44. LINE OF HIP AT OPTIONAL VOLUME CEILING

46. CEILING BREAK 47. STAIR TREADS & RISERS: - MIN. IO" TREAD & MAX. 7 3/4" RISER - (REFER TO DETAIL 81-82/AD5)

48. MIN. 36" HIGH GUARDWALL (REFER TO DET. 83/AD5 & 85/AD5

49. 34" TO 36" HIGH HANDRAIL (REFER TO DETAIL 83/AD5)

50. A/C PAD LOCATION

51. LOW WALL - REFER TO PLAN FOR HEIGHT 52. 2x6 STUD WALL 53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL

54. DBL. 2x4 WALL PER PLAN 55. INTERIOR SHELF-SEE PLAN FOR HT.

56. MEDIA NICHE 57. FLAT SOFFIT - SEE ELEV. FOR HGT.

58. ARCHED SOFFIT - SEE ELEV. FOR HGT. 59. WINDOW SEAT

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

62. BRICK / STONE VENEER - REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.C.-R.

63. SECTIONAL GARAGE DOOR PER SPECS 64. MIN. I/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT I/2" GYP, BD, ⊚ GARAGE SIDE WALLS & 5/6" UNDER LIVING AREA U.N.O. 66. OPT. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5)

67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR AB

69. CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN. 70. EGRESS WINDOW

71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.

73. PLUMBING DROP FROM ABOVE 74. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN

75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(5) ON ALL SIDES U.N.O. 76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE.

76. RESERVED
79. SLOPING LOW WALL 36" ABOVE ADJACENT TREADS 80. 20 MIN. FIRE-RATED DOOR

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

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

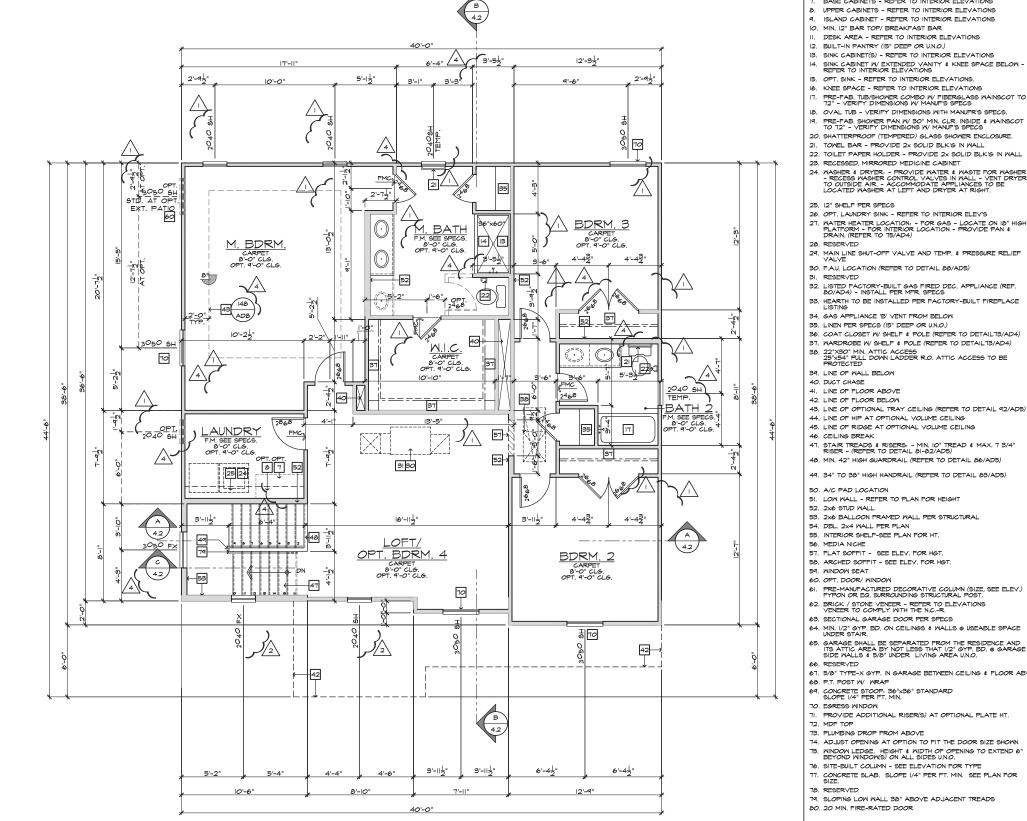




	PLATE NOTE	2018 N.C.+	R		
	8'-I" PLATE NOTES				
•	MINDOM HEADER HEIGHT: 2nd FLOOR WINDOM HDR, HEIGHT: ENTRY DOOR HEIGHT: SLIDING GLASS DOOR HEIGHT: INTERIOR SOFFIT HEIGHT: INTERIOR DOOR HEIGHT:	6'-8" U.N.O. 7'-0" U.N.O. 6'-8" U.N.O. 6'-8" (TEMP) 7'-4" U.N.O. 6'-8" U.N.O.			
9'-I" PLATE NOTES					
•	MINDOM HEADER HEIGHT IS OR 2nd 4010 MINDOM OVER TUB HDR. HGT.: ENTRY DOOR HEIGHT: SLIDING GLASS DOOR HEIGHT: INTERIOR SOFFIT HEIGHT: ITRAY CEILING: INTERIOR DOOR HEIGHT:	7'-8" U.N.O. 8'-4" U.N.O. 6'-8" U.N.O. 6'-8" (TEMP.) 8'-0" U.N.O. 1'4" DROP U.N.O. 6'-8" U.N.O.			

STAIR DATA NOTES

FIRST FLOOR WITH S-IP PLATE HEIGHT:

FIRST FLOOR WITH 9'-1" PLATE HEIGHT:
14" DEEP T.J.I. FLOOR JOISTS WITH 9'-4" T&G DECKING. 15 TREADS AT 10" EACH 16 RISERS AT 7-3/4" EACH

GENERAL PLAN NOTES

ALL INTERIOR DOORS TO BE HOLLOW CORE I 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). 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). ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.

SECOND FLOOR PLAN 'A' 9CALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

NOTE: NOT ALL KEY NOTES APPLY. SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS DISHMASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS SLIDE-IN RANGE/OVEN COMBINATION W BUILT-IN NON-VENTED HOOD W/LIGHT & FAN. - VERIFY WITH MANUFACTURERS' SPECS

FLOOR PLAN NOTES

. 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS

5, 94" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL) COMBINATION DOUBLE OVEN OR OVEN MICROMAVE OVEN OR OVEN VERIFY DIMENSIONS MITH MANUFACTURERS' SPECS BASE CABINETS - REFER TO INTERIOR ELEVATIONS

PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS

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2018 NORTH **CAROLINA STATE BUILDING** CODES

ISSUE DATE: 06/02/15 PROJECT No.: 1350999:56

DIVISION MGR.: MCP 05/07/19 REVISIONS:

DIVISION REVISIONS
NCI8024NCP · 08/24/18 · CTD 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISION
NCI9017NCP- 04/01/19 CTD

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1.2

62. BRICK / STONE VENEER - REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.C.-R. FRAMEWALK REVISIONS
NCI9033NCP- 05/07/19 - CTD 63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. I/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR. 65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT I/2" GYP, BD, ⊚ GARAGE SIDE WALLS & 5/6" UNDER LIVING AREA U.N.O.

67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR AS

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

70. EGRESS WINDOW

71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT. 73. PLUMBING DROP FROM ABOVE

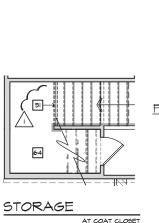
74. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(5) ON ALL SIDES U.N.O.

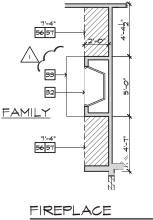
76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

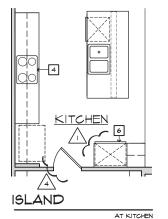
77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE.

76. RESERVED
79. SLOPING LOW WALL 36" ABOVE ADJACENT TREADS 80. 20 MIN. FIRE-RATED DOOR

240.2596-R







AT FAMILY

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

FIRST FLOOR PLAN OPTIONS

FLOOR PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY. SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS DISHMASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN NON-VENTED HOOD WLIGHT & FAN. - VERIFY WITH MANUFACTURERS' SPECS 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS HOME 5. 34" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL) 6. COMBINATION DOUBLE OVEN OR OVEN WICROWAVE OVEN OR OVEN VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS . BASE CABINETS - REFER TO INTERIOR ELEVATIONS 8. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS 9. ISLAND CABINET - REFER TO INTERIOR ELEVATIONS IO. MIN. 12" BAR TOP/ BREAKFAST BAR II. DESK AREA - REFER TO INTERIOR ELEVATIONS 12. BUILT-IN PANTRY (15" DEEP OR U.N.O.) 13. SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS 14. SINK CABINET W/ EXTENDED VANITY & KNEE SPACE BELOW - REFER TO INTERIOR ELEVATIONS 15. OPT. SINK - REFER TO INTERIOR ELEVATIONS. 16. KNEE SPACE - REFER TO INTERIOR ELEVATIONS PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS 18. OVAL TUB - VERIFY DIMENSIONS WITH MANUFR'S SPECS. 19. PRE-FAB, SHOWER PAN W 30" MIN, CLR, INSIDE & WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS 20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE. 21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL NORTH CAROLINA 22. TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'G IN WALL 23. RECESSED, MIRRORED MEDICINE CABINET 40' SERIES 25. RACESSED, MIRRORED MEDICINE CACINET 24. MASHER & DRYTER. - PROVIDE WATER & MASTE FOR WASHER 26. RECESS MASHER CONTROL VALVES IN WALL - VENT DRYER TO JUSTIDE AIR. - ACCOMMODATE APPLIANCES TO BE LOCATED WASHER AT LEFT AND DRYER AT RIGHT. NORTH CAROLINA DIVISION 25. I2" SHELF PER SPECS 26. OPT. LAUNDRY SINK - REFER TO INTERIOR ELEV'S 4518 S. MIAMI BLVD. 27. WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN. (REFER TO 15/AD4) DURHAM, NC 27703 29. MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE TEL: (919) 768-7988 • FAX: (919) 472-0582 30. F.A.U. LOCATION (REFER TO DETAIL 88/AD5) 32. LISTED FACTORY-BUILT GAS FIRED DEC. APPLIANCE (REF. 80/AD4) - INSTALL PER MFR. SPECS 33. HEARTH TO BE INSTALLED PER FACTORY-BUILT FIREPLACE LISTING 34. GAS APPLIANCE 'B' VENT FROM BELOW 35. LINEN PER SPECS (15" DEEP OR U.N.O.) 36. COAT CLOSET W SHELF & POLE (REFER TO DETAILTS/AD4) 37. WARDROBE W SHELF & POLE (REFER TO DETAIL13/AD4) 36, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED

2018 NORTH CAROLINA STATE **BUILDING** CODES

KB HOME

SUITE 180

ISSUE DATE: 06/02/15 PROJECT No.: 1350999:56 DIVISION MGR.: MCP

05/07/19

DIVISION REVISIONS NCI8024NCP · 08/24/18 · CTD

REVISIONS:

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

DIVISION REVISION
NCI9017NCP- 04/01/19 CTD

DIVISION REVISIONS
NC20012NCP- 01/29/20 - KBA

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61. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 62. BRICK / STONE VENEER - REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.C.-R. FRAMEWALK REVISIONS NC19033NCP- 05/07/19 - CTD 63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. I/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5)

47. STAIR TREADS & RISERS: - MIN. IO" TREAD & MAX. 7 3/4" RISER - (REFER TO DETAIL 81-82/AD5) 48. MIN. 42" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5) 49. 34" TO 38" HIGH HANDRAIL (REFER TO DETAIL 83/AD5)

44. LINE OF HIP AT OPTIONAL VOLUME CEILING 45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING

51. LOW WALL - REFER TO PLAN FOR HEIGHT

53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL

65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT I/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O. 67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR AS

68. P.T. POST W WRAP

69. CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN. 70. EGRESS WINDOW

71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.

