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# CODE INFORMATION

N.CR.	NORTH CAROLINA RESIDENTIAL CODE
N.CB.	NORTH CAROLINA BUILDING CODE
N.CM.	NORTH CAROLINA MECHANICAL CODE
N.CP.	NORTH CAROLINA PLUMBING CODE
N.CF.	NORTH CAROLINA FUEL GAS CODE
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
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
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
U.L.	UNDERWRITERS LABORATORIES, INC.

CODE ABBREVIATIONS

# **REVISION LIST**

ISED	LOG NUMBER
, 2.1, 2.2, 2.3, 3.C2, 3.C3, 3.C4, 3.C5, 4.1, 5.1, 5.2, 5.4	NCI60I3P
, 2.1, 4.1 4.2, 4.3, 4.4, 5.1, 5.4, 5.6	NC16033P
I, 3.AI -3.A4, 3.A6, 3.BI, 3.B3 -3.BT, 3.CI, 3.C2, 3.C4 -3.C7,	
D7, 4.I -4.4, 5.I -5.6	NCIBOBONCP
, 2.I, 3.B5, 3.C5, 3.D5, 4.I ,5.I, 5.3	NCI8025NCP
2, GN3, 3.AI, 3.A5, 3.B2, 3.B6, 3.C2, 3.C6, 3.D2, 3.D6,	
- 8.08, 9.AI - 9.04	NCI90I5NCP
, 2.1, 3.A3, 3.B1, 3.B4, 3.C1, 3.C4, 3.D1, 3.D4, 5.1	NCIGOITNOP
10, 8.B9, 8.B10, 8.C9, 8.C10, 8.D9, 8.D10	NCIGOBINCP
- 2.6, 3.Al - 3.D6	NCI9043NCP
.A3, S.A9,S.BI, S.B3, S.B9, S.CI, S.C3, S.C9, S.DI, S.D3, S.D9	
BI, 9.B3, 9.CI, 9.C3, 9.DI, 9.D3	NCI9056NCP
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## GENERAL REQUIREMENTS

- THE WORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR NDIRECTLY EMPLOYED BY ANY OF THEM
- 2 CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS:
  - ALL LANS, STATUTES, THE MOST RECENT BUILDING CODES, ORDINANCES, RULES, REGULATIONS, AND LANFUL ORDERS OF ALL PUBLIC AUTORITIES HAVING JURISDICTION OVER CONNER, CON-TRACTOR, ANY SUBCONTRACTOR, THE PROJECT SITE, THE WORK, OR THE PROSECUTION OF THE MORK.
  - 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. c.
- CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION CONTRACTOR SHALL CAREFULL'S STUDY HAD REVIEW THE CONSTRUCT DOCUMENTS AND INFORMATION FRINSHED 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 CONTRARY TO APPLICABLE CODE REQUIREMENTS, WITHOUT THE ARREPENT OF OWNER, CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH WORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, WITHOUT LIMITATION, THE COSTS OF CORRECTING DEFECTIVE WORK.
- CONTRACTOR SHALL PROVIDE CERTIFICATES OF INSURANCE ACCEPTABLE TO OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS, AND CAREFULLY COMPARE WITH THE CONSTRUCTION DOCUMENTS SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO CONTRACTOR BEFORE COMMENCING THE WORK ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN WRITING TO THE OWNER.
- CONTRACTOR SHALL PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IF CONTRACTOR BECOMES AWARE DURING THE PERFORMANCE OF THE WORK THAT THE CONSTRUCTION DOCUMENTS ARE NOT IN COM-PLIANCE WITH APPLICABLE CODE REQUIREMENTS.
- BY SUBMITTAL OF BID, CONTRACTOR WARRANTS TO OWNER THAT ALL MATERIALS AND EQUIPMENT TO BE FURNISHED ARE NEW UNLESS NOTED OTHERNISE 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 OR ITEMS DAMAGED BY SUB-CONTRACTOR'S PERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK, ALL SUB-CONTRACTOR WORKMASHIP SHALL BE OF OUALITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMAISHIP AT ANY THE, AND CORRECTIONS NEEDED TO ENHANCE THE QUALITY OF BUILDING MILL BE DONE IMMEDIATELY. EACH SUBCONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HISHERS SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEDRIS NOT LEFT BY OTHER SUB-CONTRACTORS, BUILDER MILL DETERMINE HOM SOON AFTER SUB-CONTRACTORS. BUILDER MILL DETERMINE HOM THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE.
- APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLOWABLE FAILIRE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOS MUST BE REFERRED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION 10. CI ARIFICATION
- 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 ARCHITECT'S 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 PRIOR TO THE ISSUANC OF THE FILML CONSTRUCTION SET WHICH WILL CONTAIN NO "BID SET" DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ARE NOT TO BE CONSTRUCT AS BID THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH. IANCE
- ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS 14
- TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS 15. TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
- SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR PITS, TREINCHES, ROOF OPENINGS, DEPRESSIONS, ETC. NOT SHOWN ON THE OTHER DRAWINGS.
- THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE USED ON OTHER MORK.

## SITE WORK

- 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. IF ANY SUCH TURIS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES.
- REFER TO THE SOILS REPORT AS PREPARED BY THE GEOTECHNICAL
- 4. REFER TO CIVIL ENGINEER'S CURRENT GRADING AND PLOT PLANS

## SITE WORK (continued)

- REFER TO THE LANDSCAPE ARCHITECT'S CURRENT GRADING PLAN AND CONSTRUCTION DOCUMENTS.
- ALL FOOTINGS SHALL REST ON FIRM NATURAL SOIL OR APPROVED COMPACTED FILL, REFER TO GEOTECHNICAL REPORT.
- EXCAVATIONS FOR FOOTINGS SHALL BE MADE TO THE WIDTH, LENGTH, AND DEPTH REQUIRED AND FINISHED WITH LEVEL BOTTOMS. EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER
- WHERE EXCAVATIONS ARE MADE TO A DEPTH GREATER THAN INDICATED, SUCH ADDITIONAL DEPTH SHALL BE FILLED WITH CONCRETE AS SPECIFIED FOR FOOTINGS.
- FILL MATERIALS SHALL BE FREE FROM DEBRIS, VEGETABLE MATTER AND OTHER FOREIGN SUBSTANCES. 10.
- 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.
- 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. 15.

## CONCRETE

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRETE
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH AS PRESCRIBED IN THE N.C.-R. AS WELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R 2
- MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318, SECTION 5.8.
- THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI 310, SECTION 5.10.
- THE CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, SECTION 5.11.
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND NITHIN 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 (&" H.J.D.) ABOVE FINISH GRADE.
- FOUNDATION MIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS, SLEEVES, BOLTS OR OTHER EMPEDDED MATERIALS AND ITEMS MUST BE SECURED AND APPROPRIATELY FASTENED IN THEIR PROPER LOCATIONS PRIOR TO THE FLACEMENT OF CONCRETE. SUB-12. CONTRACTOR SHALL VERIFY 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 2 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. RAND SHALL MEET THE PROPERTION SPECIFICATIONS OR THE PROPERTY SPECIFICATIONS OF ASTM C 270
- GROUT SHALL CONSIST OF CEMENTITIOUS MATERIAL AND AGGREGATE IN ACCORDANCE MITH 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) AND C-404-07 (GROUT).
- 7. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO A.S.T.M. C 150.
- 8. ALL BRICK SHALL CONFORM TO A.S.T.M. C 216, GRADE MM.
- UNLESS SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID RUNNING BOND PATTERN
- IO. ANCHORS, TIES AND WIRE FABRIC SHALL CONFORM TO N.C.-R
- ANCHOR TIES AND WIRE FABRIC FOR USE IN MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE N.C.-R

## METALS

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATIONS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO AISC/CRED 3.
- ANCHOR RODS SHALL BE SET ACCURATELY TO THE PATTERN AND DIMENSIONS CALLED FOR ON THE PLANS. THE PROTRUSION OF THE THREADED ENDS THROUGH THE CONNECTED MATERIAL SHALL BE SUFFICIENT TO FULLY ENGAGE THE THREADS OF THE NUTS, BUT SHALL NOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS
- FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED MODD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILCON BRONZE OR COPPERV VERIFY ACCEPTABLE FASTENERS FER CHEMICALS USED IN PRESERVE PRESERVITIVELY TREATED MODD W/ NC.-R. FASTENINGS FOR MOOD FOUNDATIONS SHALL BE AS REGUIRED IN AF&PA TECHNICAL REPORT NO. T.

## WOOD & FRAMING

## LUMBER

- THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R
- CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE R502.1.
- 3. ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R
- LUMBER AND PLYMOOD REQUIRED TO BE PRESEIVE PRESERVATIVELY TREATED IN ACCORDANCE WITH THE NO.R. AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION ACENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF THE PRODUCT AND THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARD COMMITTEE TREATED WOOD PROGRAM
- ALL LUMBER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS SPECIFICALLY INDICATED AS NET SIZE.

## GLUE LAMINATED LUMBER

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

#### PROTECTION AGAINST DECAY & TERMITE

- IN AREAS SUBJECT TO DECAY DAMAGE AS ESTABLISHED BY THE N.C.-R IN ACCAS SUCLED TO DEDATIONS SHALL REQUIRE THE USE OF NATURALLY THE FOLLOWING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY DURABLE WOOD ON MIN AOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH ANPA UI FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE. PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA U
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN L. 18 INCHES, OR WOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAAL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
- ALL EXTERIOR SILLS & PLATES THAT REST ON CONCRETE OR MASONRY 2. TERIOR FOUNDATION WALLS.
- SILLS AND SLEEPERS ON A CONCRETE OR MASONRY, UNLESS THE SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND IS SEPARATED FROM THE GROUND BY AN APPROVED IMPERVIOUS MOISTURE BARRIER
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- 5. 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 HEATHER , SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOPS BY ANIMPERVIOUS MOISTURE BARRIER.
- WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHE DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY MALLS OR CONCRETE MALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETKEEN THE WALL AND THE FURRING STRIPS OR FRAMING HEMBERS. ATTACHED 2
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DONN, INCLUDING FOSTS, GUARDRALLS, PICKETS, STEPS AND FLOOR STRUCTURE. COVENINGS THAT NOULD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS ARE ALLOWED.
- IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R 3.
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

# WOOD & FRAMING

## (continued)

8.

FLOOR FRAMING

ROOF FRAMING

- 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. 2
- 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 PLYWOOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS.

ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER, AND BE

NT TREATED WOOD

REE VICTORY JOINTS OF TRACE PERMITTING SHOLL COURT OVER AND DEPARTMENT TO COMPARE AND ALL PANELS SHALL OCCUR OVER, AND BE FASTENED TO, COMMON BLOCKING OF A MINIMUM OF 11/2 INCH THICKNESS.

UNDERLATMENT MATERIAL OF EITHER FIRE RETARDANT TREATED MOOD, 25/32 INCH MOOD SHEATHING OR 3/6 INCH OFFSUM BOARD, VENTING REQUIREMENTS AFPLY TO BOTH SOFFIT AND UNDERLATMENT AND SHALL BE PER SECTION REGO OF THE NORTH CARCING RESIDENTIAL CODE. WHERE THE PROPERTY LINE IS IO FEET OR MORE FROM THE BUILDING FACE, THE PROVISIONS OF THIS CODE SECTION DO NOT AFPLY.

ALL FLOOR JOISTS SHALL BE DESIGNED I-JOIST WOOD FLOOR TRUSSES. REFER TO MANUFACTURER FOR ALL LAYOUTS AND CALCULATIONS.

REFER TO THE STRUCTURAL ENGINEER'S CURRENT PLANS & CALCULATIONS FOR SIZE, SPACING, AND ANCHORAGE OF ALL FLOOR JOISTS, SIZE, LOCATION, AND ANCHORAGE OF ALL FLOOR BEAMS AND HEADERS; AND ALL RELATED FRAMING ISSUES.

ROOF FRAMING SHALL BE BY PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERWISE.

THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER

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

CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION.

TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.G. HVAC EQUIPMENT, MATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSSES SHALL NOT B PERMITED 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

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 WITH THE N.C.-R

STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR

NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EACH CORNER OF AN EXTERIOR WALL.

MOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVELAPPING AT CORNERS AND INTERSECTION MITH BEARING PARTITIONS. END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES. JOINTS NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES MOMINAL THICKNESS AND HAVE A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS. SEE EXCEPTIONS.

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 NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED MITH 2-INCH-BY-3-INCH STUDS SPACED 24 INCHES ON CENTER OR WHEN NOT A PART OF A BRACED WALL LINE, 2-INCH-BY-4-INCH FLAT STUDS SPACED IG INCHES ON CENTER, INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP FLATE. INTERIOR NONBEARING WALLS

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 EIREBLOCKED IN ACCORDANCE WITH THE N.C.-

PROJECT IS TO BE BUILT.

WALL FRAMING

6.

WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

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 VINY ALUMINUM AS A SOFFIT MATERIAL, THE SOFFIT MATERIAL SHALL SECURELY ATTACHED TO FRAMING WEMBERS AND USE AN UNDERLATMENT MATERIAL OF EITHER FIRE RETARDANT TREAT

## WOOD & FRAMING

## (continued)

8. DRILLING AND NOTHCING OF STUDS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- NOTHCING. ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTL STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD WIDTH. NOTCHING OF BEARING STUDS SHALL BE ON ONE EDGE ONLY AND NOT TO EXCEED ONE-FOURTH THE HEIGHT OF THE STUD. NOTCHING SHALL NOT OCCUR IN THE BOTTOM OR TOP 6 INCHES OF BEARING STUDS.
- 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 MUDTH, THE EDGE OF THE HOLE IS NO MORE THAN 5/6' INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOBER THAN 6 INCHES FROM NA DJACENT HOLE OR NOTCH. HOLES NOT EXCEEDING 3/4 INCH DIAMETER CAN BE AS CLOSE AS I 1/2 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.
- CUTTING AND NOTCHING OF STUDS SHALL BE PERMITTED TO BE INCREASED TO 65 PERCENT OF THE WIDTH OF THE STUD IN EXTERIOR AND INTERIOR WALLS AND BEARING PARTITIONS, PROVIDED THAT ONE OF THE FOLLOWING CONDITIONS ARE MET: (a) THE WALLS SECTION IS REINFORCED WITH 1/2-INCH EXTERIOR GRADE FL'TWOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL, PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO ZEILING AND AT LEAST ONE STUD PURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT. (b) THE EXTERIOR WALLS OF A KITCHEN MAY BE REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALLS PLACENT OF HEIGHT AND AT LEAST ONE STUD FURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTIALY IN AN EXTERIOR Wern PIPING OR DUCTNORK IS PLACED IN OR PARTIALY IN AN EXTENSION OR INTERIOR OR INDEXISTANCE LADA-DEARNING WALL NECESSITATION CUTTING, DETILLING OR NOTCHING OF THE TOP PLATE B MORE THAN 50 PERCENT OF ITS MIDTH A GALVANIZED METAL THE OF NOT LESS THAN 0.054 INCH THICK AND 11/2 INCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT IOG NAULS HAVING A MINIMAY LENGTH OF 11/2 INCHES (35 MM) AT EACH SIDE OR EQUIVALENT. THE METAL THE MOTENDA A MINIMAY OF 6 INCHES PAST THE OPENING WIDE OPENING WIDE AD A MINIMAY OF 6 INCHES PAST THE OPENING WIDE OPENING WIDE STAN EIGHT OF PLATE AT EACH SIDE OF THE MOTENT.
- HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-I
- PROVIDE LATERAL BRACING PER THE N.C.-R
- FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- 15. UNLESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMUM REQUIREMENTS OF THIS CODE, ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS TRATIO EXCEEDS TO SHALL HAVE BRIDEING NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FITTED SNUELY AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

#### FIRE BLOCKS AND DRAFT STOPS

3

CTIONS

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 LIMBER, OR TWO THICKNESSES OF I-INCH NOMINAL LIMBER WITH BROKEN LAP JOINTS, OR ONE THICKNESS OF 23/23-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS BACKED BY 23/32-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 5/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD, 1/2-INCH SYPSOM BOARD, OR 1/4-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 IO FOOT HORIZONTAL FIREBLOCKING IN MALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS. LOOSE FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE IT'S ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.

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 INTO APPROXIMATELY EQUAL AREAS. WHERE THE ASSEMBLY IS ENCLOSED BY A AFTROAMMATELT EQUAL ARABA, MERE INE ASSEMENT IS ENDUSED BY A FLOOR MEMBRANE ABOVE AND A CELLING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CELLING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:

- CEILING IS SUSPENDED UNDER THE FLOOR FRAMING.
- FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS.

#### HANDRAIL AND GUARDRAIL

SUARDRAIL 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 WATERPROFING, SHEET NETAL, CAULKING, SEALANTS, ELASTOMERIC WALKING SURFACES, AND RAIN GUTTERS AND/OR DIVERTES 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 WITS 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 MANUFACTURER'S SPECIFICATIONS AT DECKS AND BALCONIES. COLOR, FINISH, AND DETAILING SHALL BE APPROVED BY OWNER/ BUILDER AND ARCHITECT.
- UNLESS DESIGNED TO DRAIN OVER DECK EDGES, DRAINS AND OVER-FLONS 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 DAMPROOFED IN ACCORDANCE WITH THE N.C.-R
- 8. PARAPET WALLS SHALL BE PROPERLY COPED WITH NONCOMBUSTIBLE, NEATHERPROOF 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

- I. APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL 12. CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS, SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA TI. FLUID-APPLIED MEMBRANES USED AS FLASHING IN 15. EXTERIOR WALLS SHALL COMPLY WITH AAMA TI4. THE FLASHING SHALL EXTEND TO THE SUFFACE OF THE EXTERIOR WALL FINISH ALLMINM FLASHING SHALL NOT BE USED IN CONTACT WITH CEMENTITIOIS MATERIAL, EXCEPT AT CONTRE FLASHING. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT ALL OF THE LOCATIONS STATED IN N.C.-R.
- 2. AT ALL WINDOW AND DOOR OPENINGS USE FORTIFIBER WATER-RESISTIVE BARRIERS, I.C.S. ESR-IOZI, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR MALLS OR PERETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMM O.019-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED.
- 4. ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONS CONTRACTOR'S NATIONAL ASSOCIATION (S.M.A.C.N.A.), THE ARCHITECTURAL SHEET METAL MANIAL, AND SEALANT, WATERPROOFING AND RESTORATION INSTITUTE'S (SURI.) GUIDE -"SEALANTS. THE PROFESSIONAL'S GUIDE".
- SHEET METAL SHALL BE STEEL SHEET, HOT-DIPPED, TIGHT COATED AND GALVANIZED, CONFORMING TO ASJ.M. ASJE AND SHALL BE A NUMBER 24 SHEET METAL GAGE WILESS OTHERWISE NOTED IN THESE NOTES, PILANS, OR MANUFACTURER'S SPECIFICATIONS.
- 6. 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 MANFACTURER. SEAL ALUMINUM SEAMS WITH EPOXY METAL SEAM CAMENT. 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, NEATHER RESISTANT INSTALLATION.
- 9. ASPHALT SHINGLES SHALL HAVE SELF-SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR D 3462.
- IO. BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH I. MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMM NOMINAL 0.014-INCH 2. THICKNESS OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMM OF TT POINDS PER IOO SQUARE FEET, CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMM NOMINAL 0.014-INCH THICKNESS 3.
- II. 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
- 12. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASIRED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL. OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE FLASHING AT THE INTERSECTION OF CRICKET OR SADDLE AND THE CHIMNEY.
- 13. FLASHING AGAINST A VERTICAL SIDEWALL SHALL BE BY THE STEP-FLASHING METHOD PER NO-R.
- 14. FLASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACK, VENT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED ACCORDING 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 THE N.C.-R. AND THE MAURFACTURER'S INSTALLATION INSTRUCTIONS AND, WHERE OF METAL, SHALL NOT BE LESS THAN 0.019 INCH (NO. 26 GALVANIZED SHEET GAED CORROSION-RESISTANT METAL
- 16. VALLEY FLASHING FOR CONCRETE TILE ROOFS SHALL BE AS REQUIRED.

#### I. ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- 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
- ROOFS AND ROOF COVERINGS SHALL BE OF MATERIALS THAT ARE COMPATIBLE WITH EACH OTHER AND WITH THE BUILDING OR STRUCTURE TO WHICH THE MATERIALS ARE APPLIED.
- 3. 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 OLESTIONABLE SUITABILITY, TESTING BY AN APPROVED TESTING AGENCY SHALL BE REQUIRED BY THE BUILDING OFFICIAL TO PETERVINE THE CHARACTER, GUALITY, AND LIMITATIONS OF APPLICATION OF THE MATERIALS.

