

#### About the Presenters

#### William McKinney

- Code Official for the City of Nashua, NH
- President of the NH Building Officials Association (NHBOA)
- Chair of the NHBOA- Legislative Affairs
- Chairman of ICC Region VI, Northeast Region Coalition (NERC)

#### About the Presenters

Philip R. Sherman, P.E.

- Consulting fire protection engineer and building code consultant
- Chair, NH Building Code Review Board



"OK, LET'S SEE YOUR BUILDING PERMIT"

# What We Really Do

The Department of Building Safety is responsible for:

- Keeping official records pertaining to permit applications, permits, fees collected, inspections, notices and orders issued.
- Maintaining valuable documentation as a resource if questions arise during and after the construction.
- Provide assistance to designers and builders by interpreting the code's application to a particular construction situation.

# What We Really Do

- Continuous education with evolving construction products and processes
- Keep up to date with laws and regulations
- Verify projects will comply with code before and during construction
- Issue permits for all aspects of construction
- Conduct Inspections
- Help to prevent or limit affects from events and disasters (Man made and Natural)

### Question 1

What information is required for a permit?
 Every community seems to require different information. Is there a standard list of what is required on plans?

#### DEPARTMENT STRUCTURE

- BUILDING OFFICIAL Manages Department, sets policy
- PLANS EXAMINER Plan, document review and code verification
- PERMIT TECHNICIANS Primary contact for department.
   Responsible for intake of applications, submittal documents, permit issuance payment processing
- INSPECTORS Responsible for compliance, investigations and issuance of corrective orders

# **Building Laws**

 The regulation of building construction is not a recent phenomenon. It can be traced through recorded history for over 4000 years.

 Babylonian King Hammurabi, in 2000 BC instituted a performance-type code which was based on the simple principle of "an eye for an eye",

# **Building Laws**

 Code 229: If a builder builds a house for a man and does not make its construction sound and the house which he has built collapses and causes the death of the owner of the house the builder shall be put to death.

• Code 230: If it kills the son of the owner the son of that builder shall be put to death.

### NH Laws, Codes & Ordinances

New Hampshire long ago adopted statutory means to address building safety.

- RSA 156 dates back to 1893 (repealed 1984)
- RSA 674:51 adopted in 1983
- RSA 155-A adopted in 2002

# NH State Statutes; RSA 155-A: NEW HAMPSHIRE BUILDING CODE

- Section: 155-A:1 Definitions.
- Section: 155-A:2 State Building Code.
- Section: 155-A:3 Local Amendments; Application.
- Section: 155-A:3-a Code Requirements; Biomass Burning Boilers.
- Section: 155-A:3-b Code Requirements; Log Structures.
- Section: 155-A:3-c Installation of Arc-Fault Circuit Interrupters (AFCI); Exception.
- Section: 155-A:4 Permit Required.
- Section: 155-A:5 Accessibility Standards for Public Buildings; Purpose and Intent.
- Section: 155-A:5-a Accessibility Standards for Public Buildings.
- Section: 155-A:5-b Accessibility Certifiers and Inspectors; Penalty.
- Section: 155-A:6 Repealed by 2012, 242:22, eff. June 18, 2012.
- Section: 155-A:7 Enforcement Authority.
- Section: 155-A:8 Penalty.
- Section: 155-A:9 Fees.
- Section: 155-A:10 State Building Code Review Board.
- Section: 155-A:10-a Energy Code Compliance Form.
- Section: 155-A:11 Appeals of Decisions of the State Fire Marshal.
- Section: 155-A:11-a Appeal of Decisions of the Electricians' Board and the Board of Home Inspectors.
- Section: 155-A:11-b Appeal of Decisions of Local Building Code Board of Appeals.
- Section: 155-A:12 Appeal From Board's Decision.
- Section: 155-A:13 Building Requirements for State Funded Buildings.

# NH Laws, Codes & Ordinances

#### **Chapter 155-A**

155-A:2 State Building Code - I. All buildings, building components, and structures constructed in New Hampshire shall comply with the state building code and state fire code. The construction, design, structure, maintenance, and use of all buildings or structures to be erected and the alteration, renovation, rehabilitation, repair, removal, or demolition of all buildings and structures previously erected shall be governed by the provisions of the state building code.

