

PARTIAL FLOOR, SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'A' IO'XIO' COVERED PATIO 8.A2 PARTIAL FLOOR, SLAB PLAN, & ROOF W REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'A' IO'X21' EXTENDED COVERED PATIO 8.A3 PARTIAL FLOOR, SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'A' IO'XIO' COVERED SCREENED PATIO PARTIAL FLOOR, SLAB PLAN, & ROOF W REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'A' 10'X21' EXTENDED COVERED SCREENED PATIO PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'A' AT SCREENED-IN PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'A' AT SCREENED-IN

PARTIAL FLOOR, SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN & 10'10'X0' COVERED PATIO PARTIAL FLOOR SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN & 10'10'X2' EXTENDED COVERED PATIO PARTIAL FLOOR SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN & 10'10'X0' COVERED SCREENED PATIO PARTIAL FLOOR SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN & 10'10'X0' COVERED SCREENED PATIO AT FLOOR PLAN & 10'10'X2' EXTENDED COVERED SCREENED PATIO PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'B' AT SCREENED-IN PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'B' AT SCREENED-IN

PARTIAL FLOOR, SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'C' IO'XIO' COVERED PATIO 8.C2 PARTIAL FLOOR, SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'C' IO'X2I' EXTENDED COVERED PATIO 8.C3 PARTIAL FLOOR, SLAB PLAN, & ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'C' 10'X10' COVERED SCREENED PATIO PARTIAL FLOOR, SLAB PLAN,4 ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'C' 10'x21' EXTENDED COVERED SCREENED PATIO 6.05 PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'C' AT SCREENED-IN

PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'C' AT SCREENED-IN

 BARTIAL FLOOR, SLAB PLAN& ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN ID' IO'NIO' COVERED PATIO
 PARTIAL FLOOR, SLAB PLAN& ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN ID' IO'N2I' EXTENDED COVERED PATIO
 PARTIAL FLOOR, SLAB PLAN& ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN ID' IO'NIO' COVERED SCREENED PATIO
 PARTIAL FLOOR, SLAB PLAN& ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN ID' IO'NIO' COVERED SCREENED PATIO
 PARTIAL FLOOR, SLAB PLAN& ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN ID' IO'NIO' COVERED SCREENED PATIO
 PARTIAL FLOOR PLAN ID' IO'N2I' EXTENDED COVERED SCREENED PATIO
 PARTIAL FLOOR PLAN ID' IO'N2I' EXTENDED COVERED SCREENED PATIO PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'D' AT SCREENED-IN

PARTIAL FLOOR PLAN, ELEVATIONS & SLAB INTERFACE PLAN 'D' AT SCREENED-IN

## CODE INFORMATION

<u>.</u>	CODE	ABBREVIATIONS
	N.CR.	NORTH CAROLINA RESIDENTIAL CODE
)	N.CB.	NORTH CAROLINA BUILDING CODE
)	N.CM.	NORTH CAROLINA MECHANICAL CODE
5.	N.CP.	NORTH CAROLINA PLUMBING CODE
	N.CF.	NORTH CAROLINA FUEL GAS CODE
<u>+ \</u>	N.CE.	NORTH CAROLINA ELECTRICAL
	N.C-E.C.	NORTH CAROLINA ENERGY CODE
	N.E.C.	NATIONAL ELECTRICAL CODE
	I.C.B.O.	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
<u>0N:</u>	A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
CHED NTION	N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
	A.N.S.I.	AMERICAN NATIONAL STANDARDS
	I.E.C.C.	INTERNATIONAL ENERGY CONSERVATION CODE
	I.C.C.	INTERNATIONAL CODE COUNCIL
	UL.	UNDERWRITERS LABORATORIES, INC.
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## **REVISION LIST**

EVISED	LOG NUMBER
.4, 2.5, 3.A3, 3.A4, 3.B4, 3.B5, 3.C4, 3.C5, 3.D4, 3.D5, 4.3,	NCI8024NCP
5, 8.A6, 8.B5, 8.B6, 8.B5, 8.C5, 8.C6, 8.D5, 8.D6	
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6, 8.Cl - 8.C6, 8.Dl - 8.D6	NCIGOISNCP
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## GENERAL REQUIREMENTS

- THE WORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM.
- CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS:
  - ALL LAWS, STATUTES, THE MOST RECENT BUILDING CODES, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF A FUBLIC AUTHORITIES HAVING JURISDICTION OYTER OWNER, CON-TRACTOR, ANY SUBCONTRACTOR, THE PROJECT, THE PROJECT SITE, THE WORK, OR THE PROSECUTION OF THE WORK.
  - THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING TO SAFETY.
  - THE FAIR HOUSING AMENDMENTS ACT, THE AMERICANS WITH DISA-BILITIES ACT, AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING THERETO.
- CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION DOCUMENTS AND INFORMATION FURNISHED BY OWNER, AND SHALL PROMPTLY REPORT IN WRITING TO OWNER'S REPRESENTATIVE ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONSTRUCTION DOCU-MENTS OR INCONSISTENCIES WITH APPLICABLE CODE REQUIREMENTS OBSERVED BY THE CONTRACTOR.
- IF CONTRACTOR PERFORMS WORK WHICH HE KNOWS OR SHOULD KNOW IS IF CONTRACTOR HERFORMS WORK WHICH HE KNONG OK SHOULD KNOW IS CONTRARY TO APPLICABLE CODE REQUIREMENTS, WITHOUT THE ASREEME OF ONNER, CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH WORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, WITHOUT LIMITATION, TH 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 NFORMATION 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 7. IF CONTRACTOR SHALL FROM ILL NOTIFIE OWERS ALTRESENTATION IF CONTRACTOR BECOMES AWARE DURING THE PERFORMANCE OF THE WORK THAT THE CONSTRUCTION DOCUMENTS ARE NOT IN COM-PLIANCE WITH APPLICABLE CODE REQUIREMENTS.
- 8. 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.
- SUB-CONTRACTORS SHALL INSURE THAT ALL WORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS ON TEMS DAMAGED BY SUB-CONTRACTOR'S PERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREY NOTIFIED THAT THEY ARE TO CONTRACTORS AND SUPPLIERS FULLY WITH EACH OTHER DURING THE CORSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S MORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUB-CONTRACTOR WORKMANSHIP SHALL BE OF CAULITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ADOVE MENTIONED INSPECTORS MAY INSPECT MORKMANSHIP AT ANY TIME, AND CORECTORS INSPECTORS OF HISHECT HORKMANSHIP AT ANY TIME, AND CORECITIES INSPECTORS OF HISHECT HE GUALITY OF BUILDING WILL BE ORNE INSPECTORS MAY INSPECT MORKMANSHIP AT ANY TIME, AND CORECITIES INSPECTORS OF HISHECT HORKMANSHIP AT ANY TIME, AND CORECITIES INSPECTORS OF HISHES SUB-CONTRACT ARGEMENT, SHALL BE REPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEDRIS NOT LETT BY OTHER SUB-CONTRACTORS. BUILDER WILL DERESTINGEN HAY TRASH AND DEBRIS WILL BE REMOVED FROM THE JOB SITE ALL TRASH AND DEDRIS HAY THAN THE OTHER SUB-CONTRACTORS. BUILDER WILL DETERMINE HOW SOON AFTER SUB-CONTRACTORS COMPLETES EACH FHASE OF HIS WORK THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE. SUB-CONTRACTORS SHALL INSURE THAT ALL WORK IS DONE IN A
- APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR 10. ALLOWABLE 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.
- ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THESE PLANS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY OWNER UNLESS STIPULATED OTHERWISE.
- ALL TRADE NAMES AND BRAND NAMES CONTAINED HEREIN ESTABLISH QUALITY STANDARDS, SUBSTITUTIONS ARE PERMITTED, WITH PRIOR APPROVAL BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECTS AND BUILDER'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED. 12.
- 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 FRIOR TO THE ISUANCI OF THE FINAL CONSTRUCTION SET WHICH WILL CONTAIN NO "BID SET" DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ARE NOT TO BE CONSTRUCT AS DEIMO THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH.
- ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS NOTED OTHERWISE.
- TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
- SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAMINGS FOR PITS, ITENCHES, ROOF OPENINGS, DEPRESSIONS, ETC. NOT SHOWN ON THE OTHER DRAWINGS.
- 18. THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED ON OTHER WORK.

## SITE WORK

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- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., AND BURIED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES ANY SUCH ITEMS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATEL
- 2. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT AD IACENT 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 WIDTH, LENGTH, AND DEPTH REQUIRED AND FINISHED WITH LEVEL BOTTOMS
- EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER
- WHERE EXCAVATIONS ARE MADE TO A DEPTH GREATER THAN INDICATED, SUCH ADDITIONAL DEPTH SHALL BE FILLED WITH CONCRETE AS SPECIFIED FOR FOOTINGS.
- FILL MATERIALS SHALL BE FREE FROM DEBRIS, VEGETABLE MATTER AND OTHER FOREIGN SUBSTANCES. 10.
- 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. 1.4
- 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

З.

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRETE FOUNDATIONS.
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE 2 COMPRESSIVE STRENGTH AS PRESCRIBED IN THE N.C.-R, AS WELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R
- MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318, SECTION 5.8
- THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI 318. SECTION 5.10.
- THE CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH 5. ACI 318. SECTION 5.1
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 318, SECTION 6.3, ARE PERMITTED TO BE EMPEDDED IN CONCRETE WITH APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL.
- CONSTRUCTION JOINTS INCLUDING THEIR LOCATION SHALL COMPLY WITH THE PROVISIONS OF ACI 318, SECTION 6.4.
- ALL STEEL REINFORCING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE N.C.-R
- TOP OF CONCRETE SLABS TO BE A MINIMUM 4" W/ MASONRY VENEER 6" ELSEWHERE (8" H.J.D.) ABOVE FINISH GRADE. 10.
- FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- 12. ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS ALL REINFORCEMENT, CONDUCT, DUILE I SOUCES, ANOHORS, HANGERS, SLEEVES, BOLTS OR OTHER EMEEDDED MATERIALS AND ITHEM MUST BE SECURED AND APPROPRIATELY FASTENED IN THEIR PROPER LOCATIONS PRIOR TO THE FLACEMENT OF CONCRETE. SUB-CONTRACTOR SHALL VERIEY INSTALLATION OF HOLD-DOWNS, ANCHOR BOLTS, PA STRAPS, AND OTHER ANCHORAGE MATERIAL AND ITEMS PRIOR TO PLACEMENT OF CONCRETE.
- POST-TENSION SLABS, IF APPLICABLE 13.
- POINT AND LINE LOADS FROM STRUCTURE ABOVE TO BE PROVIDED TO POST-TENSION ENGINEER PRIOR TO POST-TENSION DESIGN.
- ANCHOR BOLTS AND OTHER HARDWARE TO BE SHOWN ON POST-TENSION PLANS TO AVOID MIS-LOCATION OF HARDWARE AND POSSIBLE FIELD FIXES WHICH MAY CUT TENDONS.

## MASONRY

- ALL MASONRY DESIGN SHALL FOLLOW THE REQUIREMENTS OF THE CURRENT ADOPTED CODES.
- ANCHORED MASONRY VENEER SHALL COMPLY WITH THE PROVISIONS OF N.C.-R, AND SECTIONS 6.1 AND 6.2 OF ACI 530/ASCE 5/TMS 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
- MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C 270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH THE N.C.-R AND SHALL MEET THE PROPORTION SPECIFICATIONS OR THE PROPERTY SPECIFICATIONS OF ASTM C 270
- GROUT SHALL CONSIST OF FIBER CEMENT MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C 476 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) MORTAR) AND C-404-07 (GROUT).
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO A.S.T.M. C 150
- 8. ALL BRICK SHALL CONFORM TO A.S.T.M. C 216, GRADE MW
- UNLESS SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID
- IO. ANCHORS, TIES AND WIRE FABRIC SHALL CONFORM TO N.C.-R.
- ANCHOR TIES AND WIRE FABRIC FOR USE IN MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE N.C.-R.

## METALS

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATIONS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO AISC/CREE 2.
- 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 BHALL BE SUFFICIENT TO FULLY ENSAGE THE THREADS OF THE NTS, BUT SHALL NOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS
- FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED MOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILCON BRONZE OR COPPERY VERIFY ACCEPTABLE FASTENERS FER CHEMICALS USED IN PRESSURE PRESERVITIVELY TREATED MOOD W N.C.-R. FASTENINGS FOR WOOD FOUNDATIONS SHALL BE AS REQUIRED IN AF&PA TECHNICAL REPORT NO. T.

## WOOD & FRAMING

### LUMBER

- THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME MODD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R
- CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE RSO2.1.
- ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R з.
- LIMBER AND PLYMOOD REQUIRED TO BE PRESEIVE PRESERVATIVELY TREATED IN ACCORDANCE WITH THE N.C.R. AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER Indianalis Continuing Sorout and That has been approved by an acception of the sorout and that has been approved by an acceptitation body that complexe with the requirements of the American lumber standard committee treated mood program.
- 5. ALL LUMBER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS SPECIFICALLY INDICATED AS NET SIZE.

### GLUE LAMINATED LUMBER

1.

- REFER TO THE STRUCTURAL ENGINEER'S CURRENT NOTES. CALCULATIONS AND SPECIFICATIONS
- 2. GLUED LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN AITC AI90.1 AND ASTM D 3737.

### PROTECTION AGAINST DECAY & TERMITE

- IN AREAS SUBJECT TO DECAY DAMAGE AS ESTABLISHED BY THE N.C.-R THE FOLLOWING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AWPA UI FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE, PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA UI
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN 18 INCHES, OR WOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAVIL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
- ALL EXTERIOR SILLS & PLATES THAT REST ON CONCRETE OR MASONRY 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.
- WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOPS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOPS BY ANIMPERVIOUS MOISTURE BARRIER.
- MOOD FURRING STRIPS OR OTHER MOOD FRAMING MEMBERS ATTACHED 2. DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING S. STRIPS OR FRAMING MEMBERS.
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POSTS, GUARDRALES, PICKETS, STEPS AND PLOOR STRUCTURE. COVENINGS THAT NOULD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS ARE ALLOWED.
- З. IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

## WOOD & FRAMING (continued)

## GUEATHIN/

FLOOR FRAMING

ROOF FRAMING

MALL FRAMING

2.

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE N.C.-R
- ROOF SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- ROOF SHEATHING SHALL BE IN ACCORDANCE WITH THE N.C.-R
- FLOOR SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- STRUCTURAL FLOOR SHEATHING SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R

REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS, AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR PLYNCOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS.

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.

IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING <u>HARD BOARD</u> 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, 23/32 INCH NOOD SHEATHING OR 5/8 INCH GYPSUM BOARD, VENTING REQUIREMENTS APPLY TO BOTH SOFFIT AND UNDERLAYMENT AND SHALL BE PER SECTION REGO OF THE NORTH CAROLINA RESIDENTIAL CODE. WHERE THE REPORERTY LINE IS IO FEET OR MORE FROM THE BUILDING FACE, THE PROVISIONS OF THIS CODE SECTION DO NOT APPLY.

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

REFER TO THE STRUCTURAL EXEMPLE SOURCENT FLAND & DAUGUER FOR SIZE, SPACING, AND ANCHORAGE OF ALL FLOOR BLAND AND HEADERS; AND ALL RELATED FRAMING ISSUES.

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 DRAVINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), VOLIME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION.

TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERNISE ALITERED IN ANY MAY MITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALITERATIONS RESULTING IN THE ADDITION OF LOAD (E.G. HVAC EQUIPMENT, WATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSSES SHALL NOT BE PREMITED 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

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 INTERSECTION WITH BEARING PARTITIONS. END JOINTS IN TOP PLATES SHALL BE OFFEET AT LEAST 24 INCHES. JOINTS NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES WOMINAL 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.

INTERIOR NONREARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED INTERIOR NONBERAVING MALLS SHALL BE PERMITTED TO BE CONSTRUCTE WITH 2-INCH-BY-3-INCH STUDS SPACED 24 INCHES ON CENTER OR, WHEN NOT A PART OF A BRACED WALL LINE, 2-INCH-BY-4-INCH FLAT STUDS SPACED 16 INCHES ON CENTER, INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE. INTERIOR NONBEARING W

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.

SHALL BE EIRERLOCKED IN ACCORDANCE WITH THE N.C.-R

THE BRACING OF WOOD TRUSSES SHALL COMPLY TO THEIR APPROPRIATE ENGINEERED DESIGN, PER THE N.C.-R

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 MINIMM OF 11/21 INCH THICKNESS.

## WOOD & FRAMING

## (continued)

DRILLING AND NOTHCING OF STUDS SHALL BE IN ACCORDANCE WITH THE

- NOTICING, ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE OUT OR NOTICHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS MUDTH, STUDS IN NOHEEXANING FANT OR SHATE BE NOTICHED NOTICHED TO AND AND AND AND AND AND AND AND NOTICHES IN DEPENDENT OF A BLOED ON NOT NOTICHES IN DEPENDENT OF A BLOED ON AND AND SHALL NOT OCCUR IN THE BOTTOM OR TOP 6 INCHES OF BEARING STUDS.
- DRILLING, ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO MORE THAN 60 PERCENT OF THE STUD MIDTH, THE EDGE OF THE HOLE IS NO MORE THAN 560" INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOSER THAN 6 INCHES FROM AN ADJACENT HOLE OR NOTCH. HOLES NOT EXCEEDING 3/4 INCH DIAMETER CAN BE AS CLOSE AS I //2 INCHES ON CENTER SPACING, STUDS LOCATED IN EXTERIOR WALLS OR BEARING PARTITIONS DRILLED OVER 40 PERCENT AND UP TO 60 PERCENT SHALL ALSO BE DOUBLED WITH NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS BORED.
- CUITTING AND NOTCHING OF STUDS SHALL BE PERMITTED TO BE INCREASED TO 65 PERCENT OF THE WIDTH OF THE STUD IN EXTERIOR AND INTERIOR NALLS 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 PURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT. (b) THE SECTION THAT HAS BEEN NOTCHED OR CUT. (c) THE SECTION THAT HAS DEEN NOTCHED OR CUT. (c) THE SECTION THAT HAS DEEN NOTCHED OR CUT. (c) THE SECTION THAT HAS DEEN NOTCHED OR CUT. (c) THE SECTION CONTEXTONE THE PROPORCED 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 CONTEXTON FLIGHT AND AT LEAST ONE STUD FURCHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT. з. OTCHED OR CUT
- WHEN PIPING OR DUCTWORK 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 GALVANIZED METAL TIE OF NOT LESS THAN 0.054 INCH THICK AND I 1/2 INCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH INCIDES THE BARLEDEL TREATER AND AND A THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT IOD AND THE HAVING A MINIMUM LENGTH OF I 1/2 INCHES (38 MM) AT EACH SIDE OR EQUIVALENT. THE METAL THE METAL THE MOTE ALTERNOS
- HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-R
- PROVIDE LATERAL BRACING PER THE N.C.-R
- FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE N.C.-R CODE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- 15. UNLESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR WILED COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMUM REQUIREMENTS OF THIG CODE, ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS RATIO EXCEEDING 50 SHALL HAVE BRIDGING NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FINTED SNULLY AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

### FIRE BLOCKS AND DRAFT STOPS

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TIONS

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 MOOD-FRAME CONSTRUCTION IN THE LOCATIONS SPECIFIED IN THE N.C.-R

FIRE BLOCKING SHALL CONSIST OF 2 INCHES NOMINAL LUMBER, OR TWO TITLE DUCCTINE SHALL CORDIST OF 2 INCHES NOMINAL LUMBER, OR TWO THICKNESSES OF I-INCH NOMINAL LUMBER WITH BOKEIN LAP JOINTS, OR ONE THICKNESS OF 23/32-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 23/32-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD, I/2-INCH GYPSOM BOARD, OR I/4-INCH CEMENT-BASED WILL POARD, 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.

BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE IC FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROMO OF STUDS OR STAGERED 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 ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.

WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET, DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INT APPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOM, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDE THE FOLLOWING CIRCUMSTANCES. ASSEMBLIES UNDER

- I. CEILING IS SUSPENDED UNDER THE FLOOR FRAMING.
- 2. 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

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## THERMAL & MOISTURE

## PROTECTION

- PROVIDE ALL FLASHING, COUNTER-FLASHING, BITUTHENE, MEMBRANE WATERPROOFING, SHEET METAL, CAULKING, SEALANTS, ELASTOMERIC MALKING SURFACES, AND RAIN GUTTERS 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.
- BALCONIES, LANDINGS, EXTERIOR STAIRWAYS, OCCUPIED ROOFS AND SIMILAR SURFACES EXPOSED TO THE NEATHER AND SEALED UNDER-NEATH SHALL BE WATERPROOFED AND SLOPED A MINIMUM OF 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE) FOR DRAINAGE.
- 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 MANUFACTRER'S SPECIFICATIONS AT DECKS AND BALCONES. COLOR, FINSH, AND DETAILING SHALL BE APPROVED BY OWNER/ BUILDER AND ARCHITECT.
- UNLESS DESIGNED TO DRAIN OVER DECK EDGES, DRAINS AND OVERFLOWS OF ADEQUATE SIZE SHALL BE INSTALLED AT THE LOW POINTS OF THE DECK OR BALCONY.
- FOUNDATION WALLS WHERE THE OUTSIDE GRADE IS HIGHER THAN THE INSIDE GRADE SHALL BE WATER-PROOFED AND DAMPPROOFED IN ACCORDANCE WITH THE N.C.-R
- PARAPET WALLS SHALL BE PROPERLY COPED WITH NONCOMBUSTIBLE, WEATHERPROOF MATERIALS OF A WIDTH 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 MANRER TO PREVENT ENTRY OF MATER INTO THE MALL 12. CAVITY OR PENETRATION OF MATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS, SELF-ADMERED MEMBRANES USED AS FLASHING HALL COMPAY NITH AMA TIL, FLUD-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY NITH AMA TIL THE FLASHING SHALL EXTERIOR WALLS SHALL COMPLY INTH AMA TH. THE FLASHING SHALL EXTERIOR WALLS SHALL COMPLY THE EXTERIOR WALL FINISH, ALUMINM FLASHING SHALL BOY BE USED IN CONTACT WITH HERE CREMENT MATERIAL, EXCEPT AT CONTRE FLASHING, APPROVED CORROSION-RESISTANT FLASHINGS SHALL EXCEPT AT IN 12 WITS HORIZONTAL (2-1/2:12) TO FOUR WITS VERTICAL IN 12 WITS HORIZONTAL (2-1/2:12) TO FOUR WITS VERTICAL IN 12 WITS HORIZONTAL (2-1/2:12) TO FOUR WITS VERTICAL IN 12 WITS HORIZONTAL (2-1/2:12) TO FOUR WITS VERTICAL IN 12 WITS HORIZONTAL (2-1/2:12) TO FOUR WITS VERTICAL IN 12 WITS HORIZONTAL (2-1/2:12) TO FOUR WITS VERTICAL NSTALLED AT ALL OF THE LOCATIONS STATED IN N.C.-
- 2. AT ALL WINDOW AND DOOR OPENINGS USE FORTIFIBER WATER-RESISTIVE BARRIERS, I.C.C. ESR-1027, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR WALLS OR PENETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMUM O.OI9-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 (SMA.C.N.A), THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERPROOFING AND RESTORATION INSTITUTE'S (S.W.R.I.) GUIDE . SEALANT'S: THE PROFESSIONAL'S GUIDE".
- SHEET METAL SHALL BE STEEL SHEET, HOT-DIPPED, TIGHT COATED SALE INTERCENTION OF A STAR AND AND CALVANIZED, CONFORMING TO A STAR AS25 AND SHALL BE A NUMBER 24 SHEET METAL GASE UNLESS OTHERWISE NOTED IN THESE NOTES, PLANS, OR MANUFACTURER'S SPECIFICATIONS.
- SHEET ALUMINUM SHALL CONFORM WITH FEDERAL SPECIFICATIONS QQ-A-359 AND A.S.T.M. B209 ALLOY 3003.
- FABRICATE SHEET METAL WITH FLAT LOCK SEAMS AND SOLDER WITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SE ALLMINUM SEAMS WITH EPOXY METAL SEAM CEMENT. WHERE REQUIRED FOR STRENGTH, RIVET SEAMS AND JOINTS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY WATER-PROOF, WEATHER 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 WETAL OF MINIMUM NOMINAL OO/04-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF TT POUNDS PER IOS SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMUM NOMINAL OO/9-INCH THICKNESS
- VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING SHINGLES, VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED AS STATED PER THE N.C.-R
- A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASURED PERFENDICULAR 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 SIDEWALL SHALL BE BY THE STEP-FLASHING METHOD PER NC-R.
- FLASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACK 14 SHALL BE APPLIED ACCORDING ENT PIPE AND CHIMNEY FLASHING TO THE ASPHALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS
- 15. AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH TH THE N.C.-R AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WHERE OF METAL, SHALL NOT BE LESS THAN O.O.I. INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL
- 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 2. 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 SHIFMENTS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISQUED 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 REQUIREMENT 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 6751. SELF-ADHERING FOLTMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1970
- ASPHALT SHINGLES SHALL COMPLY WITH ASTM D 225 OR ASTM D 3462.
- FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS STEEL, ALUMINUM, OR COPPER ROOFING NAILS, MINIMUM 12 GASE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, ASTM F 1667, OF A LENSTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM OF 3/4 INCH INTO THE ROOF SHEATHING. WHERE THE ROOF SHEATHING 15 LESS THAN 3/4 INCH THICK, THE FASTENERS SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F 1667.
- ASPHALT SHINGLES SHALL HAVE THE MINIMUM NUMBER OF FASTENERS REQURED BY THE MANUFACTURER. FOR NORMAL APPLICATION, ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE PER N.C.-R.
- IO. UNDERLAYMENT FOR ASPHALT SHINGLES SHALL BE APPLIED IN 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 167.

SLOPES OF 2 1/2 UNITS VERTICAL IN 12 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 (4-12), DOUBLE UNDERLATMENT 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, 16. NALES DAALE BE COARSISTENT FLAG NOT LEAST HT OF ENERTIATE THE DECK SI/G-INCH HEAD, AND OF SUFFICIENT LENGTH TO PENETRATE THE DECK A MINIMUM OF 3/4-INCH OR THROUGH THE THICKNESS OF THE DECK MIICHDETE IS LESS. ATTACHING WIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SHALLER THAN 0 OBS-INCH. PERIMETER FASTENING AREAS INCLUDE THREE TILE COURSES BUT NOT LESS THAN 36 INCHOE FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R 17.
- TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION 18. INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROOF SLOPE, UNDERLAYMENT SYSTEM, AND TYPE OF TILE BEING 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 ROOPS 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

### EXTERIOR WALL COVERINGS

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- 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 INCLUDE FLASHING. THE EXTERIOR WALL ENVELOPE SHA BE DESIGNED AND CONSTRUCTED IN A MANKET THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENER 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, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES. THERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 2 INCHES. THE FELT OR OTHER APPROVED MATERIAL BHALL BE CONTINUOUS TO THE FOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTENSION WALL ENVELOPE. HE EXTERIOR WALL ENVELOP

- 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. NUC COMPLYING WITH ASTIN D 3674 SHALL BE PERMITTED ON LEVERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED SPECIFIED DOES NOT EXCEED IOO MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET 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 MUST BE SUBMITTED. FIBER CEMENT SIDIN SHALL BE SECURED TO BUILDING HEIGHTS AND IN EXCESS OF THE EXTERIOR WALLS OF THE BUILDING. FIBER CEMENT SIDING
- 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 MANUFACTURER'S INSTRUCTIONS
- 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 AI35,6 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 STRUCTIRAL 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 CIB6, TYPE A, MINIMUM GRADE II. LAP SIDING SHALL BE LAPPED A MINIMUM OF 11/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONGUE-AND-CROOVE END JOINTS SHALL HAVE THE ENDS SEALED WITH CAULKING, INSTALLED WITH AN H-SECTION JOINT COVER, LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY WITH NC-R, LAP SIDING COURSES MAY BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCELSED, ACCORDING TO NC-R OR APPROVED MANUFACTURERS' INSTALLATION INSTRUCTIONS.

### INSULATION

- INSULATING MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPER-PERVEABLE HOURRANES,INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, INALL-ASSEMBLIES, CRANL SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- DUCT INSULATION MATERIALS SHALL CONFORM TO THE FOLLOWING 2. UIREMENTS OF THE N.C.-R
- INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME-SFREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450. SEE EXCEPTIONS. з.
- ALL EXPOSED INSULATION MATERIALS INSTALLED ON ATTIC FLOORS SHALL HAVE A CRITICAL RADIANT FLUX OF NOT LESS THAN 0.12 WATT PER SQUARE 17. 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 5. 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 6. CFR. PARTS 1209 AND 1404. EACH PACKAGE OF SUCH INSULATI MATERIAL SHALL BE CLEARLY LABELED IN ACCORDANCE WITH CPSC 16 CFR, PARTS 1209 AND 1404.
- INSULATION IN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLES, MALLS, CRAWL SPACES OR ATTICS SHALL BE EITHER OF THE BLOWN-IN CELLULOSE TYPE OR FIBERCLASS 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 DETERVINED BY THE ADOPTED STATE AND LOCAL ENERGY CODE EQUIRENTS, REFER TO MECHANICAL PLANS FOR SPECIFICATIONS.
- THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED WITH AN AIR BARRIER SYSTEM TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. FOR ALL HOMES, WHERE PRESENT, THE FOLLOWING SHALL BE CAULKED, GRAKL HOMES, WHERE PRESENT, THE FOLLOWING SEALED WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL ON STATEMENT OF THE NORMAL AND AND AND AND AND SEALED WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT WITH APPENDIX E-23 AND E-24 OF THE NORMAL UNIT APPENDIX E-23 AND E-24 OF THE NORMAL UNIT APPENDIX E-23 AND E-24 OF THE NORMAL ON SOLID MATERIAL CONSISTENT WITH APPENDIX E-23 AND E-24 OF THE NORMAL KNEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE.
  2. CAPPING AND SEALING SHAFTS OR CHASES, INCLUDING FLUE

3. 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 WATCH OR AN AIR BARRIER MATERIAL, WALL INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSTALLE ON EVTERIOR WALLS BEING CONFERED BY SIBERCEINT. 10. NSTALLED ON EXTERIOR WALLS PRIOR TO BEING COVERED BY SUBSEC CONSTRUCTION, CONSISTENT WITH APPENDIX E-2.3 AND E-2.4 OF NC-R: TUBS

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I. TUBS 2. SHORERS 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 SOLLD WOOD DOORS NOT LESS THAN I 3% INCHES IN THICKINESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS 1 3/8 INCHES THICK, OR 20-MINUTE FIRE
- NO DOUBLE FRENCH DOORS SHALL BE USED UNLESS THERE IS A SUFFICIENT OVERHANG OR COVERED PATIO COVERING THESE DOORS, NO DOUBLE WOOD FRENCH DOORS SHALL BE USED IN ANY CASE.
- PROVIDE SECURITY HARDWARE FOR ALL DOORS AND WINDOWS 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 PRE-CAUTION TO PREVENT THE DOOR FROM CLOSING INHEN SOMETHING S BLOCKING THE PATH OF THE DOOR. SEE MANUFACTURER'S INSTALLTION INSTRUCTIONS
- ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL 6. MEET THE AIR INFILTRATION STANDARDS OF THE CURRENT AMERICAN FIBER CEMENT SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED INATIONAL STANDARDS INSTITUTE A.S.T.M. E283-73 WITH A PRESSURE DIFFERENTIAL OF 1.57 POUNDS PER SQUARE FOOT AND SHALL BE CERTIFIED AND LABELED
  - BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPENABLE EMERGENCY ESCAPE AND RESCUE OPENING
  - WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE PROVIDED 8. THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR
  - EMERGENCY ESCAPE AND RESCUE OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A WINDOW WELL

## DOORS & WINDOWS (continued)

- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF GROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.T SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW.
- L EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM  $\Gamma$  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, NITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. THE AREA OF THE WINDOW WELL SHALL ALLOW HERREPENCY ESCAPE AND RESCUE OFENING TO BE FULLY OFENED PERT THE N.G.-R THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6"
- 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 EMREGENCY ESCAPE AND RESCUE OPENNES, BULKHEAD ENCLOSURES, OR WINDOW WELLS THAT SERVE SUCH OPENNES, PROVIDED THE MINIMUM NET CLEAR OPENNES SUE COMPLES WITH THE NC.-R AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNONLEDE OR FORCE GREATER THAN THAT WICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING
- ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS The interval dataset double and a minimum of one exterior egges door shall be readule from the side from which egges is to be made without the use of a key or special knowledge or effort.

### GLAZING & SAFETY GLAZING

3.4

- 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 OCCUPANTS, THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.
- BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR 2. ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREAS II NINDONS 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 DEGIGNATION SPECIFYING MHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD WITH MHICH IT COMPLIES, MHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC-FIRED, LASER ETCHED, EMBOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BRING DEGREED. BEING DESTROYED.

INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN HAZARDOUS

THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:

SLIDING IN ALL TIALD AND DOORS SLIDING AND BIFOLD DOORS SLIDING IN AN INDIVIDUAL FUED OR OPERABLE PANEL IN THE SAME PLANE AS DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN 24-INCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN SO INCHES ABOVE THE FLOOR OR MALKING

3.1 EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQUARE

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 ABOVE 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

GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SWIMMING POOLS, HOT TUBS AND SPAS WHERE THE BOTTOM EDGE O THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 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 OF THE ADJACENT WALKING SURFACE.

SLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF STAIRWAYS NHERE 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.

CONSERVATION CODE

GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE

CALCULATIONS BASED ON A LOCALLY ADOPTED ENERGY CODE, THE MODEL ENERGY CODE OR THE INTERNATIONAL ENERGY

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

FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED, OPERABLE

SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW

ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR

LOCATED MORE THAN 12 INCHES (1829 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE

NINDOW SHALL BE A MINIMUM OF 24 INCHES (610 MM) ABOVE THE FINISHED

PASSAGE OF A 4 INCH (102 MM) DIAMETER SPHERE WHERE SUCH OPENINGS

VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.

GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

3.2 BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR

3.3 TOP EDGE MORE THAN 36 INCHES ABOVE THE FLOOR

LOCATIONS SHALL PASS THE TEST REQUIREMENTS OF CPSC 16 CFR, PART 1201. GLAZING SHALL COMPLY WITH CPSC 16.

## FINISHES

### GYPSUM BOARD

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 GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 475, C 514, C 1002, C 1041, C 117, C 1175, C 1279, C 1366, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE NC.-R ADMESIVES FOR THE INSTALLATION OF GYPSUM BOARD SHALL CONFORM TO ASTM C 557.

SYPSUM BOARD MATERIALS SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN THE N.C.-R WHERE REQUIRED FOR FIRE PROTECTION, CONFORM TO THE N.C.-R

INTERIOR GYPSUM BOARD SHALL NOT BE INSTALLED WHERE IT IS DIRECTLY EXPOSED TO THE WEATHER OR TO WATER.

ALL EDGES AND ENDS OF GYPSUM BOARD SHALL OCCUR ON THE FRAMING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERFENDICULAR TO THE FRAMING MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALL BE IN MODERATE CONTACT EXCEPT IN CON-CEALED 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 MATES OF VERTICAL ASSEMBLIES, OR THE EDGES AND ENDS OF HORIZONTAL ASSEMBLIES PERPENDICULAR 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 SITESIME DUALD USED AS THE EASE OF DUALDAR TO A ADTESTIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NON-ABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C 1996, C 1173 OR C1278, USE OF WATER-RESISTANT GYPESIM 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, OUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.

WATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY

WHEN APPLYING A WATER-BASED TEXTURE MATERIAL. THE MINIMUM MICH AFFLING AVAILARYSOLD LEAUNE MALENAL, THE MINIMUM GYPSUM BOARD THICKNESS SHALL BE INCREASED FROM 3/3 INCH TO 1/2 INCH FOR 16-INCH ON CENTER FRAMING OR 1/2 INCH SAG-RESISTANT GYPSUM CEILING BOARD SHALL BE USED.

### EXTERIOR LATH

ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION RESISTANT MATERIAL

BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION.

WHERE LATH ON VERTICAL SURFACES EXTENDS BETWEEN RAFTERS OR OTHER SIMILAR PROJECTING MEMBERS, SOLID BACKING SHALL BE INSTALLED TO PROVIDE SUPPORT FOR LATH AND ATTACHMENTS.

SYPSUM 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 FASTENED PER THE N.C.-R. OR WITH OTHER APPROVED ALLMINUM, STAINLESS STEEL, ZINC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, WHERE THE BASIC NIND 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 0.014-INCH (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL. ATTACHMENT FLANGE OF 31/2 (INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C 920: THE HEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE 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 WEEP SCREED. A MINIMUM O.019-INCH (NO. 26 GALVANIZED SHEET GAGE),

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PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE LATH AND SHAL BE NOT LESS THAN TWO COATS WHEN APPLIED OVER MASONRY, CONCRET PRESSURE-PRESERVATIVE TREATED WOOD OR DECAY-RESISTANT WOOD O GYTSUM BACKING, IF THE PLASTER SWRFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING WATERIAL OR IS COMPLETELY COVERED BY VENEER OR OTHER FACING WATERIAL 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 FLASTER SHALL BE APPLIED TO COVER, BUT NOT EXTEND BELOW LATH, PAPER AND SCREED.

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

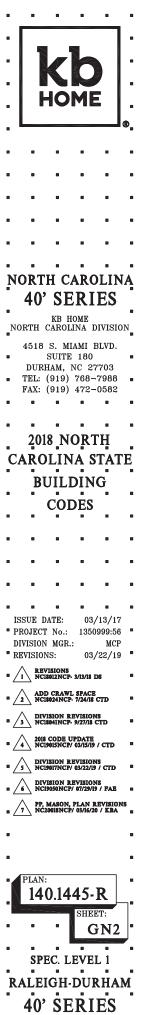
ONLY APPROVED PLASTICITY AGENTS AND APPROVE AMOUNTS THEREOF MAY BE ADDED TO PORTLAND CEMENT. WHEN PLASTIC CEMENT IS USED, NO ADDITIONAL LINE OR PLASTICIZERS SHALL BE ADDED. HYDRATED LIME OR THE EQUIVALENT AMOUNT OF LINE FUTTY USED & A PLASTICIZER MAY BE ADDED TO CEMENT PLASTER FULASTIC OR CEMENT AND LIME PLASTER IN AN AMOUNT NOT TO EXCEED SET FORTH IN ASTM C 926

GYPSUM PLASTER SHALL NOT BE USED ON EXTERIOR SURFACES

PLASTER COATS SHALL BE PROTECTED FROM FREEZING FOR A PERIOD OF NOT LESS THAN 24 HOURS AFTER SET HAS OCCURRED PLASTER SHALL BE APPLIED WHEN THE AMBIENT TEMPERATURE IS HIGHER THAN 40 DEGREES F (4 DEGREES C), UNLESS PROVISIONS ARE MADE TO KEEP CEMENT PLASTER WORK ABOVE 40 DEGREES (4 DEGREES C), PRIOR TO & DURING APPLICATION AND 48 HOURS HEREAFTER

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 PLASTER SYSTEM



## MECHANICAL & PLUMBING

### H.V.A.C

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE NORTH CAROLINA RESIDENTIAL AND MECHANICAL CODE. INSTALLATIONS OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY MITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL GAS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.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 (13 C) OR UP TO 85 DEG. F (24 C).
- 5. ALL DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF THE
- 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. 7.
- 8. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE PER N.C.-R
- 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.
- 10. 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 CRARL STACE SUPPORTS, IN A CRARL STADE, A MINIMUM OF 2410 THICK SOLID BASE, 2-1004 (SI MN) THICK FORMED CONCETE, OR STACKED MASONRY WITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD. THE MATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2 INCHES ABOVE GRADE.
- 12. DRAINAGE. BELOW-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REQUIREMENTS REFER TO N.C.-M

### VENTING

- IN LIEU OF REQUIRED EXTERIOR OPENINGS FOR NATURAL VENTILATION IN LIEU OF REQUIRED EXTENSOR OFENNES FOR NATURAL VENTILATION IN BATHROOMS CONTAINING A BATHUR, SHORER OR COMBINATION THEREOF, A MECHANICAL VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMW VENTILATION RATES SHALL BE SO COM FOR INTERMITTENT VENTILATION OR 20 CFM FOR CONTINUOUS VENTILATION, VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE FER NO.-R
- 2. EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS.
- RANGE HOODS SHALL DISCHARGE TO THE OUTDOORS THROUGH A DUCT. THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE, SHALL BE AIR TIGHT, SHALL BE EQUIPPED WITH A BACK-DRAFT DAMPER AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS, DUCTS SERVING RANGE HOODS SHALL NOT TERMINATE IN AN ATTIC OR CRAML SPACE OR AREAS INSIDE THE BUILDING, DUCTS SERVING RANGE HOODS SHALL BE CONSTRUCTED OF GALVANIZED STEEL, STAINLESS STEEL OR
- WHERE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND WHERE MECHANICAL OR NATURAL VEINTLATION 19 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 WITH DOWN DRAFT EXHAUST SYSTEMS SHALL BE PERMITTED TO BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE PROVIDED THAT TH INSTALLATION 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. В.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE THE INDOOR CONCRETE FLOOR SURFACE. c.
- D. THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE GRADE OUTSIDE THE BUILDING.
- E. 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 TEN MINUL SUCCESSIVE AND SHALL BE LAUTOMATICALLY CONTROLLED TO MEANS OF CLOSHRE 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 MANUFACTURERS'I INSTALLATION INSTRUCTIONS, SHALL BE VENTED TO THE OUTSIDE AIR BY A TYPE B' VENT AND COMPLY WITH THE REQUIREMENTS OF THE N.C.-M

### PLUMBING

- I. A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN SUCH A MANNER SO AS TO PREVEN AND THAININATION FROM NONPOTABLE LIQUIDS, SOLIDS OR GASES BEING INTRODUCED INTO THE POTABLE NATER 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 AU2.18.1.

## MECHANICAL &

## PLUMBING (continued)

8.