28. RESERVED

39. LINE OF WALL BELOW

40. DUCT CHASE 41. LINE OF FLOOR ABOVE 42. LINE OF FLOOR BELOW

46. CEILING BREAK

50. A/C PAD LOCATION

54. DBL. 2x4 WALL PER PLAN

55. INTERIOR SHELF-SEE PLAN FOR HT. 56. MEDIA NICHE 57. FLAT SOFFIT - SEE ELEV. FOR HGT.

58. ARCHED SOFFIT - SEE ELEV. FOR HGT.

52. 2x6 STUD WALL

59. WINDOW SEAT 60. OPT. DOOR/ MINDOW

73. PLUMBING DROP FROM ABOVE

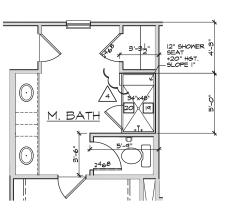
74. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE.

76. RESERVED
79. SLOPING LOW WALL 36" ABOVE ADJACENT TREADS 80. 20 MIN. FIRE-RATED DOOR

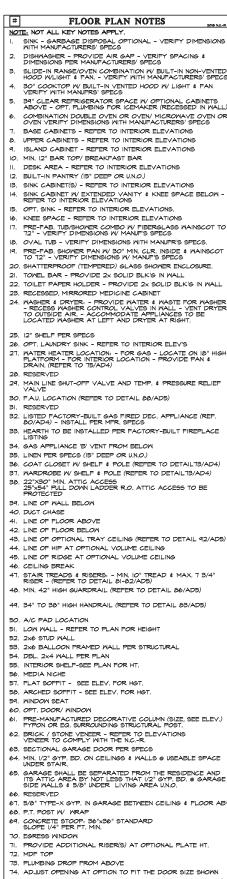
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SECOND FLOOR PLAN OPTIONS

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



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2018 NORTH CAROLINA STATE **BUILDING** CODES

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FRAMEWALK REVISIONS NC19033NCP- 05/07/19 - CTD

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DIVISION REVISION
NCI9017NCP- 04/01/19 CTD 61. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. I/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

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

67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR AS 68. P.T. POST W WRAP

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

71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.

73. PLUMBING DROP FROM ABOVE

74. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

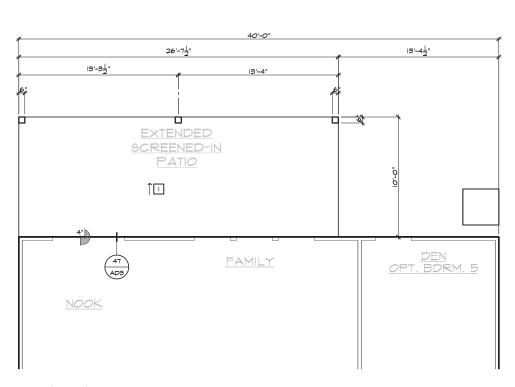
77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE.

78. RESERVED
79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS 80. 20 MIN. FIRE-RATED DOOR

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

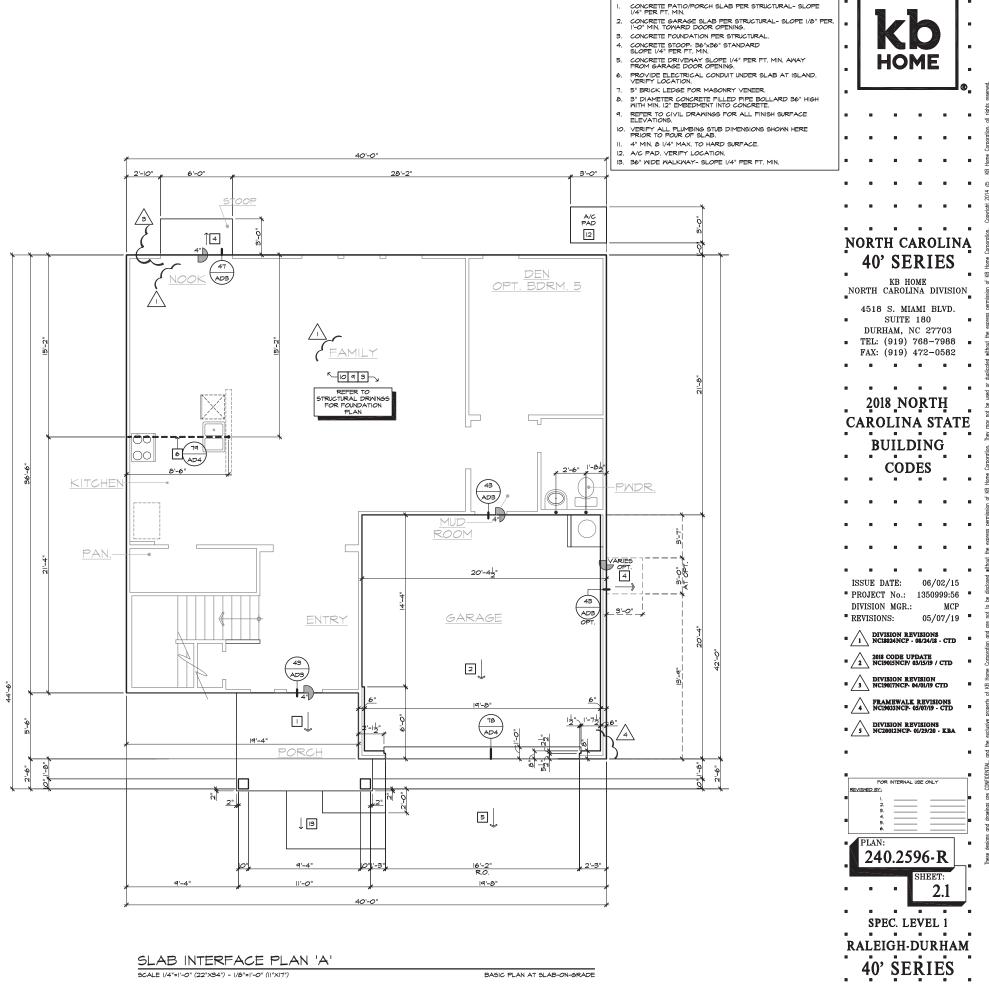
240.2596-R HEET: 1.5 SPEC. LEVEL 1 **RALEIGH-DURHAM**

40' SERIES



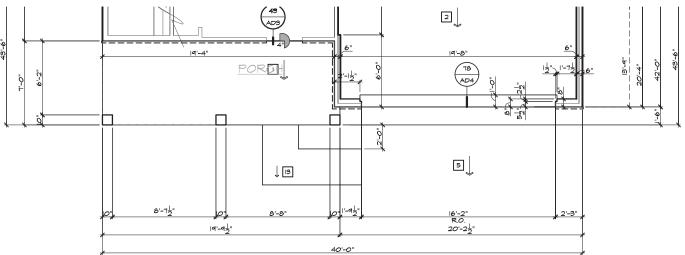
10'X20' EXTENDED SCREENED-IN PATIO

AT GREAT ROOM



SLAB PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.



PARTIAL SLAB INTERFACE PLAN 'D'

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

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 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. 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 | 1/4" MAX. TO HARD SURFACE. | 12. A/C PAD. VERIFY LOCATION. | 13. 36" WIDE WALKWAY- SLOPE | 1/4" PER FT. MIN.



NORTH CAROLINA 40' SERIES

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2018 NORTH CAROLINA STATE BUILDING CODES

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ISSUE DATE: 06/02/15 PROJECT No.: 1350999:56 DIVISION MGR.: MCP

05/07/19

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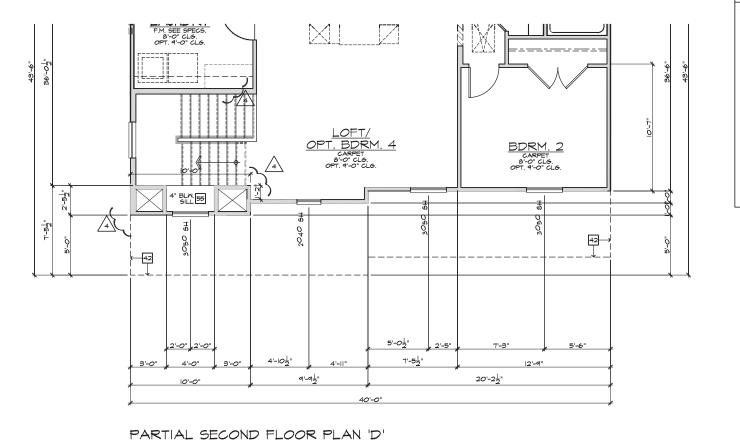
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DIVISION REVISION
NCI9017NCP- 04/01/19 CTD

FRAMEWALK REVISIONS NCI9033NCP- 05/07/19 - CTD DIVISION REVISIONS
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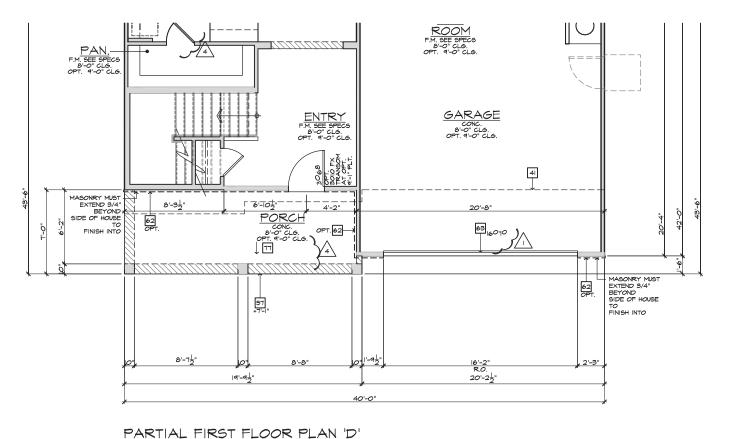
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SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