# Family of Codes

- International Building Code
- International Mechanical Code
- International Fuel Gas Code
- International Property Maintenance Code
- International Fire Code
- International Zoning Code
- International Plumbing Code
- International Existing Building Code
- International Private Sewage Disposal Code
- International Performance Code
- International Residential Code
- International Energy Conservation Code
- International Wildlife-Urban Interface Code
- International Swimming Pool and Spa Code



# **Building Code**

#### **101.2** Scope.

The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures.

# **Building Code**

#### 101.3 Intent.

The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, sanitation, adequate light and ventilation, energy conservation, and safety to life and property from fire and other hazards attributed to the built environment

# Authority

#### 104.1 General.

The building official is hereby authorized and directed to enforce the provisions of this code. The building official shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code.

#### **PERMITS**

- BUILDING
  - NEW BUILDINGS
  - ADDITIONS
  - ALTERATIONS / RENOVATIONS
  - TENT/CANOPY  $\geq$  400 Sq. Ft.
- ELECTRICAL
  - GREEN ENERGY (SOLAR, WIND, ETC)
- MECHANICAL
  - HVAC EQUIPMENT
  - GAS PIPING
- PLUMBING
- DEMOLITION

#### **PROCESS**

- Application and document submittal
- Site compliance review by Planning and Zoning
- Review of building plans by Building Safety, Fire Dept./Marshal and Health, Public Works as applicable
- Response to customer (approved, additional information, denied)
- Review of additional information
- Permit approval or denial



#### **R106.1 Submittal Documents**

 Submittal documents consisting of construction documents, and other data shall be submitted in two or more sets with each application for a permit. The construction documents shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

#### R106.1 Submittal Documents

 Exception: The building official is authorized to waive the submission of construction documents and other data not required to be prepared by a registered design professional if it is found that the nature of the work applied for is such that reviewing of construction documents is not necessary to obtain compliance with this code.

#### **R106.1.1 Information on Construction Documents**

Construction documents shall be drawn upon suitable material. Electronic media documents are permitted to be submitted where approved by the building official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the building official.

- Complete application any required information withheld is reason for delay of approval or denial
- Plot plan with project location & setbacks identified
- Plans Include foundation, structural frame and any building systems identified. MEP's often in separate submittal and permit applications.
- Any engineering or product specifications
- Any owner or association approvals



#### City of Nashua Building and Land Use Application Department of Building Safety 229 Main Street, PO Box 2019

Nashua, New Hampshire 03061-2019 Tel: 603.589.3080 • Fax: 603.589.3119

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Γ	OFFICE USE ONLY:	
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	Contractor	
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ı	Tel # Ce	#Email address
	Square foot area of construction or r Approximate Current Use: Proposed Use:	ost of construction including plumbing, electrical, mechanical, and fire suppression
	Single family/Townhouse 3+ Family (# of units )	☐ Two family ☐ Manufactured housing ☐ Restaurant/Night Club ☐ Industrial/Warehouse
	Lodging/Boarding/Assisted Livi	
	Office/Bank/Professional	School/Daycare
	Shed/Garage	Tent/Event
	Deck	Other
L		ome
Γ	Fire Protection Systems: Does this	building have Sprinkler system Fire alarm
l	•	
	Site services:   Public water	On-site well City sewer Sentic State Permit #

Continued on the next page

	Lead Hazard: Was the building built prior to 1978?				
[	Additional aspects of the project:				
	Yes No		Yes No		
<b>⇒</b>	Electrical	Fire Suppression/Detection Increase in Sewer Usage New Sewer Connection Sign(s)			
	For each yes box above a separate permit may be re	equired.			
	If your project involves <u>any</u> of the following contact Asbestos Food Service Sale of pre-packaged food	ct the Environmental Health Department a	t 603-589-4530.		
ſ	Consider and Millions				
	Special site conditions:  Is the property located within a Special Flood Hazard Zone? Yes No				
	If the structure is located within that flood hazard z of a building permit. Office use: Panel #		pleted prior to the issuance		
$\Rightarrow$	Is the proposed construction or landscaping located	within 125 feet of a wetland area? Ye	s No		
	If yes, denote wetland location on the plot plan.				
	Is the development within an area covered under th  No	e NH Comprehensive Shoreland Protection	n Act (RSA 483-B) Yes		
	Does the property contain hazardous waste				
	A PLOT PLAN DRAWN TO SCALE OR SITE PLAN IS REQUIRED FOR ALL APPLICATIONS EXCEPT INTERIOR RENOVATIONS.  The plan shall denote property boundaries, location of <u>all</u> existing buildings, structures, paved areas, wetlands, and proposed buildings, structures, and paving.				
	I hereby certify that I am the owner of record or authorized agent and we agree to conform to Hampshire. I hereby attest all statements made of my knowledge.	all applicable laws of the City of N	ashua in the State of New		
	Omission of any required information may delay permit issuance or constitute reason for denial.				
	Applicants are advised that the making	g of a false statement on this form	n is a criminal offense.		
<b>⇒</b>	Applicant's Signature	Print Name	Date		