- ALL DEVICES, APPLICTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTIL-LATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODED, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION ASAINES BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM, WATER FUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION.
- WATER SERVICE PIPING SHALL BE PROTECTED IN ACCORDANCE WITH N.C.-P SECTIONS AND EXCEPTIONS)
- FIXTURE FITTINGS, FALCETS AND DIVERTERS SHALL BE CONNECTED TO THE WATER DISTRIBUTION SYSTEM SO THAT HOT WATER CORRESPONDS TO THE LETT SIDE OF THE FITTINGS.
- DIVERTERS FOR SINK FAUCETS WITH A SECONDARY OUTLET CONSISTING OF A FLEXIBLE HOSE AND SPRAY ASSEMBLY SHALL CONFORM TO ASTM AI2.10.11 N ADDITION TO THE REQUIREMENTS IN N.C.-P
- THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE SHALL BE FROHIBITED IN SOIL AND GROUND WATER THAT IS CONTAMINATED. GROUND WATER CONDITIONS SHALL BE REQUIRED TO ACCERTAIN THE ACCEPTABULITY OF THE WATER REVICE OR WATER DISTRIBUTION PIPING MATERIAL FOR THE SPECIFIC INSTALLATION. WHERE DETRIMENTAL CONDITIONS EXIST, APPROVED ALTERNATIVE MATERIALS OR ROUTING SHALL BE REQUIRED.
- WATER DISTRIBUTION PIPE SHALL CONFORM TO NOF & AND SHALL AN LEAD DISTRIBUTION FILE STANDARDS LISTED IN NO.-PUMBING. ALL CONFORM TO ONE OF THE STANDARDS LISTED IN NO.-PUMBING. ALL WATER DISTRIBUTION FIFE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 160 DESREES F.
- PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR ٩. THE RARGENE THACEN DURACELE AND ENDER AND THE OWNERS AND THEORED AND THE CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT MILL WITHSTAND ANY REACTION FROM THE LINE 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
- 10. PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM PHYSICAL DAMAGE PER NC-R.
- PIPING SHALL BE INSTALLED SO AS TO PREVENT DETRIMENTAL STRAINS FILING STALL BE INSTALLED SO AS INFRAVENT DE INMINERATION TRAINS AND STREESES IN THE PIPE. PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL STRESSES OR STRAINS WITHIN BUILDING COMPONENTS.
- WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION, IN OTHER CASES, WATER, SOLL AND NASTE PIESE SHALL NOT BE INSTALLED OUTSIDE OF A BUILDING, IN WACANDITIONED ATTICS, INCONDITIONED UTILITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING TEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A WINNIMM OF R-65 INSULATION DETERMINED AT T5 DEG. F IN ACCORDANCE WITH ASTM CITT OR HEAT OR BOTH 12. 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 13.
- 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 INDESIRABLE, SUCH AS IN WALLS OR PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON PIPING OR SIMILAR APPROVED HARD OR DENSE PIPING TO MITIGATE SOUND. 15.
- CLEANOUTS ON BUILDING SEWERS SHALL BE LOCATED AS SET FORTH IN 16.
- THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH N.C.-R.
- INDIVIDUAL SHOMER AND TUB/SHOMER COMBINATION VALVES SHALL BE EXDIPPED MITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERMOSTATIC-MINING OR COMBINATION PRESSURE-BALANCE/ THERMOSTATIC-MINING VALVE TYPES MITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASE IO(6/ ASME AII2.0)(6)(CAS BI25.16) AND SHALL BE INSTALLED AND ADJUSTED 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 18 INC ABOVE THE GARAGE FLOOR. REFER TO N.C.-R FOR EXCEPTION.
- WATER HEATERS, (JSING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM, HOVEVER, 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. 20.
- IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, NATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIED AND IN THE LOWER ONE-THIRD OF THE APPLIANCE TO RESIST A HORIZONTAL FORCE EQUAL TO ONE-THIRD OF THE OPERATING NEIGHT OF THE MATER HEATER, ACTING IN ANY HORIZONTAL DIRECTION, OR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S RECOMMENDATIONS. 21
- 22. APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PRO-TECTED FROM IMPACT BY A MOVING VEHICLE.
- 23. WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN: MERKE MALEK HEALENS OK HOL MALEK SIJCKAGE LANKS AKE NÖ ALLEV 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 24 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 DISHWASHER SHALL BE PROTECTED AGAINST BACKFLON BY AN AIR GAP COMPLYING WITH ASME AII2.1.3 OR AII2.1.2 THAT IS INSTALLED INTEGRALLY WITHIN THE MACHINE OR A BACKFLOW PREVENTER IN ACCORDANCE WITH THE NC-R. 26.
- 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 II/2 INCHES (38 MM) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE UNDERSIDE OF THE CONTRE' AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE SINK RIM OR COUNTER BEFORE CONNECTING TO THE HEAD OF THE FOOD-WASTE DISPOSER OR TO A WYE FITTING IN THE SINK TAILPIECE.

### FIREPLACES

- FACTORY-BUILT FIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. FACTORY-BUILT FIREPLACES SHALL BE TESTED IN ACCORDANCE WITH UL 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 2. BE GROUNDED IN A MANNER COMPLYING WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL WIRING SHALL BE SO INSTALLED THAT, WHEN COMPLETED, THE З. 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-MANI IKE MANNER
- ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES 5. ALL ISPYCLI, SINGLET HAS, IS AND SAMPLENE REDEFICELE GROUND- FAULT CIRCUIT-INTERUPTER 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 INTERDED AS HABITABLE ROCHS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE.
  - C. OUTDOORS.
  - CRANL SPACES. WHERE THE CRANL SPACE IS AT OR BELOW GRADE LEVEL. D.
- UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS. E.
- KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE
- G. SINKS. WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK.
- BOAT HOUSES.
- BATHTUBS OR SHOWER STALLS WHERE RECEPTACLES ARE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL.
- J. LAUNDRY AREAS
- DISHWASHER GFCI PROTECTION IS NOT REQUIRED FOR OUTLETS THAT SUPPLY DISHWASHERS INSTALLED IN DWELLING UNIT LOCATIONS
- 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 LAUNDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE
- IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING WINTS, 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 HORIZONTALLY, FROM AN CUTLET IN THAT SPACE, INCLUDING ANY MALL SPACE 2 FEET OR MORE IN NIDTH (INCLUDING SPACE) MEASURED AROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS AND SIMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BUT EXCLUDING SANELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE 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 SHALL-APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS, ALL CONTRETOP OUTLETS, AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT. THE TWO OF MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- 10. 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 ALONG 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 WITH 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 FEININGULAR COUNTER SPACE WITH A LONG DINENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. A PENNISULAR COUNTERTOP IS MEASURED FROM CONNECTING FERFENDICULAR WALL.
- COUNTERTOP SPACES SEPARATED BY RANGE TOPS, REFRIGER-ATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTER-TOP SPACES IN APPLYING THE REGUREMENTS OF (1), (2), AND (3) ABOYE. IF A RANGE, COUNTER-KONNED 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 INCHES. IT WILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO ONE APARTE CONTERTOP SPACES. EACH COUNTERTOP SPACE (4) 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 READLY ACCESSIBLE BY APPLIANCES FASTENED IN PLACE, APPLIANCE GARAGES, SINCS, OR RANGETORS 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 BACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED IN WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BAGIN CONTERTOP, OR INSTALLED ON THE SIZE OF FACE OF THE BASIN CABINET NOT MORE THAN 12" BELOW THE COUNTERTOP
- 12. IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT.
- 13. IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE WITH ELECTRIC POWER. THE BRANCH CIRCUIT SUPPLYING THIS ELECTION OF A CALL NOT SUPPLY OUTLING THIS RECEPTACLE(S) SHALL NOT SUPPLY OUTLING 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 MALLEDARD, SIDING, PANELING, CARPETING, OK, SIMILAR FINISH, SHALL BE PROTECTED BY 1/16 INCH THICK STEEL PLATE, SLEEVE, OK EQUIVALENT OR BY NOT LESS THAN I-1/4 INCH TREE SPACE FOR THE FULL LENGTH OF THE GROOVE IN WHICH THE CABLE OR RACEWAY S INSTALLED
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.

17.

OCATION

UNIQUE COMBINATION

CONNECTED TO A CENTRAL STATION

WITH THE NC-R R314.3

SMOKE DETECTORS

2

З.

- A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM WEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS WEATHERRROOF WHEN THE RECEPTACLE IS COVERED. (ATTACHNENT PLUG CAP NOT INSERTED AND RECEPTACLE COVERS CLOSED.)
- ALL IS- AND 20- AMPERE, I25- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN EXCLOSURE THAT IS WEATHER PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUT". ALL IS- AND 20- AMPERE, I25- AND 250-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER RESISTANT TYPE.

I6. LIGHTING EQUIPMENT. NOT LESS THAN 15 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS

ALL 120-VOLT, SINGLE PHASE, IS- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DARLORS, LIBRARES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLMAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A 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.

RECEPTACLES LOCATED MORE THAN 52 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-PLUG CONVECTED.

4. NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS

DIMMER-CONTROLLED RECEPTACLES. A RECEPTACLE SUPPLYING LIGHTING LOADS SHALL NOT BE CONNECTED TO A DIMMER UNLESS THE PLUGRECEPTACLE COMBINATION IS A NONSTANDARD COMPIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH

SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S INSTRUCTIONS AND NC-R R314

HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 12

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 ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NEPA

ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION

AND ALARM AS REQUIRED BY THE NC-R FOR SMOKE ALARMS IN THE

EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT

REQUIRED SMOKE DETECTORS SHALL BE LOCATED IN ACCORDANCE

72 THAT INCLUDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR

AND AUDIBLE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R R314.3 FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE

THIS CODE AND THE

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 BELOW.

LIGHT FIXTURES WITHIN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C.

ELECTRICAL (continued)

### CARBON MONOXIDE ALARMS

CARBON MONOXIDE ALARMS IN DWELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.

SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING MITH UL 2024 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NG-R R315 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

2.

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



TOTAL AREA	4	1445	SQ. FT.		
GARAGE AREA		420	SQ. FT.		
PORCH AREA(S)					
	ELEVATION 'A'	43	SQ. FT.		
	ELEVATION 'B'	43	SQ. FT.		
	ELEVATION 'C'	49	SQ. FT.		
	ELEVATION 'D'	49	SQ. FT.		
PATIO AREA(S)					
	IO'XIO' COVERED	100	SQ. FT.		
	IO'x2I' EXT. COVD.	210	SQ. FT.		
DECK AREA(S)					
	12'x12 DECK	144	SQ. FT.		
	12'x24' EXT. DECK	288	SQ. FT.		
G	ENERAL PLAN N	IOTES	2018 N.CR	$\mathcal{I}_2$	
HEIGHTS, U.N.O. ALL INTERIOR DO	HTS PER SECTION AND E				
U.N.O. (REFER TO I	PLAN FOR SIZE). RVICE DOORS TO BE HOL				
	(REFER TO PLAN FOR S				
ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE).					
USE EN TO FEAR	FOR SIZE).		E-RAIED		
ALL ENTRY DOOR	FOR SIZE). IS AND EXTERIOR FRENC I" THICK (REFER TO PLA)	H DOORS TO			
ALL ENTRY DOOR SOLID CORE   3/4	S AND EXTERIOR FRENC "THICK (REFER TO PLAN RIAL CHANGES TO OCCU	H DOORS TO N FOR SIZE).	9 BE		
ALL ENTRY DOOR SOLID CORE   3/4 ALL FLOOR MATE	S AND EXTERIOR FRENC "THICK (REFER TO PLAN RIAL CHANGES TO OCCU	H DOORS TO N FOR SIZE). IR AT CENTER	P BE R OF		
ALL ENTRY DOOR SOLID CORE   3/4 ALL FLOOR MATE	S AND EXTERIOR FRENC "THICK (REFER TO PLAI RIAL CHANGES TO OCCU .0.	H DOORS TO N FOR SIZE). IR AT CENTER	9 BE		
ALL ENTRY DOOR SOLID CORE   3/4 ALL FLOOR MATE DOOR JAMES, U.N.	S AND EXTERIOR FRENC " THICK (REFER TO PLAY RIAL CHANGES TO OCCU D PLATE NOTES 8'-1" PLATE NOT DER HEIGHT:	H DOORS TO N FOR SIZE). IR AT CENTER	209 NG-R		
ALL ENTRY DOOR SOLID CORE I 3/4 ALL FLOOR MATE DOOR JAMBS, UN WINDOW HEAD 2 AD FLOOR W ENTRY DOOR	S AND EXTERIOR FRENC "THICK (REFER TO PLAI RIAL CHANGES TO OCCU D. PLATE NOTES 0'-I" PLATE NOT DER HEIGHT. INDOM HDR. HEIGHT. HEIGHT.	H DOORS TO N FOR SIZE). IR AT CENTER FES 6'-8" U.N.O 6'-8" U.N.O 6'-8" U.N.O	2019 NG-R		
ALL ENTRY DOOR SOLID CORE I 3/4 ALL FLOOR MATE DOOR JAMBS, UN DOOR JAMBS, UN ENTRY DOOR SLIDING GLAS INTERIOR SOC	S AND EXTERIOR FRENCH (REFER TO PLAIN 11 THLAK (REFER TO PLAIN 12 T	H DOORS TC N FOR SIZE). IR AT CENTER 5 6'-8" U.N.O 6'-8" U.N.O 6'-8" U.N.O 6'-8" U.N.O 6'-8" U.N.O 7'-4" U.N.O.	BE R OF 2093/6-R		
ALL ENTRY DOOR SOLID CORE I 3/4 ALL FLOOR MATE DOOR JAMES, UN MINDOW HEAL 2nd FLOOR W ENTRY DOOR SLIDING GLAS	S AND EXTERIOR FRENCH THICK (REFER TO PLA) RIAL CHANGES TO OCCL D <b>PLATE NOTES</b> $\hat{\mathcal{B}}^{I}$ -II" PLATE NOT DER HEIGHT: NDDO'H HDR. HEIGHT: TO HEIGHT: TI HEIGHT: RIFT HEIGHT:	H DOORS TC N FOR SIZE). R AT CENTER FES 6'-8" UN/O 6'-8" UN/O 6'-8" UN/O 6'-8" UN/O 6'-8" UN/O 6'-8" UN/O	BE R OF 2093/6-R		
ALL ENTRY DOOR 344 SOLID CORE 344 ALL FLOOR MATE DOOR JAMES, UN MINDOW HEAL 2rd FLOOR W ENTRY DOOR SLIDING GLAS INTERIOR SOF INTERIOR SOF	SADE EXTERIOR FREEXCI           'THICK (REFER TO PLAIR           RIAL CHANGES TO OCCU.           PLATE NOTES           Ô'-I'' PLATE NOT           JER HEIGHT.           INDOR HEIGHT.           SD OOR HEIGHT.           ST HEIGHT.           G'-I'' PLATE NOT	H DOORS TC N FOR SIZE). R AT CENTER 6'-8" UN/O 7'-0" UN/O 6'-8" UN/O 6'-8" (UN/O 6'-8" UN/O 6'-8" UN/O 6'-8" UN/O 6'-8" UN/O 6'-8" UN/O	20916.R 20916.R		
ALL ENTRY DOOR SOLID CORE 1 3/4 ALL FLOOR MATE DOOR JAMES, UN * MINDOW HEAD * MINDOW HEAD * LITEY DOOR W * LITEY DOOR W * MINDOW HEAD * MINDOW HEAD * MINDOW HEAD	SADE EXTERIOR FREEXCY           "THICK (REFER TO PLAIR           RIAL CHANGES TO OCCU.           PLATE NOTES           Ø'-I'' PLATE NOT           PREMEMENT:           D'OR HEIGHT:           TOT PLATE NOT           SE DOOR HEIGHT:           TOT PLATE NOT           RHEIGHT:           TOT PLATE NOT           PLATE NOT           SE DOOR HEIGHT:           TOT PLATE NOT           PCHEIGHT:           TOT PLATE NOT           SE DOOR HEIGHT:           TOT PLATE NOT	H DOORS TC N FOR SIZE). R AT CENTER ES 6-8" UNO 6-8" (TEM 6-8" (INO 6-8" (INO 6-8" UNO 6-8" UNO 6-8" UNO 6-8" UNO 8-4" UNO 8-4" UNO	209%6.R		
ALL ENTRY DOOR SOLID CORE 1 3/4 ALL FLOOR MATE DOOR JAMES, UN MINDOW HEAL BITTENCOR SOL INTERIOR DOO INTERIOR DOO NINTERIOR DOO NINTERIOR DOO NINTERIOR DOO ELTRY DOOR HEAL 40/0 WINDOW ESLIDING GLAS	SADE EXTERIOR FREEXCI "THICK (REFER TO PLAI RIAL CHANGES TO OCCU.")           PLATE NOTES           6'-1'' PLATE NOT           26'-1''' PLATE NOT           27 HEIGHT:           28 HEIGHT:           29 HEIGHT:           29 HEIGHT:           29 HEIGHT:	H DOORS TC N FOR SIZE). R AT CENTER TES 6-8' UN/O 6-8' UN/O	P BE 2093/6-8 		
ALL ENTRY DOOR SOLID CORE 190 ALL FLOOR MATE DOOR JAMES, UN MINDOW HEAD 2 Ad FLOOR W ENTRY DOOR 5 LIDING 6LAS INTERIOR SOF INTERIOR SOF MINDOW HEAD 4010 MINDOW ENTRY DOOR	SADE EXTERIOR FREEXCI           'THICK (REFER TO PLAIRAL CHANGES TO OCCU.').           PLATE NOTES           Ô'-I'' PLATE NOT           DER HEIGHT.           BS DOOR HEIGHT.           BS DOOR HEIGHT.           'STICK HEIGHT.           'ST DOOR HEIGHT.           'ST HEIGHT.           'ST DOOR HEIGHT.	H DOORS TC N FOR SIZE). R AT CENTER 5 6-8" UNO 6-8" UNO 6-8" UNO 6-8" UNO 6-8" UNO 6-8" UNO 6-4" UNO 8-4" UNO 8-4" UNO	P BE		

SQUARE FOOTAGE

FLOOR AREA

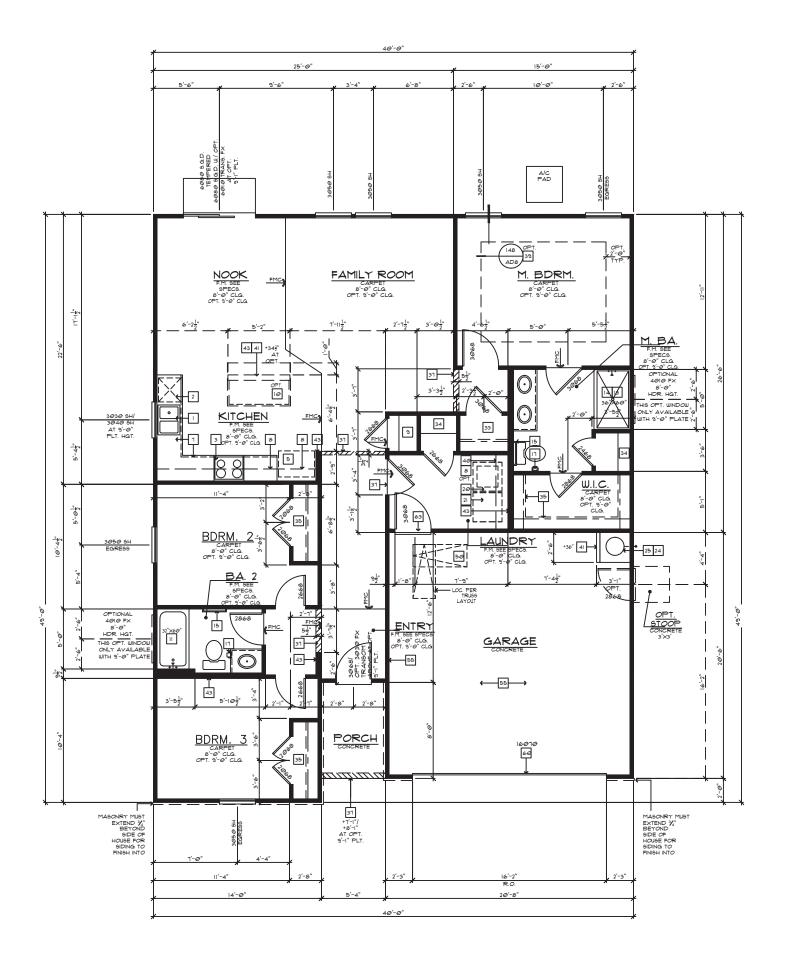
PLAN 140. 1445-R

1445



#  .	FLOOR PLAN NOTES SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH						-
	MANUFACTURER SPEC'S.	•			_		•
2.	DISHMASHER - PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.						
9.	SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S			K	$\mathbf{O}$	)	
4.	36" COOKTOP - W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) - CABINET MOUNTED MICROWAVE INCLUDED OVEN WITH VENT - VERIFY WITH MANUFACTURER SPEC'S.	•		10			•
5.	94" CLEAR REFRIGERATOR SPACE - PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).	•					
6.	DOUBLE OVEN - VERIFY WITH MANUFACTUER SPEC'S.	•					•
7.							
8. 9.	UPPER CABINETS - REFER TO INTERIOR ELEVATIONS PANTRY - SHELVES PER SPEC	•	•	•	•	•	
ю.	ISLAND CABINET - REFER TO INTERIOR ELEVATIONS			•		•	
п.	TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSURE (NON-ABSORBENT) VERIFY DIMENSIONS WITH MER'S SPEC'S.						
	OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.						
19.	SHOWER PAN MITH WAINSCOT TO 84" - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	•	-	•	•	•	•
	SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE	•	•	•	•	•	•
	TOWEL BAR NOT USED						
17.	TOILET PAPER HOLDER	N	ר. אר	H C	ARC	) I IN	I A
18.	EXTEND VANITY - REFER TO INTERIOR ELEVATIONS						
	OPTIONAL SINK		40	' SE	'KI	E2	-
20.	PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)	<b>.</b>	DET-	KB H			
21.	DRYER VENT	• <sup>N0</sup>		CAROL			NN.
22.	NOT USED		4518	S. MI SUITE		BLVD.	_
29.	FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS WITH MFR'S SPEC'S.		DUR	HAM,		703	
24.	ELECTRIC WATER HEATER - LOCATE ON 18" HIGH FRAMED PLATFORM	•	TEL:	(919)	768-	7988	
	TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE		FAX:	(919)	472-	0582	_
	TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE NOT USED		•	•	-	•	•
	NOT USED	•					
28.	PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS						ם יבוי
	NON-COMBUSTIBLE HEARTH MATERIAL		AKC		IA S	IAI	. E
30.	ROUTE OF FIREPLACE "B" VENT FROM BELOW - PROVIDE O.S.B. SHAFT		B	UĪLI	DĪN	G	-
	+36" GUARD WALL DETAIL 64/AD5 OR 66/AD5	•	•			•	•
	+34" - +38" HIGH HANDRAIL DETAIL 83/AD5 COATS WITH SHELF & POLE - DETAIL 13/AD4			COI	JES		
	LINEN - SHELVES PER SPEC		-	-	_	-	-
	WARDROBE WITH SHELF & POLE - DETAIL 73/AD4 U.N.O.	•	•	•	•	•	•
	MEDIA NICHE - REFER TO INTERIOR ELEVATIONS						
	FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	<b>_</b>	-	-	-	-	-
	LINE OF CEILING BREAK	•	•	•	•	•	•
40.	INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.		-			-	
	LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4	ĪS	SUE I	- DATE:	- 03/	/13/17	
	LOCATION OF PLUMBING WASTE DROP FROM ABOVE			[ No.:		999:56	
	2x6 MALL 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	_		MGR.		MCP	-
	DOUBLE 2x4 WALL	RI	SVISIO		03/	/22/19	
	LINE OF FLOOR ABOVE	• _	I RE'	VISIONS	3/13/18 1	S	
	LINE OF FLOOR BELOW EXTERIOR RAIL			D CRAWI	L SPACE		_
	Exterior Rail F.A.J. Vent to outside Air	• Z					
50.	22"x54" Attic Access W Stairs	• /:		ISION R	EVISION 9/27/18	IS CTD	
51.	FAU. IN ATTIC - PROVIDE MIN. 22"x30" ATTIC ACCESS PANEL - PROVIDE FUEL GAS, REFER TO UTILITY PLAN DETAIL 88/AD5	./.		CODE U	JPDATE / 03/15/19	/ CTD	
	DUCT CHASE - DETAIL 69 & 90/AD5 - REFER TO MECH. PLAN		 ^DIN	ISION R	EVISION	IS	_
	RETURN AIR GRILL (R.A.G.) - REFER TO MECHANICAL PLAN	<b>*</b>	5 \ NC	19017NCP	/ 03/22/19	/ CTD	
	1/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS	•	<u>е \</u> NC	19050NCP	/ 07/29/19	/ FAB	
	THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN $l_2^{\rm s}$ Gypsum Board Applied to the garage side	•	7 PP, 7 NC	MASON, 20018NCP	PLAN R 7 03/16/20	EVISIOI ) / KBA	15
56.	SEPARATION BETWEEN SECOND FLOOR AND GARAGE CELLING, PROVIDE (I) LAYER OF \$6" TYPE "X" GYPEUM BOARD, MALLS SUPPORTING SECOND FLOOR AND GARAGE CELLING, PROVIDE (I) LAYER OF 6" GYPEUM BOARD	•					•
57.	EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	•					
58.	NOT USED		PLAN	:			
59.	NOT USED			0.14	45-	<u>R</u>	
60.	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION				SHE	ST:	7
	NOT USED	•	•	•		1.1	
62.	DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL.			_ I			-
63.		-	- SP	EC. L	EVE	- L 1	
	OPENINGS BETHEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/8-INCH THICK, OR SHALL BE 20-MINITE FIRE RATED. DOORS SHALL BE WEATHERSTRIPPED	R/	ALE	IGH-	DUE	RHA	М
	NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.	•	10		RI		1
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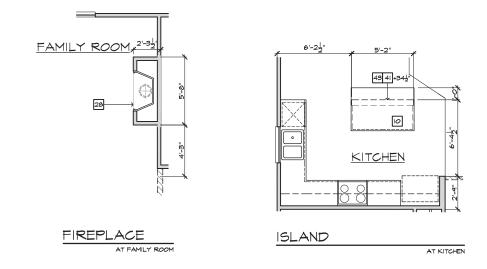
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FLOOR PLAN