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



BASIC PLAN

BASIC PLAN

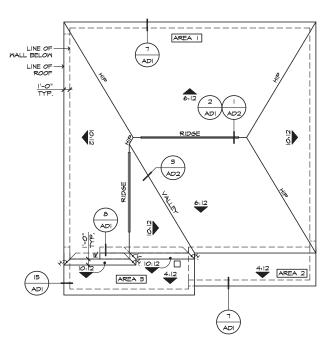
PARTIAL PLAN NOTES HOME NORTH CAROLINA 40' SERIES кв номе NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 ■ TEL: (919) 768-7988 ■ FAX: (919) 472-0582 2018 NORTH CAROLINA STATE BUILDING CODES ISSUE DATE: 06/02/15 ■ PROJECT No.: 1350999:56 ■ DIVISION MGR.: MCP 05/07/19 REVISIONS: DIVISION REVISIONS
NCIS024NCP · 08/24/18 · CTD 2018 CODE UPDATE
NCI9015NCP/ 03/15/19 / CTD DIVISION REVISION
NCI9017NCP- 04/01/19 CTD FRAMEWALK REVISIONS NC19033NCP- 05/07/19 - CTD DIVISION REVISIONS
NC20012NCP- 01/29/20 · KBA DIVISION REVISIONS
NC20017NCP- 03/04/20 - KBA DIVISION REVISIONS
NC20023NCP- 05/07/20 - KBA B HOME OFFICE CORP20003CORP-08/20/20-CTD

DIVISION REVISION NC21003NCP - 12/18/20 - KBA

240.2596-R 3.D1

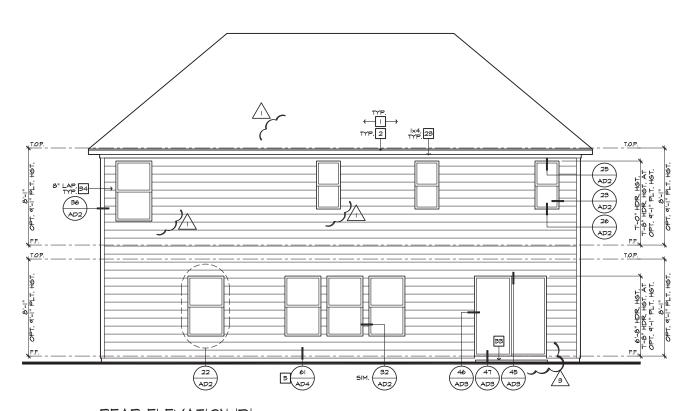
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

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



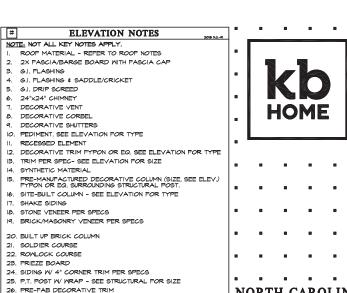
ROOF PLAN 'D'

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



REAR ELEVATION 'D'

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



NORTH CAROLINA 40' SERIES KB HOME

NORTH CAROLINA DIVISION

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2018 NORTH

CAROLINA STATE

BUILDING

CODES

ISSUE DATE: 06/02/15 PROJECT No.: 1350999:56

DIVISION REVISIONS NCIS024NCP · 09/24/18 · CTD

MCP

05/07/19

38. KEYSTONE 39. SOLDIER CROWN

27. LIGHT WEIGHT PRECAST STONE TRIM

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

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

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

28. P.T. LUMBER RAILINGS (+36" U.N.O.)

40. JACK SOLDIER COURSE
41. WATER TABLE

3. G.I. FLASHING

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

IT. SHAKE SIDING

21. SOLDIER COURSE 22. ROWLOCK COURSE

23. FRIEZE BOARD

32. ENTRY DOOR

35. ALUMINUM WRAP

42. ATRIUM DOOR

43. PILASTER - SEE ELEVATION FOR TYPE ROOF PLAN NOTES 'D'

6:12

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

ATTIC VENT CALCULATIONS

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. 906.2)

** CALCULATION BY (1/50, HIGHLON VENTING NOT REQUIRED. APPROXIMATE RIDGE VENT LOCATIONS 500/N. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

AREA | VENTILATION REQUIRED:
ATTIC AREA = 1492 SQ. FT. / 300 =

VENTILATION PROVIDED:

36 LINEAR FEET RIDGE VENT AT 18 SQ. IN. PER FOOT= (I) LI418 GABLE END VENT x 108 SQ. IN. =

TOTAL LOW= 670 SQ. IN.

108 SQ. IN.

178 SQ. IN. 134 LINEAR FEET EAVE VENT AT 5 SQ. IN. PER FOOT= (I) LI418 GABLE END VENT x 108 SQ. IN. =

TOTAL= 1534 SQ. IN AREA 2 VENTILATION REQUIRED:
ATTIC AREA = 102 SQ. FT. / 150 =

VENTILATION PROVIDED:

20 LINEAR FEET EAVE VENT AT 5 SQ. IN. PER FOOT= T= 1<u>00 SQ. IN</u> TOTAL= 100 SQ. IN

AREA 3 VENTILATION REQUIRED: ATTIC AREA = 106 SQ. FT. / 150 = VENTILATION PROVIDED: (I) 5-144 ROOF VENT(S) X 144 SQ. IN. EA. =

20 LINEAR FEET EAVE VENT AT 5 50. IN. PER FOOT= 100 50. IN. TOTAL= 244 50. IN.

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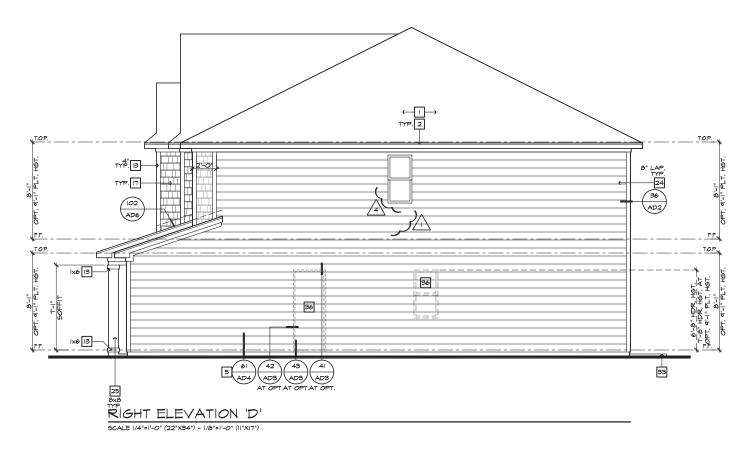
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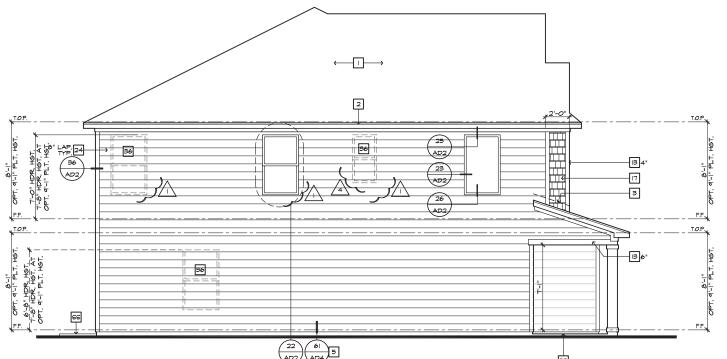
REVISIONS:

240.2596-R

3.D2

SPEC. LEVEL 1 RALEIGH-DURHAM





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 PER SPEC- 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

SHAKE SIDING
 STONE VENEER PER SPECS
 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. P.T. LUMBER RAILINGS (+36" U.N.O.)

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

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2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 06/02/15 ■ PROJECT No.: 1350999:56 ■

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05/07/19 REVISIONS: DIVISION REVISIONS
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E 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION MGR.:

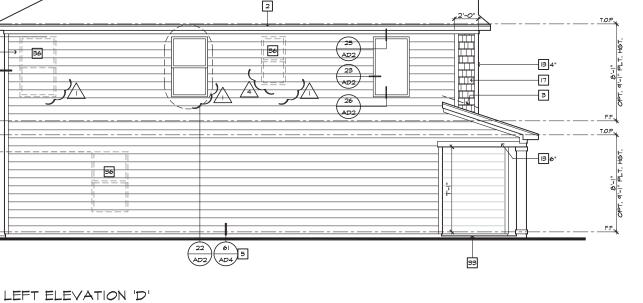
DIVISION REVISION NCI9017NCP- 04/01/19 CTD

FRAMEWALK REVISIONS NCI9033NCP- 05/07/19 - CTD DIVISION REVISIONS
NC20012NCP- 01/29/20 · KBA

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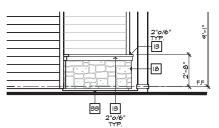
3.D3

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES



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





LEFT ELEVATION 'D' W/ OPTIONAL STONE AT OPTIONAL 9'-1" PLT. HGT. SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

FRONT ELEVATION 'D' W/ OPTIONAL STONE SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

AT OPTIONAL 9'-I" PLT. HGT.

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

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

29. WRAP

32. ENTRY DOOR

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE
41. WATER TABLE 42. ATRIUM DOOR

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

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

15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

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

PARTIAL PLAN NOTES

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

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

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

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO

28. P.T. LUMBER RAILINGS (+36" U.N.O.)

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05/07/19

DIVISION REVISIONS
NCIS024NCP · 06/24/18 · CTD

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

REVISIONS:

DIVISION REVISION NCI9017NCP- 04/01/19 CTD FRAMEWALK REVISIONS NC19033NCP- 05/07/19 - CTD

DIVISION REVISIONS
NC20012NCP- 01/29/20 · KBA



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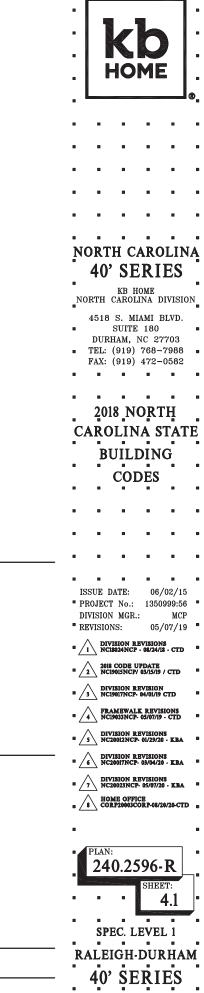
3.D7 SPEC. LEVEL 1