# Sample House Plans

Thone: 123.456.784.

Émail: sample@sample.com

Fax: 123.456.7891

#### STANDARD ABBREVIATIONS

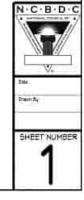
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SAMPLE

#### SHEET INDEX:

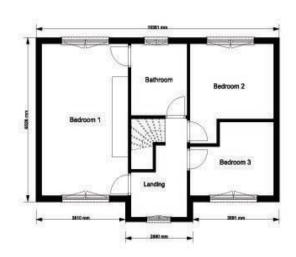
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- 8 LECTRICAL PLANS



# Plan Cover page or on single page

- Approved for Construction
- Name and address of project
- Property owner name & contact information
- Applicant name & contact
- Contractor & contact
- Design professional & contact
- Applicable codes
- Code summary



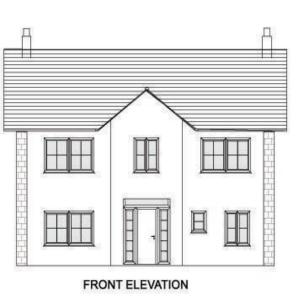


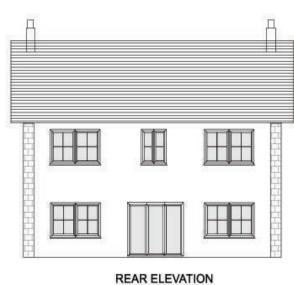


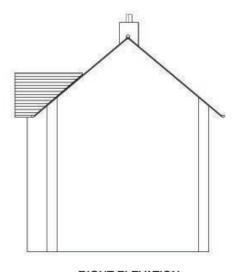
**GROUND FLOOR PLAN** 

FIRST FLOOR PLAN

LEFT ELEVATION







RIGHT ELEVATION

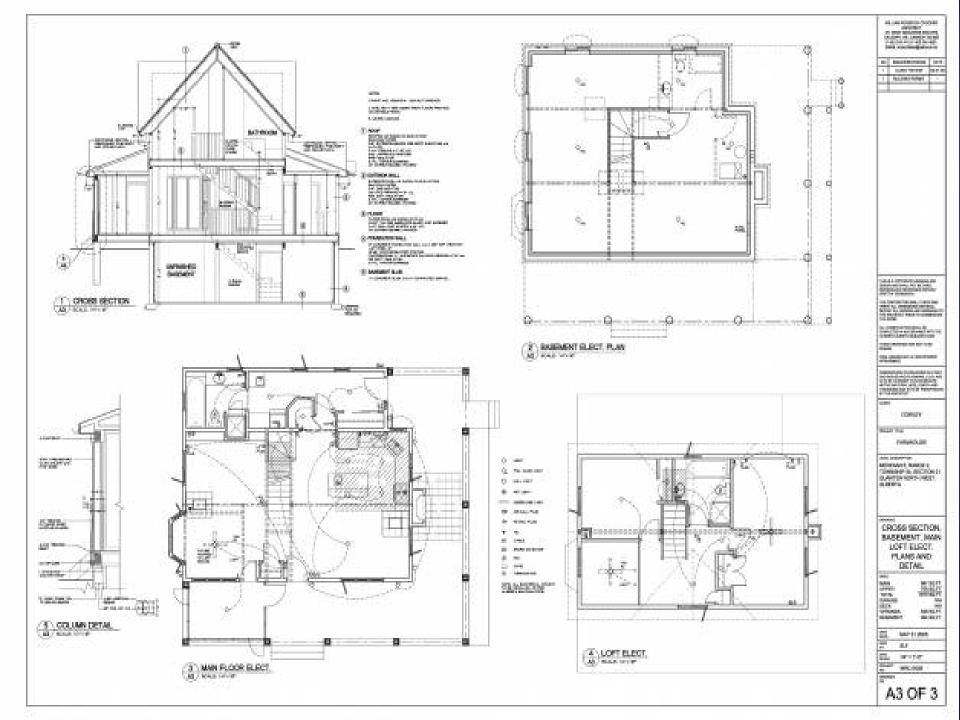
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Address: Tel: Email:

See separate sheet for details

Elecosoft

Scale 1:100



### Summary

- Length of time to obtain permits is dependent upon quantity and quality of information provided.
- The application is a legal document Be truthful with info.
- Phone calls and emails to provide more information lengthen review time.
- Don't be afraid to ask questions if you are unsure.

# **Questions?**

### Question 2

Is there a notification requirement for the code changes that come each January? Each trade (plumbing, gas, electrical) get's notified, but the builder/general contractor is not notified. This causes issues in the field when they are learning about these changes on the fly. What is the process?

#### **Building Code Review Board**

- 16 representative members and chair
- Administratively attached to State Fire Marshal
- Review and propose updates and changes to State Building Code
- Review, confirm and post municipal amendments
- Hear appeals from local boards of appeal, State Fire Marshal, Electrician's Board and Board of Home Inspectors

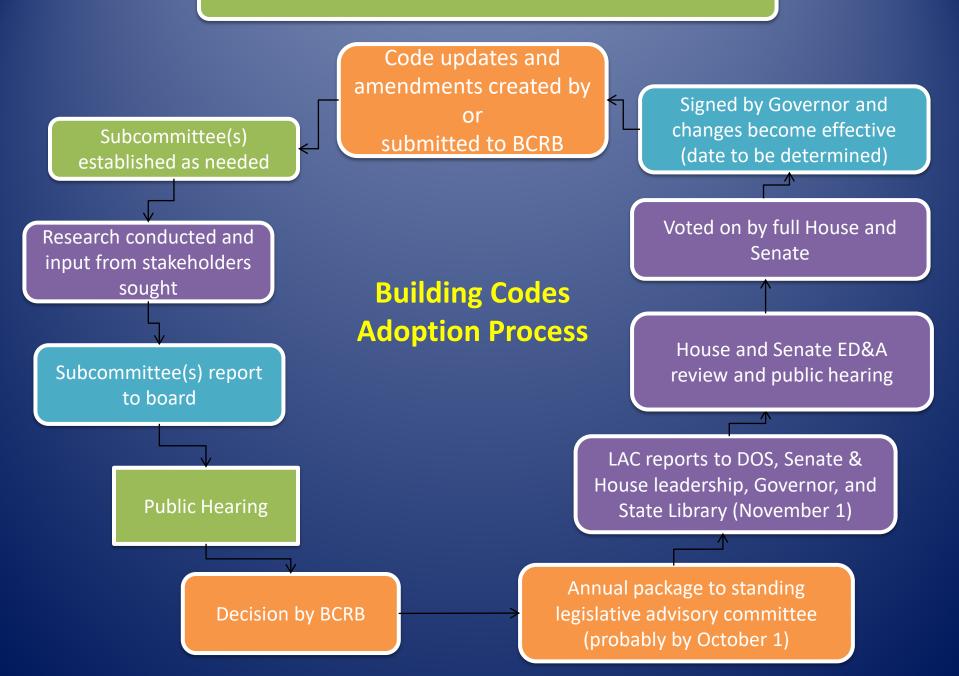
### NH Laws, Codes & Ordinances

#### Multitude of State Laws, Codes and City Ordinances

- RSA 155-A State Building Code:
  - Building Code
  - Existing Building Code
  - Plumbing Code
  - Mechanical Code
  - Energy Conservation Code
  - Swimming Pool and Spa Code
  - Residential Code
  - Electrical Code
- NH State Fire Code, includes:
  - NFPA 1 Fire Code
  - NFPA 101 Life Safety Code



State of New Hampshire – Amended process SB 398



### **Road Conditions**

- NHMA and NHBOA input
- Industry faction input
- Two year delay on model code adoption
- Duration of ratification process
- Grace period and notification process
- Energy codes
- Local amendments