## THERMAL & MOISTURE

## PROTECTION (continued)

- 4. ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TESTING AGENCY LABELS INHEN REQUIRED, BLILS HIPHINTIS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER
- COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE REQUIREMENTS OF THE N.C.-R
- 6. UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4864, TYPE I, OR ASTM D 6T5T, SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1970
- ASPHALT SHINGLES SHALL COMPLY WITH ASTM D 225 OR ASTM D 3462.
- 6. FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS STEEL, ALLMINM, OR COPPER ROOFING NAILS, MINIMM 12 GAGE SHANK WITH A MINIMM 3/8 INCH DIAWETER HEAD, ASTM F 1667, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMM OF 3/4 INCH INTO THE ROOF SHEATHING, WHERE THE ROOF SHEATHING IS LESS THAN 3/4 INCH THICK, THE FASTENERS SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F 1661.
- 9. ASPHALT SHINGLES SHALL HAVE THE MINIMUM NUMBER OF FASTENERS REQUIRED BY THE MANUFACTURER, FOR NORMAL APPLICATION, ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE FOR NO.-R.
- 10. UNDERLAYMENT FOR ASPHALT SHINGLES SHALL BE APPLIED IN ACCOR-DANCE WITH THE N.C.-R
- . THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF N.C.-R CLAY ROOF TILE SHALL COMLY WITH ASTM C 1167.
- CONCRETE AND CLAY TILE SHALL BE INSTALLED ONLY OVER SOLID SHEATHING OR SPACED STRUCTURAL SHEATHING BOARDS.
- 3. CLAY AND CONCRETE ROOF TILE SHALL BE INSTALLED ON ROOF 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 (2-1/2); DOUBLE UNDERLATMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH THE N.C.-R
- INDERLAYMENT 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.
- 5. CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- 16. NAILS SHALL BE CORROSION-RESISTANT AND NOT LESS THAN II GAGE, 5/16-INCH HEAD, AND OF SUFFICIENT LENGTH TO PENETRATE THE DECK A MINIMUM OF 3/4-INCH OR THROUGH THE THICKNESS OF THE DECK, WHICHEVER IS LESS. ATTACHING WIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SMALLER THAN O DOB-INCH. PERIMETER FASTENING AREAS INCLUDE THREE TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES. N.C. R.
- 17. CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R
- IB. TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROOF SLOPE, WOERLAYMENT SYSTEM, AND TYPE OF TILE BEING INSTALLED PER THE N.C.-R
- 19. THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF A MINIMUM OF ONE-FOUTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS THAT SHALL HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (1-PERCENT SLOPE)
- 21. BUILT-UP ROOF COVERING MATERIALS SHALL COMPLY WITH THE STANDARDS PER THE N.C.-R

#### EXTERIOR WALL COVERINGS

- 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
- EXITERIOR MALLS SHALL PROVIDE THE BUILDING WITH A MEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUE FLASHING. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF MATER WITHIN THE MALL ASSEMBLY BY PROVIDING A MATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THE ASSEMBLY TO THE EXTERIOR. PROTECTION ASAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED.
- ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D 220 FOR TYPE I FELT OR OTHER APPROVED MATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS. SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, MITH THE UPPER LAYER WATERIAL SHALL BE APPLIED NOT LESS THAN 8 INCHES. MHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES. THE FELT OR OTHER APPROVED MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BILLDING APPENDACES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE.
- VINYL SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R AND COMPLYING MITH ASTM D 3671 SHALL BE PERMITTED ON EXTERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREAS WHERE THE ULTIMATE MIND SPEED SPECIFIED DOES NOT EXCEED IOO MILES PER HOR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET IN EXPOSITE C. WHERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS ISO MILES PER HOR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 FT., DATA INDICATING COMPLIANCE MIST BE SUBMITTED. VINYL SIDING SHALL BE SECRED TO BUILDING TO PROVIDE WEATHER PROTECTION FOR THE EXTERIOR WALLS OF THE BUILDING.
- 6. VINYL SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED IN THE N.C.-R. VINYL SIDING SHALL BE APPLIED TO CONFORM WITH THE WEATHER-RESISTIVE BARRIER REQUIREMENTS VINYL SIDING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED MANUFACTURER'S INSTRUCTIONS.
- VINYL 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 A155,6 AND, MEERE USED STRUCTURALLY, SHALL BE SO IDENTIFIED BY THE LABEL OF AN APPROVED AGENCY.
- IO. HOOD VENEERS ON EXTERIOR HALLS OF BUILDINGS OF TYPES I, II, III, AND IV CONSTRUCTION SHALL BE NOT LESS THAN I-INCK HOMINAL THICKNESS, 0430-INCH EXTERIOR HARDBOARD SIDING OR 0375-INCH EXTERIOR-TYPE WOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL CONFORM TO THE REGUREMENTS OF THE N.C.-R
- FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIIB6, TYPE A, MINIMUM GRADE
- II. LAP SIDING SHALL BE LAPPED A MINIMUM OF II/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONGUE-AND-GROOVE END JOINTS SHALL HAVE THE ENDS SEALED WITH CAULKING, INSTALLED WITH AN H-SECTION JOINT COVER, LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY WITH NC-R. LAP SIDING COURSES MAY BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCEALED, ACCORDING TO NC-R OR APPROVED INSTALLATION INSTRUCTIONS.
- I. INSULATING MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPER-PERMEABLE MEMBRANES, INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOT-CEILING ASSEMBLIES, MALL-ASSEMBLIES, CRANL SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL T23.
- 2. DUCT INSULATION MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS OF THE N.C.-R
- INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450. SEE EXCEPTIONS.
- 4. ALL EXPOSED INSULATION MATERIALS INSTALLED ON ATTIC FLOORS SHALL HAVE A CRITICAL RADIANT FLUX OF NOT LESS THAN 0.12 MATT PER SQUARE IT. CENTIMETER PER N.C. R. TESTS FOR CRITIAL RADIANT FLUX SHALL BE MADE IN ACCORDANCE WITH ASTM E 970.
- THE USE OF ABOVE DECK THERMAL INSULATION SHALL BE PERMITTED PROVIDED SUCH INSULATION IS COVERED WITH AN APPROVED ROOF COVERING AND PASSES FM 4450 OR UL 1256 PER N.C.-R.
- . CELLULOSE LOOSE-FILL INSULATION SHALL COMPLY WITH CPSC 16 CPR, PARTS 1209 AND 1404. EACH PACKAGE OF SUCH INSULATING MATERIAL SHALL BE CLEARLY LABELED IN ACCORDANCE WITH CPSC 16 CFR, PARTS 1209 AND 1404.
- INSULATION IN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, MALLS, CRANL SPACES OR ATTICS SHALL BE EITHER OF THE BLOWNIN CEILULOSE TYPE OR FIBERGLASS BATTS OR BLANKET TYPE PER BUILDER'S SPECIFICATIONS.
- 6. THE ENERGY EFFICIENCY REQUIREMENTS INCLUDING I.E.C.C. BUT NOT LIMITED TO INSULATION "R" VALUES, PERCENTAGE OF GLAZING 'U" VALUES, ETC. SHALL BE DETERMINED BY THE ADOPTED STATE AND LOCAL ENERGY CODE EQUIREMENTS. REFER TO MECHANICAL PLANS FOR SPECIFICATIONS.
- THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED WITH AN AIR BARRIER SYSTEM TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. FOR ALL HOMES, WHERE FREEENT, THE FOLLOWING SHALL BE CALLKED, GASKETED, MEATHERSTRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT WITH APPENDIX E-23 AND E-24 OF THE MC-RI I. BLOCKING AND SEALING FLOOR/CEILING SYSTEMS AND UNDER KINEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE. 2. CALTING AND SEALING SHATTS OR CHASES, INCLUDING FLUE

SHAF15. 3. CAPPING AND SEALING SOFFIT OR DROPPED CEILING AREAS.

IO. FRAMED CAVITY WALLS. THE EXTERIOR THERMAL ENVELOPE WALL INSULATION SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH 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 MITH A RIGID MATERIAL OR AN AIR BARRIER MATERIAL. MALL INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSTALLED ON EXTERIOR WALLS PRIOR TO BEING COVERED BY SUBSCUENT CONSTRUCTION, CONSISTENT WITH APPENDIX E-23 AND E-24 OF NC-R. I. TUBS

## 2. SHOWERS

3. STATES 4. FIREPLACE UNITS ENCLOSURE OF MALL 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 FURPOSES SHALL NOT BE PERMITTED, OTHER OPENINGS BETNEET NE GARAGE AND RESIDENCE SHALL EQUIPPED NITH SOLID WOOD DOORS NOT LESS THAN I 3/8 INCHES IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN I 3/8 INCHES THICK, OR 20-MINUTE FIRE-RATED DOORS.
- NO DOUBLE FRENCH DOORS SHALL BE USED UNLESS THERE IS A SUFFICIENT OVERHANS 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 IN CONFORMANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS
- 5. 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 WHEN SOMETHING IS BLOCKING THE PATH OF THE DOOR. SEE MANUFACTURER'S INSTALLTION INSTRUCTIONS.
- ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL MEET THE AIR INFILITRATION STANDARDS OF THE CURRENT AMERICAN NATIONAL STANDARDO INSTITUTE A.S.T.M. E226-73 NITH A PRESSURE DIFFERENTIAL OF I.ST POUNDS PER SQUARE FOOT AND SHALL BE CERTIFIED AND LABELED.
- BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPENABLE EMERGENCY ESCAPE AND RESCUE OPENING
- WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE PROVIDED THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR.
- 4. EMERGENCY ESCAPE AND RESCUE OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A WINDOW MELL.

## DOORS & WINDOWS (continued)

- IO. ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF A GROUND FLOOR LEVEL MINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW
- . ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET 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 OR SPECIAL KROWLEDGE.
- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET, NITH A MINIMUM HORIZONTAL PROJECTION AND MIDTH OF 36 INCHES. THE AREA OF THE MINOON WELL SHALL ALLOW DEMREGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED PER THE N.C.-R THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6"
- WINDOW 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.
- 6. BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCUE OPENNOS, BULKHEAD ENCLOSURES, OR WINDOW WELLS THAT SERVE SUCH OPENNOS, PROVIDED THE MINIMUM NET CLEAR OPENING SIZE COMPLES WITH THE N.C.-R AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING.
- ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

#### GLAZING & SAFETY GLAZING

BEING DESTROYED

2

3.

6.

8.

CONSERVATION CODE

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 INNONGS, SKYLIGHTS, DOORS, LOWERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR, SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERNISE 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.

EXCEPT AS INDICATED, EACH PANE OF GLAZING INSTALLED IN HAZARDOUS

OCATIONS SHALL BE PROVIDED WITH MANUFACTURER'S DESIGNATION PECIFYING WHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF

SILOSI INTO MO THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERANIC-FIRED, LASER ETCHED, DEMOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT

INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN HAZARDOUS

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

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

GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL IN THE SAME PLANE AS A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN 24-INCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING GIRRACE

3.1 EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQUARE

3.4 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 WALKING SURFACE.

GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS,

SLACING IN DOOD AND ENDOWED FOR NOT INDO, MINELPOLDS SANAS, STEAM ROOMS, BATHTUBS AND SHORERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.

GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR

SHIMING POOLS, HOT TUBS AND SPAS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 60 INCHES ADOVE A WALKING SURFACE SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE

GLAZING ADJACENT TO STAIRWAYS, LANDINGS AND RAMPS WITHIN 36 INCHES HORIZONTALLY OF A MALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE

GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF STAIRWAYS WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60-INCH HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING.

THE ADJACENT WALKING SURFACE.

HINGED SHOWER DOORS SHALL OPEN OUTWARD.

GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE

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

IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 12 INCHES (1824 MM) ABOVE THE FINISHED GRADE OR SURFACE BELON, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE SECTIONS OF WINDOWS SHALL NOT FERMIT OPENINGS THAT ALLOW PASSAGE OF A 4 INCH (02 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR.

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

BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREAS I WINDOWS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPENABLE.

# FINISHES

#### GYPSUM BOARD

2.

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 GYPSIM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 475, C 154, C 1002, C 1047, C 117, C 117, C 127, C 1596, OR C 1659 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE NG.-R ADHESIVES FOR THE INSTALLATION OF GYPSIM BOARD SHALL CONFORM TO ASTM C 557.

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

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

ALL EDGES AND ENDS OF GYPENM BOARD SHALL OCCUR ON THE FRAMING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRAMING MEMBERS. EDGES AND ENDS OF GYPENM BOARD SHALL BE IN MODERATE CONTACT EXCEPT IN CON-CALED 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, 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 SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD.

GYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERANIC TILE OR OTHER REQUIRED NON-ABSORBENT FINSH MATERIAL SHALL CONFORM TO ASTM C 1946, C 1176 OK C1278. USE OF NATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PERMITTED ON CELLINGG WHERE FRANING SPACING DOES NOT EXCEED 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/6-INCH-THICK GYPSUM BOARD. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOKER OR TUB COMPARITMENT, CUT OR EXPOSED EDDES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.

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

WHEN APPLYING A WATER-BASED TEXTURE MATERIAL, THE MINIMUM GYPSUM BOARD THICKNESS SHALL BE INCREASED FROM 3/8 INCH TO 1/2 INCH FOR 16-INCH ON CENTER FRAMING, AND FROM 1/2 INCH TO 5/8 INCH FOR 24-INCH ON CENTER FRAMING OR 1/2 INCH SAG-RESISTANT GYPSUM CEILING BOARD SHALL BE USED.

#### EXTERIOR LATH

8.

ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIAL.

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

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

GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILINGS OR ROOF SOFFITS IT MAY BE USED AS BACKING FOR METAL LATH OR WIRE FABRIC LATH AND CEMENT PLASTER.

UNLESS SPECIFIED OTHERWISE, ALL WALL COVERINGS SHALL BE SECURELY FASTENED PER THE N.C.-R. OR WITH OTHER APPROVED ALUMINUM, STAINLESS STELL, JIK-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, WHERE THE BASIC WIND SPEED IS 110 MILES PER HOR OR HIGHER, THE ATTACHMENT OF WALL COVERINGS SHALL BE DESIGNED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED AND ADJUSTED FOR HIGHT AND EXPOSURE.

A MINIMUM O.019-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 926. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE LARTH OR 2 INCHES ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT MILLI ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE SUILIDIS. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED.

#### EXTERIOR PLASTER

3

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

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

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

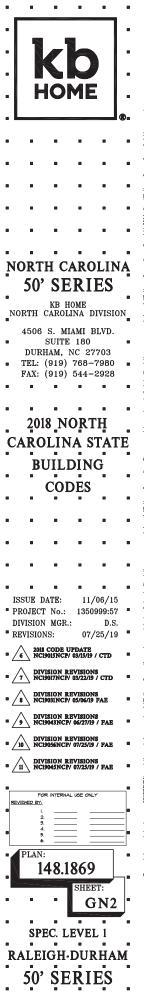
ONLY APPROVED PLASTICITY AGENTS AND APPROVE AMOUNTS THEREOF MAY BE ADDED TO PORTLAND CEMENT. WHEN PLASTIC CEMENT IS USED, NO ADDITIONAL LINE OR PLASTICIZERS SHALL BE ADDED. HYDRATED LIME OR THE EQUIVALENT AMOUNT OF LIME FUTTY USED AS A PLASTICIZER MAY BE ADDED TO CEMENT PLASTER OR CEMENT AND LIME PLASTER IN AN AMOUNT NOT TO EXCEED THAT SET FORTH IN ASTM C 426.

GYPSUM PLASTER SHALL NOT BE USED ON EXTERIOR SURFACES.

PLASTER COATS SHALL BE PROTECTED FROM FREEZING FOR A FERIOD OF NOT LEGS THAN 24 HORE AFTER SET HAS OCCURRED. PLASTER SHALL BE APPLIED WHEN THE AMBIENT TEMPERATURE IS HIGHER THAN 40 DEGREES F (4 DEGREES 0, JULIESS PROVISIONS ARE MADE TO KEEP CEMENT PLASTER MORK ABOVE 40 DEGREES F (4 DEGREES C), PRIOR TO & DURING APPLICATION AND 48 HORE THEREAFTER.

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-4716, "EXPO FIBREMALL" 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 CONFORMANCE MITH THE NORTH CARCUNA RESIDENTIAL AND MECHANICAL CODE. INSTALLATIONS OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FREL GAS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERING 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 (15 C) OR UP TO 85 DEG. F (29 C).
- ALL DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF THE 5.
- COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH N.C.-R 6.
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED
- DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DVELLING FROM THE GARAGE SHALL B CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE CARACE PER NC -
- EXTERIOR-GRADE INSTALLATIONS, EQUIPMENT AND APPLIANCES INSTALLED ABOVE GRADE LEVEL SHALL BE SUPPORTED ON A SOLID BASE OR APPROVED MATERIAL A MINIMM OF 2 INCHES THICK.
- UNDER-FLOOR INSTALLATION. SUSPENDED EQUIPMENT SHALL BE A MINIMUM OF 6 INCHES ABOVE THE ADJOINING GRADE.
- CRANL SPACE SUPPORTS. IN A CRANL SPACE, A MINIMUM OF 2-INCH THICK SOLID BASE, 2-INCH (SI MM) THICK FORMED CONCRETE, OR STACKED MASONRY UNITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD, THE WATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2 INCHES ABOVE GRADE.
- DRAINAGE. BELOW-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REGUIREMENTS REFERT TO NC.-M12.

#### VENTING

- IN LIEU OF REQUIRED EXTERIOR OPENINGS FOR NATURAL VENTILATION IN BATHROOMS CONTAINING A BATHTUB, SHOWER OR COMBINATION IN BATHROUND CUMTAINING A BATHID, SHORE OR COMBINITION THEREOF, A DECLANICAL VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMM VENTILATION RATES SHALL BE SO CFM FOR INTERMITTENT VENTILATION OR 20 CFM FOR CONTINUOS VENTILATION. VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE PER NO.-R
- EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS. 2.
- 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 COPPER.
- WHERE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S 4. INSTALLATION INSTRUCTIONS, AND WHERE MECHANICAL OR NATURAL VENTILATION IS OTHERWISE PROVIDED, LISTED AND LABELED DUCTLESS RANGE HOODS SHALL NOT BE REQUIRED TO DISCHARGE TO THE OUTDOORS PER N.C.-M
- DUCTS FOR DOMESTIC KITCHEN COOKING APPLIANCES EQUIPPED WITH DOWN DRAFT EXHAUST SYSTEMS SHALL BE PERMITTED TO BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE PROVIDED THAT THE INSTALLATION COMPLIES WITH ALL OF THE FOLLOWING PER N.C.-M.
- A. THE DUCT SHALL BE INSTALLED UNDER A CONCRETE SLAB POURED ON GRADE.
- THE UNDERFLOOR TRENCH IN WHICH THE DUCT IS INSTALLED SHALL BE COMPLETELY BACKFILLED WITH SAND OR GRAVEL.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE THE INDOOR CONCRETE FLOOR SURFACE. С.
- 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 MACEUP AIR AT A RATE APPROXIMATELY EQUAL TO THE EXHAUST AIR RATE THAT IS IN EXCESS OF 400 CHBIC FEET PER MINUTE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEDUSLY WITH THE EXHAUST SYSTEM. DAMPERS SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION
- DOMESTIC WATER HEATERS, UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, SHALL BE VENTED 1 THE OUTSIDE AIR BY A TYPE 'B' VENT AND COMPLY WITH THE REGUIREMENTS OF THE N.C.-M

#### PLUMBING

- A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN SUCH A MANNER SO AS TO PREVENT AND FINITUATION FROM NONPOTABLE IN UP TREVENT CONTAMINATION FROM NONPOTABLE INJUS SOLIDS OR GASES BEING INTRODUCED INTO THE POTABLE WATER SUPPLY THROUGH CROSS-CONNECTIONS OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM. BACKFLOW PRE- VENTER APPLICATIONS SHALL CONFORM TO
- THE SUPPLY LINES OR FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW PLUMBING FIXTURE FITTINGS SHALL PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME AII218J.

# MECHANICAL &

## PLUMBING (continued) PLUMBING (continued

- ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED ALL DEVICES, APPLIANCES, APPLIANCES AND APPARATUS INTENDE TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERLIZATION, DISTL-LATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST 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, FAUCETS AND DIVERTERS SHALL BE CONNECTED TO THE WATER DISTRIBUTION SYSTEM SO THAT HOT WATER CORRESPONDS TO THE LEFT SIDE OF THE FITTINGS.
- DIVERTERS FOR SINK FAUCETS WITH A SECONDARY OUTLET CONSISTING OF A FLEXIBLE HOSE AND SPRAY ASSEMBLY SHALL CONFORM TO ASTM AII2.18.1 IN 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 MATER DISTRIBUTION PIPE SHALL BE PROHIBITED IN SOL AND GROUND WATER THAT IS CONTAMINATED. GROUND MATER CONDITIONS SHALL BE REGURED TO ACERTAIN THE ACCEPTABLITY OF THE WATER SERVICE OR NATER 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 NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PLIMBING. WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF IOO PSI AT IGO DEGREES F.
- PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND ELOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM THE LIME AND ACID OF CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION, MINIMUM WALL THICKNESS OF WATERIAL SHALL BE 0.025-INCH.