RALEIGH-DURHAM 40' SERIES

2"0/6' TYP. [3] 2'-8 T 18

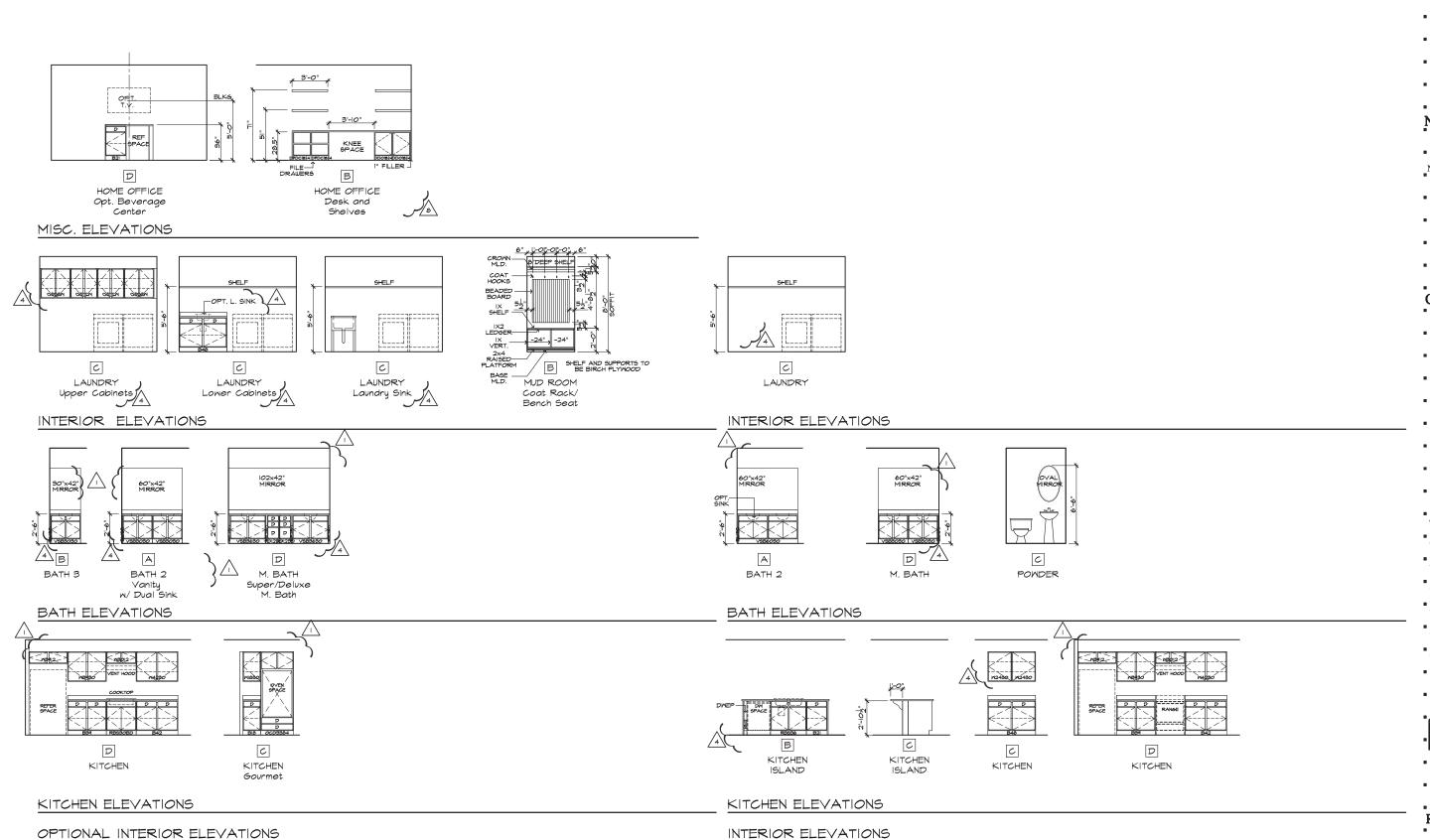
RIGHT ELEVATION 'D' W/ OPTIONAL STONE AT OPTIONAL 9'-I" PLT. HGT. SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

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



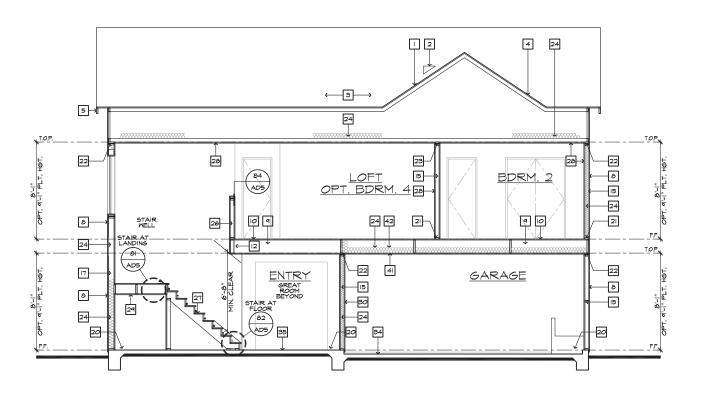
MCP

4.1



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

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



SECTION "A"

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

AT SLAB-ON-GRADE

SECTION NOTES

- ROOF MATERIAL REFER TO ROOF NOTES ROOF PITCH - REFER TO ROOF NOTES
- PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM SEE STRUCTURAL & TRUSS CALCS
- 4. ROOF SHEATHING PER STRUCTURAL
- 5. 2x FASCIA/BARGE BOARD
- 6. CONT. SOFFITED EAVE W/ VENTING
- 7. G.I. FLASHING ROOF TO WALL 8. EXTERIOR FINISH PER ELEVATIONS
- 1. FLOOR FRAMING PER STRUCTURAL
- IO. FLOOR SHEATHING PER STRUCTURAL
- HEADER PER STRUCTURAL
- 12. FLUSH BEAM PER STRUCTURAL IS. DROPPED BEAM PER STRUCTURAL
- 14. FLAT/ ARCHED SOFFIT PER PLAN
- 15. 2x4 STUD WALL 16. 2x6 STUD WALL
- 17. 2x6 BALLOON FRAMED WALL PER STRUCTURAL
- I8. 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, I/2" GYP. BD. @ WALLS & SAG RESISTANT OR 5/8" DRYWALL @ CEILING
- 29. MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.
- 90. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. GARAGE SIDE WALLS & \$50°C WIDER LIVING REA UN.

 51. 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
- 41. 5/8" TYPE-X DRYWALL @ GARAGE CEILING
- CEILING

 2. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE
 CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A
 SIGNLE-FAMILY DIRELLING, DRAFT STOPS SHALL BE INSTALLET
 SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT
 EXCEED 1,000 SQUARE FEET, DRAFTSTOPPING SHALL DIVIDE
 THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS,

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ISSUE DATE: 06/02/15 PROJECT No.: 1350999:56 DIVISION MGR.:

REVISIONS: 05/07/19 DIVISION REVISIONS
NCI8024NCP · 08/24/18 · CTD

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

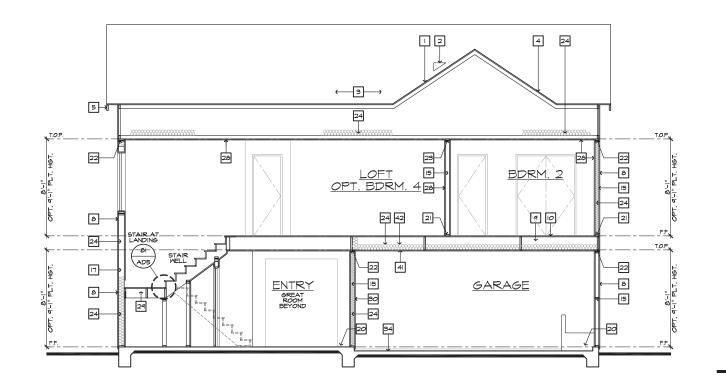
FRAMEWALK REVISIONS NCI9033NCP- 05/07/19 - CTD

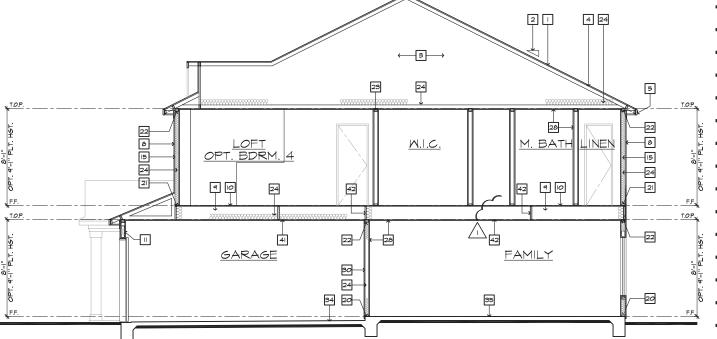


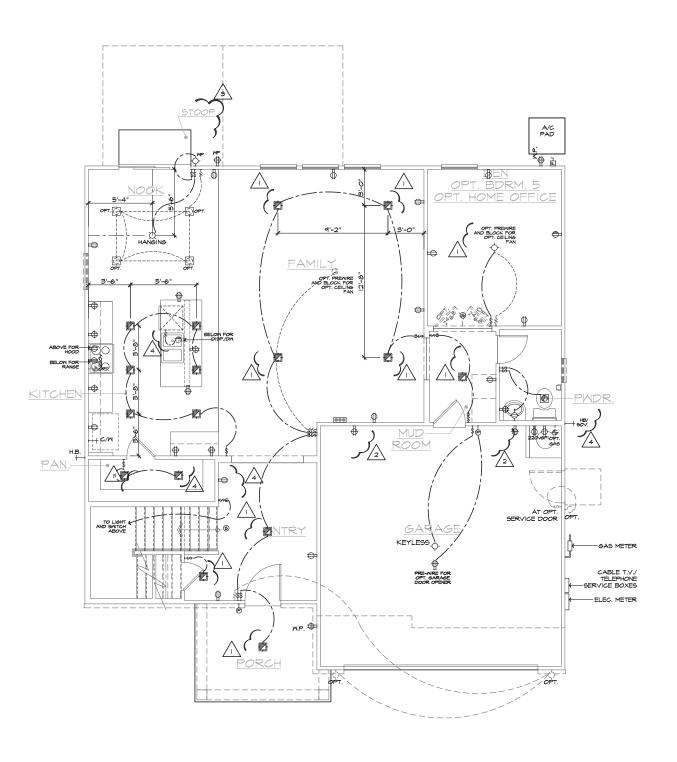
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SPEC. LEVEL 1