## REFER TO SHEET 1.1 FOR FLOOR PLAN NOTES

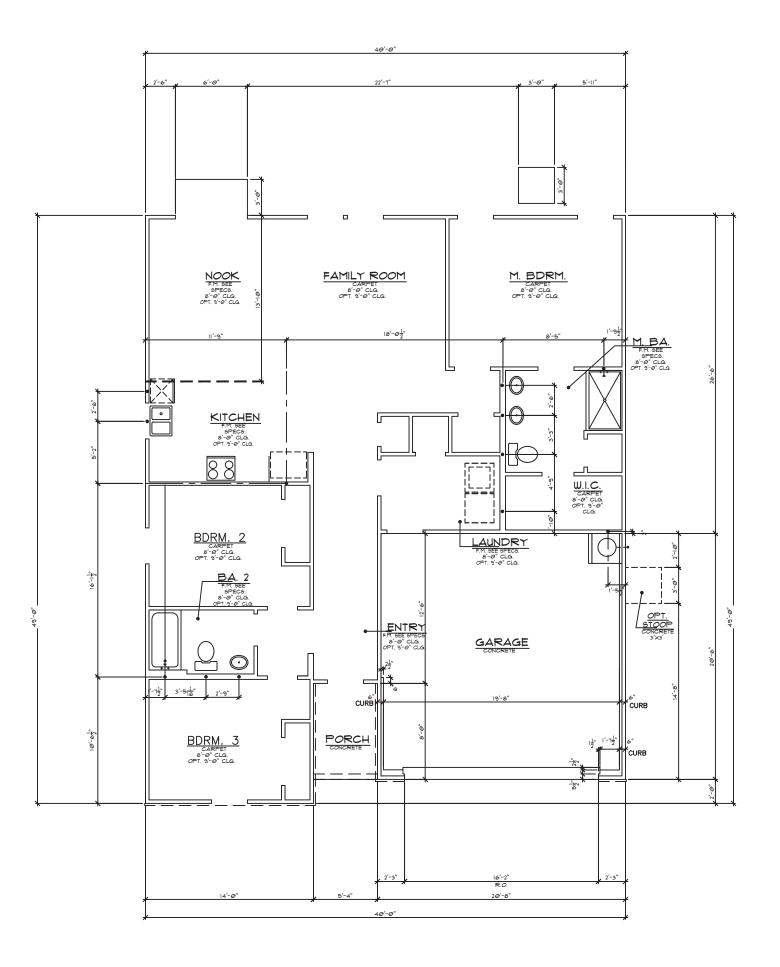
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 FLOOR PLAN OPTIONS

 SCALE:
 1/4"=1"-0" (22"x34") - 1/8"=1"-0" (11"x17")

#	FLOOR PLAN NOTES	
1.	SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH	
2.	MANUFACTURER SPEC'S. DISHWASHER - PROVIDE SURFACE MOUNT AIR GAP	
	VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
З.	SLIDE-IN RANGE/ OVEN COMBINATION W/ BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S.	
4.	36" COOKTOP - W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) - CABINET MOUNTED MICROWAVE INCLUDED OVEN WITH VENT - VERIFY WITH MANUFACTURER SPEC'S.	HOME
5.	39" CLEAR REFRIGERATOR SPACE - PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).	
6.	DOUBLE OVEN - VERIFY WITH MANUFACTUER SPEC'S.	
٦.	BASE CABINETS - REFER TO INTERIOR ELEVATIONS	
8.	UPPER CABINETS - REFER TO INTERIOR ELEVATIONS	
я.	PANTRY - SHELVES PER SPEC	
10. 11.	ISLAND CABINET - REFER TO INTERIOR ELEVATIONS TUB/SHOWER COMBINATION WITH 12" FIBERGLASS ENCLOSURE (NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S.	
12.	OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
13.	SHOWER PAN WITH WAINSCOT TO 84" - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
14.	SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE	
15.	TOWEL BAR	
	NOT USED	
17.	TOILET PAPER HOLDER	NORTH CAROLIN
18.	EXTEND VANITY - REFER TO INTERIOR ELEVATIONS	40' SERIES
19. 20		4V SEKIES
20.	PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)	KB HOME
21.	DRYER VENT	NORTH CAROLINA DIVISIO
22.	NOT USED	4518 S. MIAMI BLVD.
23.	FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS WITH MFR'S SPEC'S.	<ul> <li>SUITE 180</li> <li>DURHAM, NC 27703</li> </ul>
24.	ELECTRIC WATER HEATER - LOCATE ON 18" HIGH	■ TEL: (919) 768-7988
	FRAMED PLATFORM	FAX: (919) 472-0582
25.	TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE	
	NOT USED	
20.	PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS	2018 NORTH
29.	NON-COMBUSTIBLE HEARTH MATERIAL	CAROLINA STAT
30.	ROUTE OF FIREPLACE "B" VENT FROM BELOW -	
31.	PROVIDE O.S.B. SHAFT +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5	BUILDING
	+34" - +38" HIGH HANDRAIL DETAIL 83/AD5	CODES
33.	COATS WITH SHELF & POLE - DETAIL 73/AD4	
34.	LINEN - SHELVES PER SPEC	
	WARDROBE WITH SHELF & POLE - DETAIL 73/AD4 U.N.O.	
	MEDIA NICHE - REFER TO INTERIOR ELEVATIONS FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	
	NOT USED	
	LINE OF CEILING BREAK	
40.	INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	
	LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4	ISSUE DATE: 03/13/17
	LOCATION OF PLUMBING WASTE DROP FROM ABOVE	PROJECT No.: 1350999:56
	2x6 WALL 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	DIVISION MGR.: MCP
	DOUBLE 2x4 WALL	REVISIONS: 03/22/19
	LINE OF FLOOR ABOVE	EVISIONS NCI8012NCP- 3/13/18 DS
47.	LINE OF FLOOR BELOW	
	EXTERIOR RAIL	add CRAWL SPACE
	F.A.J. VENT TO OUTSIDE AIR	DIVISION REVISIONS
	22"x54" ATTIC ACCESS W/ STAIRS F.A.U. IN ATTIC - PROVIDE MIN. 22"x30" ATTIC ACCESS PANEL - PROVIDE FUEL GAS, REFER TO UTILITY PLAN	■ <u>3</u> NC18941NCP- 9/27/18 CTD 2018 CODE UPDATE
	DETAIL 86/ADS DUCT CHASE - DETAIL 89 & 90/ADS - REFER TO MECH. PLAN	A NC90ISNCP/ 03/15/19 / CTD     DIVISION REVISIONS
53.	RETURN AIR GRILL (R.A.G.) - REFER TO MECHANICAL PLAN	S NCI9017NCP/ 03/22/19 / CTD
54.	I/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS	B 6 DIVISION REVISIONS NCI9050NCP/ 07/29/19 / FAE
55.	THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE	PP, MASON, PLAN REVISION 7 NC20018NCP/ 03/16/20 / KBA
	SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING, PROVIDE (1) LAYER OF $\mathfrak{H}_{2}^{*}$ TYPE "X" GYPSUM BOARD, NALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING, PROVIDE (1) LAYER OF $\mathfrak{H}_{2}^{*}$	•
	GYPSUM BOARD	
	EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	
	NOT USED	■ PLAN:
58.		<b>140.1445-R</b>
58. 59.	NOT USED	
58. 59. 60.	NOT USED	. 140.1445-R
58. 59. 60. 61.	NOT USED NOT USED SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION NOT USED DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 GQUARE FEET, DIVIDED SPACES MUST BE	. 140.1445-R
58. 59. 60. 61. 62.	NOT USED NOT USED SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION NOT USED DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING IOOO SQUARE FEET, DIVIDED SPACES MUST BE ROUGHLY EQUAL. OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED	. 140.1445-R
58. 59. 60. 61. 62.	NOT USED NOT USED SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION NOT USED DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL.	140.1445-R SHEET: 1.2
58. 59. 60. 61. 62.	NOT USED NOT USED SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION NOT USED DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING IOOD SQUARE FEET. DIVIDED SPACES MUST BE ROUGHLY EQUAL. OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/6-INCH THICK, OR SHALL BE 20-MINITE FIRE RATED. DOORS SHALL BE	140.1445-R Sheet: 1.2 SPEC. LEVEL 1

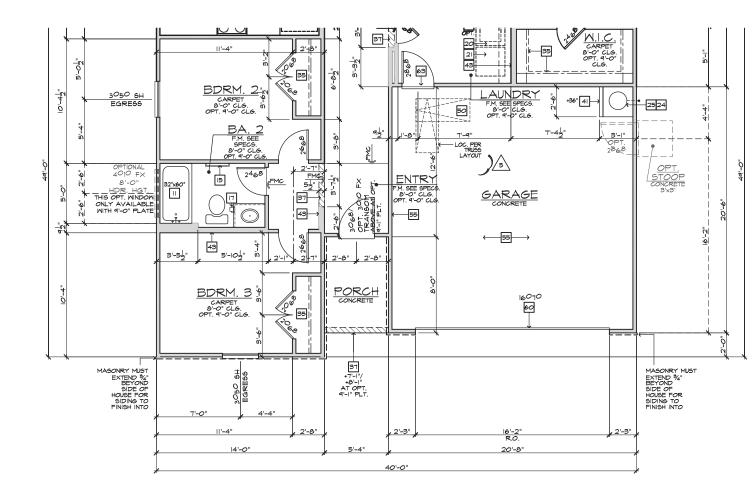


SLAB INTERFACE PLAN 'B'

## REFER TO SHEET 2.1 FOR FLOOR PLAN NOTES

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•	SPE	CL	EVEL	1	•	
F	RALEI	GH-	- <b>D</b> UI	RHAI	M	
•	40'	S	ERI	ES	•	

REFER TO SHEET 1.1 FOR THE GARAGE, BATH 2, AND MASTER BATH WIC DOOR SIZES AS THEY HAVE CHANGED FOR ADA PURPOSES.



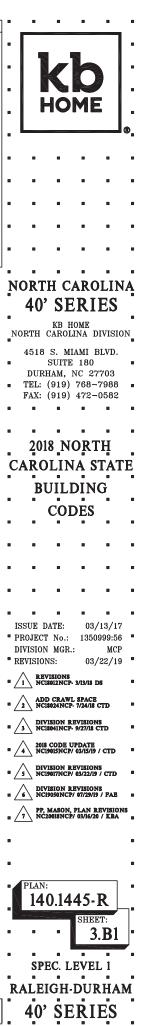
PARTIAL FLOOR PLAN 'B'

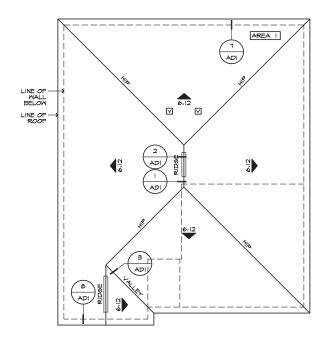
### PARTIAL PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY

- 31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5
- 37. FLAT SOFFIT REFER TO PLAN OR ELEVATIONS FOR HEIGHT 38. NOT USED
- 39. LINE OF CEILING BREAK

#

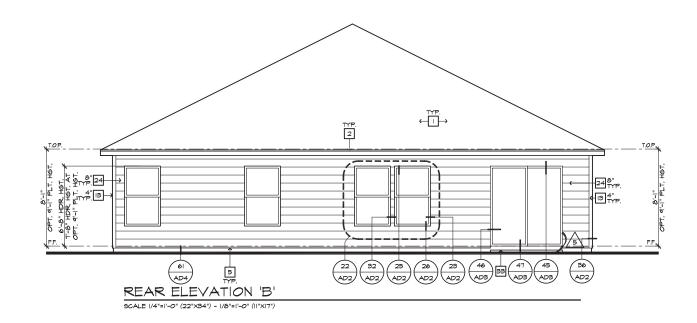
- 40. INTERIOR SHELF REFER TO PLAN OR INT. ELEVS. FOR HET
- 41. LOW WALL REFER TO PLAN FOR HEIGHT DETAIL 72/AD4 43. 2×6 WALL
- 44. 2x6 BALLOON FRAMED WALL REFER TO STRUCTURAL
- 45. DOUBLE 2×4 WALL
- 46 LINE OF FLOOR ABOVE
- 47. LINE OF FLOOR BELOW
- 48. EXTERIOR RAIL
- 55. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE
- 56. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING: PROVID (1) LAYER OF 5% "TYPE "X" GYPSUM BOARD, WALLS SUPPORTIN SECOND FLOOR AND GARAGE CEILING: PROVIDE (1) LAYER OF 1/2 GYPSUM BOARD
- 57. EXTERIOR SHELF REFER TO ELEV. FOR HEIGHT
- 60. SECTIONAL GARAGE DOOR VERIFY WINDOW OPTION

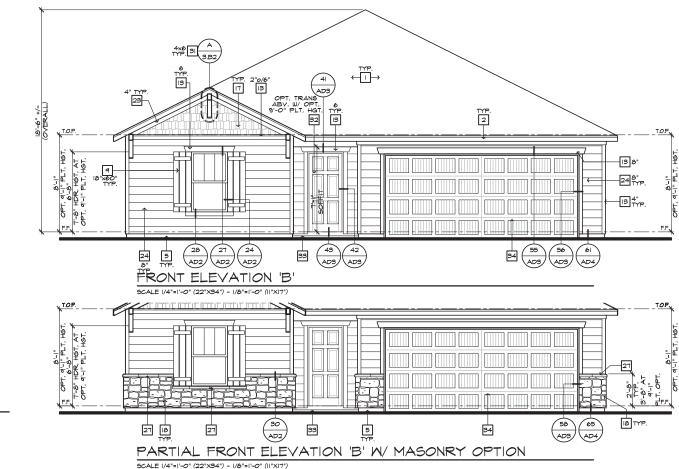


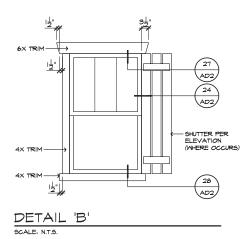


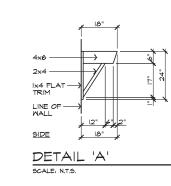
ROOF PLAN 'B'

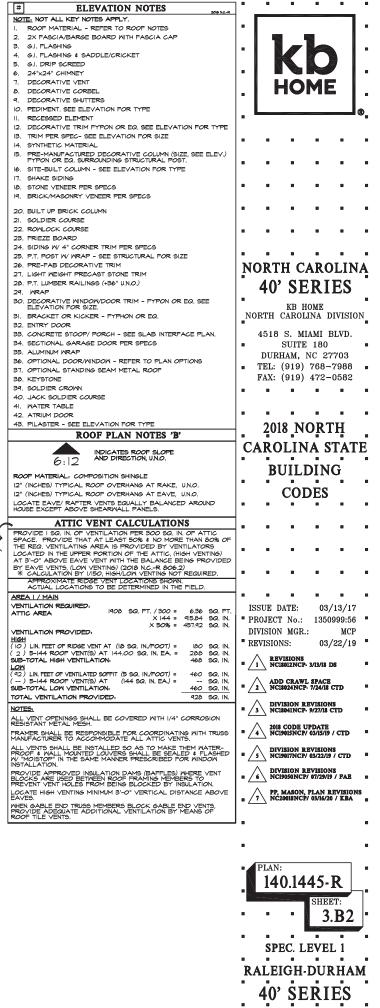
SCALE 1/8"=1'-0" (22"X34") - 1/16"=1'-0" (11"X17")

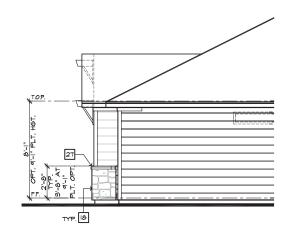


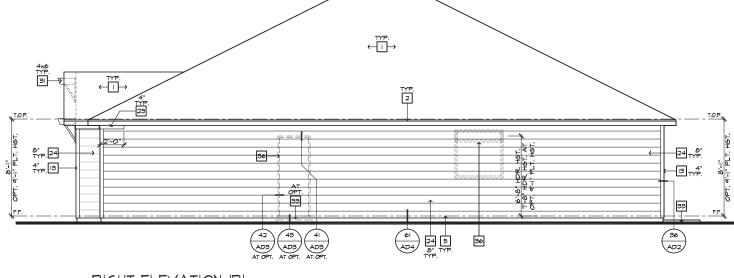










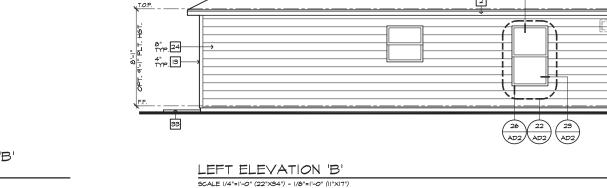


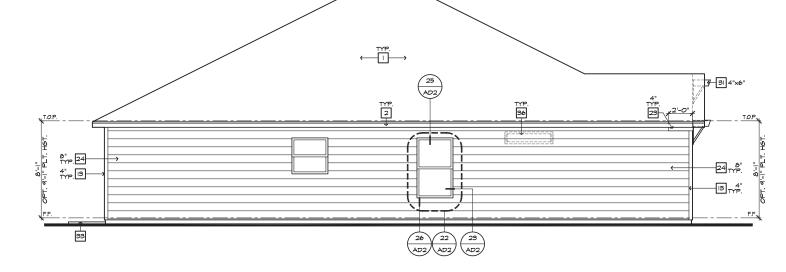
PARTIAL RIGHT ELEVATION 'B' W/ MASONRY OPTION SCALE I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XI7")

 $\frac{\text{RIGHT}}{\text{SCALE}} \stackrel{\text{ILEVATION}}{=} \stackrel{\text{IB}^{\text{I}}}{=} \stackrel{\text{ILEVATION}}{=} \stackrel{\text{ILEV$ 

-27 2'-8" 77P. 3'-8" AT 9'-1" PLT. OPT. 18 PARTIAL LEFT ELEVATION 'B' W/ MASONRY OPTION

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



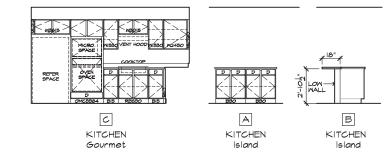


١	#	ELEVATION NOTES			
ł		E: NOT ALL KEY NOTES APPLY.			
I	1.	ROOF MATERIAL - REFER TO ROOF NOTES	8		
I	2.	2X FASCIA/BARGE BOARD WITH FASCIA CAP			
I	з.	G.I. FLASHING	_		
I	4.	G.I. FLASHING & SADDLE/CRICKET			
I	5.	G.I. DRIP SCREED			
I	6.	24"x24" CHIMNEY			
I	7.	DECORATIVE VENT		N N	
I	8.				HO
I	9.	DECORATIVE SHUTTERS		1 7	
I	10.	PEDIMENT, SEE ELEVATION FOR TYPE			
I	П.	RECESSED ELEMENT			
I	12.	DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE			
I	13.	TRIM PER SPEC- SEE ELEVATION FOR SIZE	_	_	_
I	14.	SYNTHETIC MATERIAL			
	15.	PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.			
I	16.	SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE	-	-	-
I	17.	SHAKE SIDING			
I	18.	STONE VENEER PER SPECS			
I	19.	BRICK/MASONRY VENEER PER SPECS			
	20	BUILT UP BRICK COLUMN			
I		SOLDIER COURSE			
I		ROWLOCK COURSE	_	-	-
I		FRIEZE BOARD			
I		SIDING W/ 4" CORNER TRIM PER SPECS			
I		P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE		8	
I		PRE-FAB DECORATIVE TRIM	NT.	דתה	тн с
I		LIGHT WEIGHT PRECAST STONE TRIM	IN'	UKI	HU
I		P.T. LUMBER RAILINGS (+36" U.N.O.)		40	2 O T
I		WRAP		40	' SI
	30.	DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.			кв і
I	31.	BRACKET OR KICKER - FYPHON OR EQ.	N	ORTH	CAROI
I	32.	ENTRY DOOR			
I	33.	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.		4518	S. M
I	34.	SECTIONAL GARAGE DOOR PER SPECS			SUITE
I	35.	ALUMINUM WRAP		DUE	HAM.
I	36.	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS			
I	37.	OPTIONAL STANDING SEAM METAL ROOF			(919)
I	38.	KEYSTONE		FAX:	(919)
I	39.	SOLDIER CROWN			
	40.	JACK SOLDIER COURSE		-	_
	41.	WATER TABLE			