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 AND STREESES IN THE PIPE. PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL SETLEMENT. PIPING SHALL BE INSTALLED TO AVOID STRUCTURAL STREESES 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, SOIL AND WASTE PIPES SHALL NOT BE INSTALLED OUTSIDE OF A BUILDING, IN WACHOITIONED ATTICS, UNCONDITIONED 12. UTILITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING UTILITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING TEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MINIMUM OF R-65 INSULATION DETERMINED AT 15 DEG, F IN ACCORDANCE WITH ASTM CITT OR HEAT 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 SEVER 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 N.C.-P.
- WHERE WASTE LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF 15 FLUSHED TOILET MAY BE UNDESIRABLE, SUCH AS IN WALLS OR PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON PIPING OR SIMILAR APPROVED HARD OR DENSE PIPING TO MITIGATE SOUND.
- 16. CLEANOUTS ON BUILDING SEVERS SHALL BE LOCATED AS SET FORTH IN
- THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH N.C.-R.
- INDIVIDUAL SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE-BALANCE. THERMOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/ THERMOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE MITH ASSE (106/ ASME ALIZ.106/ACS AIDZI6. AND SHALL BE INSTALLED AND ADJUSTED PER MANUFACTURE'S INSTRUCTIONS.
- GAS AND ELECTRIC WATER HEATERS HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18 INCHES ABOVE THE GARAGE FLOOR. REFER TO N.C.-R FOR EXCEPTION.
- 20. WATER HEATERS, (USING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION WATER HEATERS, (USING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM. HOWEVER, NATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PLUMBING OFFICIAL, PROVIDED THEY ARE VENTED AND SUPPLIED WITH ADEQUATE COMBUSTION AIR.
- IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, WATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIRD AND IN THE LOWER ONE-THIRD OF THE APPLIANCE TO RESIST A HORIZONTAL FORCE EQUAL TO ONE-THIRD OF THE OPERATING NEIGHT OF THE WATER HEATER, ACTING IN ANY HORIZONTAL DIRECTION, OR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S RECOMMENDATIONS
- 22. APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PRO-TECTED FROM IMPACT BY A MOVING VEHICLE.
- 23 WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN-REMOTE LOCATIONS SUCH AS SUSPENDED CEILING, ATTICS, ABOVE OCCUPIED SPACES, OR UNVENTILATED CRAWL SPACES, A LOCATION WHERE WATER LEAKAGE FROM THE TANK WILL CAUSE DAMAGE TO PRIMARY STRUCTURAL MEMBERS, THE TANK OR WATER HEATER SHALL BE INSTALLED IN A GALVANIZED STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- WHERE CLOTHES WASHING MACHINES ARE LOCATED ON WOOD FRAMED FLOORS WHERE LEAKAGE WOULD CAUSE DAMAGE, A GALVANIZED STEEL PAN HAVING A MINIMM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE SHALL BE PROVIDED. 24.

# MECHANICAL &

## PLUMBING (continued) PLUMBING (continued

- 25. APPLIANCES AND EQUIPMENT USED FOR HEATING WATER OR STORING HOT AMERICALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND A SEPARATE TEMPERATURE- RELIEF VALVE AS COMBINATION PRESSURE-AND-TEMPERATURE- RELIEF VALVE AS A COMBINATION MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND HALL 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 BACKFLOW BY AN AIR GAP COMPLYING WITH ASME AII2.1.5 OR AII2.1.2 THAT IS INSTALLED INTEGRALLY WITHIN THE MACHINE OR A BACKFLOW PREVENTER IN ACCORDANCE WITH THE NC-R.
- SINK AND DISHWASHER. THE COMBINED DISCHARGE FROM A DISHWASHER AND A ONE- OR TWO-COMPARTMENT SINK, WITH OR WITHOUT A FOOD-WASTE DISPOSER, SHALL BES ERVED BY A TRAP OF NOT LESS THAN II/2 INCHES (30 MM) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE WIDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE WIDERSIDE OF THE SINK RIM OR COUNTER BEFORE CONNECTING TO THE WIDERSIDE OF THE SINK RIM OR COUNTER AND THE SINK TAILPIECE. 27.

#### FIREPLACES

- FACTORY-BUILT FIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF 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 BE GROUNDED IN A MANNER COMPLYING WITH ARTICLE 250 OF THE 2. NATIONAL ELECTRICAL CODE.
- ALL WIRING SHALL BE SO INSTALLED THAT, WHEN COMPLETED, THE SYSTEM WILL BE FREE FROM SHORT CIRCUITS AND FROM OROUNDS OTHER THAN AS REQUIRED OR PERMITTED IN N.E.C. ARTICLE 250. З.
- ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORK-
- ALL 125-VOLT, SINGLE-PHASE, IS- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED BELOW SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. THE GROUND-FAULT CIRCUIT-INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- A. BATHROOMS.
- GARAGES AND ALSO ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELON GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE. В.
- OUTDOORS C.
- CRAWL SPACES. WHERE THE CRAWL 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 THE COUNTERTOP SUBFACES
- 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  $6^{\circ}$  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.
- CRAWL SPACE LIGHTING OUTLETS. GFCI PROTECTION SHALL BE PROVIDED FOR LIGHTING OUTLETS NOT EXCEEDING 120 VOLTS INSTALLED IN CRAWL SPACES.
- APPLIANCE RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFIC APPLIANCES, SUCH AS LAUNDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE APPLIANCE.
- IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM IN EVEN KINDERAFY, DEN BURROCH, BURNE ROOT, LEVIN RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DVELLING WINTS, RECREATION ROOM, OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY VALL SPACE IS MORE THAN & FEEL MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, FIELUDDING ANY HORIZONTALLT, FROM AN COLLET IN THAT SPACE, INCLUDING ANT WALL SPACE 2 FEET OR MORE IN WIDTH (INCLUDING SPACE MEASURED AROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS AND SIMILAR OPENINGS, FIREPLACES, AND LINE BY DOORNAYS AND SIMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BUT EXCLUDING SLIDING PANELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE COUNTERS OR RALINGS, SHALL BE INCLIDED IN THE 6 FOOT MEASUREMENT.
- IN THE KITCHEN PANTRY BREAKEAST ROOM DINING ROOM OR SIMILAR IN THE KITCHEN, PANINT, BREAKFAST ROOM, JUNING ROOM, OK SIMIL AREA OF A DWELLING UNIT, THE TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS, ALL COUNTERTOP OUTLETS, AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- IN KITCHENS, PANTRIES, BREAKFAST ROOMS, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTER SPACES SHALL BE INSTALLED IN ACCORDANCE WITH TH FOLLONING: 10.
  - A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE I2 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 NITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER.
- AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH FENNSULAR COUNTER SPACE WITH A LONG DINENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. A PENNSULAR COUNTERTOP IS MEASURED FROM CONNECTING FERFENDICULAR WALL. (3)
- CONTERTOP SPACES SEPARATED BY RANGE TOPS, REFRIGER-ATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTER-TOP SPACES IN APPLYING THE REQUIREMENTS OF (I), (2), AND (5) ABOVE. IF A RANGE COUNTER-CONNED COOKING WIT, OR SINK IS INSTALLED IN AN ISLAND OR PENINSULAR COUNTERTOP AND THE DEPTH OF THE CONTER BEHIND THE ITEM IS LESS THEN IS INCHES. IT WILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO NO SEPARATE COUNTERTOP SPACES. EACH COUNTERTOP SPACE SHALL COMPLY WITH APPLICABLE REQUIREMENTS. (4)
- 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, SINKS, OR RAINEETOPS AS COVERED IN 4) ABOVE, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS THESE REQUIRED OUTLETS. (5)
- AT LEAST ONE WALL RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED IN WALL OR PARITITION THAT IS ADJACENT TO THE BASIN OR BASIN CONTENTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE HAN 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
- IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE WITH 13 IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE WITH ELECTRIC POORER, THE BRANCH CIRCUITS UPPLYING THIS RECEPTACLE(S) SHALL NOT SUPPLY OUTLETS OUTSIDE OF THE GARAGE. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN EACH VEHICLE BAY.
- CABLE- OR RACEWAY-TYPE WIRING METHODS INSTALLED IN A GROOVE, TO BE COVERED BY MALLBOARD, SIDING, PANELING, CARPETING, OR SIMILAR FINISH, SHALL BE PROTECTED BY //GI NCH THICK STEL. PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN I-1/4 INCH FREE SPACE FOR THE FULL LENGTH OF THE GROOVE IN WHICH THE CABLE OR RACEW. IS INSTALLED.
- RECEPTACLES IN DAMP OR WET LOCATIONS.

20.

21.

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UNIQUE COMBIN

SMOKE DETECTORS

- A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM MEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS MEATHERPROOF MHEN THE RECEPTACLE IS COVERED (.) (ATTACHMENT FLUS CAP NOT INSERTED AND RECEPTACLE COVERS (CLOSED))
- ALL 15- AND 20- AMPERE, 125- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHER PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY". ALL IS- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER RESISTANT TYPE. в.
- LIGHTING EQUIPMENT. NOT LESS THAN 75 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS

BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION, THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.

TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS. ALL NON-LOCKING TYPE 125-VOLT IS-AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS LISTED BELOW:

I. RECEPTACLES LOCATED MORE THAN 52' ABOVE THE FLOOR

4. NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS.

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

SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S INSTRUCTIONS AND NC-R R314 ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND TH HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF INFRA 72.

REQUIRED SMOKE DETECTORS SHALL BE LOCATED IN ACCORDANCE WITH THE NC-R R314.3

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA T2 THAT INCLUDE SHORE ALARMS, OR A COMBINATION OF SHORE DETECTOR AND AUDILE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R RSI4.3 FOR SHORE ALARMS, SHALL BE FERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL FROVIDE THE SAME LEVEL OF SHORE DETECTION AND ALARM AS REQUIRED BY THE NC-R FOR SHORE ALARMS IN THE EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONNECTED TO A CENTRAL STATION.

THIS CODE AND THE

2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE

3. A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED NITHIN 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.

IGHT FIXTURES WITHIN CLOTHES CLOSETS SHALL BE INSTALLED IN NCE WITH N.E.C ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING WIT FAMILY ROOMS, DINING ROOMS, INVING ROOMS, DRALFORS, LIBRARES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLMAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRIPTER(S), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRIPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.

# 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.

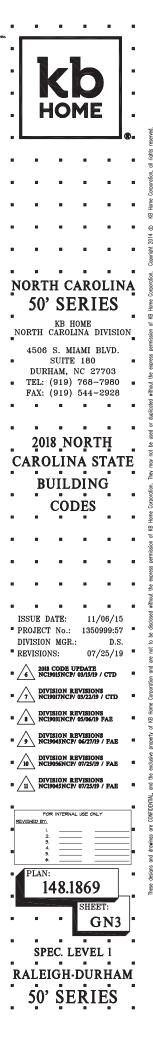
SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING MITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NC-R R315 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF INDIVIDUAL CARBON MONOXIDE OR SMOKE ALARMS.

#### DRYER VENT

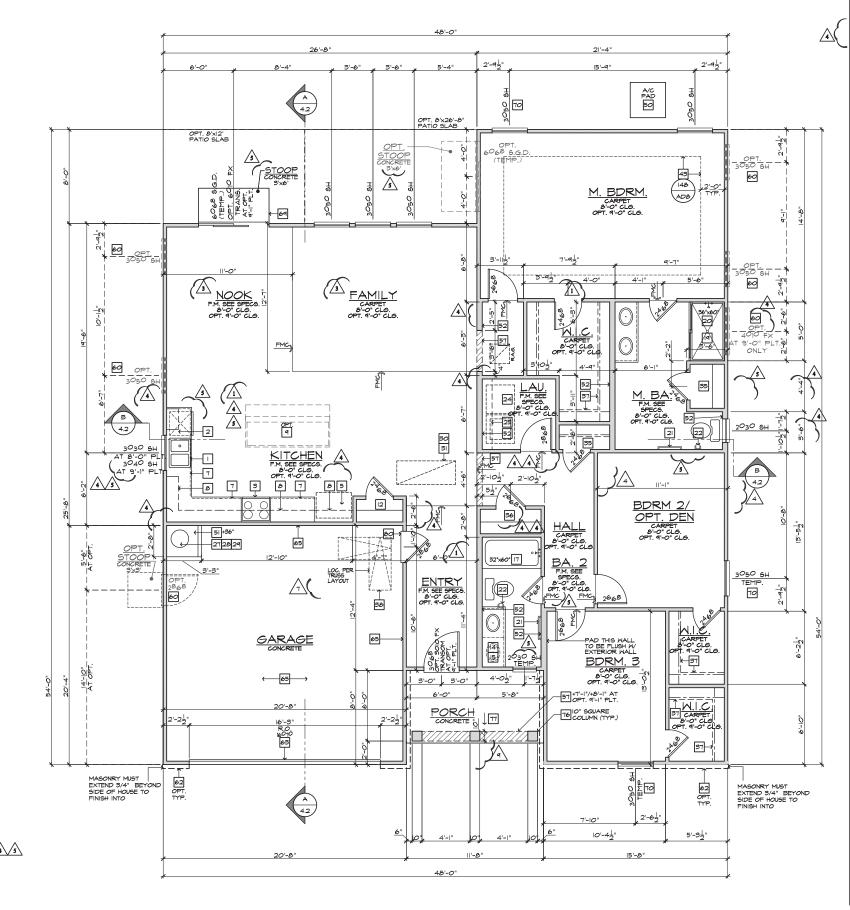
2.

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



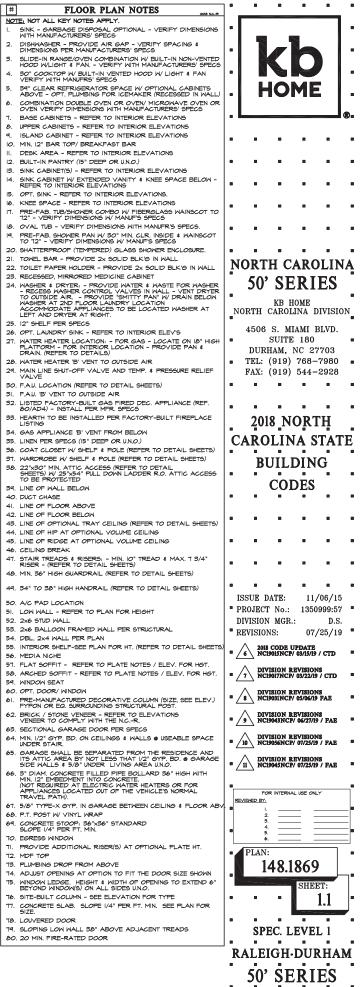


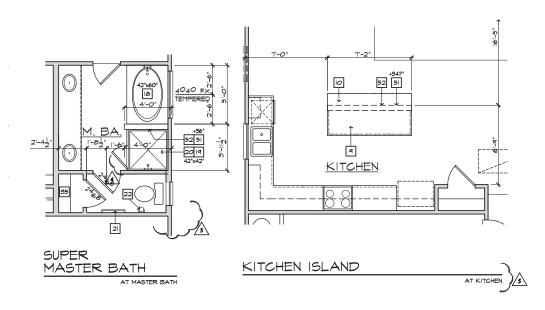
	INTERIOR KE		
	SQUARE FOOTAG	B	
	PLAN 148.1869		
LOOR AREA		1869	SQ. FT.
TOTAL ARE	A	1869	SQ. FT
SARAGE AREA		417	SQ. FT.
PORCH AREA(S)			
	ELEVATION 'A'	70	SQ. FT.
	ELEVATION 'B'	184	SQ. FT.
	ELEVATION 'C'	113	SQ. FT.
	ELEVATION 'D'	181	SQ. FT.
PATIO AREA(S)			
	8'x12' COVERED	96	SQ. FT.
	8'x26'-8" COVERED	213	SQ. FT.
DECK AREA(S)			
	OPEN 8'x12'	96	SQ. FT.
	OPEN 8'x26'-8"	213	SQ. FT.
	SCREENED-IN &'x12' SCREENED-IN	96	SQ. FT.
	8'x26'-8"	2 3	SQ. FT.
SUNROOM AREA			
	8'×12'	96	SQ. FT.
OFT		475	SQ. FT.
OFT WITH BORM.	4	647	SQ. FT.
-	<b>JENERAL PLAN N</b>	OTES	2018 N.C1
	SHTS PER SECTION AND E	LEVATION F	
HEIGHTS, U.N.O.			
ALL INTERIOR DO	ORS TO BE HOLLOW COR	E   3/8" TH	ICK,
ALL INTERIOR DO	PLAN FOR SIZE).		ICK,
ALL INTERIOR DO	PLAN FOR SIZE).		ICK,
ALL INTERIOR DO U.N.O. (REFER TO ALL GARAGE SEI EXTERIOR GRADI	PLAN FOR SIZE). RVICE DOORS TO BE HOL E (REFER TO PLAN FOR S	LOW CORE	
ALL INTERIOR DO U.N.O. (REFER TO ALL GARAGE SE EXTERIOR GRADI ALL HOUSE TO G. (REFER TO PLAN	PLAN FOR SIZE). RVICE DOORS TO BE HOL E (REFER TO PLAN FOR S ARAGE DOORS TO BE 20 FOR SIZE).	LOW CORE IZE). -MINUTE FIR	E-RATED
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ALL INTERIOR DC UNIO, (REFER TO ALL GARAGE SE EXTERIOR GRAD) ALL ENTER TO FLAN ALL ENTER TO FLAN ALL ENTER TO FLAN BOOR JAMES, UN DOOR JAMES, UN UNDON HEA 200 FLOOR S ENTER DOOR SLIDING GLA INTERIOR SO		LOW CORE IZE). MINUTE FIR + DOORS TO I FOR SIZE). R AT CENTE ES 6'-8" UNC 6'-8" UNC 6'-8" UNC 6'-8" UNC 6'-8" UNC	E-RATED 2 BE 200 NG-1 200 NG-1
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ALL INTERIOR DE VILLO, REFER TO ALL GARAGE EE EXTERIOR GRADI ALL HOUSE TO G. (REFER TO FLAN SOLID CORE 13', ALL ENTRY POOR SOLID CORE 13', ALL FLOOR NATI POOR JAMES, UN VINDON HEA ALL FLOOR JAMES, UN VINDON HEA SULDING GLA NINTERIOR DO NINTERIOR DO		LON CORE IZE). HODORS TC HODORS TC HOROS STC HOROS STC HOROS TC CON CON HOROS TC HOROS	E-RATED 2 BE R OF 20936-0
ALL INTERCIP DE NUNO, (REFER TO ALL GARAGE SE EXTERIOR GRAD) ALL HOUSE TO G. (REFER TO PLAN ALL ENTER TO PLAN ALL ENTER TO PLAN SOLID CORE 15% ALL FLOOR MATI DOOR JAMES, UN WINDOW HEAT ALL FLOOR DO ENTERIOR DO INTERIOR DO INTERIOR DO INTERIOR DO INTERIOR DO INTERIOR DO INTERIOR DO SLIDING GLA SUIDOW HEAT AUDOW HEAT AU		LON CORE IZE). MINUTE FIR H DOORS TO FOR SIZE). R AT CENTE ES 6'-9'' UNIC 6'-9'' UNIC 6	E-RATED 2 BE 200 KC- 200 KC
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ALL INTERIOR DC NUNO, REFER TO ALL GARAGE SE EXTERIOR GRADI EXTERIOR GRADI EXTERIOR GRADI SOLID CORE 15, ALL ENTRY POOR SOLID CORE 15, ALL FLOOR MATI DOOR JAMES, UN WINDOW HEAL 2nd FLOOR HEAL 2nd FLOOR HEAL 2nd FLOOR WINDOW ENTRY POOR SINTERIOR DO WINDOW HEAL 2010 HINDOW HEAL 2010		LON CORE IZEJ. 	E-RATED 2 BE R OF 200416-1       
ALL INTERIOR DC NUNO, REFER TO ALL GARAGE SE EXTERIOR GRADI EXTERIOR GRADI EXTERIOR GRADI SOLID CORE 15, ALL ENTRY POOR SOLID CORE 15, ALL FLOOR MATI DOOR JAMES, UN WINDOW HEAL 2nd FLOOR HEAL 2nd FLOOR HEAL 2nd FLOOR WINDOW ENTRY POOR SINTERIOR DO WINDOW HEAL 2010 HINDOW HEAL 2010		LON CORE IZEJ. 	E-RATED 2 BE R OF 200416-1       
ALL INTERIOR DC NUNO, REFER TO ALL GARAGE SE EXTERIOR GRADU EXTERIOR GRADU ALL HOUSE TO G. REFER TO FLAN ALL ENTRY POOL SOLID CORE 13', ALL FLOOR MATL DOOR JAMES, UN UNDOW HEAL ALL FLOOR MATL DOOR JAMES, UN ENTRY POOL SUIDING CA SUIDING CA INTERIOR DO INTERIOR DO INTERIORA DO INTERIOR DO INTERIORI DO INTE		LON CORE IZE). 	E-RATED 2 BE R OF 209402-1 209402-1 209402-1 209402-1 209402-1
ALL INTERIOR DC NUNO, REFER TO ALL GARAGE SE EXTERIOR GRADU EXTERIOR GRADU ALL HOUSE TO G. REFER TO FLAN ALL ENTRY POOL SOLID CORE 13', ALL FLOOR MATL DOOR JAMES, UN UNDOW HEAL ALL FLOOR MATL DOOR JAMES, UN ENTRY POOL SUIDING CA SUIDING CA INTERIOR DO INTERIOR DO INTERIORA DO INTERIOR DO INTERIORI DO INTE		LON CORE IZE). 	E-RATED 2 BE R OF 209402-1 209402-1 209402-1 209402-1 209402-1



FLOOR PLAN 'A'