RALEIGH-DURHAM



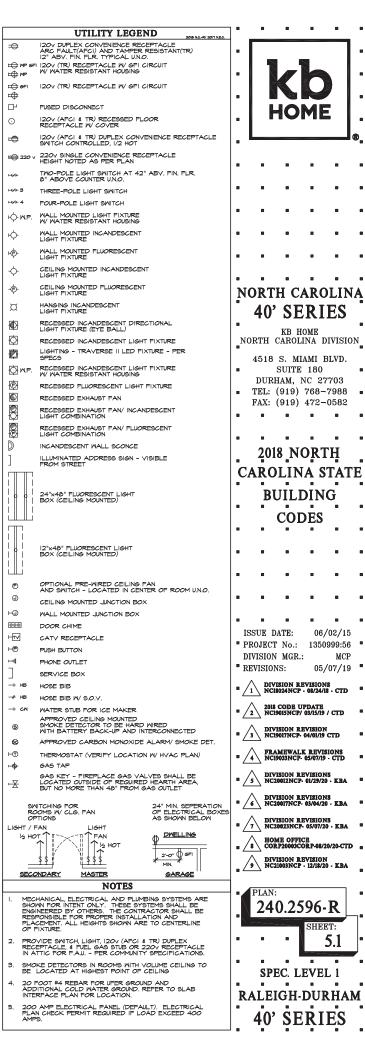


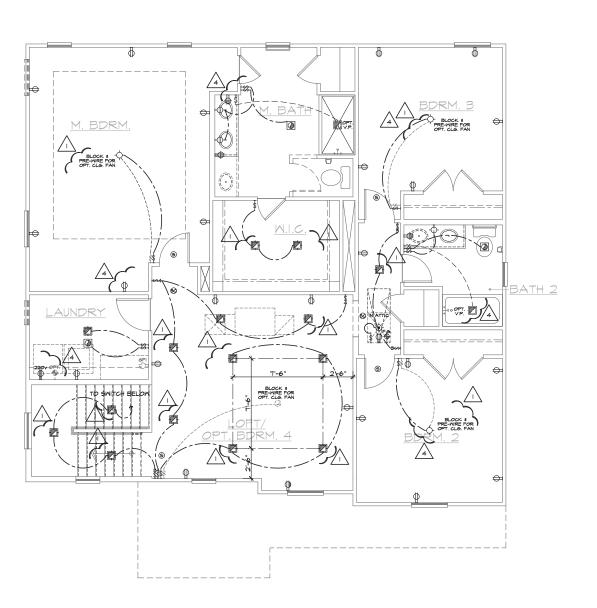


FIRST FLOOR UTILITY PLAN

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

BASIC PLAN

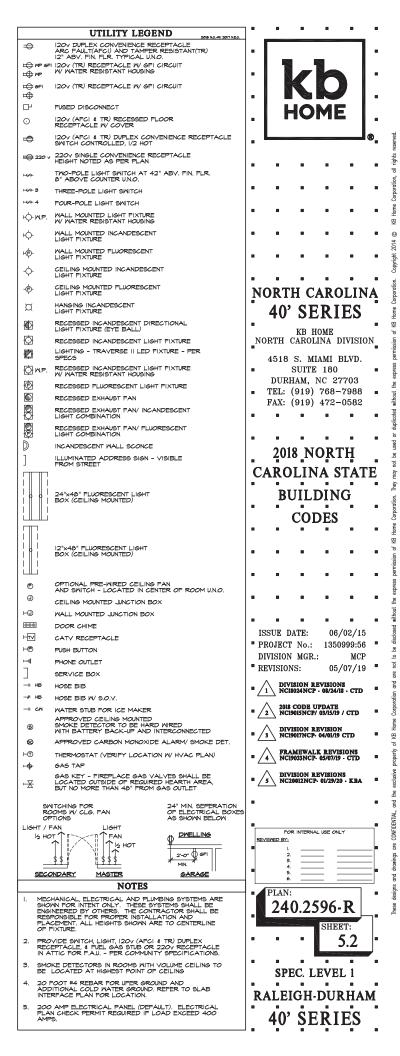


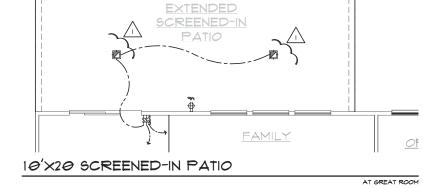


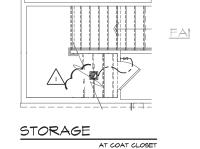
SECOND FLOOR UTILITY PLAN

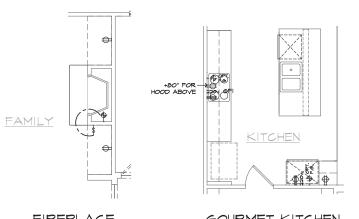
SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

BASIC PLAN









FIREPLACE GOURMET KITCHEN

FIRST FLOOR UTILITY PLAN OPTIONS

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



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

RALEIGH-DURHAM

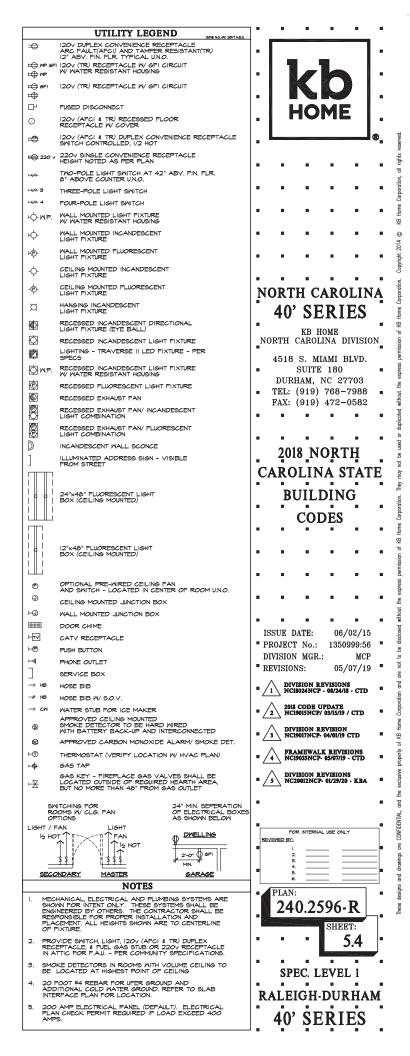
40' SERIES

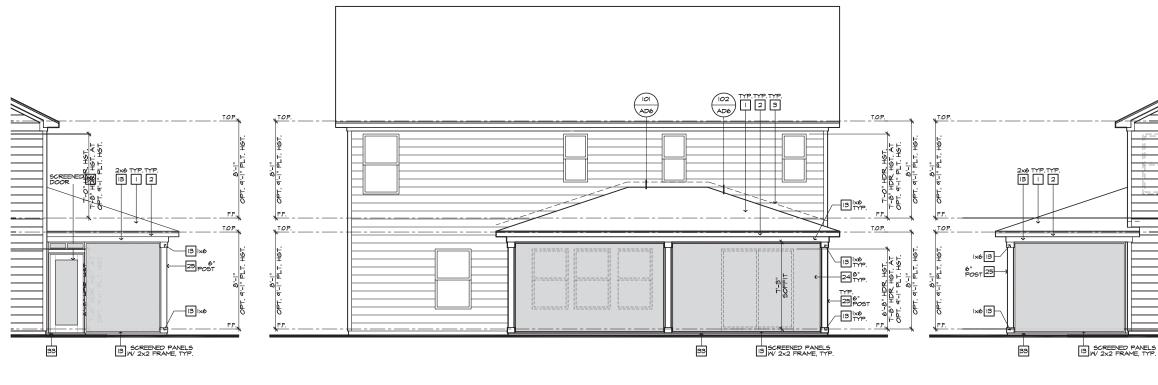


DELUXE M. BATH

SECOND FLOOR UTILITY PLAN OPTIONS

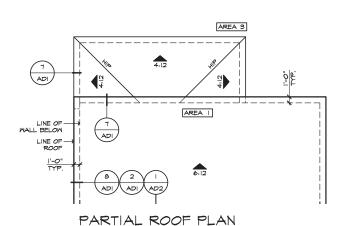
56ALE I/4"=!-O" (22"x34") - I/8"=!-O" (II"XIT')





PARTIAL RIGHT ELEVATION SCALE 1/4"=1'-0" (22"×34") - 1/8"=1'-0" (11"×17")

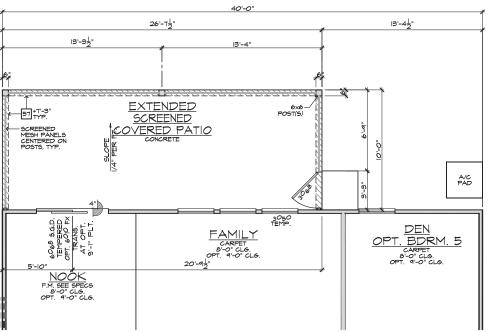
REAR ELEVATION SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7") PARTIAL LEFT ELEVATION SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7"



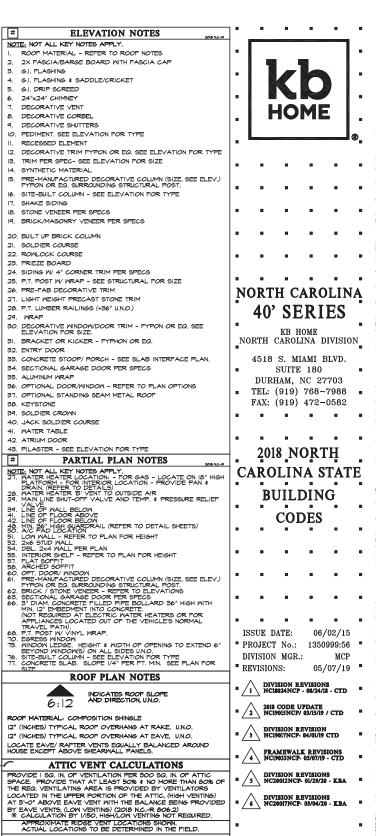
SCALE 1/8"=1'-0" (22"X34") - 1/16"=1'-0" (11"X17")

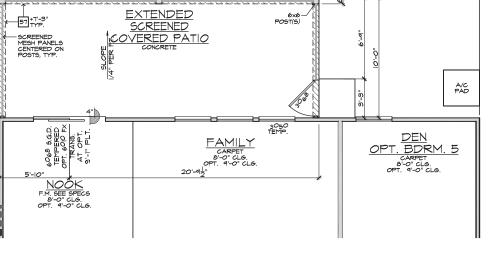
PARTIAL FLOOR PLAN

10'X20' SCREENED-IN EXTENDED COVERED PATIO



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





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

AREA 3 / OPTIONAL IOx26 COVERED PATIO

TOTAL VENTILATION PROVIDED:

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

ELEVATION NOTES

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

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

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

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

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NOTES

ROOF PLAN NOTES

ATTIC VENT CALCULATIONS

6:12

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

26. PRE-FAB DECORATIVE TRIM

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

NOTE: NOT ALL KEY NOTES APPLY.