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

•			•	۵	
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• N(	ORTH (	KB H	IOME	DIVISIO	• NN
	4518	s. M	IAMI	BLVD.	
•	DURI	SUITE IAM,	NC 2	7703	•
8	TEL: FAX:	(919) (919)	768- 472-	-7988 -0582	
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к. • /	∧ REV	ND: /ISIONS 8012NCP		/22/19 DS	-
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• /		ISION R			
• /		CODE 1 9015NCP	JPDATE / 03/15/15	/ CTD	
• /		ISION R 9017NCP			
• _		ISION B 9050NCI	EVISIO	NS 9 / FAE	
• _	7 PP, 7 NC2	MASON, 10018NCI	PLAN 1	REVISIOI 0 / KBA	15
•	PLAN:		•		
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## KITCHEN CABINETS

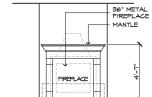


## LAUNDRY AND MISCELLANEOUS CABINETS

в
LAUNDRY
Opt. Upper & Lower
Cabinets

F====

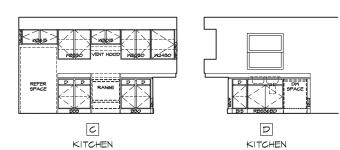




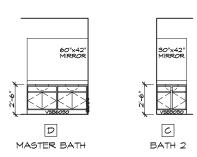
w/ Fireplace

## STANDARD INTERIOR ELEVATIONS SCALE: 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

## KITCHEN CABINETS

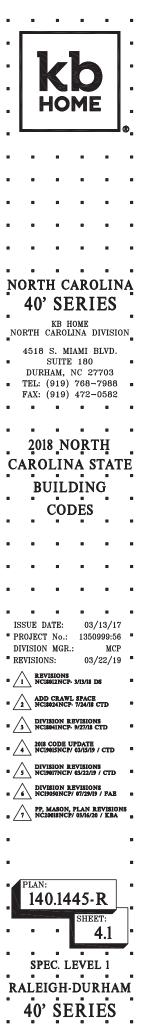


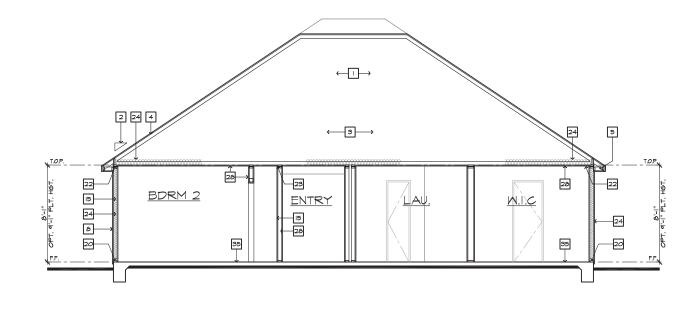
## BATH CABINETS



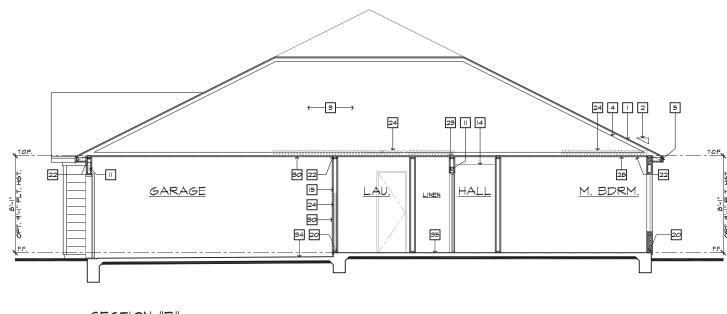
## LAUNDRY AND MISCELLANEOUS CABINETS







SECTION "A" SCALE |/4"=1'-0" (22"X34") - |/8"=1'-0" (||"X17") AT SLAB-ON-GRADE

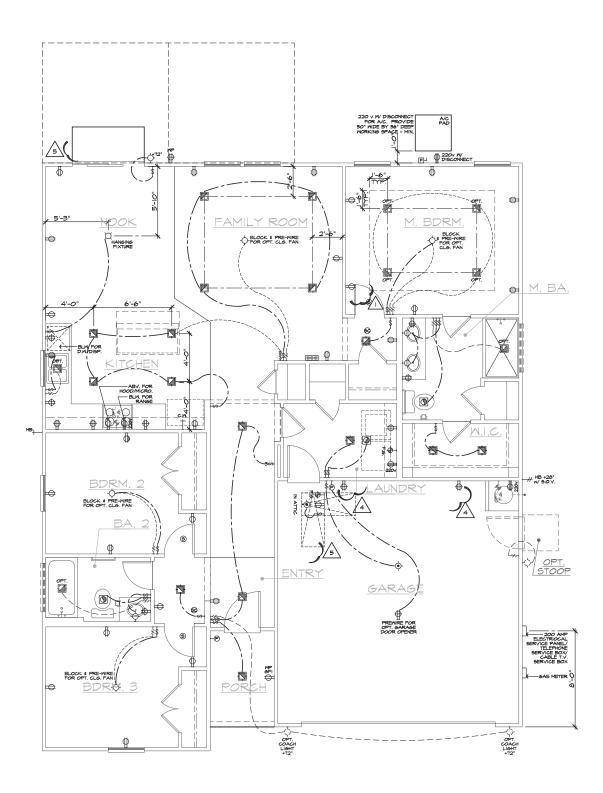


SECTION "B" SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7") 8 8 8 

#	SECTION NOTES	] •					
Ø	TE: NOT ALL KEY NOTES APPLY.	1 1					
	ROOF MATERIAL - REFER TO ROOF NOTES	8					
2.	ROOF PITCH - REFER TO ROOF NOTES			~	$\sim$		
3.	PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE						
4.	STRUCTURAL & TRUSS CALCS ROOF SHEATHING PER STRUCTURAL						
+. 5.	2x FASCIA/BARGE BOARD					7	
5. 5	CONT. SOFFITED EAVE W/ VENTING	8			$\geq$		
2. 1.	G.I. FLASHING - ROOF TO WALL		N	-10	ME		
7. 3	EXTERIOR FINISH PER ELEVATIONS					-	
1.	FLOOR FRAMING PER STRUCTURAL						
	FLOOR SHEATHING PER STRUCTURAL						(
с. I.	HEADER PER STRUCTURAL						
2.	FLUSH BEAM PER STRUCTURAL						
	DROPPED BEAM PER STRUCTURAL	8				8	
	FLAT/ ARCHED SOFFIT PER PLAN						
5.	2x4 STUD WALL						
6.	2×6 STUD WALL	-	-	-	-	-	
7.	2x6 BALLOON FRAMED WALL PER STRUCTURAL						
8.	DBL. 2×4 WALL PER PLAN	8				8	
9.	2x CRIPPLES @ 16" O.C.						
20.	2x PRESSURE TREATED SILL PLATE						
21.	2x SOLE PLATE						
	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						
	LOW WALL - SEE PLAN FOR HEIGHT	N(	ORT	`Н С	ARC	91.IQ	J
	STAIR TREADS AND RISERS PER PLAN: - MIN. 10" TREAD \$ MAX. 7 3/4" RISER						
	INTERIOR FINISH: - MIN. 1/2" GYP. BD. @ WALLS & SAG RESISTANT OR 5/8" DRYWALL @ CEILING		40	51	ERI	E3	
	MIN. 1/2" GYP. BD. ON CEILING & WALLS & USEABLE SPACE UNDER STARS.	NC	ORTH		HOME LINA D	IVISI	01
50.	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.	8			IAMI H		
	MATERIAL TO UNDERSIDE OF ROOF SHEATHING	_	4010			JLVD.	
	INTERIOR SHELF - MIN. 1/2" GYP. BD. OVER 3/8" PLY WD.				E 180		
33.	CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE I/4" PER FT. MIN.		DUR	HAM,	NC 27	703	
			TEL:	(919)	768-	7988	
	CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN.		FAX:	(919)	472-	0582	
	CONCRETE FOUNDATION PER STRUCTURAL		-	`_ ´	_		
	LINE OF OPTIONAL TRAY CEILING/ STEP CEILING						
	LINE OF OPTIONAL VOLUME CEILING PROFILE OF OPTIONAL COVERED PATIO						
	EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS.	8					
	8" BLOCK WALL		20	10 NT	ODT	TT	
	5/8" TYPE-X DRYWALL @ GARAGE		ZU.	NL 01	ORT	. п	
	CEILING		A D C	ν <u>-</u> γ	т <u>,</u> с	- 	r'
12.	WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE	$  \cup$	AKU	JLIT	JA S	IAI	L.
	CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A SINGLE-FAMILY DWELLING, DRAFT STOPS SHALL BE INSTALLED						
	SINGLE-FAMILT DALLING, DRAFT STOPS SHALL DE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE	1	B	UIL	DIN	G	
	EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE					<u> </u>	
	THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.			CO	DES		
				CUI	DE9		
			8	8			
		_	_	_	_	_	

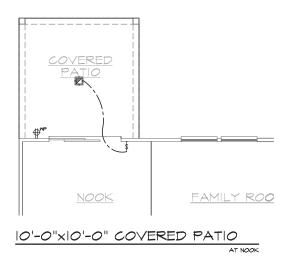


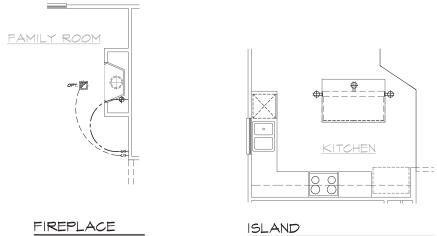
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UTILITY PLAN SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

	UTILITY LEGEND	] =		•		•
÷	120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O.	.				
다는 MP 6루						
⊯ w≉ ⊫⊖ 6=⊓	120V (TR) RECEPTACLE W GFI CIRCUIT			K	$\cap$	
⊕ ₽	FUSED DISCONNECT					
0	120V (AFCI & TR) RECESSED FLOOR	8		40	ME	
•	RECEPTACLE W COVER					
	SWITCH CONTROLLED, 1/2 HOT 220V SINGLE CONVENIENCE RECEPTACLE					
+69-	HEIGHT NOTED AS PER PLAN TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR.	•	•	•	8	•
+ <del>69-</del> 5	8" ABOVE COUNTER U.N.O. THREE-POLE LIGHT SWITCH					
<del>⊦69-</del> 4	FOUR-POLE LIGHT SWITCH			-	-	
ю́-и.р.	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING	-	-	-	-	-
φ	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	•	•	8		
н <b>ф</b> -	WALL MOUNTED FLUORESCENT LIGHT FLXTURE				8	•
-¢-	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE					
-@-	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE	N	- DRT	Ή C	ARO	LIN
¤	HANGING INCANDESCENT LIGHT FIXTURE	<sup>_</sup> ``			ERI	
Ø	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)		τv	KB H		
Ø	RECESSED INCANDESCENT LIGHT FIXTURE	NO	RTH			IVISION
	LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS		4518		IAMI B	LVD.
(ф) м.р. Го	RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING	•	DUR	SUITE HAM,	E 180 NC 27	703
¢	RECESSED FLUORESCENT LIGHT FIXTURE	-	TEL:	(919)	768-	7988
	RECESSED EXHAUST FAN/ INCANDESCENT		FAX:	(919)	472-	0582
	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION					
D	INCANDESCENT WALL SCONCE	•	20	■ 10 TNT	Лрт	а II
]	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET				ORT	
			AK(		IA S'	
	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)		B	UIL	DIN	G
		•	•	co	DES	
		-		-		•
i di	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)					
li∥i –						
©	OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O.	•		•		
Ø	CEILING MOUNTED JUNCTION BOX	•	•	•	•	•
HQ	WALL MOUNTED JUNCTION BOX					
₩ ₩	DOOR CHIME CATV RECEPTACLE	1	SUE 1			13/17
⊢®	PUSH BUTTON	1		T No.: N MGR		999:56 MCP
⊷∎ 	PHONE OUTLET SERVICE BOX		EVISIO			22/19
 _+ +es	HOSE BIB	• /		VISIONS 18012NCP	- 3/13/18 D	8
—#нв —+см	HOSE BIB W S.O.V. WATER STUB FOR ICE MAKER	[		D CRAW	L SPACE	
6	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	<b>-</b> _	2 \ NC	18024NCI	- 7/24/18 (	
•	WITH BATTERY BACK-UP AND INTERCONNECTED APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	•/		18041NCP	EVISION 9/27/18 C	TD
⊢®	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)	• _	4 201 4 NC	8 CODE 1 19015NCP	UPDATE / 03/15/19	CTD
++	GAS TAP GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA,	, /			EVISION	
۲ <del>X</del>	LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET			VISION B	/ 03/22/19 EVISION	5
RC	ITCHING FOR 24" MIN. SEPERATION DOMS W/ CLG. FAN OF ELECTRICAL BOXES	•∠	6 \ NC	19050NCI	M 07/29/19	/ FAE
OF LIGHT / ₹	TIONS AS SHOWN BELOW	• _	7 PP,	MASON, 20018NCI	PLAN R 9/ 03/16/20	EVISIONS / KBA
15 HO	↑ 1 / 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
_						
SECC	MDARY MASTER GARAGE	•				
I. MEC	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE	•	PLAN		4	
SHO ENG RES	AN FOR INTENT ONLY. THESE SYSTEMS SHALL BE INEERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND		14	0.14	45-]	К
OF F	CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE FIXTURE.				SHEE	
2. PRO RECI IN A	VIDE SWITCH, LIGHT, 1207 (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 2207 RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.			8		5.1
з. 5МО	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO	•			8	8
4. 20 1	LOCATED AT HIGHEST POINT OF CEILING		SP •	EC. L	EVEI.	- I •
ADD INTE	ITIONAL COLD WATER GROUND. REFER TO SLAB RFACE PLAN FOR LOCATION.	R	ALE	IGH	DUR	HAM
5. 200 PLA AMP	AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL N CHECK PERMIT REQUIRED IF LOAD EXCEED 400 S.	•	40	' ŜF	ERI	FS
			TV	<b>N</b> T	. 121.	-0