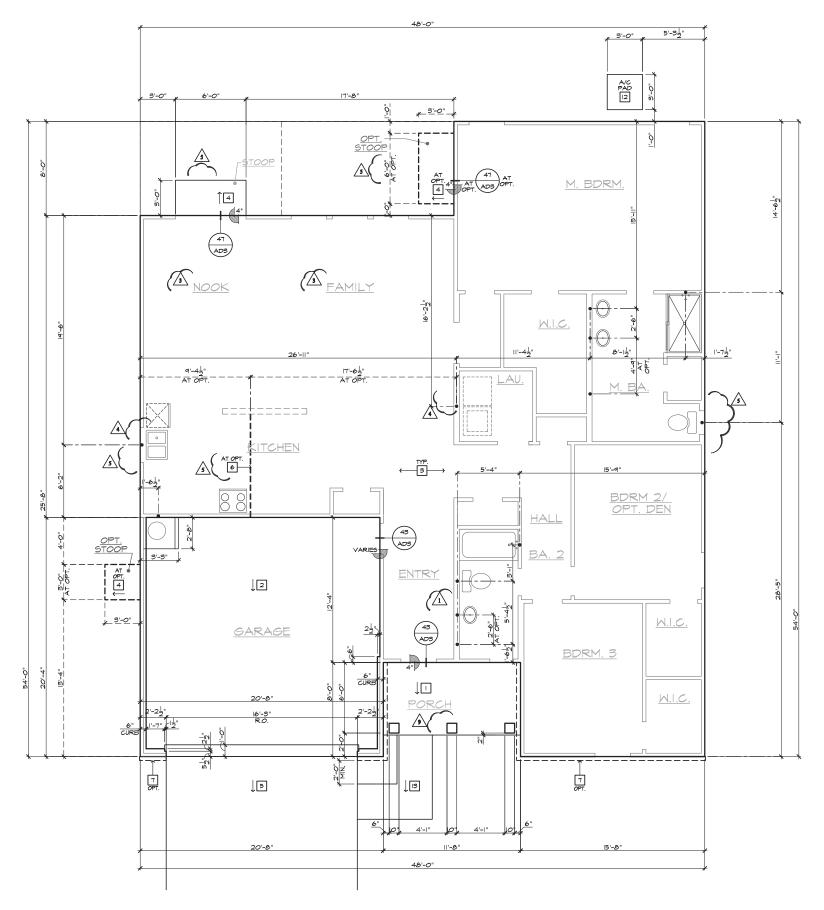
SCALE: 1/4"=1'-0" (22"x34") - 1/8"=1'-0" (11"x17")





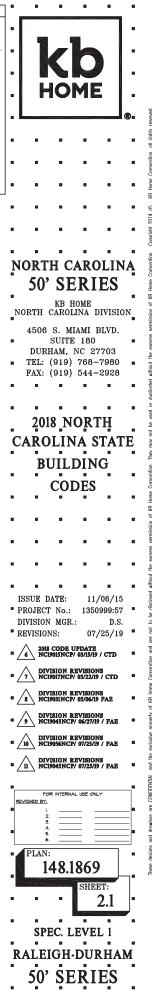
#	FLOOR PLAN NOTES	• • • • •
<u>NO</u>	TE: NOT ALL KEY NOTES APPLY.	8
	SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS	
2.	DISHWASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS	
З.	SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN NON-VENTED HOOD W/LIGHT & FAN VERIFY WITH MANUFACTURERS' SPECS	
4.	30" COOKTOP W/ BUILT-IN VENTED HOOD W/ LIGHT & FAN VERIFY WITH MANUFRS' SPECS	
5.	VERIFY WITH MANUFRS' SPECS 39" CLEAR REFRIGERATOR SPACE W/ OPTIONAL CABINETS	HOME
	ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL)	I HOME
6.	COMBINATION DOUBLE OVEN OR OVEN/ MICROWAVE OVEN OR OVEN VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS	
7. 8.	BASE CABINETS - REFER TO INTERIOR ELEVATIONS	8
<i>ь.</i> 9.	UPPER CABINETS - REFER TO INTERIOR ELEVATIONS ISLAND CABINET - REFER TO INTERIOR ELEVATIONS	
10.	MIN. 12" BAR TOP/ BREAKFAST BAR	
11.	DESK AREA - REFER TO INTERIOR ELEVATIONS BUILT-IN PANTRY (15" DEEP OR U.N.O.)	
	SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS	
14.	SINK CABINET W EXTENDED VANITY & KNEE SPACE BELOW - REFER TO INTERIOR ELEVATIONS	
15.	OPT. SINK - REFER TO INTERIOR ELEVATIONS.	
	KNEE SPACE - REFER TO INTERIOR ELEVATIONS	
17.	PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT TO 12" - VERIFY DIMENSIONS W/ MANUF'S SPECS	
	OVAL TUB - VERIFY DIMENSIONS WITH MANUFR'S SPECS.	
19.	PRE-FAB. SHOWER PAN W 30" MIN. CLR. INSIDE & WAINSCOT TO 72" - VERIFY DIMENSIONS W MANUF'S SPECS	
	SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL	
	TOWEL BAR - PROVIDE 2X SOLID BLK'G IN WALL TOILET PAPER HOLDER - PROVIDE 2X SOLID BLK'G IN WALL	NORTH CAROLIN
23.	RECESSED, MIRRORED MEDICINE CABINET	50' SERIES
24.	MASHER & DRYER: - PROVIDE WATER & WASTE FOR WASHER - RECESS WASHER CONTROL VALVES IN WALL - VENT DRYER TO OUTSIDE AIR PROVIDE "SMITTY PAN" W DRAIN BELOW	JU SERIES
		KB HOME
	ACCOMMODATE APPLIANCES TO BE LOCATED WASHER AT LEFT AND DRYER AT RIGHT.	NORTH CAROLINA DIVISIO
	12" SHELF PER SPECS	4506 S. MIAMI BLVD.
	OPT. LAUNDRY SINK - REFER TO INTERIOR ELEV'S WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH	■ SUITE 180
<i>∠</i> 1.	DRAIN. (REFER TO DETAILS)	DURHAM, NC 27703
28.	WATER HEATER 'B' VENT TO OUTSIDE AIR	■ TEL: (919) 768-7980
29.	MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE	FAX: (919) 544-2928
30.	F.A.U. LOCATION (REFER TO DETAIL SHEETS)	
	F.A.J. 'B' VENT TO OUTSIDE AIR	
32.	LISTED FACTORY-BUILT GAS FIRED DEC. APPLIANCE (REF. 80/AD4) - INSTALL PER MFR. SPECS	
33.	HEARTH TO BE INSTALLED PER FACTORY-BUILT FIREPLACE	2018_NORTH
34.	GAS APPLIANCE 'B' VENT FROM BELOW	
	LINEN PER SPECS (15" DEEP OR U.N.O.)	CAROLINA STAT
	COAT CLOSET W/ SHELF & POLE (REFER TO DETAIL SHEETS) WARDROBE W/ SHELF & POLE (REFER TO DETAIL SHEETS)	
	22"x30" MIN. ATTIC ACCESS (REFER TO DETAIL SHEETS) W 25"x54" PULL DOWN LADDER R.O. ATTIC ACCESS	BUILDING
	TO BE PROTECTED	CODES
	LINE OF WALL BELOW DUCT CHASE	CODES
	LINE OF FLOOR ABOVE	
42.	LINE OF FLOOR BELOW	
	LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL SHEETS) LINE OF HIP AT OPTIONAL VOLUME CEILING	
	LINE OF RIDGE AT OPTIONAL VOLUME CEILING	
	CEILING BREAK	
47.	STAIR TREADS & RISERS: - MIN. 10" TREAD & MAX. 7 3/4" RISER - (REFER TO DETAIL SHEETS)	
48.	MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL SHEETS)	
49.	34" TO 38" HIGH HANDRAIL (REFER TO DETAIL SHEETS)	
50.	A/C PAD LOCATION	ISSUE DATE: 11/06/15
51.	LOW WALL - REFER TO PLAN FOR HEIGHT	PROJECT No.: 1350999:57
	2X6 STUD WALL 2X6 BALLOON FRAMED WALL PER STRUCTURAL	DIVISION MGR.: D.S.
54.	DBL. 2x4 WALL PER PLAN	REVISIONS: 07/25/19
55.	INTERIOR SHELF-SEE PLAN FOR HT. (REFER TO DETAIL SHEETS)	a 2018 CODE UPDATE 6 NCI9015NCP/ 03/15/19 / CTD
	MEDIA NICHE FLAT SOFFIT - REFER TO PLATE NOTES / ELEV. FOR HGT.	
	ARCHED SOFFIT - REFER TO PLATE NOTES / ELEV. FOR HOT.	DIVISION REVISIONS
	OPT. DOOR/ WINDOW PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)	B B DIVISION REVISIONS NC19031NCP/ 05/06/19 FAE
	FYPON OR EQ. SURROUNDING STRUCTURAL POST.	DIVISION REVISIONS
	BRICK / STONE VENEER - REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.CR.	• 9 DIVISION REVISIONS NC19043NCP/ 06/27/19 / FAE
	SECTIONAL GARAGE DOOR PER SPECS MIN. 1/2" GYP. BD. ON CEILINGS & WALLS © USEABLE SPACE	
	UNDER STAIR.	10 NC19056NCP/ 07/25/19 / FAE
65.	GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE	
	SIDE WALLS # 5/8" UNDER LIVING AREA U.N.O.	<sup>8</sup> <u>11</u> NC19045NCP/ 07/25/19 / FAB
	3" DIAM. CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. (NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR	
	APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL TRAVEL PATH).	FOR INTERNAL USE ONLY
	5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ABV	8 I
	P.T. POST W/ VINYL WRAP CONCRETE STOOP: 36"x36" STANDARD	3.
	CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.	<b>B</b> 4
	EGRESS WINDOW PROVIDE ADDITIONAL RIGER(S) AT OPTIONAL RLATE HT	6
	PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT. MDF TOP	PLAN:
73.	PLUMBING DROP FROM ABOVE	148.1869
	ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN	
	WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.	SHEET:
	SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE	• • • 1.3
τ1.	CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR SIZE.	1.5
	SLOPING LOW WALL 38" ABOVE ADJACENT TREADS 20 MIN. FIRE-RATED DOOR	SPEC. LEVEL 1
		RALEIGH-DURHA
NOT	T <u>E:</u> TER TO BASIC <u>FLOOR PLAN</u> FOR INFORMATION NOT	
	THE TO BASIC ELOOK FLAN FOR INFORMATION NOT	50' SERIES
SHO		

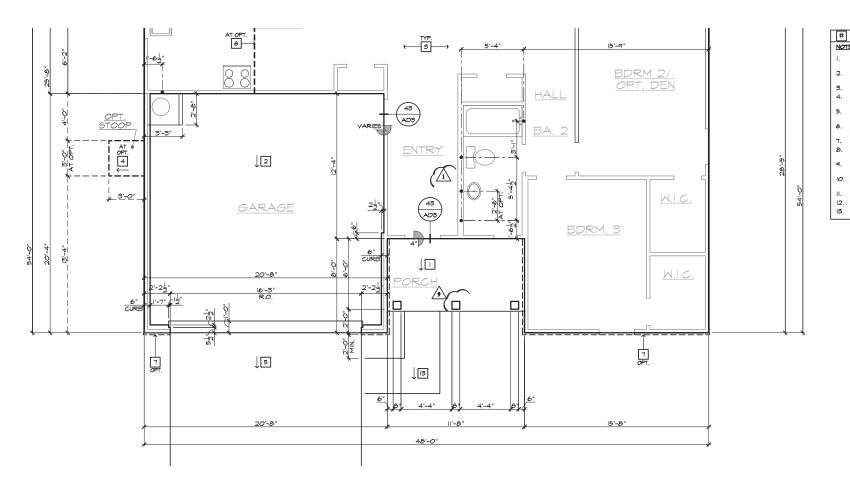
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SLAB INTERFACE PLAN 'A'

#	SLAB PLAN NOTES
NO	TE: NOT ALL KEY NOTES APPLY.
I.	CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
2.	CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER 1'-0" MIN. TOWARD DOOR OPENING.
З.	CONCRETE FOUNDATION PER STRUCTURAL.
4.	CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.
5.	CONCRETE DRIVEWAY SLOPE I/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
6.	PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
7.	5" BRICK LEDGE FOR MASONRY VENEER.
8.	3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
প.	REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
10.	VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
П.	4" MIN. 8 1/4" MAX. TO HARD SURFACE.
12.	A/C PAD. VERIFY LOCATION.
13.	36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.



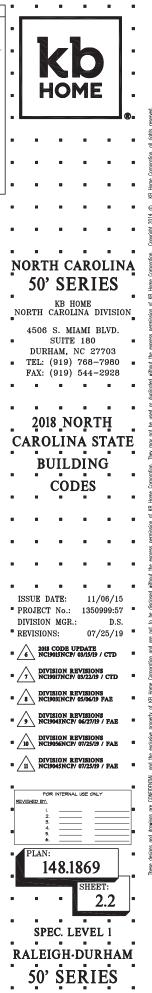


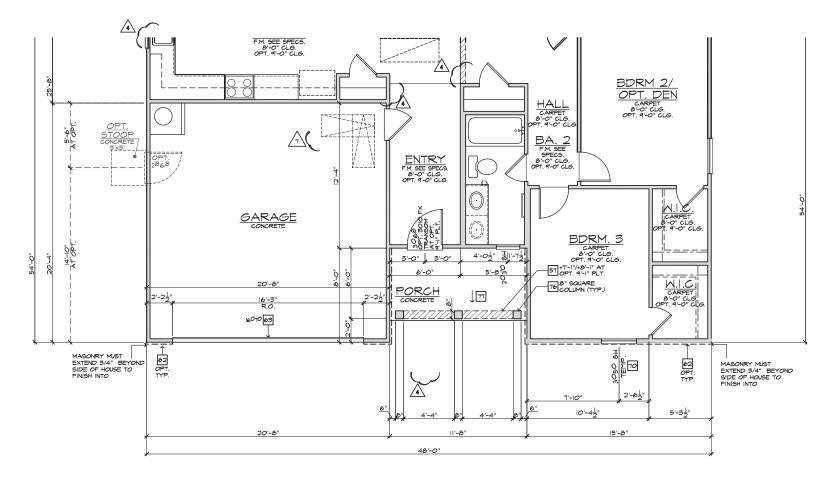
 PARTIAL SLAB INTERFACE PLAN 'C'

 \$\$cale 1/4"=1"-0" (22"x54") - 1/8"=1"-0" (11"x11")

BASIC PLAN AT SLAB-ON-GRADE

#	SLAB PLAN NOTES
NO	TE: NOT ALL KEY NOTES APPLY.
I.	CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
2.	CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1'-0" MIN. TOWARD DOOR OPENING.
З.	CONCRETE FOUNDATION PER STRUCTURAL.
4.	CONCRETE STOOP: 36"×36" STANDARD SLOPE I/4" PER FT. MIN.
5.	CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
6.	PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
7.	5" BRICK LEDGE FOR MASONRY VENEER.
8.	3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
ঀ.	REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
10.	VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
н.	4" MIN. & I/4" MAX. TO HARD SURFACE.
12.	A/C PAD. VERIFY LOCATION.
18	36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.



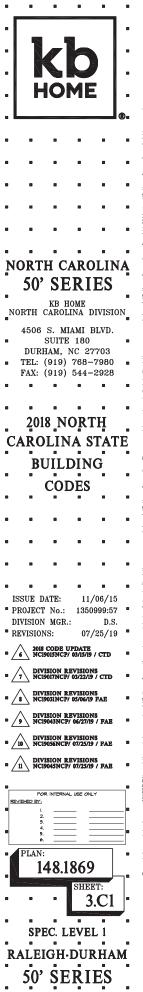


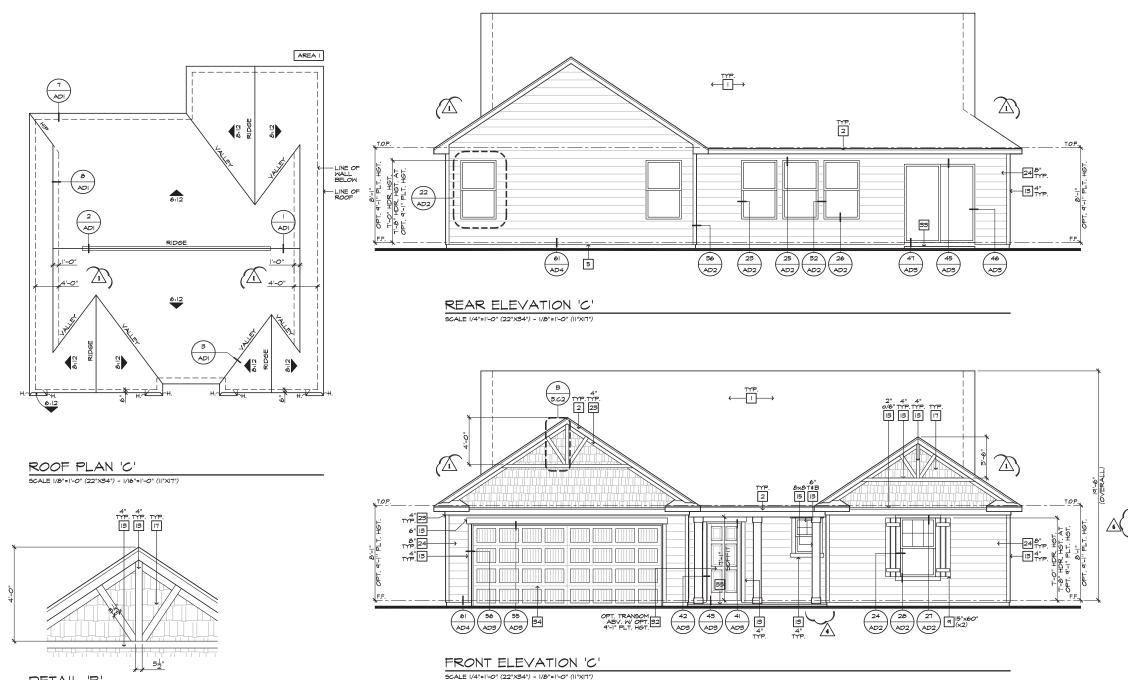
## PARTIAL FLOOR PLAN 'C'

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

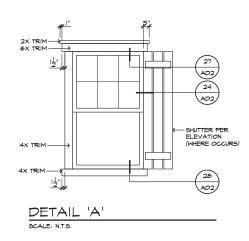
BASIC PLAN





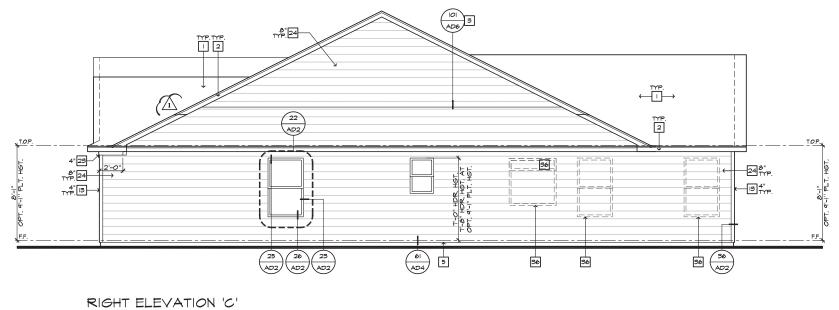


DETAIL 'B' scale: N.T.S.