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

3. G.I. FLASHING

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

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

II. RECESSED ELEMENT

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

21. SOLDIER COURSE 22. ROWLOCK COURSE 23. FRIEZE BOARD

29. WRAP

32. ENTRY DOOR

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN

42. ATRIUM DOOR

40. JACK SOLDIER COURSE 4I. WATER TABLE

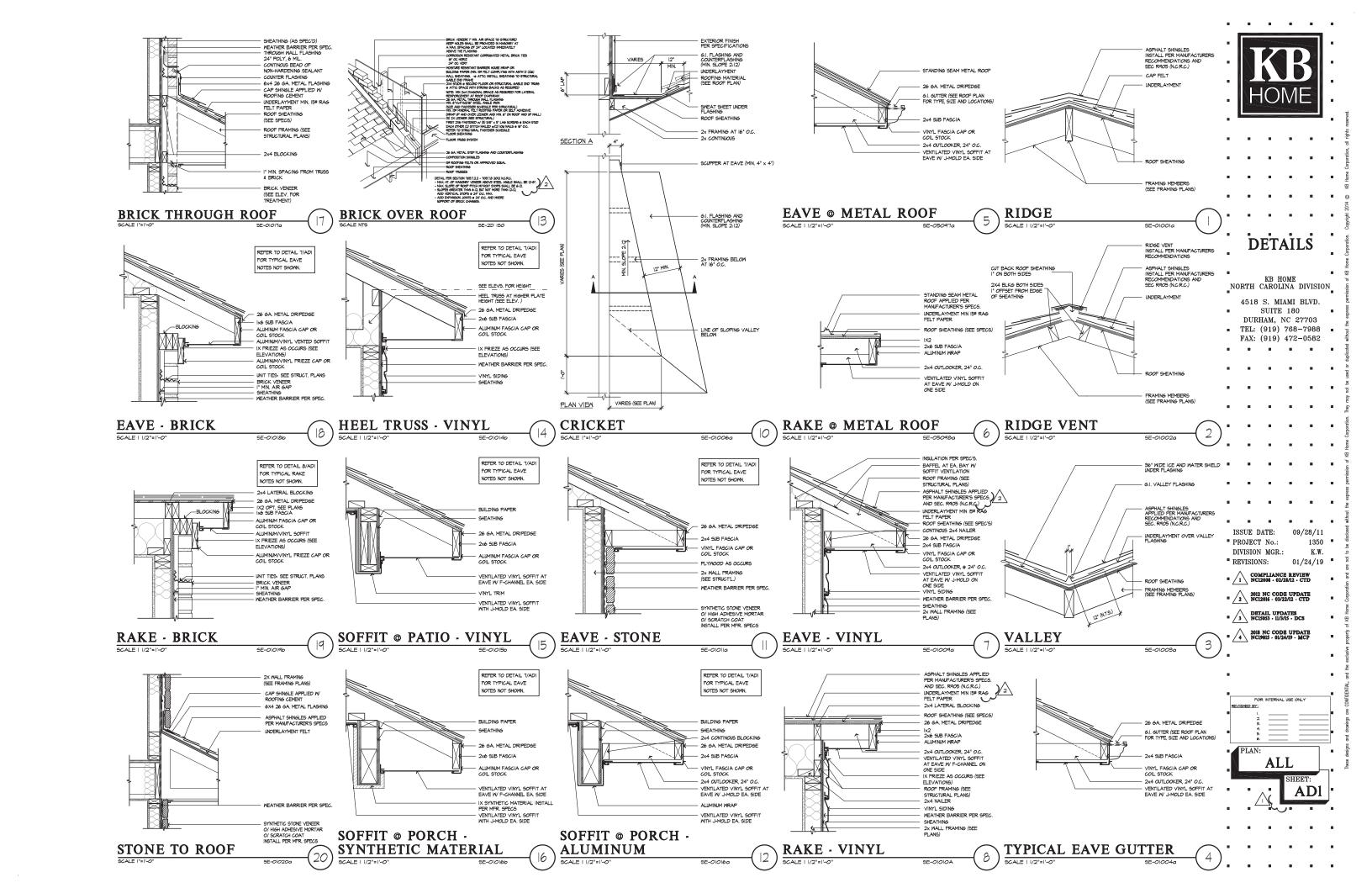
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

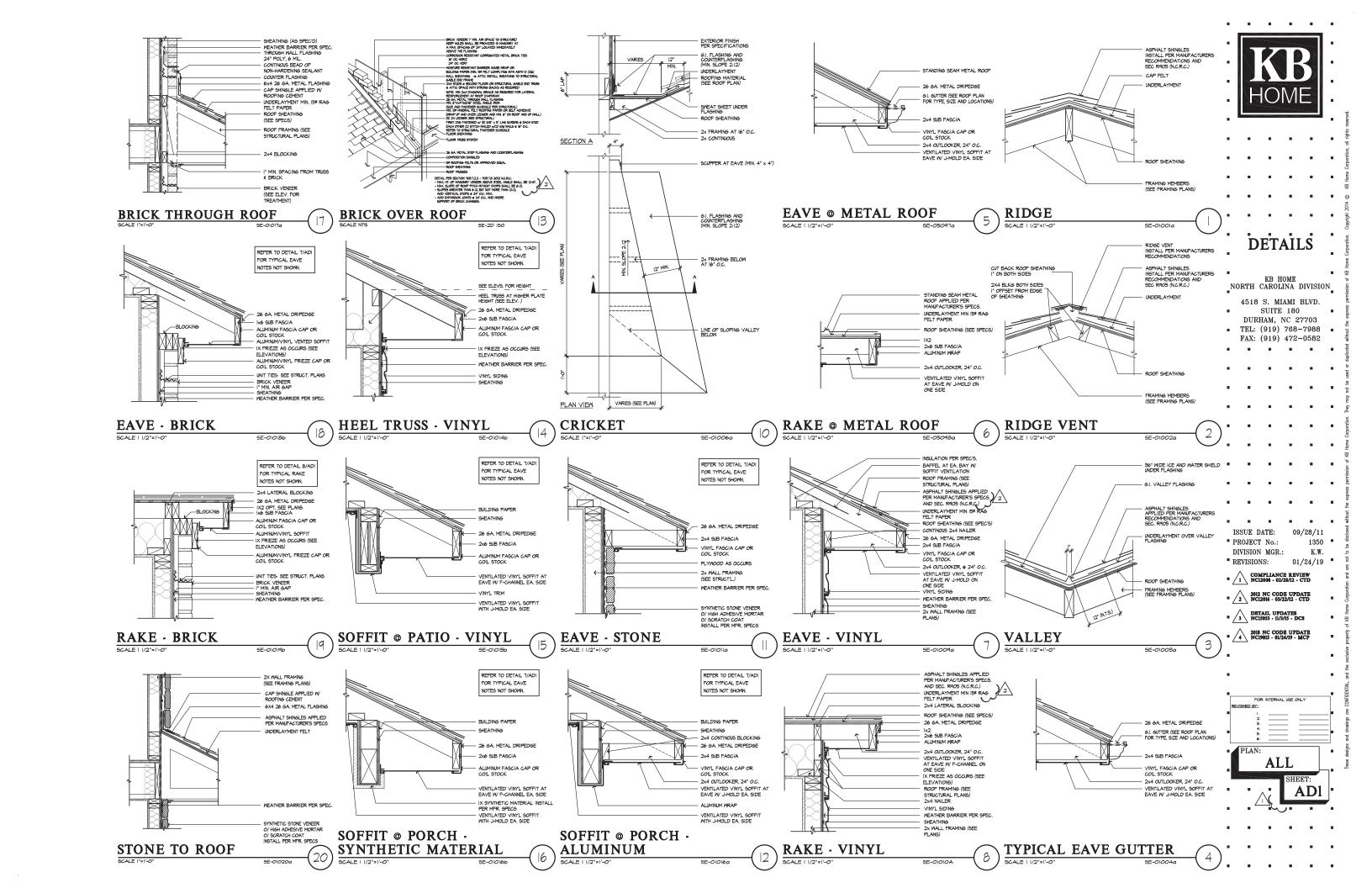
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

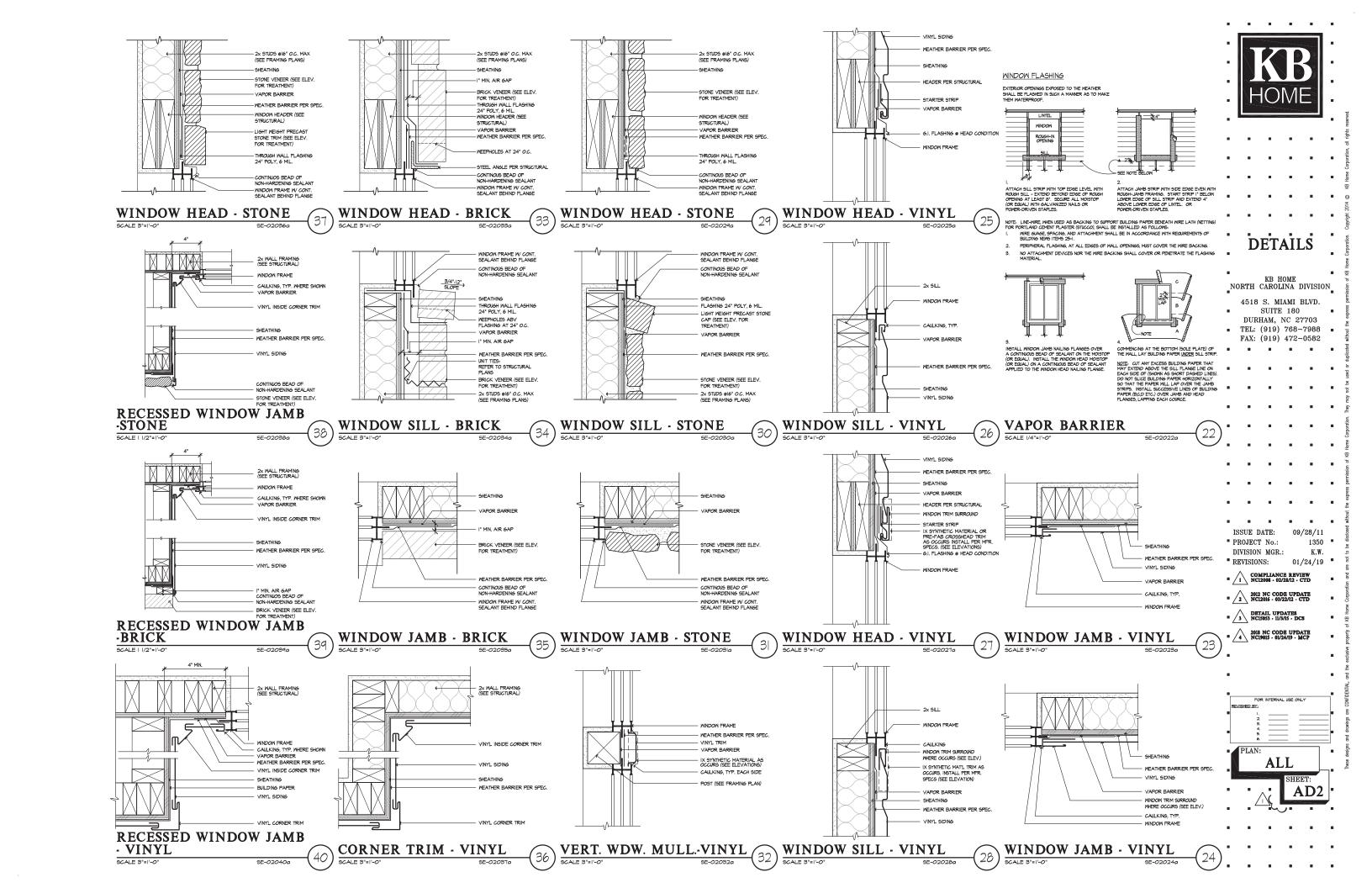
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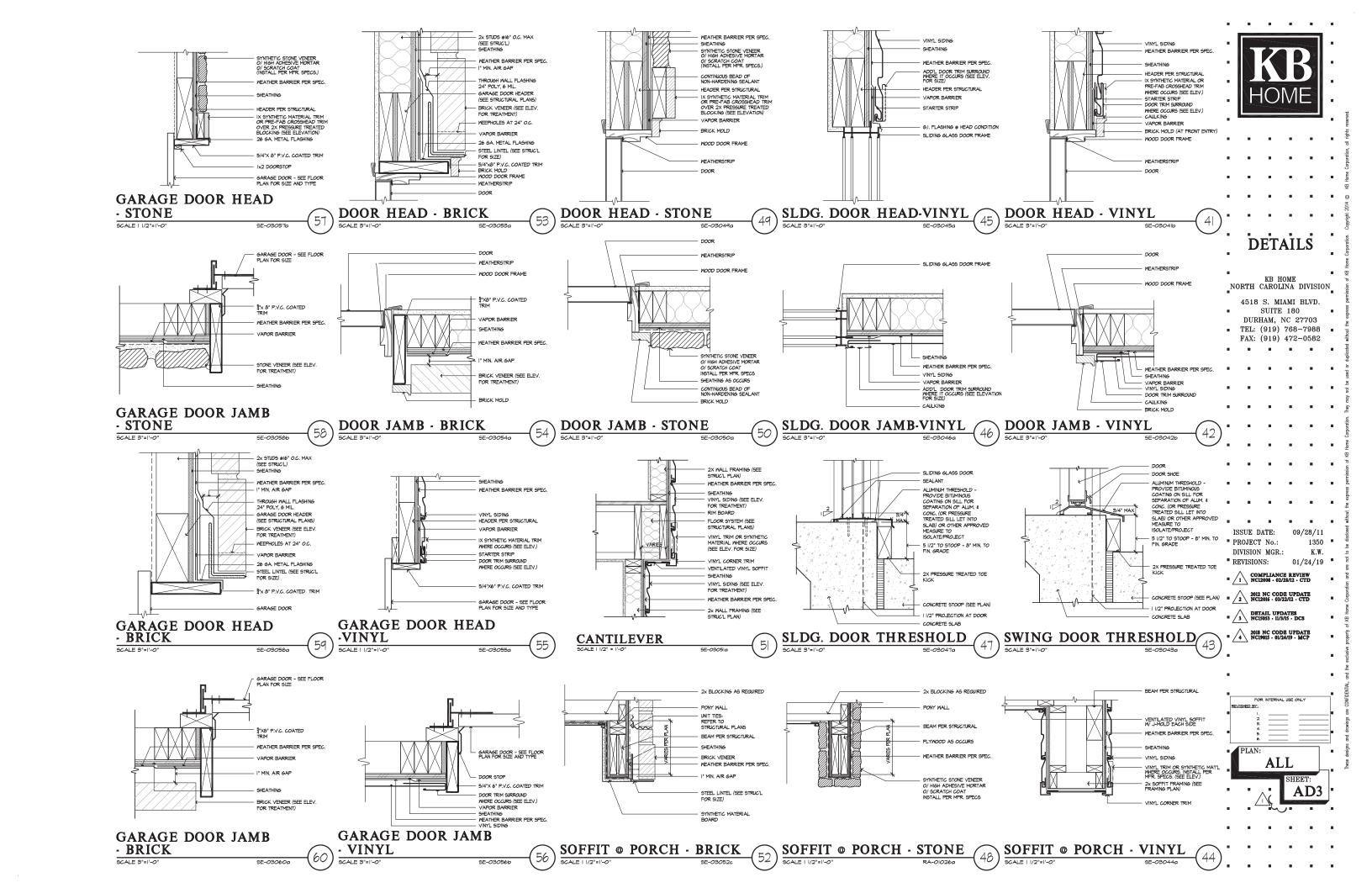
HEET:

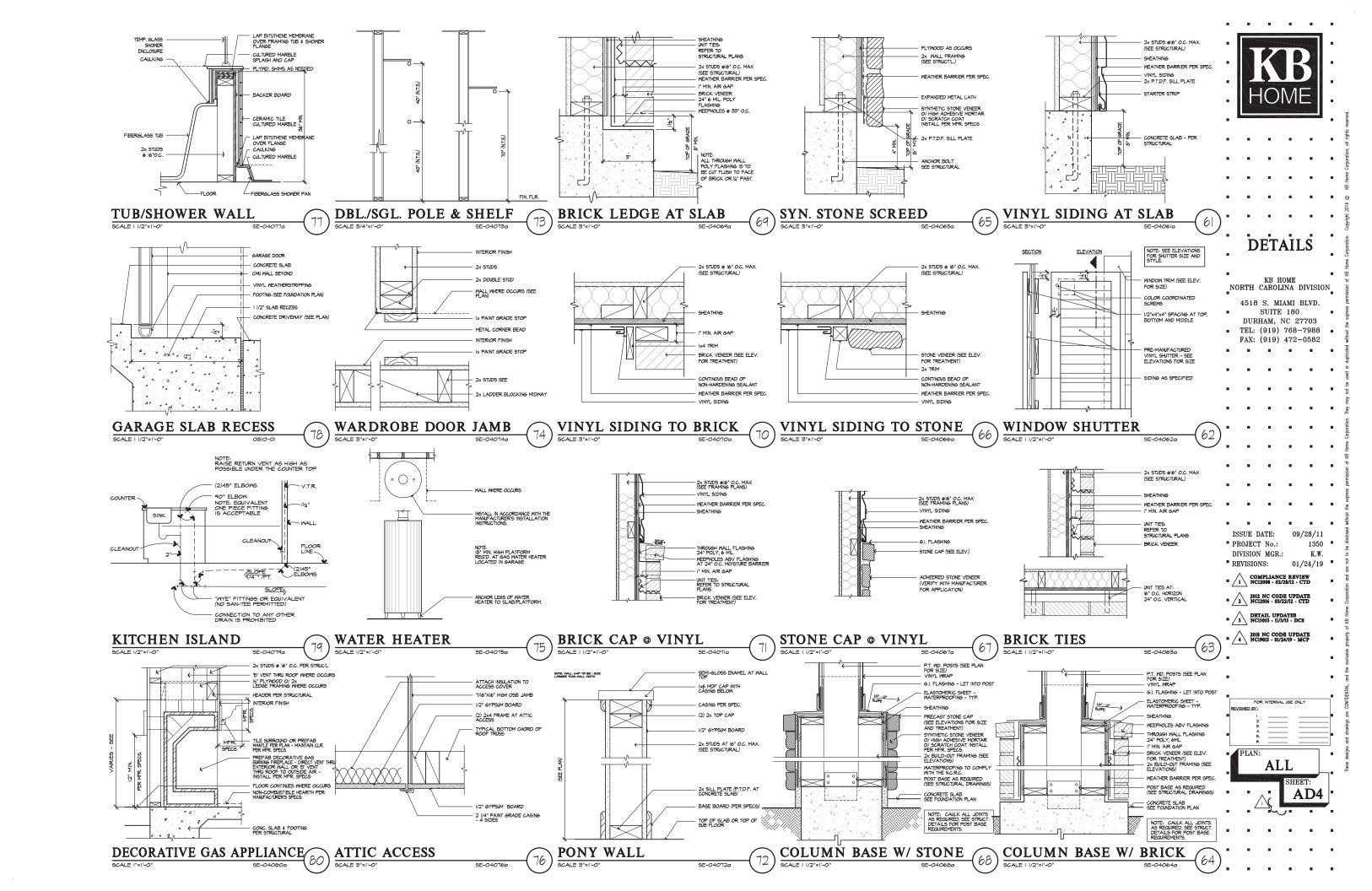
8.4

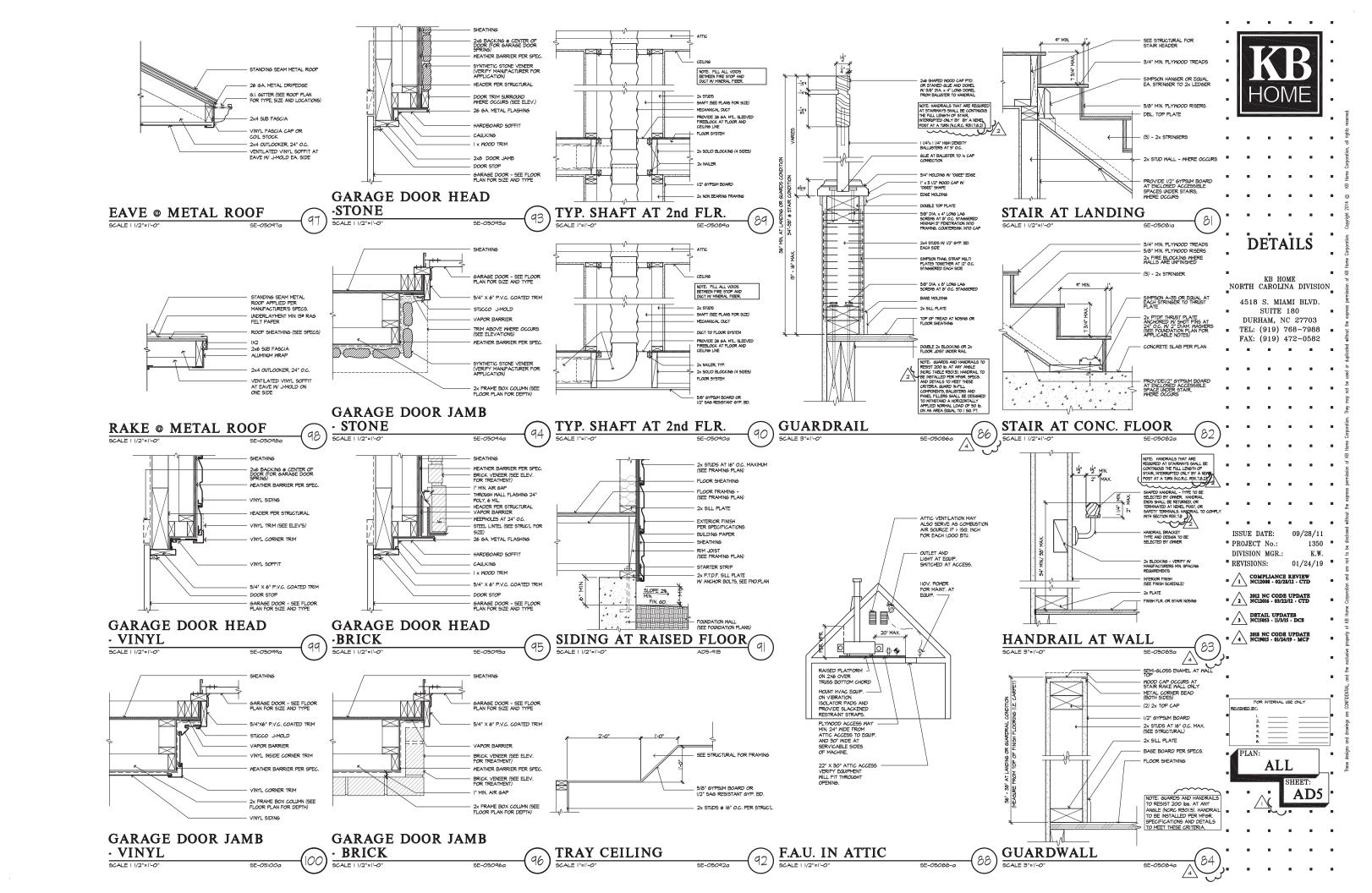


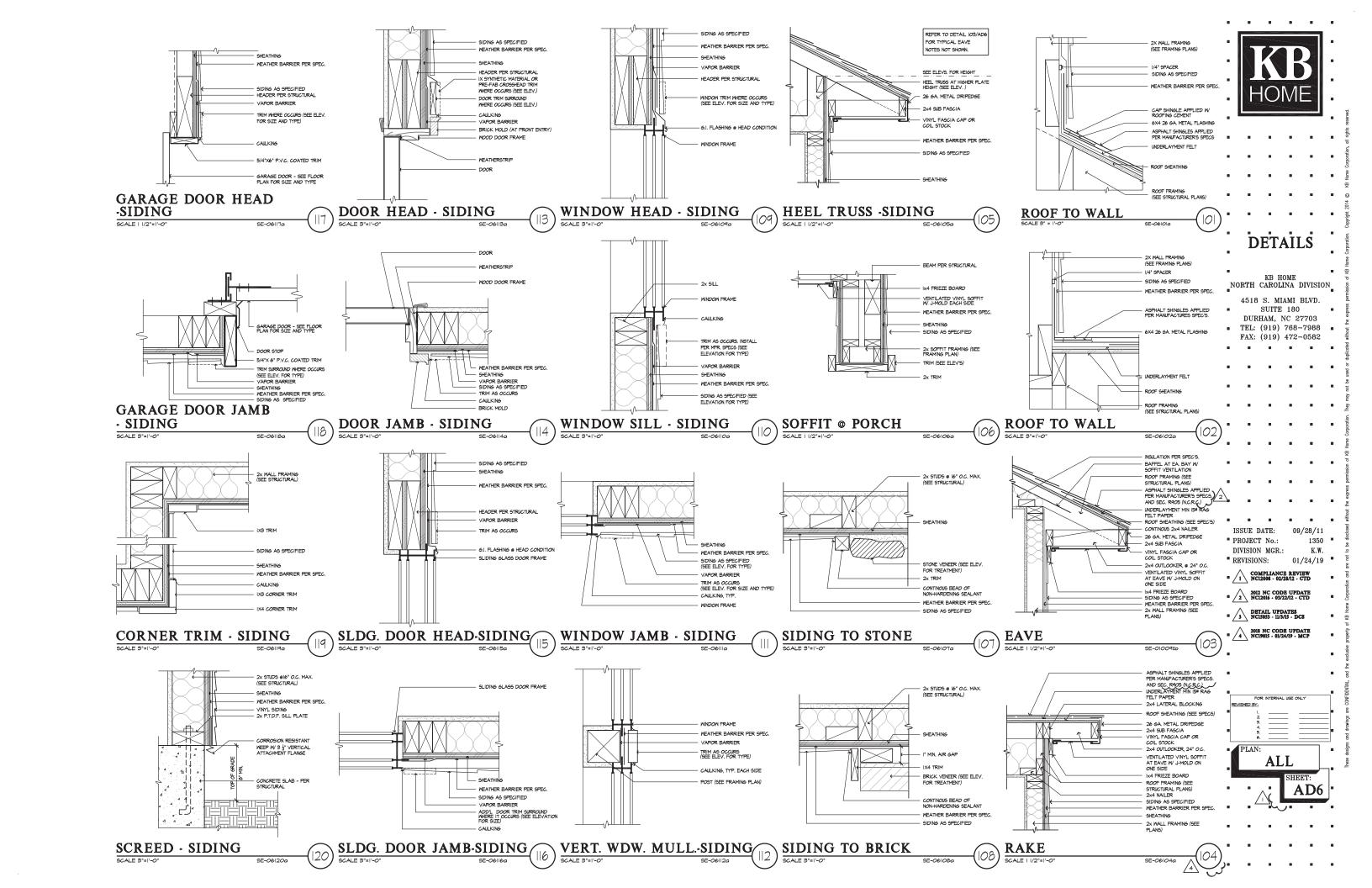


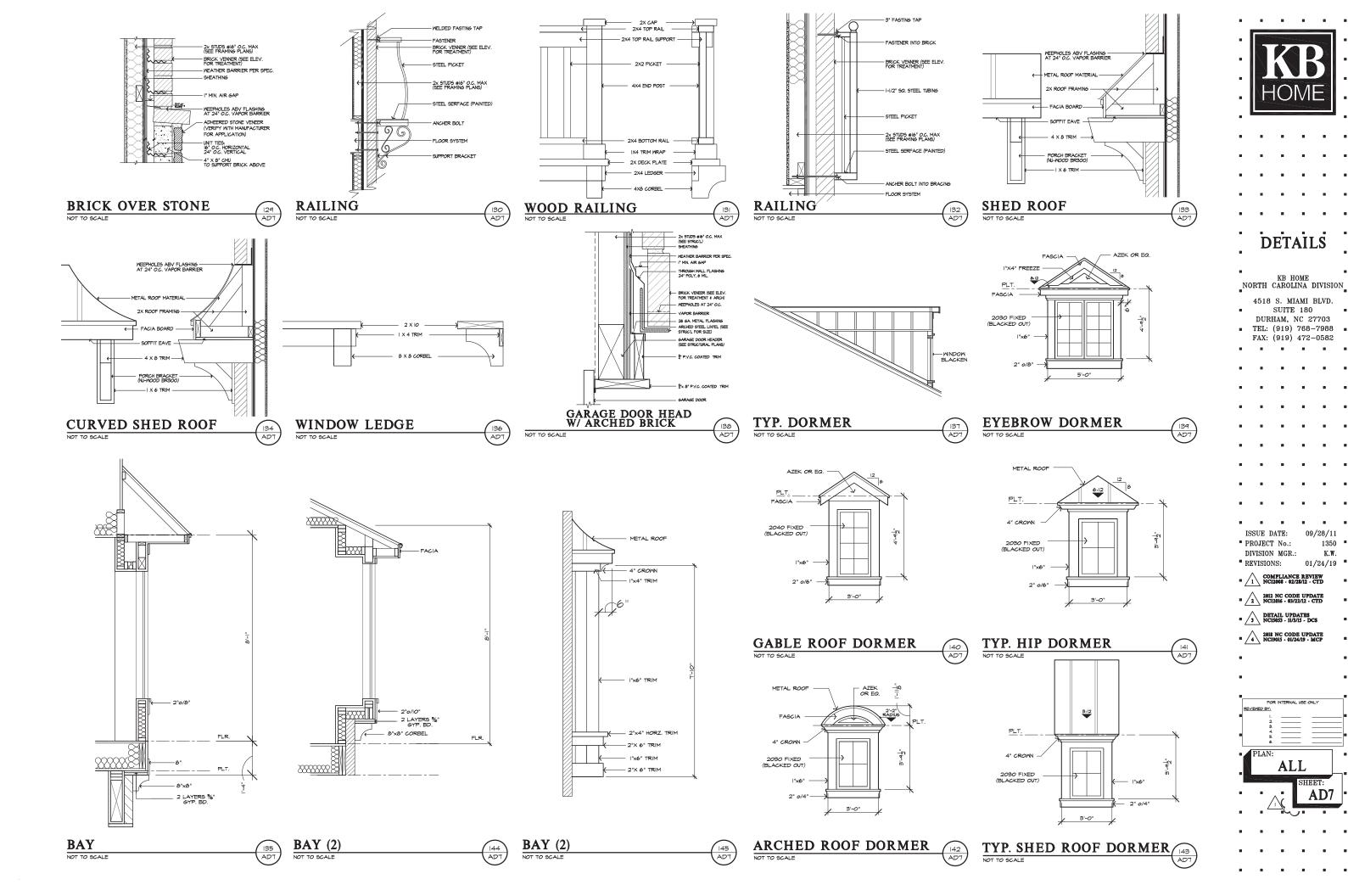












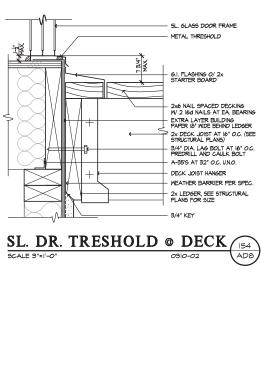
09/28/11

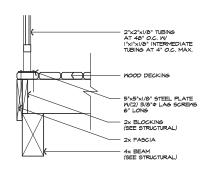
01/24/19

AD7

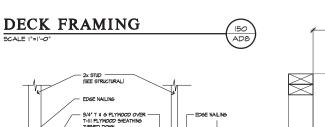
1350

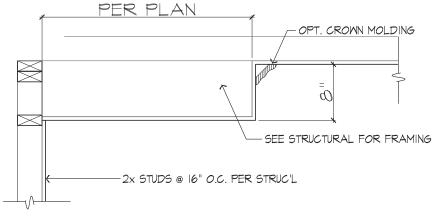
K.W.

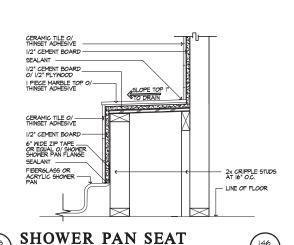


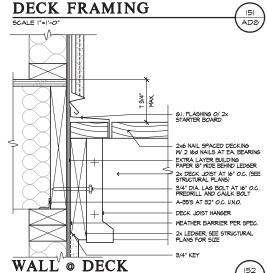






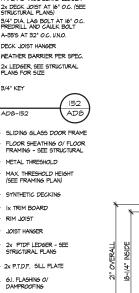