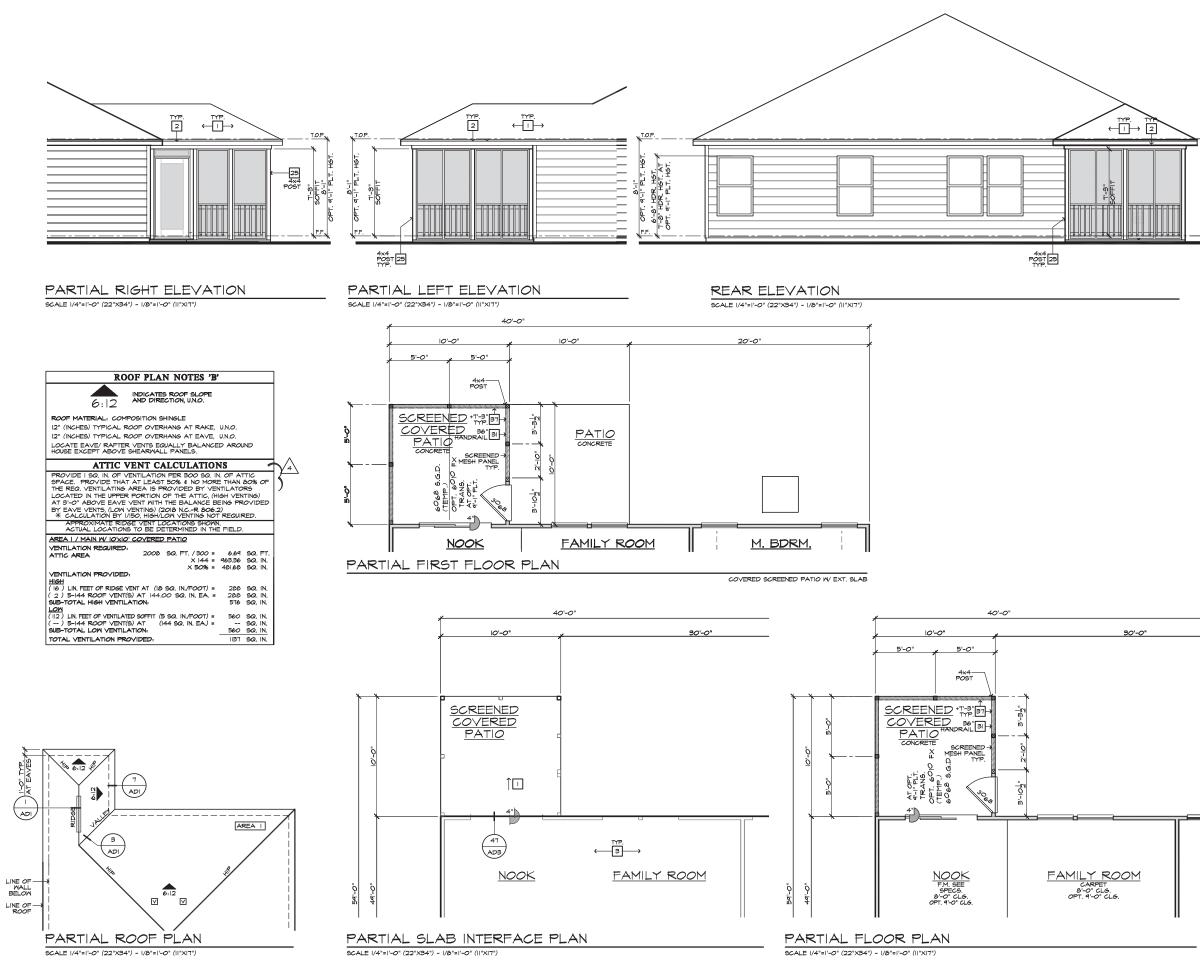
AT FAMILY ROOM

AT KITCHEN

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

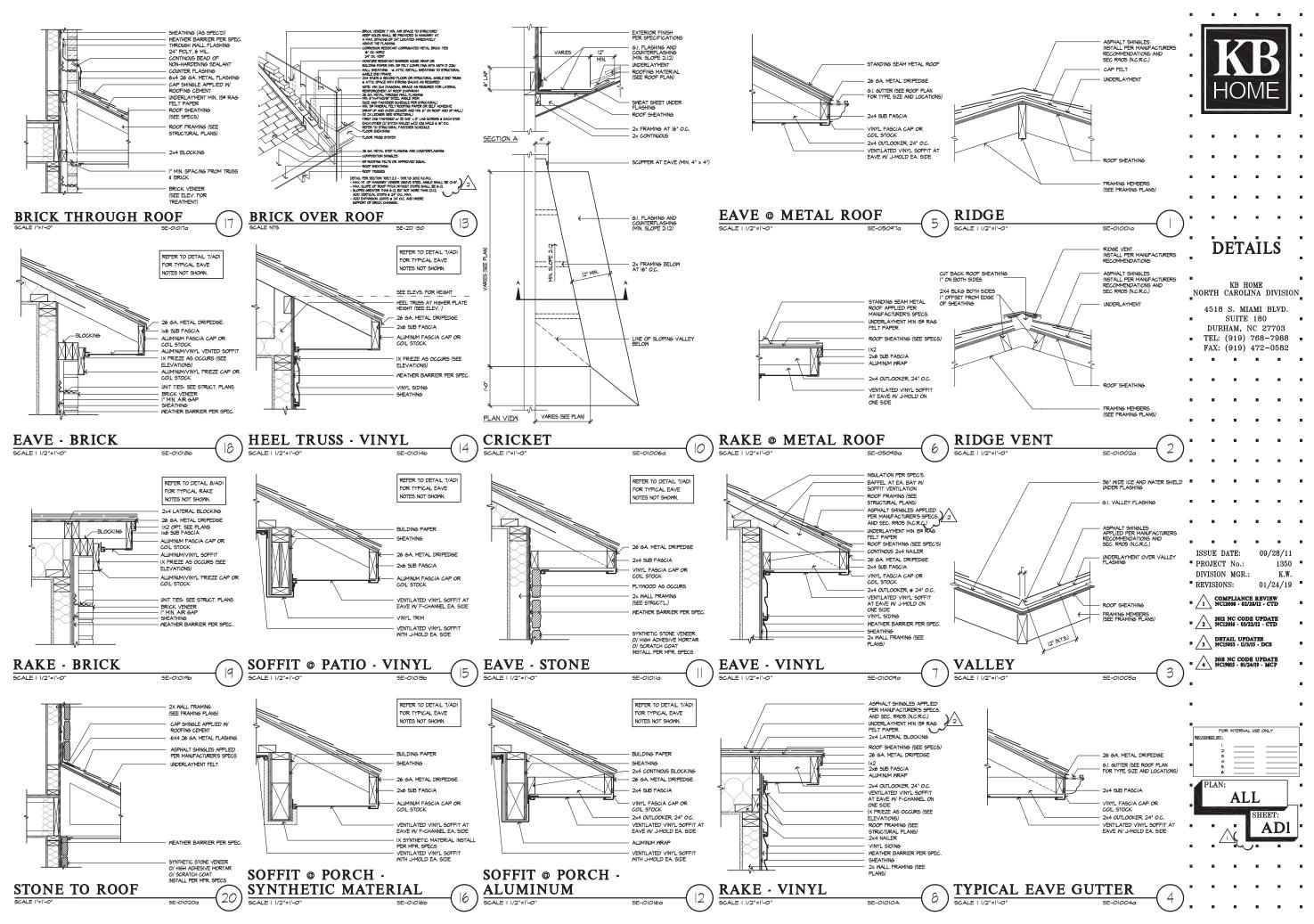
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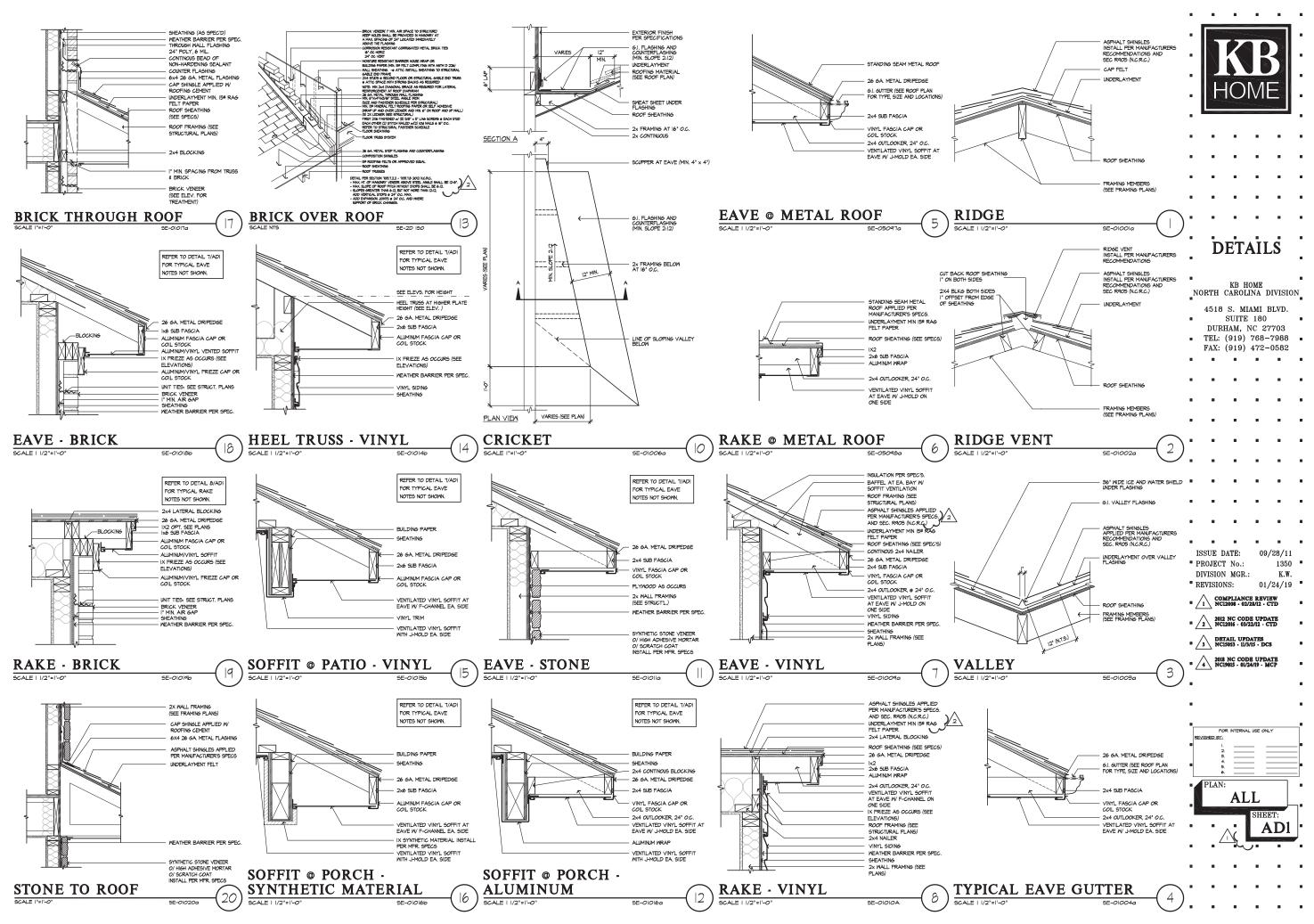
	UTILITY LEGEND 2019 NG-R/ 2011 NEG.	
€	120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12° ABV, FIN, FLR, TYPICAL U.N.O.	
⇒ MP GFI	120V (TR) RECEPTACLE W/ GFI CIRCUIT	
₿мр °	W/ WATER RESISTANT HOUSING	
∋ e=ı ⊉	120V (TR) RECEPTACLE W GFI CIRCUIT	
Ч	FUSED DISCONNECT	HOME
)	1207 (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER	
€	120V (AFGI & TR) DUPLEX CONVENIENCE RECEPTACLE SMITCH CONTROLLED, 1/2 HOT	. <b></b> ®,
∋ 220 v	220V SINGLE CONVENIENCE RECEPTACLE	
	HEIGHT NOTED AS PER PLAN	
<del>0-</del>	TWO-POLE LIGHT SMITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER U.N.O.	
Գ5 Գ4	THREE-POLE LIGHT SWITCH	
	FOUR-POLE LIGHT SWITCH WALL MOUNTED LIGHT FIXTURE	
)- W.P.	W/ WATER RESISTANT HOUSING	
>	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	
≻	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	
>	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE	
)-	CEILING MOUNTED FLUORESCENT	
		NORTH CAROLINA
2	HANGING INCANDESCENT LIGHT FIXTURE	40' SERIES
Ð	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)	KB HOME
2	RECESSED INCANDESCENT LIGHT FIXTURE	NORTH CAROLINA DIVISION
3	LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS	4518 S. MIAMI BLVD.
} w.p.	RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING	SUITE 180
3	RECESSED FLUORESCENT LIGHT FIXTURE	DURHAM, NC 27703 TEL: (919) 768-7988
	RECESSED EXHAUST FAN	FAX: (919) 472-0582
2	RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION	
	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION	
)	INCANDESCENT WALL SCONCE	
	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET	2018 NORTH
		<b>CAROLINA STATE</b>
<b>n</b> n i	24"×48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	BUILDING
		CODES
П		
∐¦ –	12"x46" FLUORESCENT LIGHT	
	BOX (CEILING MOUNTED)	
L		
Ð	OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O.	
Ð	CEILING MOUNTED JUNCTION BOX	
9	WALL MOUNTED JUNCTION BOX	
•••	DOOR CHIME CATV RECEPTACLE	ISSUE DATE: 03/13/17
Ð	PUSH BUTTON	PROJECT No.: 1350999:56
4	PHONE OUTLET	DIVISION MGR.: MCP
	SERVICE BOX	REVISIONS: 03/22/19
+ +18	HOSE BIB	REVISIONS     NCIS012NCP- 3/13/18 DS
≁нв +см	HOSE BIB W/ S.O.V. WATER STUB FOR ICE MAKER	ADD CRAWL SPACE
	APPROVED CEILING MOUNTED	• <u>2</u> NCI8024NCP- 7/24/18 CTD
9	SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	a JUVISION REVISIONS NCI8041NCP- 9/27/18 CTD
ଚ	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	
	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN) GAS TAP	* 4 NCI9015NCP/ 03/15/19 / CTD
	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	B S DIVISION REVISIONS NCI9017NCP/ 03/22/19 / CTD
¥	BUT NO MORE THAN 48" FROM GAS OUTLET	
<u>5</u> M	ITCHING FOR 24" MIN. SEPERATION DMS W/ CLG. FAN OF ELECTRICAL BOXES	
OP	TIONS AS SHOWN BELOW	PP, MASON, PLAN REVISIONS
GHT / F 1/2 НО		
		•
_	<u> </u>	-
SECC	NDARY MASTER GARAGE	-
MEC	NOTES	PLAN:
SHO	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE AN FOR INTENT ONLY. THESE SYSTEMS SHALL BE NEERED BY OTHERS. THE CONTRACTOR SHALL BE	140.1445-R
PLA	CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE	SHEET:
OF F	IXTURE.	5.2
RECI IN A	VIDE SMITCH, LIGHT, I207 (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 2207 RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	J.2
. SMO	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO	
	LOCATED AT HIGHEST POINT OF CEILING =00T #4 REBAR FOR UFER GROUND AND	SPEC. LEVEL 1
ADD	FOOT #4 REBAR FOR UPER GROUND AND ITIONAL COLD WATER GROUND. REFER TO SLAB RFACE PLAN FOR LOCATION.	RALEIGH-DURHAM
	AMP ELECTRICAL PANEL (DEFAULT), ELECTRICAL	40' SERIES
PIA	N CHECK PERMIT REQUIRED IF LOAD EXCEED 400	

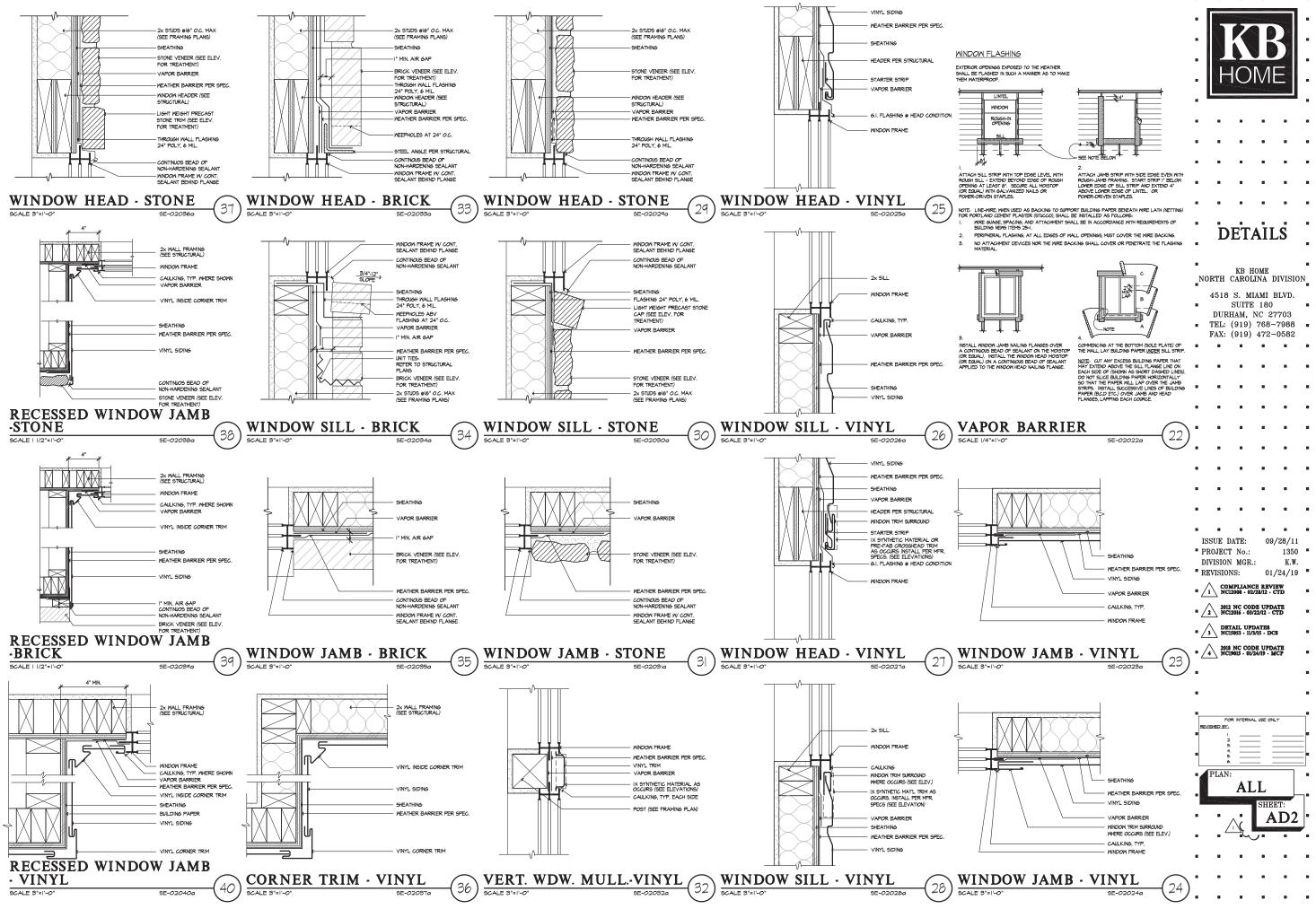


IO'XIO' COVERED SCREENED PATIO AT FLOOR PLAN 'B'

ELEVATION NOTES	
NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD MITH FASCIA CAP	
<ol> <li>G.I. FLASHING</li> <li>G.I. FLASHING &amp; SADDLE/CRICKET</li> </ol>	
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	
<ul> <li>I.5. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.</li> </ul>	
16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE	
17. SHAKE SIDING 18. STONE VENEER PER SPECS	
19. BRICK/MASONRY VENEER PER SPECS	
20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE	
22. ROWLOCK COURSE	
23. FRIEZE BOARD 24. SIDING W/ 4" CORNER TRIM PER SPECS	
25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM	
27. LIGHT WEIGHT PRECAST STONE TRIM	NORTH CAROLINA
28. P.T. LUMBER RAILINGS (+36" U.N.O.) 29. WRAP	40' SERIES
30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.	KB HOME
31. BRACKET OR KICKER - FYPHON OR EQ. 32. ENTRY DOOR	NORTH CAROLINA DIVISION
33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	4518 S. MIAMI BLVD.
34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP	<ul> <li>SUITE 180</li> <li>DURHAM, NC 27703</li> </ul>
36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF	TEL: (919) 768-7988
38. KEYSTONE	FAX: (919) 472-0582
39. SOLDIER CROWN 40. JACK SOLDIER COURSE	
41. WATER TABLE 42. ATRIUM DOOR	
43. PILASTER - SEE ELEVATION FOR TYPE	2018_NORTH
# PARTIAL PLAN NOTES	
NOTE: NOT ALL KEY NOTES APPLY.	CAROLINA STATE
31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5 37. FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	BUILDING
38. NOT USED	
39. LINE OF CEILING BREAK	CODES
40. INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	
41. LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4 43. 2x6 WALL	
44. 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	
45. DOUBLE 2×4 WALL	
46. LINE OF FLOOR ABOVE	
47. LINE OF FLOOR BELOW 48. EXTERIOR RAIL	
55. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" STPSUM BOARD	ISSUE DATE: 03/13/17
AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE	■ PROJECT No.: 1350999:56
56. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CELLING, PROVIDE (1) LAYER OF %" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CELLING: PROVIDE (1) LAYER OF 1/3"	DIVISION MGR.: MCP
SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF 1/2" GYPSUM BOARD	REVISIONS: 03/22/19
57. EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	B 1 REVISIONS NCI8012NCP- 3/13/18 DS
60. SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	ADD CRAWL SPACE
NOTE: NOT ALL KEY NOTES APPLY.	* 2 NC18024NCP- 7/24/18 CTD
I. CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.	B 3 DIVISION REVISIONS NCI804INCP- 9/27/18 CTD
2. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1'-0" MIN. TOWARD DOOR OPENING.	
<ol> <li>CONCRETE FOUNDATION PER STRUCTURAL.</li> <li>CONCRETE STOOP: 36"x36" STANDARD</li> </ol>	* 4 NC19015NCP/ 03/15/19 / CTD
<ol> <li>CONCRETE STOOP: 36'x36" STANDARD SLOPE I/4" PER FT. MIN.</li> <li>CONCRETE DRIVEWAY SLOPE I/4" PER FT. MIN. AWAY</li> </ol>	DIVISION REVISIONS     NCI9017NCP/ 03/22/19 / CTD
FROM GARAGE DOOR OPENING.	PP, MASON, PLAN REVISIONS
<ol> <li>PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.</li> <li>5" BRICK LEDGE FOR MASONRY VENEER.</li> </ol>	■ <u>6</u> NC20018NCP/ 03/16/20 / KBA
8. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH	
NITH MIN. 12" EMBEDMENT INTO CONCRETE. 9. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.	
10. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE	
PRIOR TO POUR OF SLAB. II. 4" MIN. 8 1/4" MAX. TO HARD SURFACE.	
<ol> <li>A/C PAD. VERIFY LOCATION.</li> <li>36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN.</li> </ol>	
L	PLAN:
	140.1445-R
Vert	SHEET:
NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE	••••••••••••••••••••••••••••••••••••••
NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT SHOWN HERE	SPEC. LEVEL 1
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT	
SHOWN HERE	RALEIGH-DURHAM
NOTE: REFER TO BASIC SLAB PLAN FOR INFORMATION NOT SHOWN HERE	40' SERIES