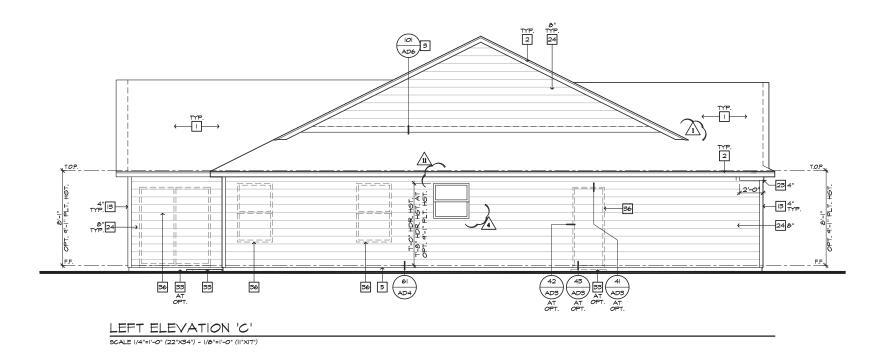


# ELEVATION NOTES	
NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES	
2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP	
3. G.I. FLASHING & SADDLE/CRICKET	
4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED	: <b>KD</b>   :
5. 24"x24" CHIMNEY	
7. DECORATIVE VENT	. HOME .
8. DECORATIVE CORBEL	I. HUME I.
9. DECORATIVE SHUTTERS 10. PEDIMENT. SEE ELEVATION FOR TYPE	
II. RECESSED ELEMENT	
12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE	
13. TRIM - SEE ELEVATION FOR SIZE	
4. SYNTHETIC MATERIAL	
<ol> <li>PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.</li> </ol>	
6. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE	
17. SHAKE SIDING	
18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS	
M. BRICK/MASCINET VENEER FER SFECS	
20. BUILT UP BRICK COLUMN	
21. SOLDIER COURSE	
22. ROWLOCK COURSE 23. FRIEZE BOARD	
24. SIDING W/ 4" CORNER TRIM PER SPECS	
25. P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE	
26. PRE-FAB DECORATIVE TRIM	NORTH CAROLINA
27. LIGHT WEIGHT PRECAST STONE TRIM 28. RAILINGS (+36" U.N.O.)	
29. VINYL WRAP	50' SERIES
30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.	KB HOME
31. BRACKET OR KICKER - FYPHON OR EQ.	NORTH CAROLINA DIVISION
32. ENTRY DOOR	
33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	4506 S. MIAMI BLVD.
34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP	SUITE 180
36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS	DURHAM, NC 27703
37. OPTIONAL STANDING SEAM METAL ROOF	<b>TEL:</b> (919) 768-7980
38. KEYSTONE 39. SOLDIER CROWN	FAX: (919) 544-2928
40. JACK SOLDIER COURSE	
41. WATER TABLE	
43. PILASTER - SEE ELEVATION FOR TYPE	2018_NORTH
ROOF PLAN NOTES 'C'	] CAROLINA STATE
	CAROLINA SIAIE
AND DIRECTION, UN.O.	BUILDING
6:12 AND DIRECTION, UN.O.	
ROOF MATERIAL: COMPOSITION SHINGLE	CODES
12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O.	
12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND	
HOUSE EXCEPT ABOVE SHEARWALL PANELS.	]
ATTIC VENT CALCULATIONS	]
PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% \$ NO MORE THAN 80% OF	]
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS	
LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3'-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED	
BY EAVE VENTS, (LOW VENTING) (2018 N.CR 806.2) * CALCULATION BY 1/150, HIGH/LOW VENTING NOT REQUIRED.	
* CALCULATION BT 1/150, HIGH/LOW VENTING NOT REQUIRED.	
APPROXIMATE RIDGE VENT LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD	
APPROXIMATE RIDGE VENT LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.	ISSUE DATE: 11/06/15
APPROXIMATE RIDGE VENT LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD. REALL/MAIN (ENTILATION REQUIRED:	ISSUE DATE: 11/06/15 PROJECT No.: 1350999:57
APPROXIMATE RIDGE VENT LOCATIONS SHOWN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD. REA 1/ MAIN TENTILATION REQUIRED: NTIC AREA 2355 SQ. FT. / 300 = 7.85 SQ. FT. X 144 = 1130 SQ. IN.	
APPROXIMATE RIDGE VENT LOCATIONS SHOWN.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NREA L / MAIN           RENTLATION REQUIRED.           VITIC AREA           2355           SQL FT. / 300 =           1.0 SQL FT.           X 50% =           565 SQL N.	PROJECT No.: 1350999:57
APPROXIMATE RIDGE VENT LOCATIONS SHOWN.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NREA I / MAIN           (ENTILATION REQUIRED:           ATTIC AREA         2355 90. FT. / 300 =           X 144 =         1120 90. IN.           X 144 =         1120 90. IN.           X 144 =         50% =           X 50% =         565 90. IN.           XENTILATION PROVIDED:         100	<ul> <li>PROJECT No.: 1350999:57</li> <li>DIVISION MGR.: D.S.</li> <li>REVISIONS: 07/25/19</li> </ul>
APPROXIMATE RIDGE VENT LOCATIONS SHOWN.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NREA I / MAIN           (ENTILATION REQUIRED:           XI44 =           XI55           XI44 =           XI50 =           XI44 =           XI50 =           XI44 =           XI60 =           XIA1 =	<ul> <li>PROJECT No.: 1350999:57</li> <li>DIVISION MGR.: D.S.</li> </ul>
APPROXIMATE RIDGE VENT LOCATIONS SHOWN.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NREA I / MAIN           ENTILATION REQUIRED.           ATTIC AREA           2355           SQL FT. / 300 =           THIC AREA           2355           ATTIC AREA           X 50% =           565           ATTIC AREA           X 50% =           565           X 50% =           565           ATTIC AREA           X 50% =           S00 =           S00 =           S01 =           S02 =           S02 =           S03 =           S04 =           S04 =           S05 =           S02 =           S03 =           S04 =           S05 =           S05 =           S06 =           S06 =           S01 =           S02 =      <	<ul> <li>PROJECT No.: 1350999:57</li> <li>DIVISION MGR.: D.S.</li> <li>REVISIONS: 07/25/19</li> <li>6 2018 CODE UPDATE</li> <li>6 NC19015NCE/ 05151/5 / CTD</li> </ul>
APPROXIMATE RIDGE VENT LOCATIONS SHOWN.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NREA L / MAIN           ZENTLATION REQUIRED.           ATTIC AREA           X50% =	<ul> <li>PROJECT No.: 1350999:57</li> <li>DIVISION MGR.: D.S.</li> <li>REVISIONS: 07/25/19</li> </ul>
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NEEA L/ MAIN           YENTLATION REQUIRED.           YITLA AREA         2555 SQ. FT. / 500 =           X 144 =           YENTLATION PROVIDED:           103 LIN FEET OF RIDGE VENT AT (16 SQ. IN./FOOT) =           32) LIN FEET OF RIDGE VENT AT (16 SQ. IN./FOOT) =           31 LIN FEET OF VENTLATED SOFFIT (5 SQ. IN./FOOT) =           ) 5-144 ROOF VENTLATED SOFFIT (5 SQ. IN./FOOT) =           YEB-TOTAL LON VENTLATION           YOTAL VENTLATION PROVIDED;	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA I / MAIN           PENTILATION REQUIRED:           XIATIC AREA           2355           SO. FT. / 300 =           X 194 =           1120           X 194 =           320 LIN FEET OF RIDGE VENT AT (16 SQ. IN./FOOT) =           -1 ST44 ROOF VENTLATED SOFFIT (5 SQ. IN./FOOT) =           -1 ST44 ROOF VENTLATION:           SUB-TOTAL LOW VENTLATION:           TOTAL VENTILATION PROVIDED;           VIDTES.	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     ▲     COLOUR UPDATE     ▲     COLOUR UPDATE     ▲     DIVISION REVISIONS
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           REAL 1/ MAIN           CENTLATION REQUIRED:           X104	<ul> <li>PROJECT No.: 1350999:57</li> <li>DIVISION MGR.: D.S.</li> <li>REVISIONS: 07/25/19</li> <li>6 2018 CODE UPDATE NC9015NCP/ 03/3/19 / CTD</li> <li>7 DIVISION REVISIONS NC9015NCP/ 03/2019 / CTD</li> <li>8 DIVISION REVISIONS NC9015NCP/ 05/06/19 FAE</li> <li>6 DIVISION REVISIONS</li> </ul>
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NREA L/ MAIN           CENTLATION REQUIRED:           ATTIC AREA           2355           SQ. FT. / 300 =           X 144 =           1100           X 164 =           2355           SQ. FT. / 300 =           X 164 =           1100           X 164 =           1101           X 164 =           1102           1111           1111           1121           1121           1131           1141           1132           1141           1131           1141           1131           1141           1132           1141           1131           1141           1141           1141           1141           1141           1141           1141           1141           1141           1141           1141	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     6 NC90150159 (7000000000000000000000000000000000000
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NREA L/ MAIN           CENTLATION REQUIRED:           ATTIC AREA           2355           SQ. FT. / 300 =           X 144 =           1100           X 164 =           2355           SQ. FT. / 300 =           X 164 =           1100           X 164 =           1101           X 164 =           1102           1111           1111           1121           1121           1131           1141           1132           1141           1131           1141           1131           1141           1132           1141           1131           1141           1141           1141           1141           1141           1141           1141           1141           1141           1141           1141	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     6 NC999157 07/25/19     7 NC9915NCF 03/25/19 (TD     7 NC9915NCF 03/25/19 (TD     7 NC9915NCF) 03/25/19 (TD     8 DIVISION REVISIONS     9 DIVISION REVISIONS     9 DIVISION REVISIONS     10 DIVISION REVISIONS     10 DIVISION REVISIONS     10 DIVISION REVISIONS
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ANTAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NEEA L/ MAIN           (ENTILATION REQUIRED)           TITIC AREA         2355 SQ. FT. / 500 =           X 144 =         1120 SQ. IN.           X 144 =         1120 SQ. IN.           X 50% =         565 SQ. IN.           X 100 =         565 SQ. IN.           X 100 =         565 SQ. IN.           X 100 =         565 SQ. IN.           X 101 IN FEET OF RIDGE VENT AT (16 SQ. IN.FOOT) =         565 SQ. IN.           X 101 IN FEET OF VENTLATED SOFFIT (5 SQ. IN.FOOT) =         565 SQ. IN.           X 101 IN FEET OF VENTLATED SOFFIT (5 SQ. IN.FOOT) =         565 SQ. IN.           X 101 IN FEET OF VENTLATED SOFFIT (5 SQ. IN.FOOT) =         565 SQ. IN.           X 100 TOTAL VENTLATION PROVIDED:         114 SQ. IN.           VENTLATION PROVIDED:         114 SQ. IN.           X 101 TOTENINGS SHALL BE COVERED WITH I/4* CORROSION           X 11 VENT OFENINGS SHALL BE COVERED WITH I/4* CORROSION           X 11 VENTS SHALL BE INSTALLED SQ AS TO MAKE THEN WATER-           X 11 VENTS SHALL BE INSTALLED SQ AS TO MAKE THEN WATER-           X 11 VENTS SHALL DE INSTALLED SO AS TO MAKE THEN WATER-           X 11 VENTS SHALL MATER-	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     6 2016 CODE UPDATE     7 DIVISION REVISIONS     7 DIVISION REVISIONS     1 DIVISION REVISIONS     8 DIVISION REVISIONS     1 DIVISION REVISIONS
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NEEA L/ MAIN           CENTLATION REQUIRED:           XTIC AREA           X 50% =           X 104 =           IID           X 104 =           X 50% =           X 50% =           X 50% =           X 104 =           X 104 =           X 104 =           X 50% =           X 101 FEET OF RIDGE VENT AT (16 50, IN, F00T) =           -         565 50, IN, -           X 101 FEET OF VENTILATION:           X 101 FEET OF VENTILATION:           X 100 TOTAL LOW VENTILATION:           X 200 TOTAL LOW VENTILATION:           X 200 TOTAL LOW VENTILATION:           X 200 TOTAL VENTILATION:           <	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     6 2016 CODE UPDATE     7 DIVISION REVISIONS     7 DIVISION REVISIONS     1 DIVISION REVISIONS     1 DIVISION REVISIONS     9 DIVISION REVISIONS     10 DIVISION REVISIONS
APPROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NEEA L/ MAIN           (ENTILATION REQUIRED)           TITIC AREA         2355 SQ. FT. / 500 =           X 144 =         1120 SQ. IN.           X 144 =         1120 SQ. IN.           X 50% =         565 SQ. IN.           X 104 =         1120 SQ. IN.           X 104 =         1120 SQ. IN.           X 50% =         565 SQ. IN.           X 104 =         1160 SQ. IN./F007) =           X 101 IN FEET OF RIDGE VENT AT (16 SQ. IN./F007) =         565 SQ. IN.           X 102 IN FEET OF VENTILATED SOFFIT (5 SQ. IN./F007) =         565 SQ. IN.           X 104 IN THE ALON VENTILATION (144 SQ. IN. EA) =         565 SQ. IN.           X 104 IN THE ALON VENTILATION (144 SQ. IN. EA) =         565 SQ. IN.           X 104 IN THE ALON VENTILATION (144 SQ. IN. EA) =         565 SQ. IN.           X 104 IN THE ALON VENTILATION (144 SQ. IN. EA) =         565 SQ. IN.           X 104 IN THE ALON PROVIDED,         114 SQ. IN.         114 SQ. IN.           X 104 IN THE ALON PROVIDED,         114 SQ. IN.         114 SQ. IN.           X 104 IN THE ALON PROVIDED,         114 SQ. IN.         114 SQ. IN.           X 104 I	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     6 NCI9905NCP/ 07/25/19     7 NCI9905NCP/ 07/25/19     7 NCI9905NCP/ 07/25/19     7 NCI9905NCP/ 05/25/19     7 NCI9905INCP/ 05/25/19     7 NCI9905INCP/ 05/25/19     7 NCI9905INCP/ 05/25/19     7 A     10 NCI9905INCP/ 05/25/19     7 FAE     10 NCI9905INCP/ 05/25/19     7 FAE
APPROXIMATE RIDGE VENT LOCATIONS SHORN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA L/ MAIN           CENTLATION REQUIRED.           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ALL YENT OF ROVIDED:         100           MB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF REGVENTATIL         565           ADB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF ACCOMMODITED,         1141           SQ. IN, FEET OF REGVENED,         1141           SQ. IN, FEET OF ACCOMMODITE ALL ATTIC VENTS.         36.11           ALL VENT OFENINGS SHALL BE COVERED WITH I/4* CORROSION         20.11           RAVERS HALL MORTED LOXYERS SHALL BE SOLED FOR NINDOW           NOTTAL VENTS SHAL	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     6 2016 CODE UPDATE     7 DIVISION REVISIONS     7 DIVISION REVISIONS     1 DIVISION REVISIONS     1 DIVISION REVISIONS     9 DIVISION REVISIONS     10 DIVISION REVISIONS
APPROXIMATE RIDGE VENT LOCATIONS SHORN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA L/ MAIN           CENTLATION REQUIRED.           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ALL YENT OF ROVIDED:         100           MB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF REGVENTATIL         565           ADB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF ACCOMMODITED,         1141           SQ. IN, FEET OF REGVENED,         1141           SQ. IN, FEET OF ACCOMMODITE ALL ATTIC VENTS.         36.11           ALL VENT OFENINGS SHALL BE COVERED WITH I/4* CORROSION         20.11           RAVERS HALL MORTED LOXYERS SHALL BE SOLED FOR NINDOW           NOTTAL VENTS SHAL	PROJECT No.: 1350999:57     DIVISION MGR.: D.S.     REVISIONS: 07/25/19     6 NC9995057 07/25/19     7 NC99957057 037/25/19     7 NC99957057 037/25/19     7 NC99957057 037/25/19     7 NC99957057 037/25/19     7 NC99957057 04727/19     7 A     10 NC99958057 0472579 7 FAE     11 NC999457057 072579 7 FAE
APPROXIMATE RIDGE VENT LOCATIONS SHORN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA L/ MAIN           CENTLATION REQUIRED.           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ALL YENT OF ROVIDED:         100           MB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF REGVENTATIL         565           ADB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF ACCOMMODITED,         1141           SQ. IN, FEET OF REGVENED,         1141           SQ. IN, FEET OF ACCOMMODITE ALL ATTIC VENTS.         36.11           ALL VENT OFENINGS SHALL BE COVERED WITH I/4* CORROSION         20.11           RAVERS HALL MORTED LOXYERS SHALL BE SOLED FOR NINDOW           NOTTAL VENTS SHAL	PROJECT No.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 6 2016 CODE UPDATE 7 DIVISION REVISIONS 7 DIVISION REVISIONS 8 DIVISION REVISIONS 9 DIVISION REVISION REVISIONS 9 DIVISION REVISION REV
APPROXIMATE RIDGE VENT LOCATIONS SHOWN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA LL MAIN (ENTILATION REQUIRED) ATTIC AREA         2555         50. FT. / 500 =         7.85         50. FT. 1.85         7.85         50. FT. 200 =         7.85         7.80         7.85         7.85         7.80         7.85         7.80         7.85         7.80         7.85         7.80         7.85         7.80         7.80         7.85         7.85	PROJECT No.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 DIVISION EVISIONS: 07/25/19
APPROXIMATE RIDGE VENT LOCATIONS SHORN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA L/ MAIN           CENTLATION REQUIRED.           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ALL YENT OF ROVIDED:         100           MB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF REGVENTATIL         565           ADB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF ACCOMMODITED,         1141           SQ. IN, FEET OF REGVENED,         1141           SQ. IN, FEET OF ACCOMMODITE ALL ATTIC VENTS.         36.11           ALL VENT OFENINGS SHALL BE COVERED WITH I/4* CORROSION         20.11           RAVERS HALL MORTED LOXYERS SHALL BE SOLED FOR NINDOW           NOTTAL VENTS SHAL	PROJECT NO.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 6 2016 CODE UPDATE 7 NC19015NCP/ 03/3/19 / CTD 7 NC19015NCP/ 03/22/19 / CTD 1 DIVISION REVISIONS 9 DIVISION REVISIONS 9 DIVISION REVISIONS 9 DIVISION REVISIONS 9 DIVISION REVISIONS 9 DIVISION REVISIONS 10 NC19045NCP/ 07/25/19 / FAE 11 NC19045NCP/ 07/25/19 / FAE 12 DIVISION REVISIONS 11 NC19045NCP/ 07/25/19 / FAE 12 DIVISION REVISIONS 13 NC19045NCP/ 07/25/19 / FAE 14 DIVISION REVISIONS 15 OR INTERVAL USE ONLY 14 DIVISION REVISIONS
APPROXIMATE RIDGE VENT LOCATIONS SHORN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA L/ MAIN           CENTLATION REQUIRED.           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ALL YENT OF ROVIDED:         100           MB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF REGVENTATIL         565           ADB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF ACCOMMODITED,         1141           SQ. IN, FEET OF REGVENED,         1141           SQ. IN, FEET OF ACCOMMODITE ALL ATTIC VENTS.         36.11           ALL VENT OFENINGS SHALL BE COVERED WITH I/4* CORROSION         20.11           RAVERS HALL MORTED LOXYERS SHALL BE SOLED FOR NINDOW           NOTTAL VENTS SHAL	PROJECT No.: 1350999:57           DIVISION MGR.: D.S.           REVISIONS: 07/25/19 <b>6 7 7 7 7 7 7 7 7 7 7 7 7 7 10 9 10</b> <
APPROXIMATE RIDGE VENT LOCATIONS SHORN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           AREA L/ MAIN           CENTLATION REQUIRED.           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ATTICA AREA         2355           SQ. FT. / 500 =         7.85           ALL YENT OF ROVIDED:         100           MB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF REGVENTATIL         565           ADB-TOTAL LON VENTILATION         565           ADB-TOTAL LON VENTILATION         565           SQ. IN, FEET OF ACCOMMODITED,         1141           SQ. IN, FEET OF REGVENED,         1141           SQ. IN, FEET OF ACCOMMODITE ALL ATTIC VENTS.         36.11           ALL VENT OFENINGS SHALL BE COVERED WITH I/4* CORROSION         20.11           RAVERS HALL MORTED LOXYERS SHALL BE SOLED FOR NINDOW           NOTTAL VENTS SHAL	PROJECT No.: 1350999:57           DIVISION MGR.: D.S.           REVISIONS: 07/25/19 <b>6</b> 2006 CODE UPDATE <b>7</b> NC19015NCF/ 03/25/19 / CTD <b>7</b> NC19015NCF/ 03/25/19 / CTD <b>8</b> DIVISION REVISIONS NC19015NCF/ 03/25/19 / TCTD <b>9</b> DIVISION REVISIONS NC19005NCF/ 03/25/19 / FAE <b>9</b> DIVISION REVISIONS NC19005NCF/ 03/25/19 / FAE <b>9</b> DIVISION REVISIONS NC19005NCF/ 07/25/19 / FAE <b>10</b> DIVISION REVISIONS NC19005NCF/ 07/25/19 / FAE <b>11</b> NC19005NCF/ 07/25/19 / FAE <b>10</b> DIVISION REVISIONS <b>11</b> NC19005NCF/ 07/25/19 / FAE <b>10</b> DIVISION REVISIONS <b>11</b> NC19005NCF/ 07/25/19 / FAE <b>11</b> NC19005NCF/ 07/25/19 / FAE <b>12</b> DIVISION REVISIONS <b>13</b> DIVISION REVISIONS <b>14</b> DIVISION REVISIONS <b>15</b> DIVISION REVISIONS <b>16</b> DIVISION REVISIONS <b>17</b> DIVISION REVISIONS <b>18</b> DIVISION REVISIONS <b>18</b> DIVISION REVISIONS <b>19</b> DIVISION REVISIONS <b>11</b> DIVISION REVISIONS
APPROXIMATE RIDGE VENT LOCATIONS SHOWN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           NEEA L/ MAIN (ENTILATION REQUIRED) ATTIC AREA         2355 SQ. FT. / 300 = X 144 = SQ. IN.         7.85 SQ. FT. SQ. IN.           ATTIC AREA         2355 SQ. FT. / 300 = X 144 = IISO SQ. IN.         7.85 SQ. IT. SQ. IN.         7.85 SQ. IN.           AND ATTIC AREA         2355 SQ. IN.         X 144 = IISO SQ. IN.         100 = SG. IN.         565 SQ. IN.           AND ATTIC AREA         2355 SQ. IN./FOOT) = SG. IN.         576 SQ. IN.         565 SQ. IN.           ADD IO TAL VENTILATION PROVIDED:         565 SQ. IN.         565 SQ. IN.         565 SQ. IN.           ADD ADD TAL LON VENTILATION (450. IN. FA) = SG. IN.         565 SQ. IN.         565 SQ. IN.         565 SQ. IN.           ADD TAL LON VENTILATION (414 SQ. IN.FA) = SG. IN.         565 SQ. IN.         565 SQ. IN.         565 SQ. IN.           ADD TAL VENTILATION HROVIDED:         IIH SQ. IN.         114 SQ. IN.         565 SQ. IN.           ADD TAL VENTILATION HROVIDED:         IIH SQ. IN.         114 SQ. IN.         114 SQ. IN.           MARE ATTREE TO ACCOMPODATE ALL ATTIC VENTS.         XIL VENTS SHALL BE RESPONSIBLE FOR COORDINATING WITH HRUSS         114 SQ. IN.           MANFACTREE TO ACCOMPODATE ALL ATTIC VENTS.         XILL MOUNTED LOWERS SHALL BE SQ. IN MAKE THEM NATER PRESCRIBED FOR ININGOM SHAL	PROJECT No.: 1350999:57         DIVISION MGR.: D.S.         REVISIONS: 07/25/19
APPROXIMATE RIPOE VENT LOCATIONS SHOWN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           REAL / MAIN           (ENTILATION REQUIRED)           TITIC AREA         2355 SQ. FT. / 300 =           X 144 =         1120 SQ. IN.           X 144 =         1120 SQ. IN.           X 50% =         565 SQ. IN.           X 50% =         565 SQ. IN.           X 104 =         1100 SQ. IN.           X 50% =         565 SQ. IN.           X 104 =         1100 SQ. IN.           X 104 =         565 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         565 SQ. IN.           X 104 =         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION: <t< td=""><td>PROJECT NO.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9322/19 / FAE • • • • • • • • • • • • • • • • • • •</td></t<>	PROJECT NO.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9322/19 / FAE • • • • • • • • • • • • • • • • • • •
APPROXIMATE RIPOE VENT LOCATIONS SHOWN ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           REAL / MAIN           (ENTILATION REQUIRED)           TITIC AREA         2355 SQ. FT. / 300 =           X 144 =         1120 SQ. IN.           X 144 =         1120 SQ. IN.           X 50% =         565 SQ. IN.           X 50% =         565 SQ. IN.           X 104 =         1100 SQ. IN.           X 50% =         565 SQ. IN.           X 104 =         1100 SQ. IN.           X 104 =         565 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         565 SQ. IN.           X 104 =         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION:         114 SQ. IN.           X 105 X 100 NOTAL LON VENTILATION: <t< td=""><td>PROJECT No.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 • • • • • • • • • • • • • • • • • • •</td></t<>	PROJECT No.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 • • • • • • • • • • • • • • • • • • •
APROXIMATE RIDGE VENT LOCATIONS SHOWN           ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.           REAL / MAIN           TENTLATION REQUIRED:           TITLC AREA         2355           SO, FT. / 300 =         7.85           TITLC AREA         2355           SO, FT. / 300 =         7.85           TITLC AREA         2355           SO, FT. / 300 =         7.85           TITLC AREA         2355           SO, FT. / 300 =         7.85           TITLC AREA         2355           SO, FT. / 300 =         7.85           TITLC AREA         2355           SO, FT. / 300 =         5.65           SO, IN, FEET OF RIDGE VENT AT (16 SQ. IN/FOOT) =         5.65           SO, IN, FEET OF VENTILATION (16 SQ. IN/FOOT) =         5.65           SO TAL VENTILATION PROVIDED.         5.65           UB-TOTAL LOW VENTILATION (145         5.65           SOTAL VENTILATION PROVIDED.         1.14           LI VENT OFENINGS SHALL BE COVERED WITH 1/4* CORROSION           SUBSTANT METAL MERPH.         5.04           SUBSTANT METAL MERPH.         5.04           STALL SE RESPONSIBLE FOR COORDINATING WITH TRUSS           STALLATION PROVIDED SO AS TO MAKE THEN MATE-           STALLATION <td>PROJECT NO.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9322/19 / FAE • • • • • • • • • • • • • • • • • • •</td>	PROJECT NO.: 1350999:57 DIVISION MGR.: D.S. REVISIONS: 07/25/19 • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9375/19 / CTD • • • NC19915NCP/ 9322/19 / FAE • • • • • • • • • • • • • • • • • • •