# Current Local Amendment Process RSA 674:51 and 155-A:3

- Must adopt enforcement mechanism
- Must be "not less stringent" than the State Building Code
- Must not prohibit enforcement of State Building Code
- Must adopt by ordinance or appropriate regulatory adoption process

# Upcoming Local Amendment Process RSA 155-A:3 (SB 443)

Effective January 1, 2023

- Limits on amending have not changed.
- Submit proposed amendments to BCRB for review and confirmation prior to adoption.
- May submit for an advisory opinion at anytime.
- Cities submit final proposed amendment no later than 90 days before final adoption.
- Towns submit the final proposed amendment no later than 10 days after the conclusion of the final public hearing.

(Continued)

# Upcoming Local Amendment Process RSA 155-A:3 (SB 443)

- Municipal submissions to include the final text for each amendment.
- BCRB to review and confirm within 90 days of submission for cities, and 45 days for towns.
- Failure of the board to act within these timeframes shall constitute a confirmation of the municipal amendment.
- The board's review shall be limited to a confirmation that the local amendment does not establish requirements conflicting with, or less stringent than, the requirements of the state building code, and to verify with the state fire marshal that there is no conflict with the fire code.
- Once an amendment is approved by the legislative body, the municipality shall submit documentation to the building code review board within 30 days that the public hearing was properly noticed and held, and that the provision was adopted by the local legislative body
- BCRB posts amendment on BCRB website

# Road conditions

- Definition of an amendment
  - Local control by statute
  - Zoning regulations
- Offline regulations
- Out of date amendments
- BCRB staff support
- January 1<sup>st</sup> effective, no grace period

# **Training**

Affordable code update training is provided throughout NH and the New England region.

#### Monthly:

- New Hampshire Building Officials Association (NHBOA) <a href="https://www.nhboa.net">www.nhboa.net</a>
- NH Seacoast Building Officials Association
- NH Fire Prevention Society

#### **Annually:**

- Eastern States Building Officials Federation (April)
- New England Building Officials Education Association (October)

# **Questions?**

# **Question 3**

 What is the protocol for inspections? Is there a state standard for what and when inspections are to be completed? Contractors face a lot of trouble with each town having a different protocol and "rules" for inspection. In some towns there are so many different inspections for each phase it holds up production.

110.1General. Construction or work for which a permit is required shall be subject to inspection by the building official and such construction or work shall remain visible and able to be accessed for inspection purposes until approved. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Inspections presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid. It shall be the duty of the owner or the owner's authorized agent to cause the work to remain visible and able to be accessed for inspection purposes. Neither the building official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.

#### 110.3 Required inspections.

The *building official*, upon notification, shall make the inspections set forth in <u>Sections</u> 110.3.1 through 110.3.11.

#### R109.1 Types of inspections.

For on-site construction, from time to time the building official, upon notification from the permit holder or his agent, shall make or cause to be made any necessary inspections and shall either approve that portion of the construction as completed or shall notify the permit holder or his or her agent wherein the same fails to comply with this code.

- FOOTING & FOUNDATION
- ROUGH INSPECTIONS
  - ELECTRICAL
  - MECHANICAL
  - PLUMBING
- FRAME
  - FIRE/DRAFT STOPPING
- INSULATION/ENERGY
- FINAL INSPECTIONS
  - BUILDING
  - ELECTRICAL
  - MECHANICAL
  - PLUMBING
  - SITE



OTHER – Fire rated, Special Inspections

# 110.6 and R109.4 Approval required.

Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the building official. The building official, upon notification, shall make the requested inspections and shall either indicate the portion of the construction that is satisfactory as completed, or shall notify the permit holder or an agent of the permit holder wherein the same fails to comply with this code. Any portions that do not comply shall be corrected and such portion shall not be covered or concealed until authorized by the building official.

## LIMITATIONS FOR CODE OFFICIALS

- Permit must be applied for
- New Buildings, Additions, Alterations or Renovations
- New or replacement of mechanical equipment
- New or alterations of plumbing systems or electrical systems
- Violations of any building construction code adopted by NH or community ordinance

# Final Questions?

### **Contact Information**

William McKinney, President

New Hampshire Building Officials Association

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Philip Sherman, Chair

New Hampshire Building Code Review Board

(603) 223-4315

bldgcodebrd@das.nh.gov