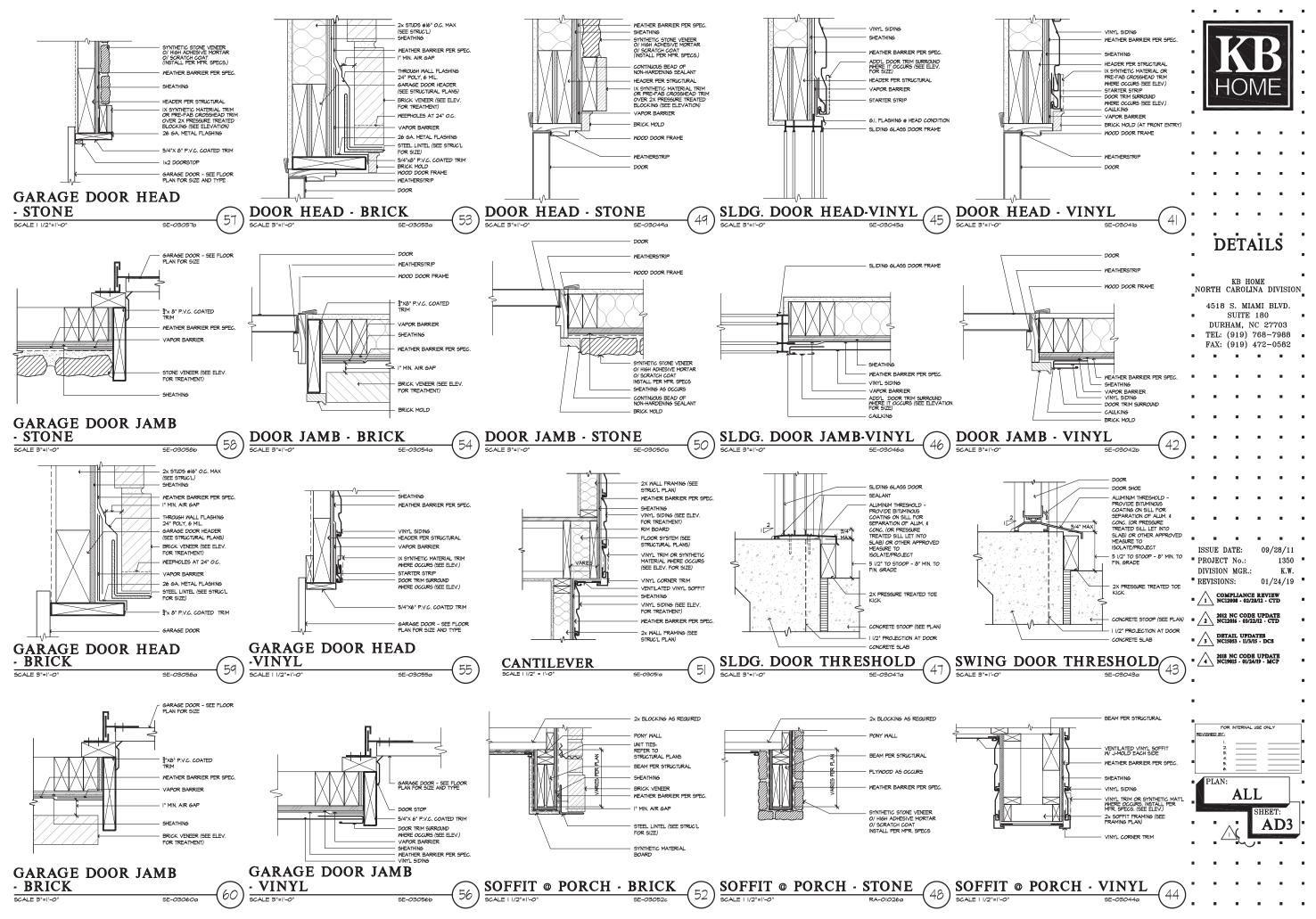


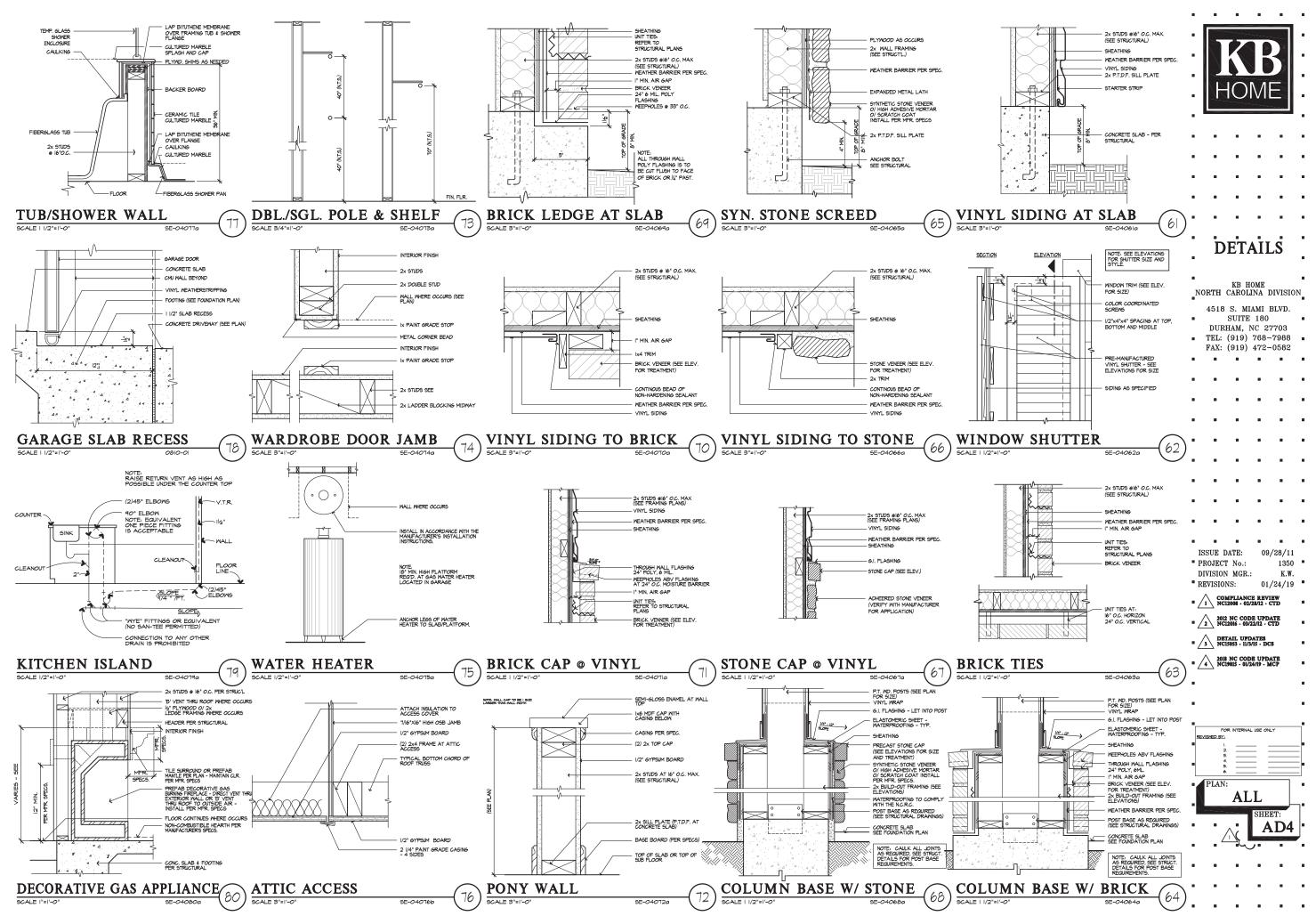


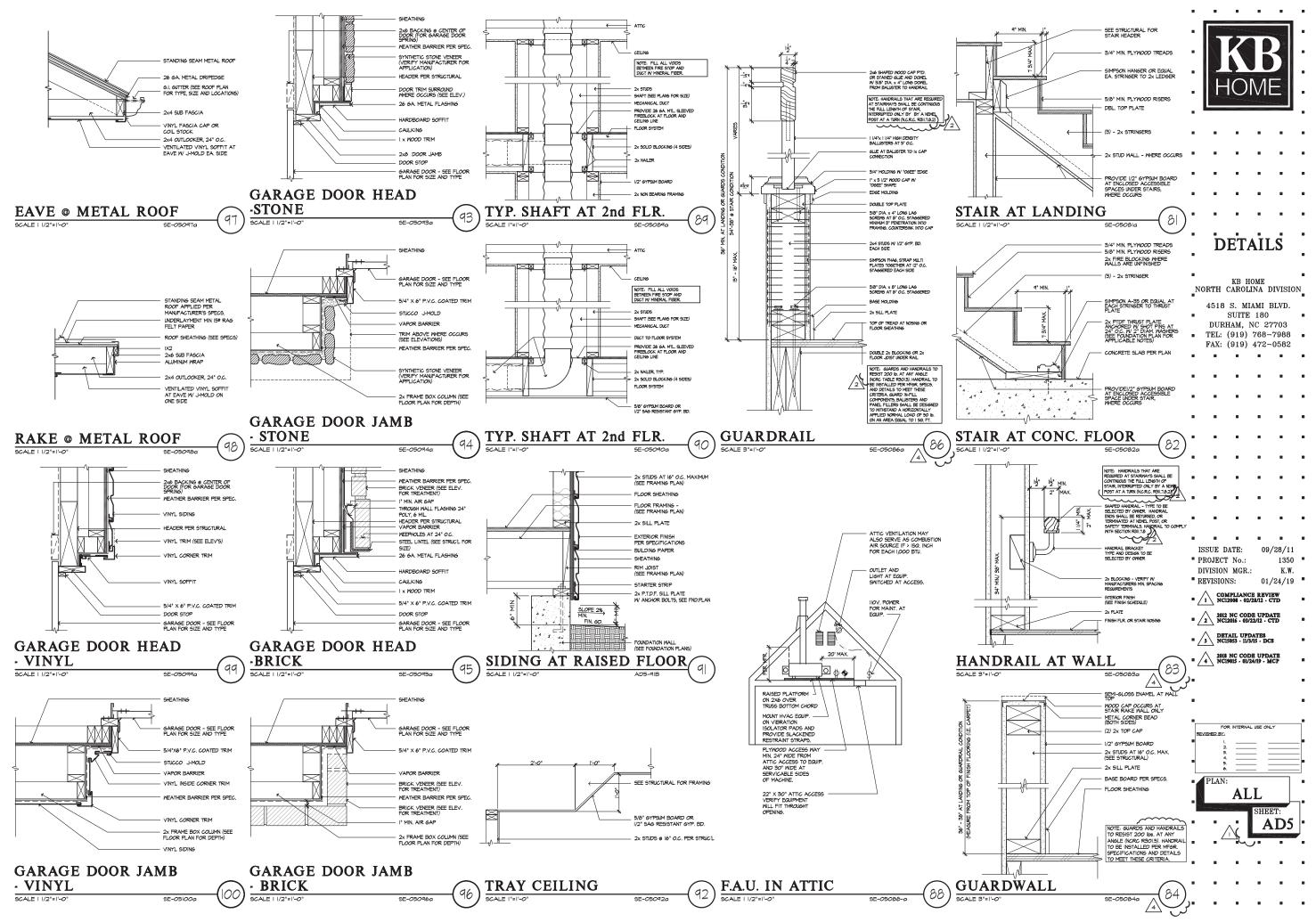


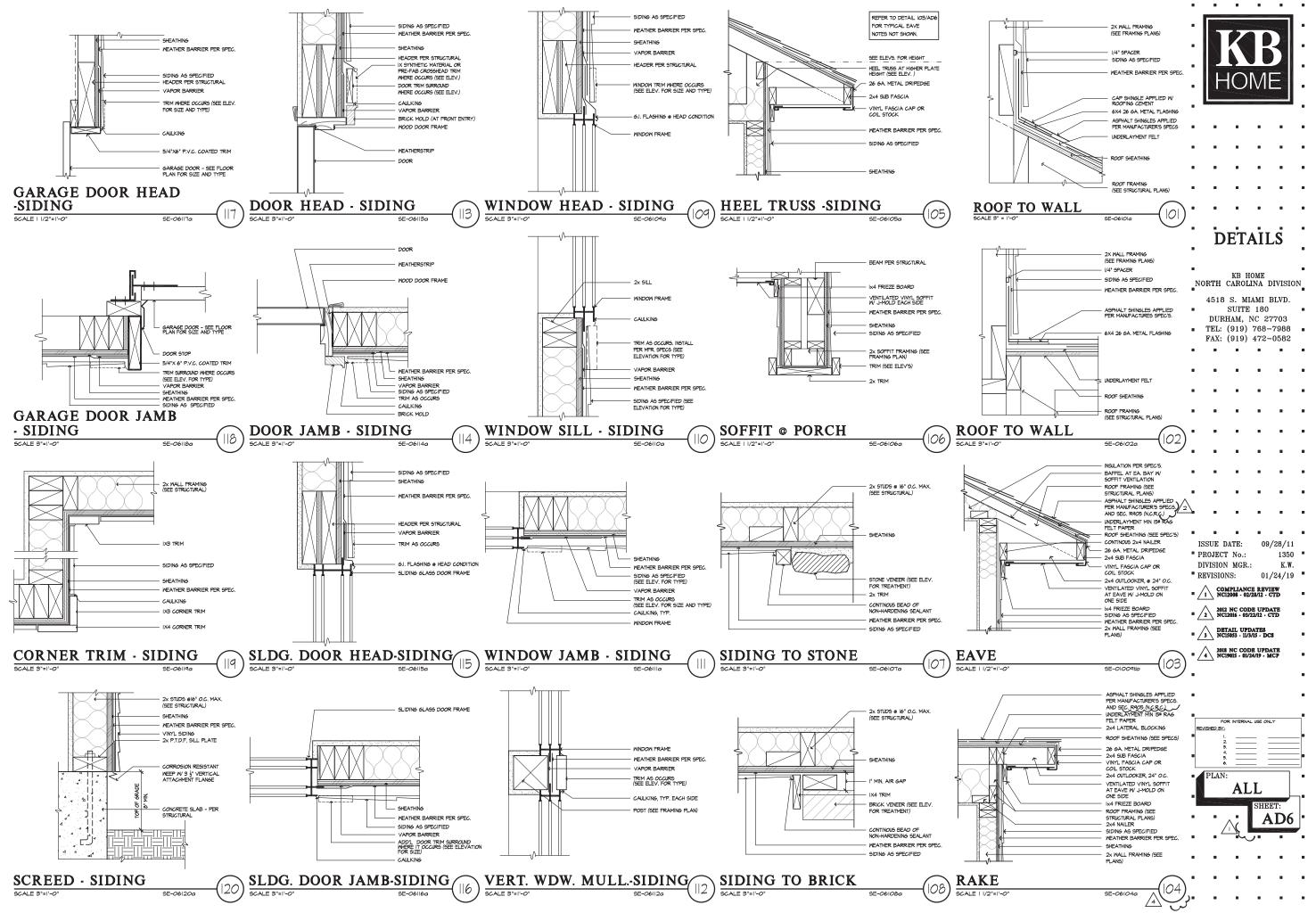


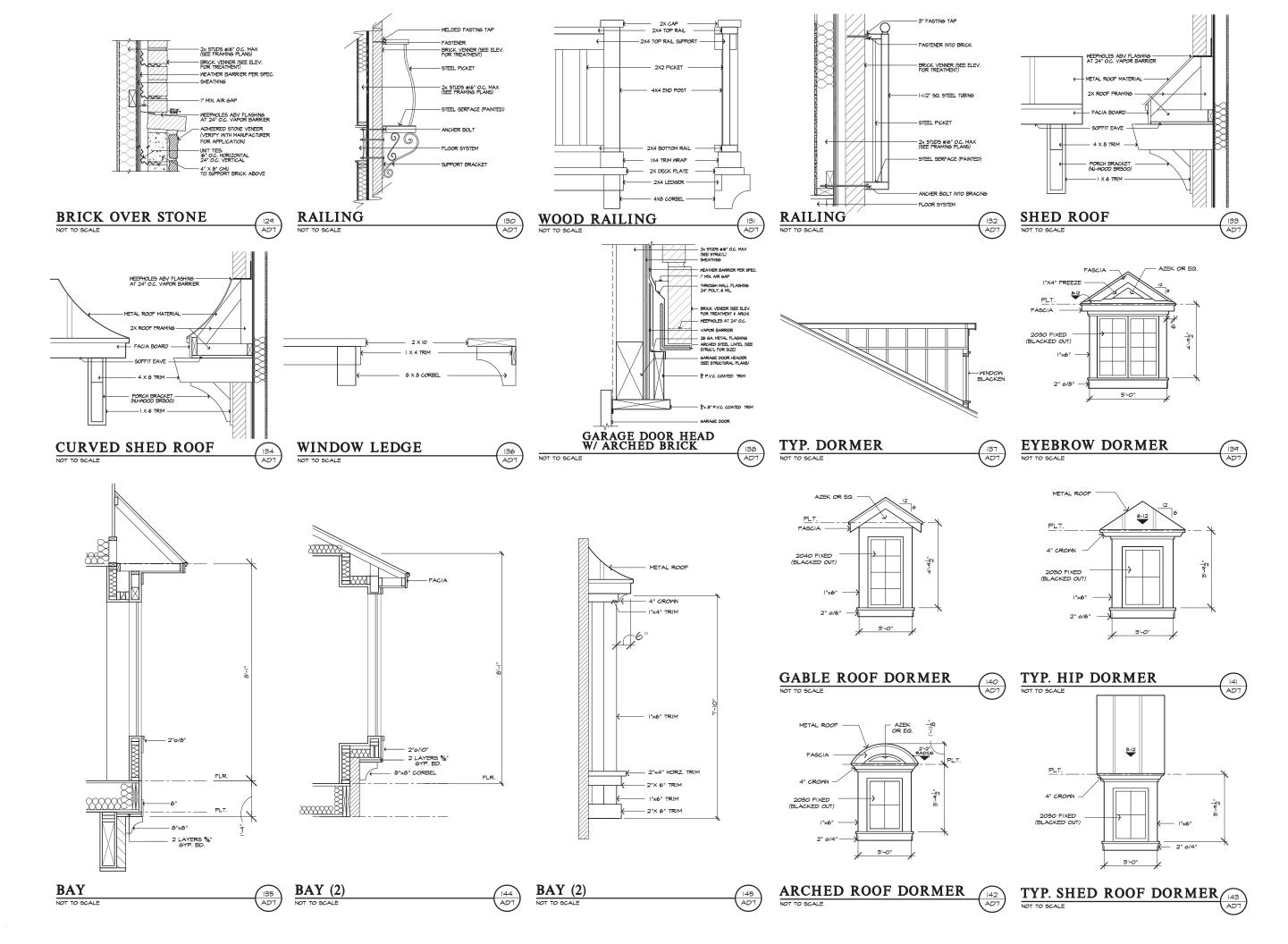




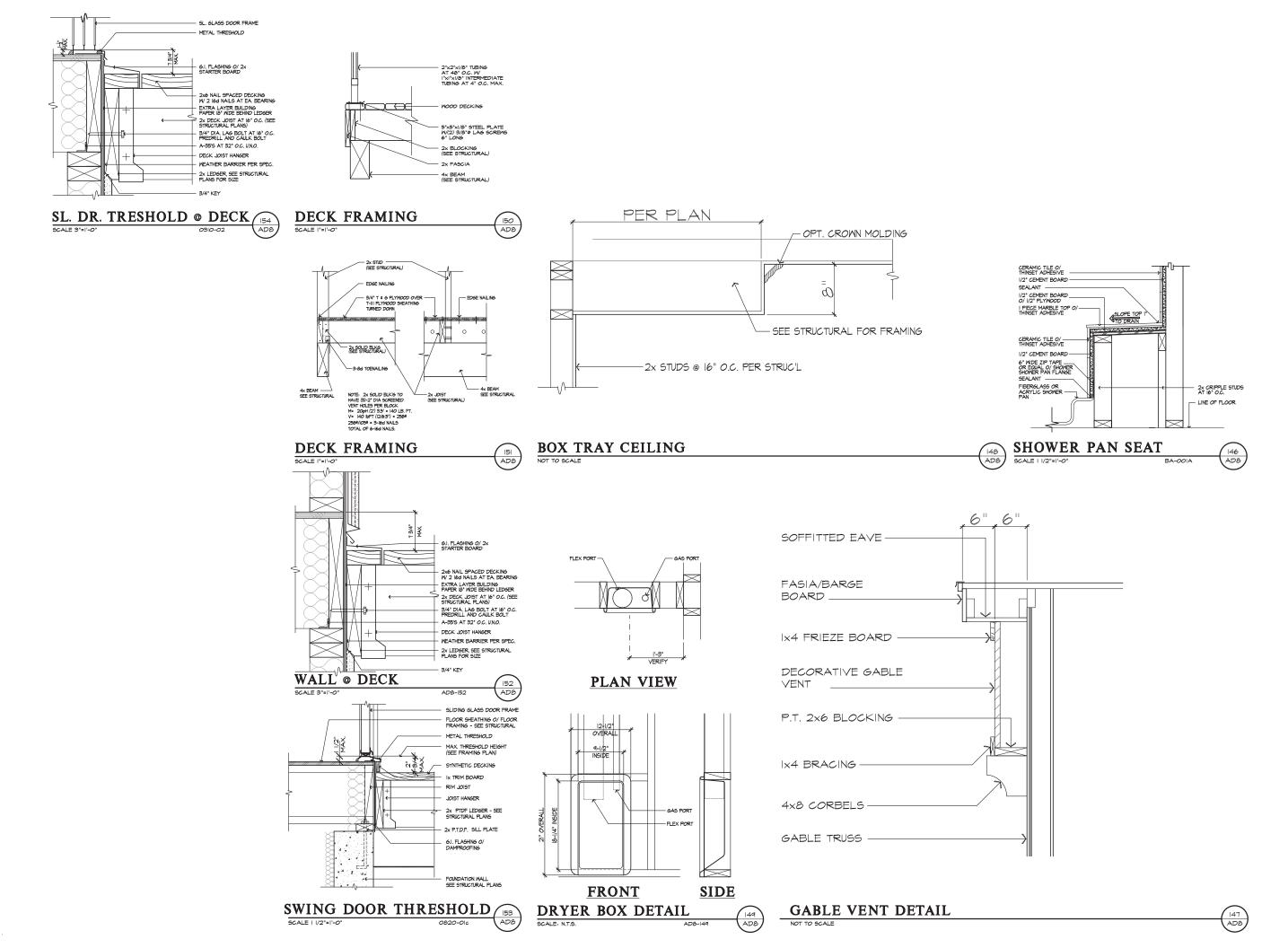




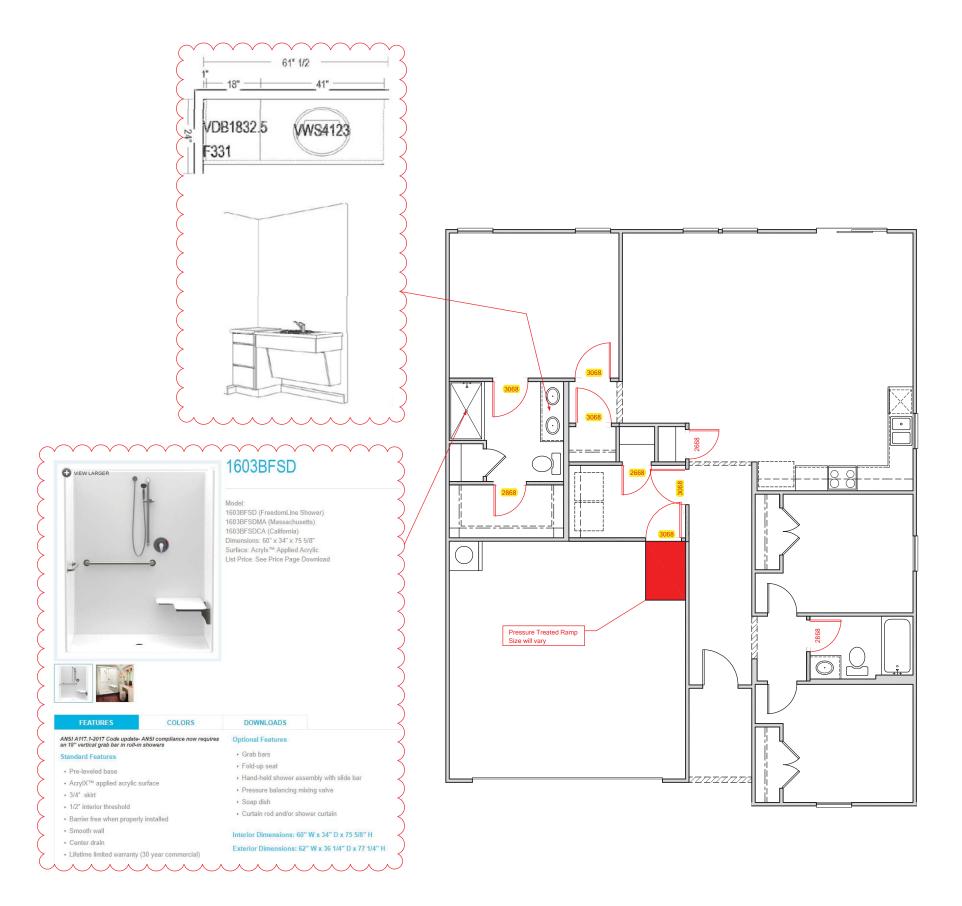


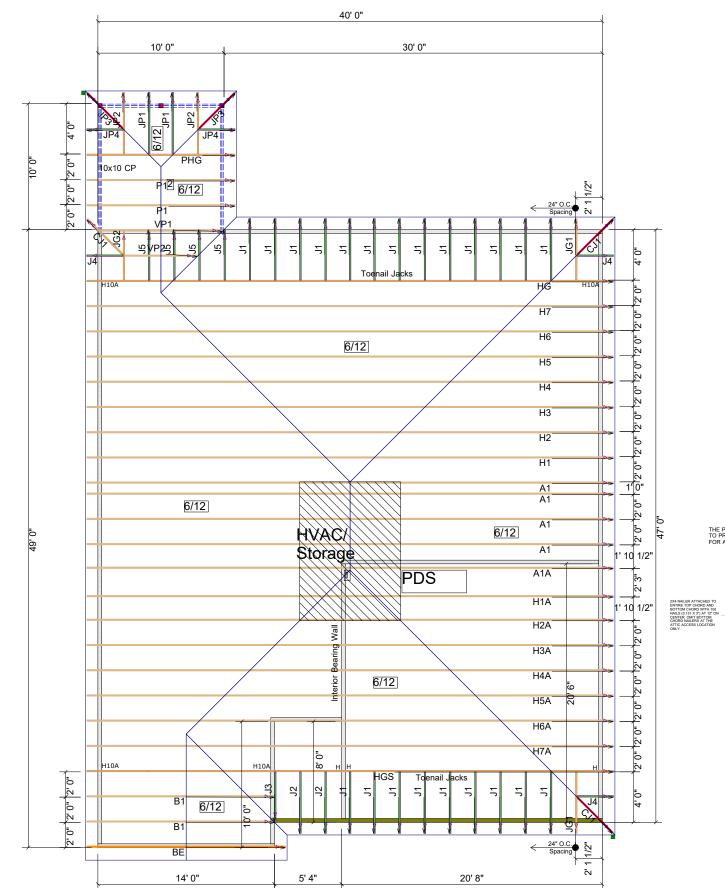


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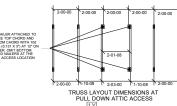
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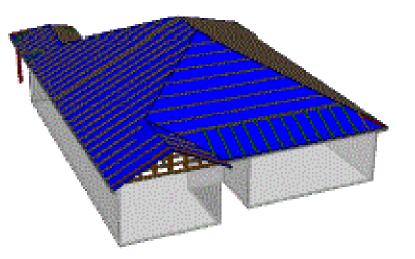