spec. level 1 raleigh-durham 50' SERIES



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



#	ELEVATION NOTES	] .	8				
	E: NOT ALL KEY NOTES APPLY.						
	ROOF MATERIAL - REFER TO ROOF NOTES						
	2X FASCIA/BARGE BOARD WITH FASCIA CAP				$\geq$		
	G.I. FLASHING						
4.	G.I. FLASHING & SADDLE/CRICKET						
5.	G.I. DRIP SCREED						
б.	24"x24" CHIMNEY	8					
7.	DECORATIVE VENT						
	DECORATIVE CORBEL			$\mathbf{O}$	M		
	DECORATIVE SHUTTERS						
	PEDIMENT. SEE ELEVATION FOR TYPE						
	RECESSED ELEMENT						æ
	DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE						
	TRIM - SEE ELEVATION FOR SIZE						
	SYNTHETIC MATERIAL						
5.	PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.						
	SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE	1					
	SHAKE SIDING	L _	-	_	-	-	
	STONE VENEER PER SPECS	1					
9.	BRICK/MASONRY VENEER PER SPECS	1					
	BUILT UP BRICK COLUMN	1-	-	-	-	-	
	SOLDIER COURSE	1					
	ROWLOCK COURSE						
	FRIEZE BOARD	1					
24.	SIDING W/ 4" CORNER TRIM PER SPECS	1					
25.	P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE						
	PRE-FAB DECORATIVE TRIM	NT.	ORT	U C	'A D /	אד דר	л 4
	LIGHT WEIGHT PRECAST STONE TRIM	11	UKI	пυ	AK	JLIL	٩Z
	RAILINGS (+36" U.N.O.)	"	E 01	01	ימי	DO.	
	VINYL WRAP	1	- <b>3</b> U'	21	ERI	ES	
JU.	DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.	1		KB 1	HOME		
31.	BRACKET OR KICKER - FYPHON OR EQ.	l N	ORTH			DIVISI	oN
	ENTRY DOOR	∎``					~
	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	1	4506	S M	IIAMI	BLVD	
	SECTIONAL GARAGE DOOR PER SPECS		4000				
		•			E 180		
		1	DUR	HAM,	NC 2	7703	
	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS		TEL:	(919)	768-	-7980	
	OPTIONAL STANDING SEAM METAL ROOF	1					
	KEYSTONE	1	r AX:	(919)	544-	-2928	
	SOLDIER CROWN						
40.	JACK SOLDIER COURSE	1					
41.	WATER TABLE	1					
42.	ATRIUM DOOR						
	PILASTER - SEE ELEVATION FOR TYPE	1	101	0 11	ימסו	ги	
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PROJECT No.: 1350999:57

REVISIONS: 07/25/19 E 6 2018 CODE UPDATE NCI90ISNCP/ 03/IS/19 / CTD

DIVISION REVISIONS NCI9017NCP/ 03/22/19 / CTD

DIVISION REVISIONS NCI9031NCP/ 05/06/19 FAE DIVISION REVISIONS NC19043NCP/ 06/27/19 / FAE DIVISION REVISIONS NC19056NCP/ 07/25/19 / FAE

E 11 DIVISION REVISIONS NCI9045NCP/ 07/25/19 / FAE

REVIEWED BY

PLAN:

FOR INTERNAL USE ONLY

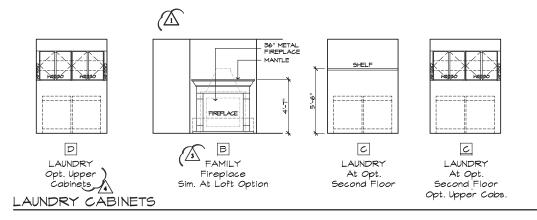
148.1869

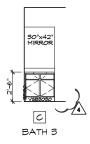
spec. level 1 raleigh-durham 50' SERIES

SHEET: 3.C3

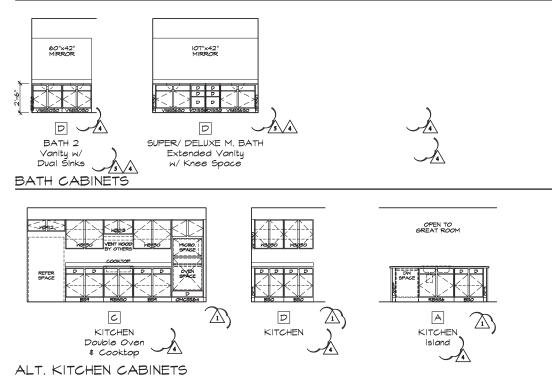
D.S.

DIVISION MGR .:

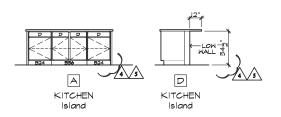




## BATH CABINETS



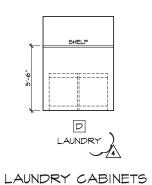




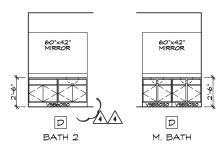
## KITCHEN CABINETS

## OPTIONAL INTERIOR ELEVATIONS

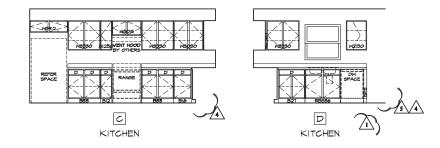
SCALE: |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



## BATH CABINETS



## BATH CABINETS

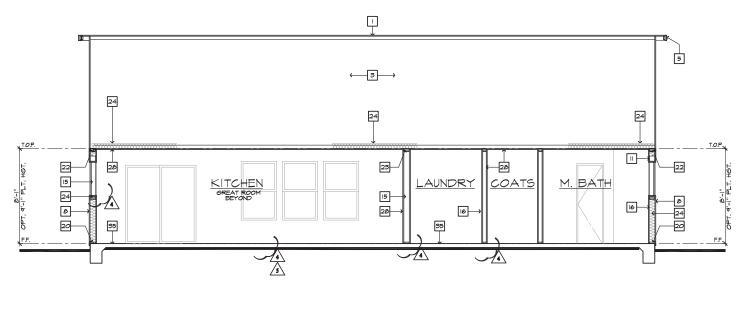


## KITCHEN CABINETS

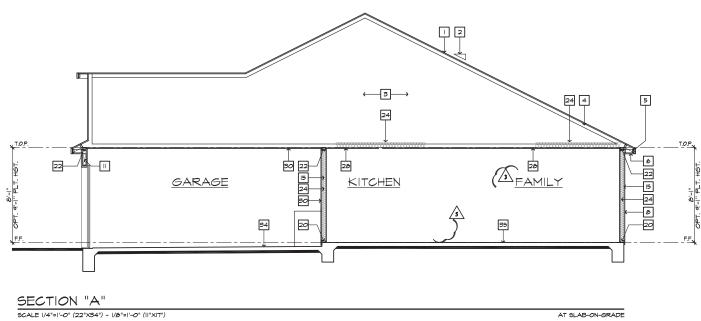
STANDARD INTERIOR ELEVATIONS

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

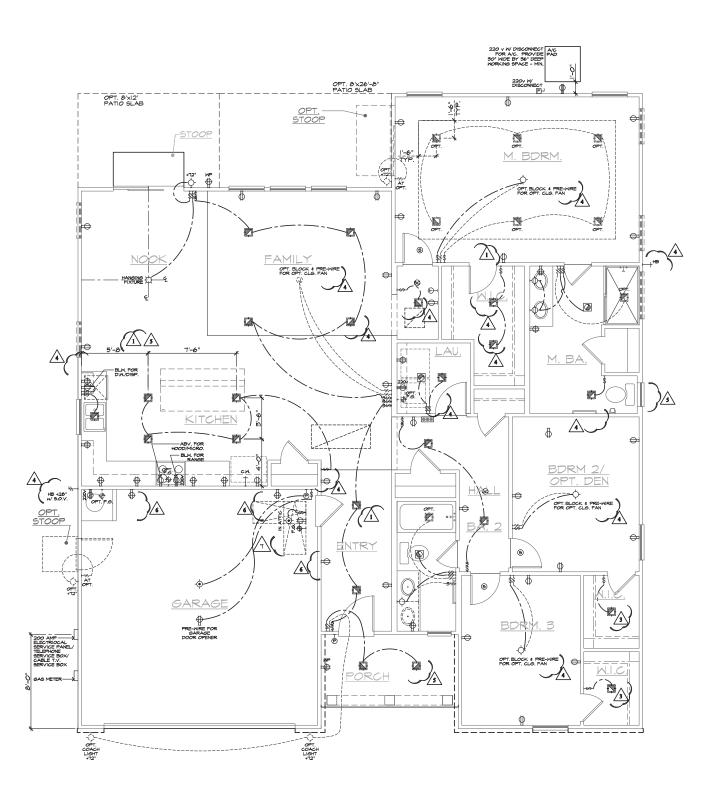
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8	TEL:	(919) (919)	768-	-7980	
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83	PROJECT DIVISION		135	0999:57 D.S	7 •
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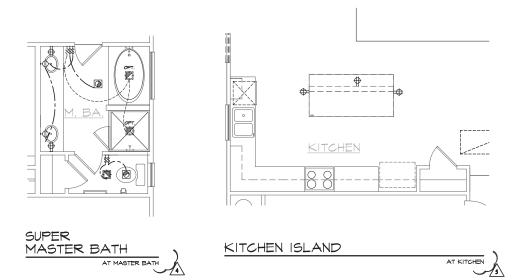
SECTION "B" SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X1T") AT SLAB-ON-GRADE



NUTLAL NOT ALL KEY MOTES ARE V	· · · · · ·
NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES	
2. ROOF PITCH - REFER TO ROOF NOTES 3. PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE	
STRUCTURAL & TRUSS CALCS	
4. ROOF SHEATHING PER STRUCTURAL 5. 2x FASCIA/BARGE BOARD	$ \mathbf{K}U $
6. CONT. SOFFITED EAVE W VENTING	
7. G.I. FLASHING - ROOF TO WALL	. HOME .
<ol> <li>EXTERIOR FINISH PER ELEVATIONS</li> <li>FLOOR FRAMING PER STRUCTURAL</li> </ol>	
0. FLOOR SHEATHING PER STRUCTURAL	@.
II. HEADER PER STRUCTURAL 12. FLUSH BEAM PER STRUCTURAL	
3. DROPPED BEAM PER STRUCTURAL	
4. FLAT/ ARCHED SOFFIT PER PLAN	
5. 2x4 STUD WALL 6. 2x6 STUD WALL	
7. 2x6 BALLOON FRAMED WALL PER STRUCTURAL	
8. DBL. 2x4 WALL PER PLAN	
9. 2× CRIPPLES © 16" O.C. 20. 2× PRESSURE TREATED SILL PLATE	
21. 2x SOLE PLATE	
22. DBL. 2x TOP PLATE . EXTERIOR & BEARING WALLS	
23. IX OVER 2X TOP PLATE @ INTERIOR & NON-BEARING WALLS	
24. INSULATION MATERIAL PER ENERGY CALCULATIONS	
25. MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT	NODTU CADOLINIA
27. STAIR TREADS AND RISERS PER PLAN: - MIN. 10" TREAD	NORTH CAROLINA
& MAX. 7 3/4" RISER 28. INTERIOR FINISH: - MIN. 1/2" GYP. BD. @ WALLS & SAG	50' SERIES
RESISTANT OR 5/8" DRYWALL . CEILING	
29. MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.	KB HOME NORTH CAROLINA DIVISION
30. 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 UN.O.	B B B B B B B B B B B B B B B B B B B
SIDE WALLS \$ 5/8" UNDER LIVING AREA U.N.O. 31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING	4506 S. MIAMI BLVD.
2. INTERIOR SHELF - MIN. 1/2" GYP. BD. OVER 3/8" PLY WD.	SUITE 180
33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE I/4" PER FT. MIN.	DURHAM, NC 27703
34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN.	<ul> <li>TEL: (919) 768-7980</li> <li>FAX: (919) 544-2928</li> </ul>
35. CONCRETE FOUNDATION PER STRUCTURAL	FAX: (919) 544-2928
36. LINE OF OPTIONAL TRAY CEILING/ STEP CEILING 37. LINE OF OPTIONAL VOLUME CEILING	
38. PROFILE OF OPTIONAL COVERED PATIO	
39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS.	
10. 8" BLOCK WALL 11. 5/8" TYPE-X DRYWALL @ GARAGE	2018 NORTH
CEILING	<b>CAROLINA STATE</b>
12. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A	
SINGLE-FAMILY DWELLING, DRAFT STOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT	BUILDING
EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.	
	CODES
	ISSUE DATE: 11/06/15
	PROJECT No.: 1350999:57
	DIVISION MGR.: D.S.
	REVISIONS: 07/25/19
	2018 CODE UPDATE
	• <u>6</u> NC19015NCP/ 03/15/19 / CTD •
	DIVISION REVISIONS     NCI9017NCP/ 03/22/19 / CTD
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	B A DIVISION REVISIONS NC19031NCP/ 05/06/19 FAE
	DIVISION REVISIONS     NCI9043NCP/ 06/27/19 / FAE
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	DIVISION REVISIONS
	• <u>11</u> NCI904SNCP/ 07/25/19 / FAE
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	PLAN: 148.1869 SHEET: 4.2 SPEC. LEVEL 1 RALEIGH-DURHAM
	PLAN: 148.1869 SHEET: 4.2 SPEC. LEVEL 1

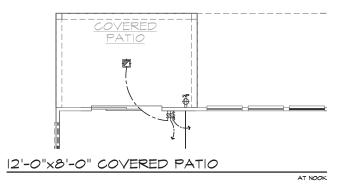


	UTILITY LEGEND	•	8	•		•	8
⊕w≉ø≠	120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12° ABV. FIN. FLR. TYPICAL U.N.O. 120V (TR) RECEPTACLE W/ GFI CIRCUIT						
r∰ wP ⊫⊖ eFi	W/ WATER RESISTANT HOUSING	8			n		•
⊕ ₽	FUSED DISCONNECT	8					8
o	120v (AFCI & TR) RECESSED FLOOR RECEPTACLE W COVER		Ň	10	ME		
÷	120v (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT	. L					®•
I€ 220 v	220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN						
÷	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. &" ABOVE COUNTER U.N.O.		_	_	_	_	_
+ <del>(∕)</del> -5 +(∕)-4	THREE-POLE LIGHT SWITCH FOUR-POLE LIGHT SWITCH			•	•		
ю́-м.р.	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING	•	8		•		8
ф	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	•	•		•	•	8
ю́-	WALL MOUNTED FLUORESCENT LIGHT FIXTURE		8		•	8	
¢	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE						
-\$-	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE	N	ORT	НС	ARO	LIN	[A
¤	HANGING INCANDESCENT LIGHT FIXTURE		<b>50</b> <sup>2</sup>	SE	RI	ES	
₽ Ø	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)	•		KB H	IOME		
₽ ₽	RECESSED INCANDESCENT LIGHT FIXTURE	NO NO			INA DI		)N B
₩.Р.	PER SPECS RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING			SUITE			
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	RECESSED EXHAUST FAN RECESSED EXHAUST FAN/ INCANDESCENT			- 1 - E -	544-2		_
	LIGHT COMBINATION RECEISED EXHAUST FANY FLUORESCENT				•		
D	LIGHT COMBINATION INCANDESCENT WALL SCONCE	•	201	"  0 T	• •	a LI	
]	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET						ם כווי
					IA S		<b>E</b>
	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)		B	UIL	DING	3	8
			_	COI	DES	_	_
i I i	12"x48" FLUORESCENT LIGHT				•	•	
	BOX (CEILING MOUNTED)	•	8		•		
	OPTIONAL PRE-WIRED CEILING FAN				•	•	8
® Q	AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O. CEILING MOUNTED JUNCTION BOX	-			•		
нQ	WALL MOUNTED JUNCTION BOX		8				8
●●● ⊢∎⊻	DOOR CHIME CATV RECEPTACLE		SUE I			06/15	
⊢® ⊢∎	PUSH BUTTON PHONE OUTLET			ΓNo.: MGR.		099:57 D.S.	
]	SERVICE BOX	RE RE	VISIO			25/19	
—) нв —# нв	HOSE BIB HOSE BIB W/ S.O.V.	• /	6 201 6 NC	I CODE I I90ISNCP	JPDATE / 03/15/19 /	CTD	8
— см	WATER STUB FOR ICE MAKER APPROVED CEILING MOUNTED	• _		ISION R	EVISIONS / 03/22/19 /	стр	8
6	SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	• /		ISION R	EVISIONS / 05/06/19 1	FAB	
&9 ⊢©	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET. THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)	. /		ISION R	EVISIONS / 06/27/19		
⊬∳	GAS TAP		 \		EVISIONS		
١ <del>\X</del>	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	<u>"</u>	0 ∕ №С	19056NCF	/ 07/25/19	/ FAE	
RC	ITCHING FOR 24" MIN. SEPERATION DOMS W/ CLG. FAN OF ELECTRICAL BOXES	• /		ISION R	EVISIONS / 07/25/19	FAB	8
LIGHT / F			Fo	R INTERNA	NL USE ONLY		
7 HO		B B	EWED BY				_
	\$\$ # # <u>\$\$\$</u> # <u>MIN.</u> #		3	_	= =		
<u>55600</u>	NDARY MASTER GARAGE NOTES		PLAN				Ē
I. MEC SHO ENG	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE AN FOR INTENT ONLY. THESE SYSTEMS SHALL BE INEERED BY OTHERS. THE CONTRACTOR SHALL BE				869		
RES PLA	INCERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE FIXTURE.				SHEE	T:	7"
	VIDE SMITCH, LIGHT, I20V (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 220V RECEPTACLE TITC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	-	•			5.1	
3. SMC	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO	-	8		8	8	-
BE	LOCATED AT HIGHEST POINT OF CEILING		SP.	EC. L	EVEL	, 1	8
	FOOT #4 REBAR FOR UFER GROUND AND ITIONAL COLD WATER GROUND, REFER TO SLAB RFACE PLAN FOR LOCATION.		LE	IGH	DUR	HA	M
5. 200 PLA AMF	) AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL N CHECK PERMIT REQUIRED IF LOAD EXCEED 400 S.		50'	SE	ŔIJ	ËS	