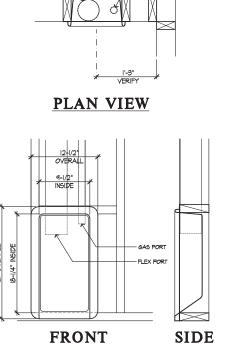
- 2x SOLID BLKG (SEE STRUCTURAL)

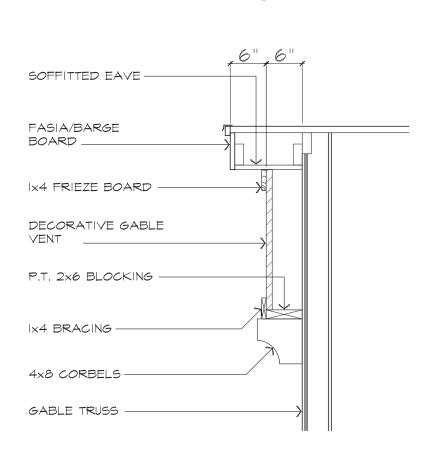
NOTE: 2x SOLID BLK'S TO HAVE (3)-2" DIA SCREENED VENT HOLES PER BLOCK M= 20pH (2)" 35" = 140 LB. FT. Y= 140 IbFT (12/65") = 250# 250#/IO5# = 3-16d NAILS TOTAL OF 6-16d NAILS.



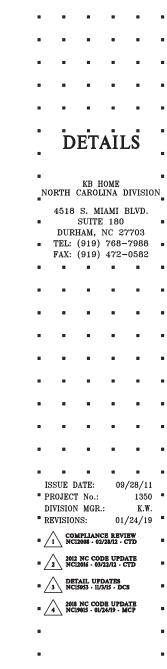
IX TRIM BOARD RIM JOIST JOIST HANGER

G.I. FLASHING O/ DAMPROOFING





148 AD8



ALL

SHEET:

AD8

SWING DOOR THRESHOLD

DRYER BOX DETAIL

BOX TRAY CEILING

FLEX PORT

GABLE VENT DETAIL NOT TO SCALE