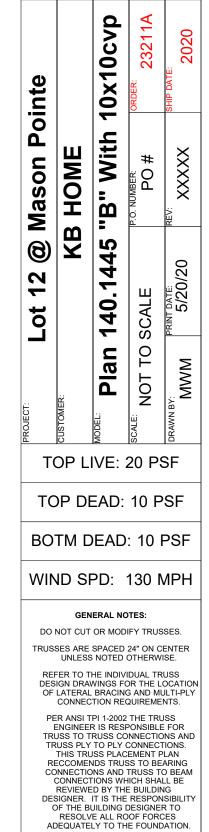
Layout Spacing is set for PDS-alt. If PDS in laundry is used, spacing can be adjusted in field for 25 1/2" Do not adjust spacing for H1A-Hip Roof

HANGER LIST						
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H2.5A- As Info	Simpson	H2.5A	110			
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H10A	Simpson	H10A	4			





DEDICATED TO QUALITY AND EXCELLENCE 200 EMMETT ROAD DUNN, NORTH CAROLINA 28334 PHONE: 910-892-8400 FAX: 910-892-8384



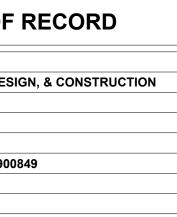
## **STRUCTURAL PLANS FOR:**

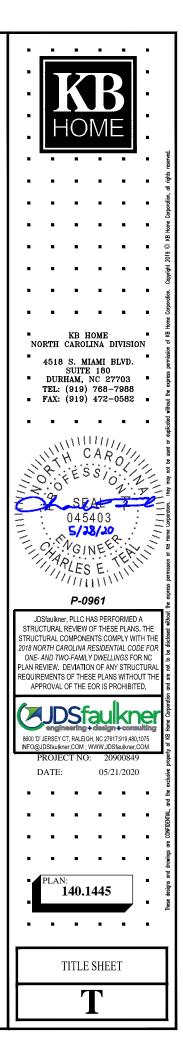


# 140.1445 - RH GARAGE

REV DATE	ARCH PLAN VERSION	REVISION DESCRIPTION	DRE
05/18/2020	145.1445 - RH 03.16.2020	INITIAL SETUP OF LAYOUT	ABS
05/18/2020	145.1445 - RH 03.16.2020	CREATED LOT-SPECIFIC STRUCTURAL LAYOUT FROM MASTER PLAN AND EWP LAYOUT	AB

NC	TES	CODE	ENGINEER OF
<ol> <li>ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS CONSULTING &amp; DESIGN, PLLC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.</li> <li>DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.</li> </ol>	<ol> <li>PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:</li> <li>A. IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.</li> <li>B. IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.</li> </ol>	ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER: 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE	JDSfaulkner, PLLC ENGINEERING, BUILDING DESIC CONSULTING SERVICES 8600 'D' JERSEY COURT RALEIGH, NC 27617 PROJECT REFERENCE: 209008





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

### GENERAL

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

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

SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC 3. PROVISIONS, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY

### DESIGN LOADS

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

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

KS

KING STUD COLUMN

ABBREVIATIONS

ADDR	EVIATIONS		
		LVL	LAMINATED VENEER
ABV	ABOVE		LUMBER
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ALT	ALTERNATE	MECH	MECHANICAL
	BEARING	MFTR	MANUFACTURER
	BASEMENT	MIN	MINIMUM
CANT	CANTILEVER	NTS	NOT TO SCALE
CJ	CEILING JOIST		OVERALL
CLG	CEILING		
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
со	CASED OPENING	R	RISER
COL	COLUMN	REF	REFRIGERATOR
CONC	CONCRETE	RFG	ROOFING
CONT	CONTINUOUS	RO	ROUGH OPENING
D	CLOTHES DRYER	RS	ROOF SUPPORT
DBL	DOUBLE	SC	STUD COLUMN
DIAM	DIAMETER	SF	
DJ	DOUBLE JOIST	SH	
DN	DOWN	SHTG	
	DEEP	SHW	SHOWER
DR	DOUBLE RAFTER	SIM	SIMILAR
DSP	DOUBLE STUD POCKET		SINGLE JOIST
EA	EACH		STUD POCKET
EE	EACH END		SPECIFIED
EQ		SQ	SQUARE
EX	EXTERIOR	т	TREAD
FAU	FORCED-AIR UNIT		TEMPERED GLASS
FDN	FOUNDATION	тнк	THICK(NESS)
FF	FINISHED FLOOR	тJ	TRIPLE JOIST
FLR	FLOOR(ING)	TOC	TOP OF CURB / CONCRETE
FP	FIREPLACE	TR	TRIPLE RAFTER
FTG	FOOTING	TYP	TYPICAL
HB	HOSE BIBB	UNO W	UNLESS NOTED OTHERWIS
HDR	HEADER		OLO ITTLO WAOTER
HGR	HANGER	WH	WATER HEATER
JS	JACK STUD COLUMN		
		XJ	EXTRA JOIST

### MATERIALS

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

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

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

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

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

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

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

Eb = 2900 PSI Ev = 290 PSI E = 2.0E6 PSI

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

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

- 6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI
- 7. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.
- 8. POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS, MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.
- 9. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2
- 10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES
- 11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD
- 12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND, EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.
- 13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

### FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS
- 2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.
- 3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES
- CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER 4 TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3 AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
  - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
  - FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER В. SECTION R405
- 5. PLAIN-MASONRY WALL DESIGN TO BE PER <u>TABLE R404.1.1(1)</u> OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
  - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM. WALL REINFORCING SHALL BE PLACED ACCORDING TO
  - FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
  - FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER C. SECTION R405
- WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE SECTION R403.1.6 FOR SPECIFIC CONDITIONS.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION . UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION
- 8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).
- 10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.
- 11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.
- 12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

## FRAMING

- 3.
  - STRUCTURAL COMPONENTS.
  - CONSTRUCTION

7.

- LUMBER

  - DETAILS.
- SPECIFICATIONS

- MANUFACTURER. C.

- DRAWINGS.

- EACH END OF FLITCH BEAM

- SHALL BE MET.

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

ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.

NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.

SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER

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

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

PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED

A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA, ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.

ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# LIPLIET CAPACITY

C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND

ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER

ENGINEERED WOOD ELOOR SYSTEMS AND ROOF TRUSS SYSTEMS A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION. B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS

INSTALLATION OF THE SYSTEMS SHALL BE PER

MANUFACTURER'S INSTRUCTIONS. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE

10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED. WITH A MINIMUM OF THREE STUDS. UNO.

ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO

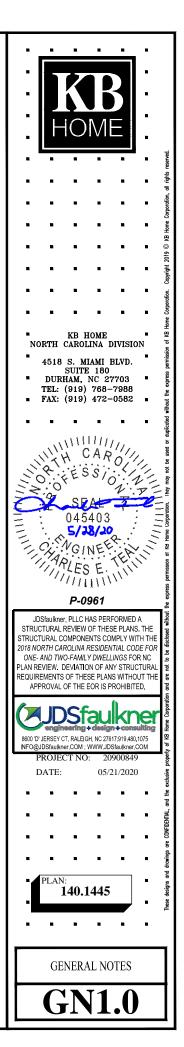
12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE, WITH TWO BOLTS TO BE LOCATED AT 6" FROM

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

14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.

16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE **UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF** THE APPLICABLE CODE (SEE TITLE SHEET), REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM



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

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

DETAILS AND NOTES ON DRAWINGS GOVERN.

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

FRAMING MEMBER SIZE	MAX HEIGHT (PLATE TO PLATE) 115 MPH ULTIMATE DESIGN WIND SPEED
2x4 @ 16" OC	10'-0"
2x4 @ 12" OC	12'-0"
2x6 @ 16" OC	15'-0"
2x6 @ 12" OC	17'-9"
2x8 @ 16" OC	19'-0"
2x8 @ 12" OC	22'-0"
(2) 2x4 @ 16" OC	14'-6"
(2) 2x4 @ 12" OC	17'-0"
(2) 2x6 @ 16" OC	21'-6"
(2) 2x6 @ 10" 00 (2) 2x6 @ 12" OC	25'-0"
(0) 0-0 @ 401 00	071.01
(2) 2x8 @ 16" OC (2) 2x8 @ 12" OC	27'-0" 31'-0"
., 0	

a. ALL HEIGHTS ARE MEASURED SUBFLOOR TO TOP OF WALL PLATE.

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

### ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

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

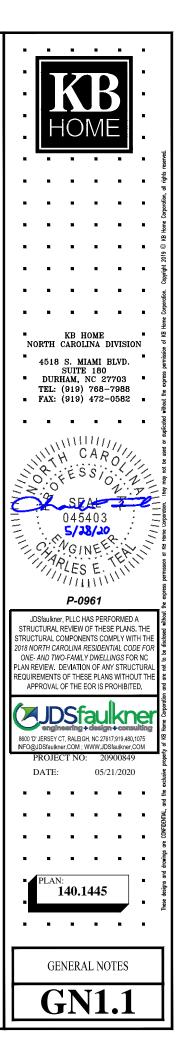
STICK-FRAMED ROOF - STRUCTURAL NOTES

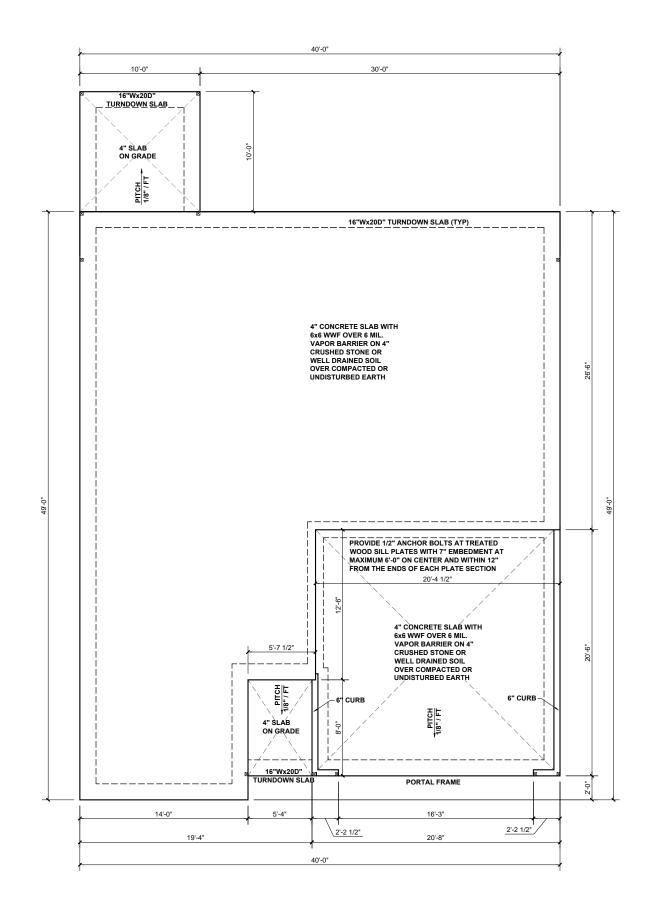
- 1. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
- 2. FUR RIDGES FOR FULL RAFTER CONTACT.
- 3. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- 4. DENOTES OVER-FRAMED AREA
- 5. MINIMUM 7/16" OSB ROOF SHEATHING
- PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
- 7. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- 8. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

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

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

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





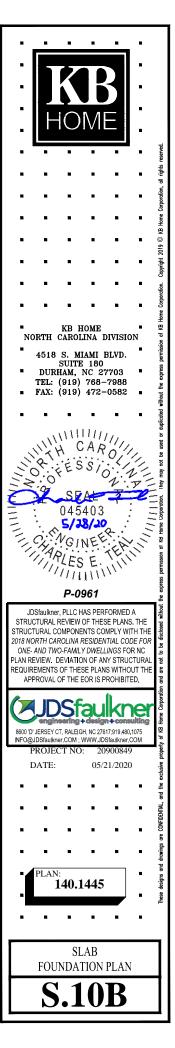
**SLAB FOUNDATION PLAN - 'B'** 

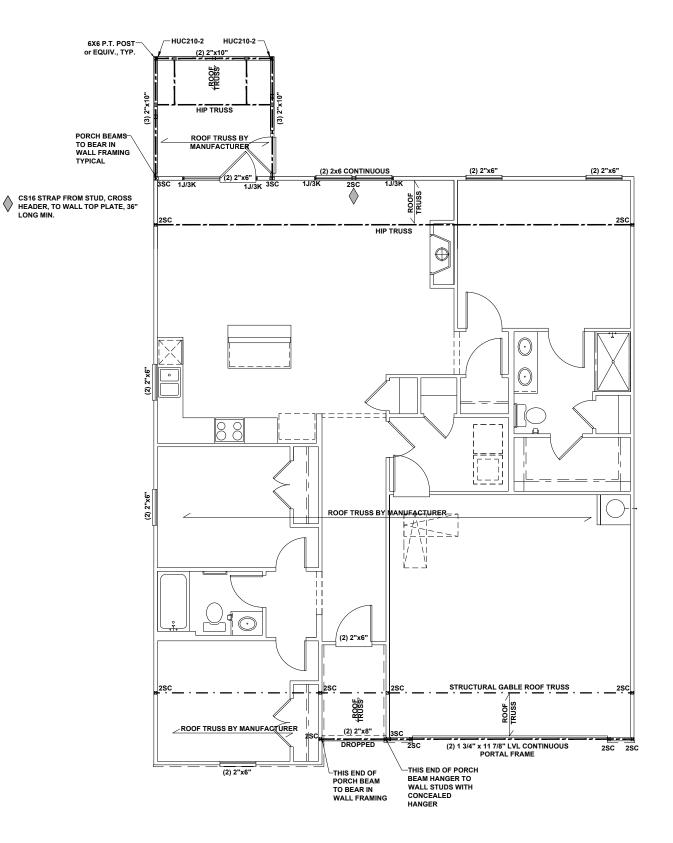
SCALE: 1/8"=1'-0"

### BEAM & POINT LOAD LEGEND

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

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





**FIRST FLOOR CEILING FRAMING PLAN - 'B'** 

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

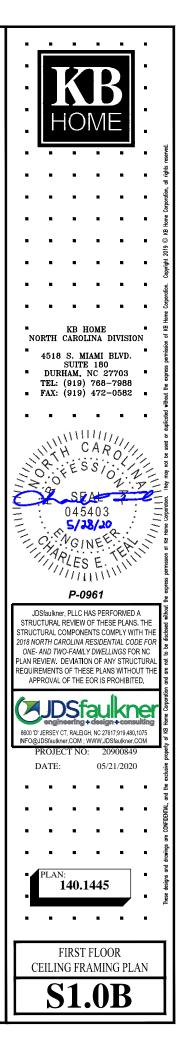
### BEAM & POINT LOAD LEGEND

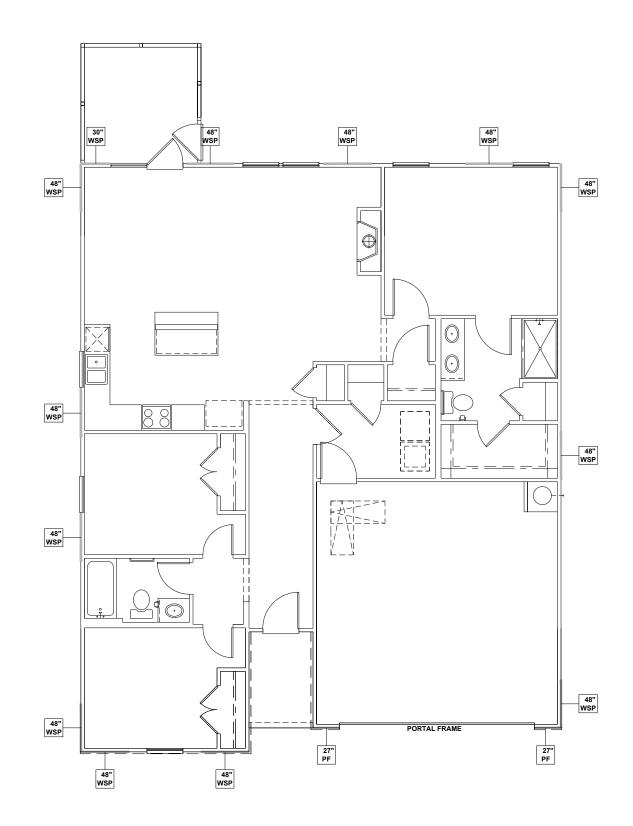
INTERIOR LOAD BEARING WALL
 ROOF RAFTER / TRUSS SUPPOR
 DOUBLE RAFTER / DOUBLE JOIS
 STRUCTURAL BEAM / GIRDER
 WINDOW / DOOR HEADER
POINT LOAD TRANSFER
POINT LOAD FROM ABOVE

**ROOF RAFTER / TRUSS SUPPORT** DOUBLE RAFTER / DOUBLE JOIST STRUCTURAL BEAM / GIRDER WINDOW / DOOR HEADER POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

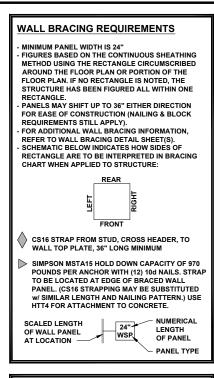
- ALL FRAMING TO BE #2 SPF MINIMUM
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTE w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
- PROVIDE CONTINUOUS BLOCKING THROUGH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



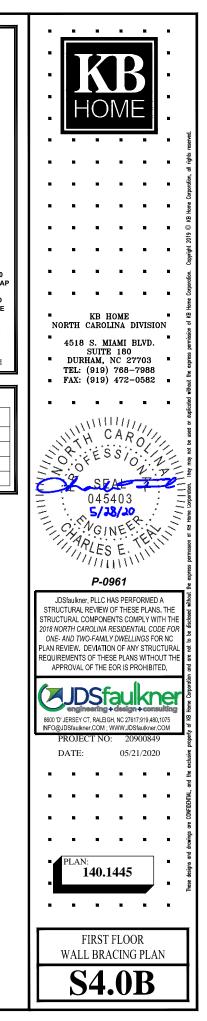


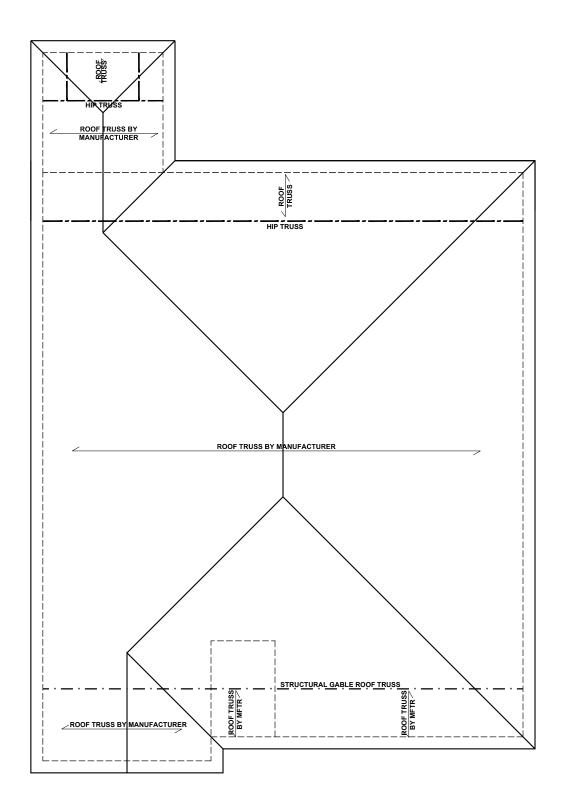
## **FIRST FLOOR WALL BRACING PLAN - 'B'**

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



WALL BRACING: RECTANGLE 1		
SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	6.5 FT.	14.75 FT.
RIGHT	5.5 FT.	12.0 FT.
REAR	6.5 FT.	14.5 FT.
LEFT	5.5 FT.	16.0 FT.





**ROOF FRAMING PLAN - 'B'** 

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

BEAM & POINT LOAD LEGEND	
INTERIOR LOAD BEARING WALL	
ROOF RAFTER / TRUSS SUPPORT DOUBLE RAFTER / DOUBLE JOIST	
STRUCTURAL BEAM / GIRDER     WINDOW / DOOR HEADER	
POINT LOAD TRANSFER	
POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER	e e e e e e e e e e e e e e e e e e e
	iğhls reservec
TRUSSED ROOF - STRUCTURAL NOTES	9
1. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.	Corporation
2. DENOTES OVER-FRAMED AREA	KB Herre Corporation.
3. MINIMUM 7/16" OSB ROOF SHEATHING	
4. TRUSS LAYOUT AND PLACEMENT BY	Copyright 2019
MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS	ootijon.
MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL	theme Corporation.
DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.	■ KB HOME ■ 型 NORTH CAROLINA DIVISION ち
5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.	4518 S. MIAMI BLVD.
6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT	DURHAM, NC 27703
EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.	■ FAX: (919) 472-0582 ■ to
7. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.	α συβεστεσ
	H CARO
TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING	SO FESSION THE
TRUSSES SHALL BE ATTACHED TO SUPPORT WALL	
FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT	- 045403
RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO	5/38/20
SUPPORTING MEMBER PER SCHEDULE:	AC INET EN S
	ALES E.
SUPPORTING MEMBER PER SCHEDULE: ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN	P-0961
SUPPORTING MEMBER PER SCHEDULE: ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS. <u>ROOF PLAN</u> UP TO 28' <u>CONNECTOR</u> NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION OVER 28' (1) SIMPSON H2.5A HURRICANE	
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