\*

	UTILITY LEGEND	
⊕ ⊕≉°¢≠	120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12° ABV. FIN. FLR. TYPICAL UN.O. 120V (TR) RECEPTACLE W/ GFI CIRCUIT	
щте ме щте епі	W WATER RESISTANT HOUSING	
⊕ Ľ	FUSED DISCONNECT	
$\odot$	120v (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER	
÷	120v (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT	«
I <b>I 220</b> ∨	220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN	
н <del>о</del> -	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. $\mathcal{B}^*$ ABOVE COUNTER U.N.O.	
+-07-3 +-07-4	THREE-POLE LIGHT SWITCH FOUR-POLE LIGHT SWITCH	
ю́-и.р.	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING	
ψ	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	
∲-	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	
-¢-	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE	
-¢-	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE	NORTH CAROLINA
¤	HANGING INCANDESCENT LIGHT FIXTURE	50' SERIES
₽ D	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)	KB HOME
₽ ₽	RECESSED INCANDESCENT LIGHT FIXTURE LIGHTING - TRAVERSE II LED FIXTURE - DEED GEECG	NORTH CAROLINA DIVISION
₩.Р.	PER SPECS RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING	4506 S. MIAMI BLVD. SUITE 180
¢	RECESSED FLUORESCENT LIGHT FIXTURE	DURHAM, NC 27703 TEL: (919) 768-7980
	RECESSED EXHAUST FAN RECESSED EXHAUST FAN/ INCANDESCENT	FAX: (919) 544-2928
¢ ØØ	LIGHT COMBINATION RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION	
D	LIGHT COMBINATION INCANDESCENT WALL SCONCE	
]	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET	2018 NORTH
		CAROLINA STATI
0 0	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	BUILDING
		CODES
	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	
illi		5 6 5 6 6
© 9	OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O. CEILING MOUNTED JUNCTION BOX	
нQ	WALL MOUNTED JUNCTION BOX	
	DOOR CHIME CATV RECEPTACLE	ISSUE DATE: 11/06/15
⊢®	PUSH BUTTON	<ul> <li>PROJECT No.: 1350999:57</li> <li>DIVISION MGR.: D.S.</li> </ul>
1	PHONE OUTLET SERVICE BOX	REVISIONS: 07/25/19
_, +es	HOSE BIB	2018 CODE UPDATE     NCI9015NCP/ 03/15/19 / CTD
—#нв —+см	HOSE BIB W S.O.V. WATER STUB FOR ICE MAKER	DIVISION REVISIONS NC19017NCP/ 03/22/19 / CTD
9	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	△ → DIVISION REVISIONS
8	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	A NCI9031NCP/ 05/06/19 FAE     DIVISION REVISIONS
⊢© ⊦∳	THERMOSTAT (VERIFY LOCATION W HVAC PLAN) GAS TAP	* <u>9</u> NCI9043NCP/ 06/27/19 / FAE
١	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	DIVISION REVISIONS     NC19056NCP/ 07/25/19 / FAE
sh	ITCHING FOR 24" MIN. SEPERATION	DIVISION REVISIONS NCI9045NCP/ 07/25/19 / FAE
RC OF LIGHT / F	TIONS AS SHOWN BELOW	B
? HO		
_		1.
SECO	NDARY MASTER GARAGE	4.
I. MEC		PLAN:
ENG RES	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE NN FOR INTENT ONLY. THESE SYSTEMS SHALL BE INEERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND CEMENT ALL HEIGHTS SHOWN ARE TO CENTER! INF	. 148.1869
OF F	CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE "IXTURE. VIDE SWITCH LIGHT. 1207 (AFCI & TR) DUPLEX	SHEET: 5.2
	VIDE SWITCH, LIGHT, I20V (AFGI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 220V RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	
	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING	SPEC. LEVEL 1
4. 20 F ADD INTE	FOOT #4 REBAR FOR UFER GROUND AND ITIONAL COLD WATER GROUND. REFER TO SLAB RFACE PLAN FOR LOCATION.	RALEIGH-DURHAM
5. 200 PLA	AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL N CHECK PERMIT REQUIRED IF LOAD EXCEED 400	
AMP	5.	50' SERIES

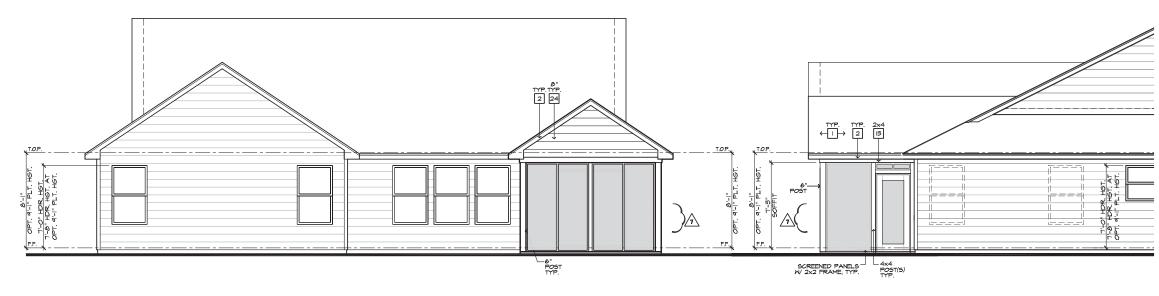


UTILITY PLAN OPTIONS

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

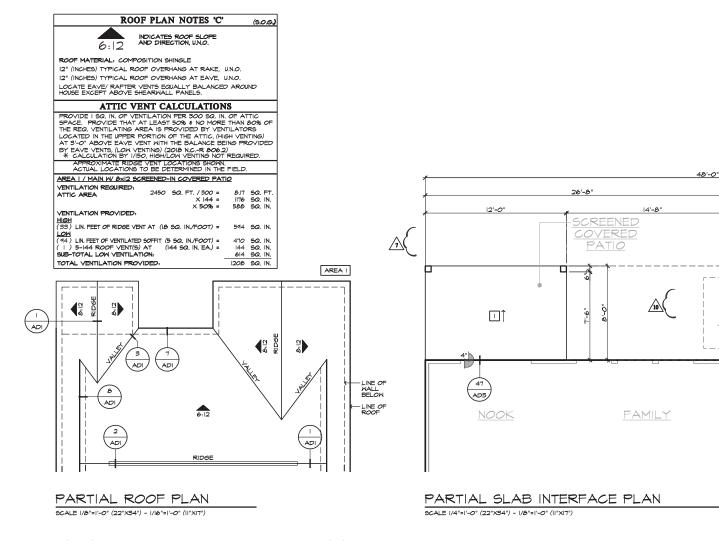
\*

	UTILITY LEGEND	]
⊕ ⊯≉≉	120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12° ABV. FIN. FLR. TYPICAL U.N.O. 120V (TR) RECEPTACLE W/ GFI CIRCUIT	
⊫⊕w≉ ⊫⊖e=i	W WATER RESISTANT HOUSING	' kh l
⊕ Ľ	FUSED DISCONNECT	
Ō	120v (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER	I HOME
•	120v (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT	
I <b>I</b> 220 v	220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN	
÷	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. $\mathcal{B}^*$ ABOVE COUNTER U.N.O.	
+ <del>∪&gt;</del> 3 +⊎>-4	THREE-POLE LIGHT SWITCH FOUR-POLE LIGHT SWITCH	
ю́-и.р.	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING	
ф	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	
ŀ¢-	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	
÷	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE	
-¢-	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE	NORTH CAROLIN
¤	HANGING INCANDESCENT LIGHT FIXTURE	50' SERIES
₽ D	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)	KB HOME
₽ ₽	RECESSED INCANDESCENT LIGHT FIXTURE LIGHTING - TRAVERSE II LED FIXTURE - DED GED GET G	NORTH CAROLINA DIVISIO
₩.Р.	PER SPECS RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING	4506 S. MIAMI BLVD. SUITE 180
¢	RECESSED FLUORESCENT LIGHT FIXTURE	DURHAM, NC 27703 TEL: (919) 768-7980
	RECESSED EXHAUST FAN RECESSED EXHAUST FAN/ INCANDESCENT	FAX: (919) 544-2928
¢ Ø	LIGHT COMBINATION RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION	
D	LIGHT COMBINATION	
]	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET	2018 NORTH
		CAROLINA STAT
00	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	BUILDING
		CODES
i I i		
	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	
illi	OPTIONAL PRE-WIRED CEILING FAN	
® 9	AND SHITCH - LOCATED IN CENTER OF ROOM U.N.O. CEILING MOUNTED JUNCTION BOX	
⊢Q	WALL MOUNTED JUNCTION BOX	
●●● ⊢™	DOOR CHIME CATV RECEPTACLE	ISSUE DATE: 11/06/15
⊢®	PUSH BUTTON	PROJECT No.: 1350999:57 DIVISION MGR.: D.S.
]	PHONE OUTLET SERVICE BOX	REVISIONS: 07/25/19
—+нв —≁нв	HOSE BIB HOSE BIB W/ S.O.V.	2018 CODE UPDATE     NCI90I5NCP/ 03/15/19 / CTD
—+ см	WATER STUB FOR ICE MAKER	DIVISION REVISIONS NCI9017NCP/ 03/22/19 / CTD
9	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD MIRED WITH BATTERY BACK-UP AND INTERCONNECTED	DIVISION REVISIONS B NCI9031NCP/ 05/06/19 FAE
& ⊦©	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET. THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)	△ → DIVISION REVISIONS
-© -♦	GAS TAP	<sup>8</sup> <u>9</u> NCI9043NCP/ 06/27/19 / FAE
١	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	DIVISION REVISIONS NCI9056NCP/ 07/25/19 / FAE
sh	ITCHING FOR 24" MIN. SEPERATION	DIVISION REVISIONS NCI9045NCP/ 07/25/19 / FAE
RC OF LIGHT / F	TIONS AS SHOWN BELOW FAN LIGHT	8
7 HO		
=		2 3 4
SECO	NDARY MASTER GARAGE	6
I. MEC		• PLAN: 148.1869
PLA	HANICAL, ELECTRICAL, AND PLUMBING SYSTEMS ARE AN FOR INTENT ONLY. THESE SYSTEMS SHALL BE INSERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND CEMENT, ALL HEIGHTS SHOWN ARE TO CENTERLINE	•
OF F	IXTURE.	SHEET: 5.3
	VIDE SWITCH, LIGHT, I20V (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 220V RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	
	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING	SPEC. LEVEL 1
4. 20 F ADD INTE	FOOT #4 REBAR FOR UFER GROUND AND ITIONAL COLD WATER GROUND. REFER TO SLAB RFACE PLAN FOR LOCATION.	RALEIGH-DURHA
5. 200 PLA	AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL N CHECK PERMIT REQUIRED IF LOAD EXCEED 400	50' SERIES
AMP	<i>ɔ</i> .	J JU SERIES

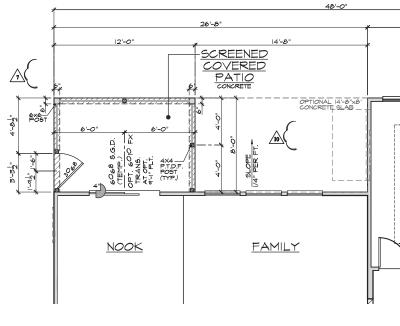


REAR ELEVATION

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





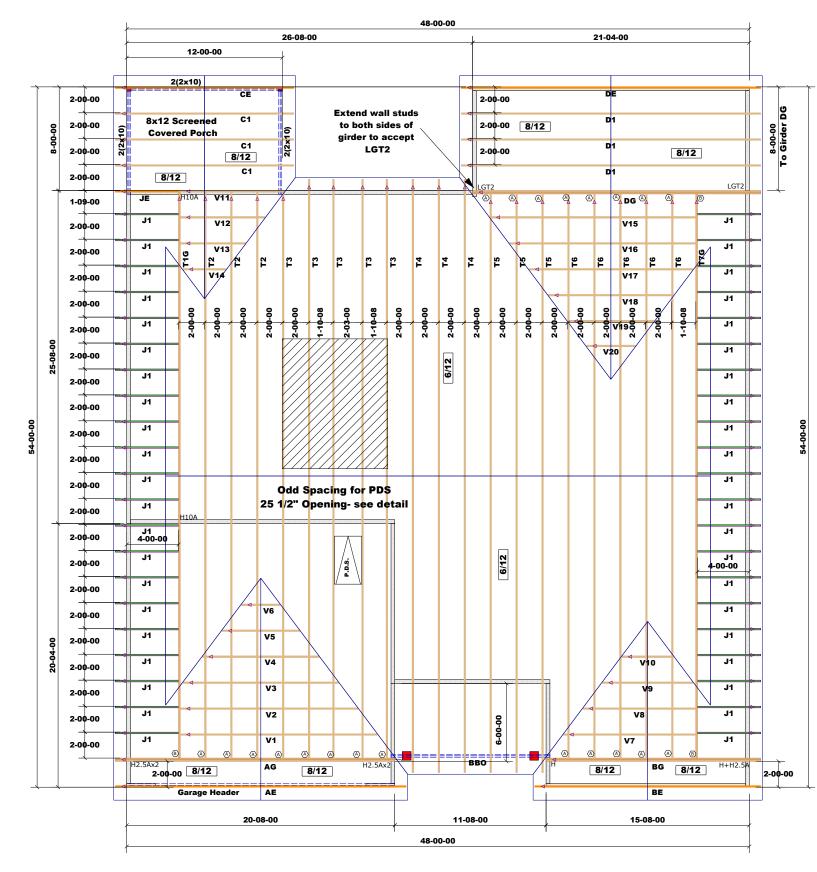


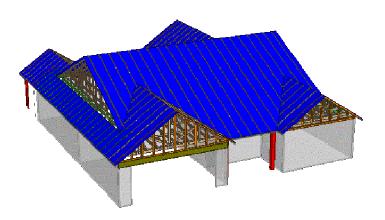
PARTIAL FIRST FLOOR PLAN SCALE 1/4"=1"-0" (22"X34") - 1/8"=1"-0" (11"X17")

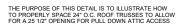
8'x12' SCREENED-IN COVERED PATIO 'C'

# ELEVATION NOTES	
NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES	· ·
2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING	
4. G.I. FLASHING & SADDLE/CRICKET	
5. G.I. DRIP SCREED 6. 24"x24" CHIMNEY	
1. DECORATIVE VENT	HOME .
3. DECORATIVE CORBEL 1. DECORATIVE SHUTTERS	I HUME I.
0. PEDIMENT. SEE ELEVATION FOR TYPE	
I. RECESSED ELEMENT 2. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE	0.
3. TRIM - SEE ELEVATION FOR SIZE	
<ol> <li>SYNTHETIC MATERIAL</li> <li>PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)</li> </ol>	
FYPON OR EQ. SURROUNDING STRUCTURAL POST.	
6. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE 17. SHAKE SIDING	
8. STONE VENEER PER SPECS	
9. BRICK/MASONRY VENEER PER SPECS	
20. BUILT UP BRICK COLUMN	
21. SOLDIER COURSE 22. ROWLOCK COURSE	
23. FRIEZE BOARD	
24. SIDING W/ 4" CORNER TRIM PER SPECS 25. P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE	
26. PRE-FAB DECORATIVE TRIM	NORTH CAROLINA
27. LIGHT WEIGHT PRECAST STONE TRIM 28. RAILINGS (+36" U.N.O.)	
28. RAILINGS (+36" U.N.O.) 29. VINYL WRAP	50' SERIES
30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.	KB HOME
31. BRACKET OR KICKER - FYPHON OR EQ.	NORTH CAROLINA DIVISION
32. ENTRY DOOR 33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	4506 S. MIAMI BLVD.
33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS	4506 S. MIAMI BLVD.
35. ALUMINUM WRAP	DURHAM, NC 27703
36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF	<ul> <li>TEL: (919) 768-7980</li> </ul>
38. KEYSTONE	FAX: (919) 544-2928
39. SOLDIER CROWN 40. JACK SOLDIER COURSE	
40. JACK SOLDIER COURSE 41. WATER TABLE	
42. ATRIUM DOOR	
43. PILASTER - SEE ELEVATION FOR TYPE # PARTIAL PLAN NOTES	2018_NORTH
	CAROLINA STATE
NOTE, NOT ALL KEY NOTES APPLY. 27. MATER HEATTER LOCATION FOR GAS - LOCATE ON 10" HIGH DEATNORM - FOR INTERIOR LOCATION PROVIDE PAN & DRAIN. (REFER TO DETAILS) 28. MANER HATER B' VENT TO OUTSIDE AIR 21. MANE HATE SHIT-OFT VALVE AND TEMP. & PRESSURE RELIEF	
DRAIN, (REFER TO DETAILS) 28. WATER HEATER 'B' VENT TO OUTSIDE AIR 24. MAINI I NE GUITZOEE VAI VE AND TEMP, & PREGGIRE PELIEE	BUILDING
42 LINE OF FLOOR BELOW	CODES
48. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL SHEETS) 50. AVC PAD LOCATION 51. LOW WALL - REFER TO PLAN FOR HEIGHT	
52. 2x6 STUD WALL 54. DBL, 2x4 WALL PER PLAN	
55. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT 57. FLAT SOFFIT 50. ARCHED SOFFIT	
60. OPT. DOOR/ WINDOW	
<ol> <li>PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)</li> <li>PYPON OR EQ. SURROUNDING STRUCTURAL POST.</li> <li>BRICK / STONE VENEER - REFER TO ELEVATIONS</li> </ol>	
63 SECTIONAL GARAGE DOOR PER SPECS	
66. 3" DIAM. CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. (NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR	
APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL TRAVEL PATH).	
68. P.T. POST W VINYL WRAP. 70. EGRESS WINDOW	ISSUE DATE: 11/06/15
<ol> <li>MINDOW LEDGE. HEIGHT &amp; WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.</li> </ol>	PROJECT No.: 1350999:57 DIVISION MGR.: D.S.
BETON LEDGE: RELEASE BETOND WINDOWS: ON ALL SIDED LINC. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE 11. COLUMN - SLOPE 1/4" PER FT. MIN. SEE PLAN FOR	DIVISION MGR.: D.S. REVISIONS: 07/25/19
SIZE.	
	2018 CODE UPDATE 6 NC19015NCP/ 03/15/19 / CTD
	DIVISION REVISIONS
	T NCI90I7NCP/ 03/22/19 / CTD
	DIVISION REVISIONS NC19031NCP/ 05/06/19 FAE
	DIVISION REVISIONS DIVISION REVISIONS NCI9043NCP/ 06/27/19 / FAE
	DIVISION REVISIONS
	NC19056NCP/ 07/25/19 / FAE           DIVISION REVISIONS
	II NC19045NCP/ 07/25/19 / FAE
	FOR INTERNAL USE ONLY
	3
	6
	PLAN:
	. 148.1869
	SHEET: 8.C5
NOTE:	0.U3
REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE	
REFER TO BASIC ROOF PLAN FOR INFORMATION NOT	SPEC. LEVEL 1
REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT	
REFER TO BASIC <u>ROOF FLAN</u> FOR INFORMATION NOT NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC ELCOR FLAN FOR INFORMATION NOT	SPEC. LEVEL 1









TRUSSES TO BE DESIGNED AT 24\* ON CENTER

△ Truss Left end designated with triangle on layout

RUSS LAYOUT DIMENSIONS AT PULL DOWN ATTIC ACCESS

Hanger List				
Symbol	Qty			
А	HUS26	21		
В	HUS28	3		
Н	HTS20	2		
	H10A	2		
	LGT2	2		

2-00-00

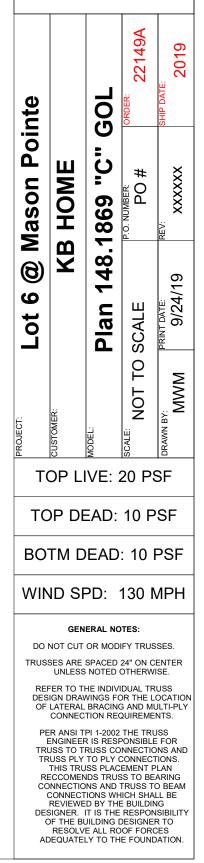
Hatch Legend
HVAC/Storage

T6 and T7G are symmetrical Most Main Trusses are not symmetrical- review for interior bearings and stubs at girders





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

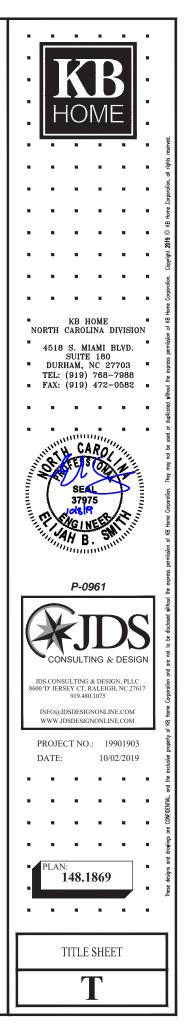


# **STRUCTURAL PLANS FOR:**



	O ORDER	148.	1869 - LH	GARAGE	
PLAN RI	ELEASE / REVISIONS				
REV DATE	ARCH PLAN VERSION	<b>REVISION DESCRIPTION</b>	ON		DRFT
09/20/2019	148.1869 LH 2019.07.25	INITIAL SETUP OF LAYOUT			CAR
09/20/2019	148.1869 LH 2019.07.25	CREATED LOT-SPECIFIC STRU	CTURAL LAYOUT FROM MASTER PL	AN AND EWP LAYOUT	CAR
10/02/2019	148.1869 LH 2019.07.25	ADDED SLIDER DOOR AT MAS	TER BED		CAR
	NOTES		CODE	ENGINEER OF RECORD	)
ONLY. ENGINEER' ACCURACY OR AF GEOMETRY. JDS ( LIABILITY FOR CH OTHERS, OR FOR DEVIATION FROM	S SEAL DOES NOT CERTIFY DIMENSIONAL       LIMITED         ICHITECTURAL LAYOUT, INCLUDING ROOF       ICHITECTURAL LAYOUT, INCLUDING ROOF         ICONSULTING & DESIGN, PLLC ASSUMES NO       A. IF TI         ANGES MADE TO THESE PLANS BY       THE         CONSTRUCTION METHODS, OR FOR ANY       THE         THE PLANS. ENGINEER TO BE NOTIFIED       PLA         RUCTION IF ANY DISCREPANCIES ARE       B. IF TI	AUST HAVE SIGNED SEAL TO BE VALID AND ARE TO THE FOLLOWING USES: HESE PLANS ARE ISSUED AS A MASTER-PLAN SET, SET IS VALID FOR 18 MONTHS FROM THE DATE ON SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE CED IN EFFECT BY THE MUNICIPALITY. HESE PLANS ARE NOT ISSUED AS A MASTER-PLAN , THE SET IS VALID FOR A CONDITIONAL, ONE-TIME	ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER: 2018 NORTH CAROLINA STATE BUILDING CODE:	JDS CONSULTING & DESIGN, PLLC ENGINEERING, BUILDING DESIGN, & CONSTR CONSULTING SERVICES 8600 'D' JERSEY COURT RALEIGH, NC 27617	UCTION

NO	TES	CODE	ENGINEER OF R
<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	JDS CONSULTING & DESIGN, PLLO ENGINEERING, BUILDING DESIGN, CONSULTING SERVICES 8600 'D' JERSEY COURT RALEIGH, NC 27617 PROJECT REFERENCE: 19901903



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 VERIEVALL 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

ADDI	EVIATIONS	110	
		LVL	LAMINATED VENEER
ABV	ABOVE		LUMBER
	ABOVE FINISHED FLOOR		MAXIMUM
ALT	ALTERNATE		MECHANICAL
BRG	BEARING		MANUFACTURER
BSMT	BASEMENT		MINIMUM
CANT	CANTILEVER		NOT TO SCALE
CJ	BASEMENT CANTILEVER CEILING JOIST		OVERALL
CLG	CEILING CONCRETE MASONRY UNIT CASED OPENING		ON CENTER
CMU	CONCRETE MASONRY UNIT		PRESSURE TREATED
CO	CASED OPENING	R	RISER
COL	COLUMN	REF	
CONC	CONCRETE	RFG	ROOFING
CONT	CONTINUOUS	RO	ROUGH OPENING
D	CONTINUOUS CLOTHES DRYER	RS	ROOF SUPPORT
DBI		30	STUD COLUMIN
DIAM	DIAMETER	SF	SQUARE FOOT (FEET)
DJ	DOUBLE JOIST	SH	
DN	DOWN	SHTG	
DP	DEEP		SHOWER
DR	DOUBLE RAFTER	SIM	SIMILAR
DSP			SINGLE JOIST
EA	EACH		STUD POCKET
EE	EACH END		SPECIFIED
EQ	EQUAL	SQ	SQUARE
EX	EXTERIOR	т	TREAD
FAU	FORCED-AIR UNIT	TEMP	TEMPERED GLASS
FDN	FOUNDATION	THK	TEMPERED GLASS THICK(NESS)
FF	FINISHED FLOOR	тJ	TRIPLE JOIST
	FLOOR(ING)	тос	TRIPLE JOIST TOP OF CURB / CONCRETE TRIPLE RAFTER
FP		TR	TRIPLE RAFTER
FTG	FOOTING	TYP	TYPICAL
НВ	HOSE BIBB	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	w	CLOTHES WASHER
HGR	HANGER	WH	WATER HEATER
JS	JACK STUD COLUMN	WWF	WATER HEATER WELDED WIRE FABRIC EXTRA JOIST
		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
- 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.
  - B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER 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. B 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. WITH 2x4 STUDS @ 24" OC.
- STRUCTURAL COMPONENTS.
- CONSTRUCTION
- - LUMBER

    - DETAILS.
- SPECIFICATIONS

- р
- 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

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

MANUFACTURER C. 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.

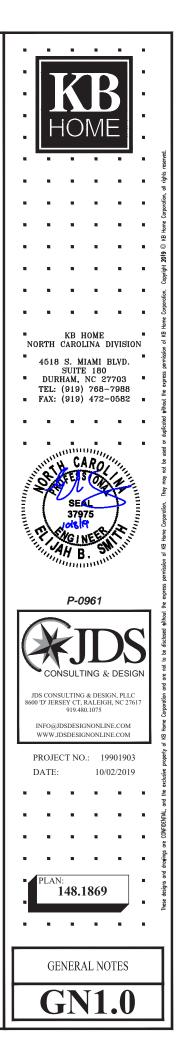
12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM

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)

	MAX HEIGHT (PLATE TO PLATE)
FRAMING MEMBER SIZE	
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 @ 12" OC	25'-0"
(2) 2x8 @ 16" OC	27'-0"
(2) 2x8 @ 12" OC	31'-0"

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

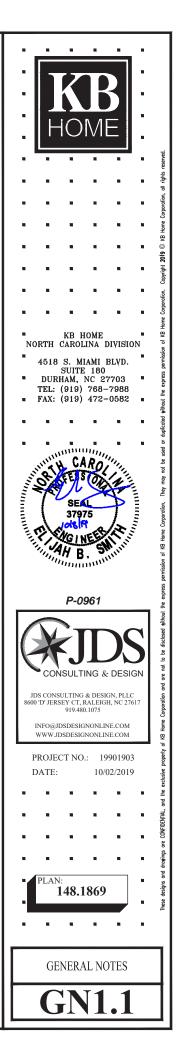
#### STICK-FRAMED ROOF - STRUCTURAL NOTES

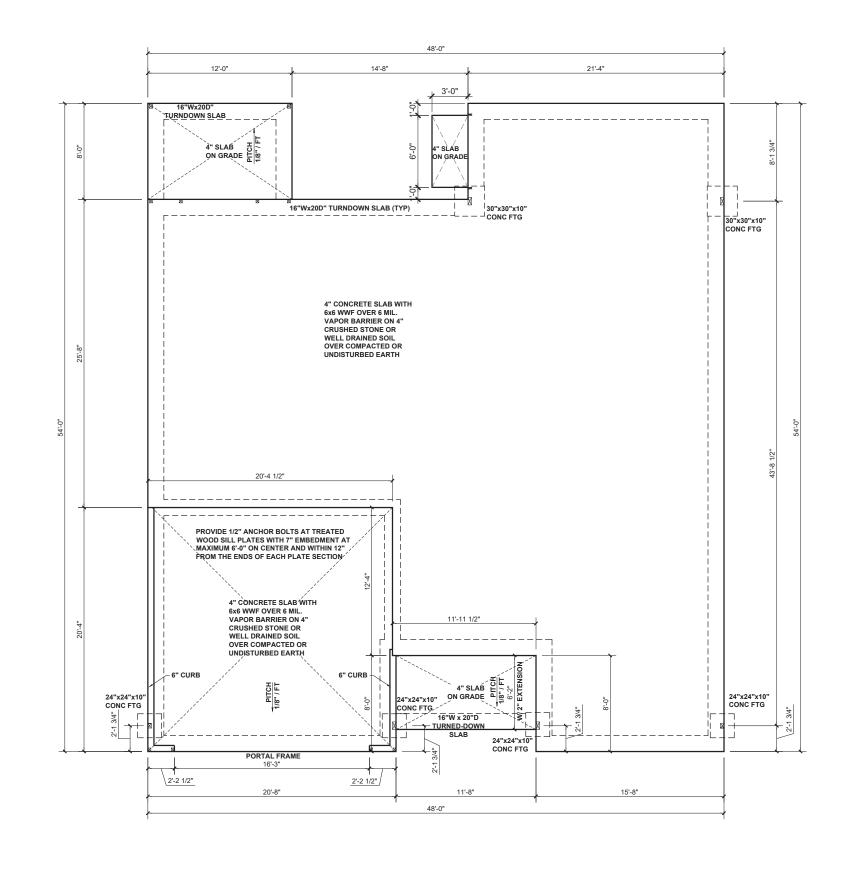
- 1. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
- 2. FUR RIDGES FOR FULL RAFTER CONTACT.
- 3. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- 4. DENOTES OVER-FRAMED AREA
- 5. MINIMUM 7/16" OSB ROOF SHEATHING
- PROVIDE 2x4 RAFTER TIES AT 16" 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.





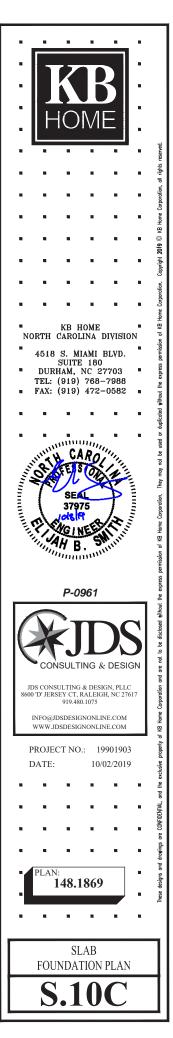
# **SLAB FOUNDATION PLAN - 'C'**

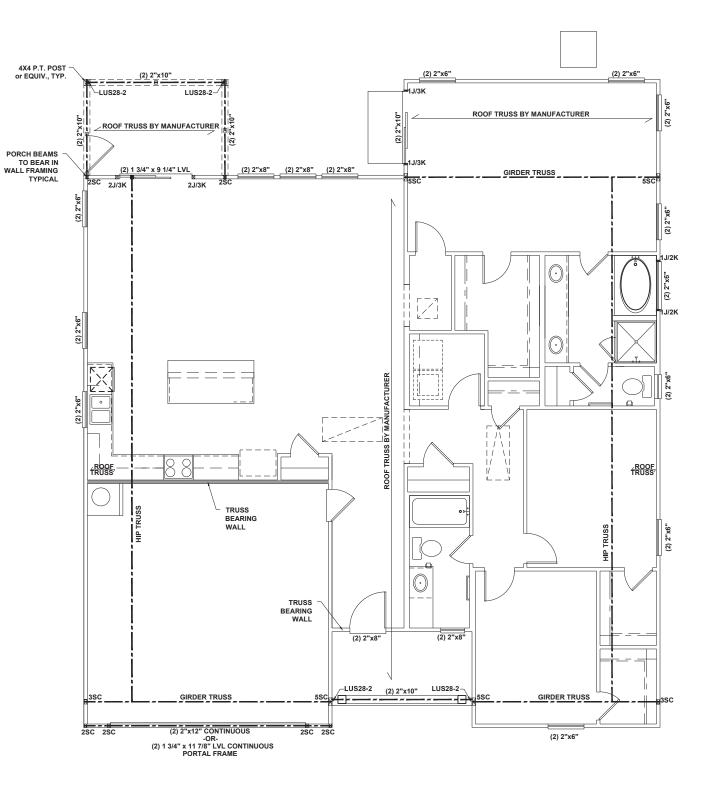
SCALE: 1/8"=1'-0"

## BEAM & POINT LOAD LEGEND

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

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





# **FIRST FLOOR CEILING FRAMING PLAN - 'C'**

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

#### BEAM & POINT LOAD LEGEND

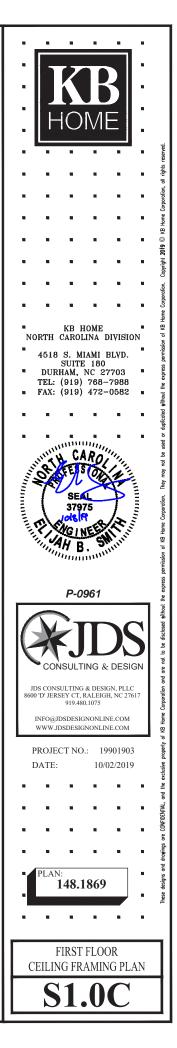
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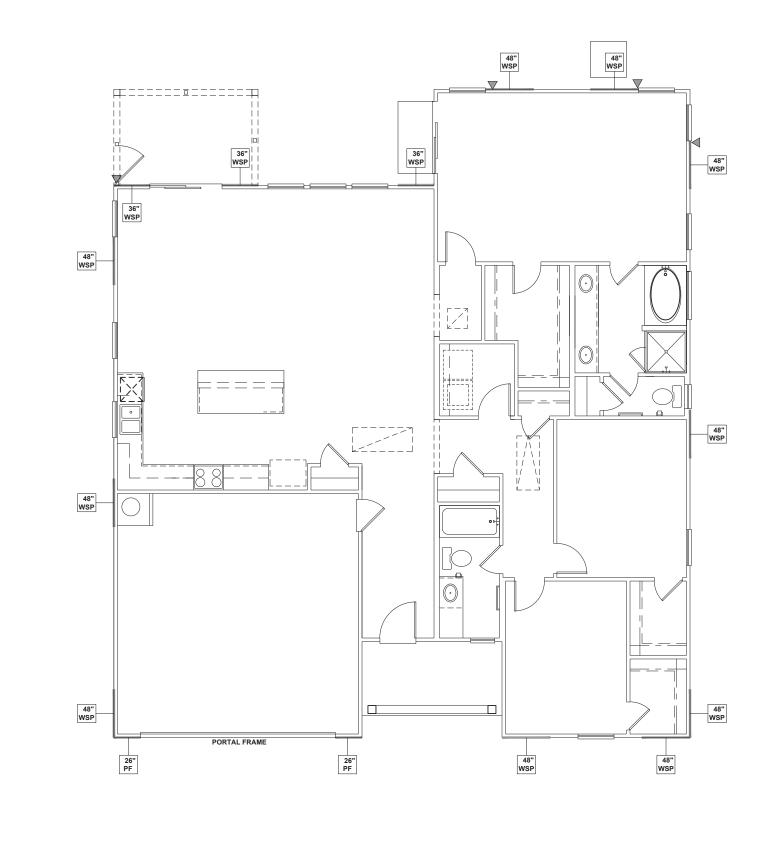
INTERIOR LOAD BEARING WALL ----- ROOF RAFTER / TRUSS SUPPORT DOUBLE RAFTER / DOUBLE JOIST STRUCTURAL BEAM / GIRDER WINDOW / DOOR HEADER POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

- ALL FRAMING TO BE #2 SPF MINIMUM
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTE w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (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.
- 0. PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED. ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

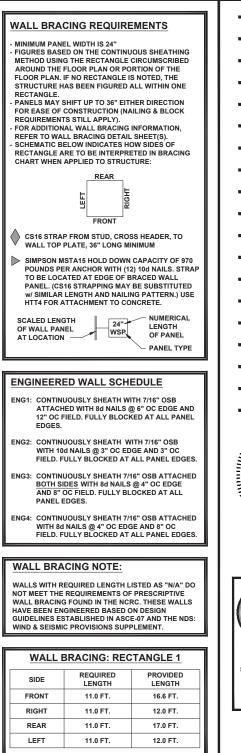
ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X\_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.



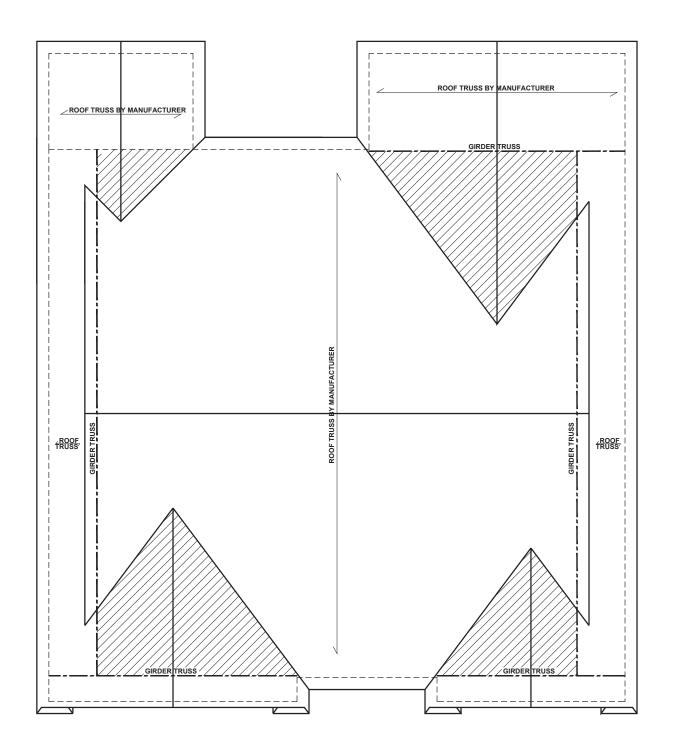


# FIRST FLOOR WALL BRACING PLAN - 'C'

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







# **ROOF FRAMING PLAN - 'C'**

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

BEAM & PO	DINT LOAD LEGEND	1	۰.			щ		•	
	IOR LOAD BEARING WALL		•	5	~			•	
	RAFTER / TRUSS SUPPORT LE RAFTER / DOUBLE JOIST		·			IK			
	CTURAL BEAM / GIRDER OW / DOOR HEADER								
	LOAD TRANSFER		. I	NH	O	VIE			
	LOAD FROM ABOVE ING ON BEAM / GIRDER		Į.					_	.bed.
L			•	•	•	•	•		hls reser
TRUSSED ROOF - STRU	JCTURAL NOTES		•	•	•	•	•	•	n, all rigi
	JOUS BLOCKING THROUGH ALL POINT LOADS.			:	:	:	:		ie Corporatio
2. DENOTES	OVER-FRAMED AREA								© KB Horr
3. MINIMUM 7/16" OS	B ROOF SHEATHING								ght <b>201</b> 9
MANUFACTURER	ND PLACEMENT BY TO COINCIDE WITH THE DNS SHOWN. TRUSS PROFILES D BY THE TRUSS		•	•	•	•	•	•	may not be used ar displicated kithout the express permission of KB Home Carparation. Capitright 2019 🕲 KB Home Carparation, all rights reserved
MANUFACTURER. COORDINATED WI	TRUSS PLANS TO BE TH THE SEALED STRUCTURAL LLATION SHALL BE IN			•			•		B Home Corj
	TH THE MANUFACTURER'S		NO		KB HO		vision	v	sion of K
5. MANUFACTURER T CONNECTION.	TO PROVIDE REQUIRED UPLIFT		•	5	UITE	AMI B 180 NC 27			ress permis
EACH TRUSS-TO-T OVER-FRAMED AR	INIMUM) OR EQUIVALENT AT OP PLATE CONNECTION AT EAS, UNLESS NOTED			rel: (	919)	768-7 472-0	988	•	fithout the exp
OTHERWISE. 7. UPLIFT CONNECTI TO FLOOR SYSTEI	ON TO BE CARRIED THROUGH		•	•	•	•	•	•	duplicated
	vi.		•		 		•	•	oe used or
	CTORS: EXPOSURE B, 115 MPH, AX ROOF TRUSS SPACING		ALL	5	FEIS		N.		y may not t
FOR UPLIFT RESISTAND SHEATHING BELOW PR RESISTANCE TO FOUN SUPPORTED BY INTERI	MEDIATE SUPPORT WALLS, IS SHALL BE ATTACHED TO				SEA 3797 GIN H B	5 EER SN	A Kin		ised without the express permission of KB Home Corporation. They
ROOF SPAN IS MEASUF FURTHEST SUPPORT P	RED HORIZONTALLY BETWEEN OINTS.			-4	min	mm			s permission
ROOF PLAN UP TO 28'	CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION		_		P-09	61		_	out the expres
OVER 28'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM		6	Y	Ì	Г	2		
OR	(1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE		K	CON	J.	NG & 1	DESIG	<b>)</b> N	are not to be
							N, PLLC NC 2761	7	orporation and
						NONLINE			f KB Home C
				ROJEC ATE:	T NO.:		01903 2/2019		these designs and draphings are COVFDENTML, and the exclusive property of KB Home Corporation and are not to be discr
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			•	PLAN:	48.1	869		•	Jesigns and c
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			R	ROOF	FRAM	AING	PLAN	[	1١

**S7.0C** 

