

MERRIMACK FIRE DEPARTMENT

432 Daniel Webster Highway Merrimack New Hampshire 03054 603-420-1730 **Building Official**Richard C. Jones

Building Inspector Peter Manzelli II

IRC

BUILDING DIVISION

BUILDING INSPECTION CHECK-OFF RESIDENTIAL

This is a typical sample list of what will be observed and inspected, during a typical field inspection of a residential construction project for minimum code compliance.

FOUNDATION CODE REFERENCE:

□ FOOTINGS - PROPER DEPTH OF 42" BELOW FROST LINE R403.1.4 □ MONOLITHIC SLAB - PROPER DESIGN FOR FROST PROTECTION R403.3 Table 403.3(1) □ SOILS – PROPER LOAD BEARING (min 2,500 psf) TABLE R401.4.1 □ MINIMUM WIDTH OF FTG (2 x wall) **TABLE R403.1** REINFORCING WALLS TABLE R404.1.2 □ FOOTIG DRAINS R403.3.3 □ FOUNDATION WALL – ANCHOR BOLTS PROPERLY SPACED R403.1.6 □ BULKHEAD – SECOND MEANS OF EGRESS R310.3 ■ NATURAL VENTILATION/ LIGHTING R303.1 □ DAMPROOFING / DRAINAGE R403.3.3 □ INTERIOR FOOTINGS R1805.2 □ CRAWL SPACE – VENTILATION (When required) R408.1

ROUGH'S

FRAME

STUD GRADE # 2 OR BETTER	R602.1
BEARING WALLS – PROPER LOAD DISTRIBUTION	R602.3
POINT LOADS	R602.4
FLOOR JOISTS – PROPER SPAN LENGTH	TABLE R502.3.1(1)
GIRDERS	TABLE R502.5(1)
BEAMS	TABLE R502.5(2)
HEADERS	R602.7
CEILING JOISTS	TABLE R802.4(1)
STAIR STRINGERS	R502.10
HEADROOM	R305.1
TREADS & RISERS	R311.7.4
EGRESS WINDOWS $-5.7 \text{ sf/2}^{\text{nd}} - 5.0 \text{ sf/1}^{\text{st}}$ (821 si)	R310
BLOCKING – GAURDS & RAILS	R311.7.7
ROOF RAFTERS – COLLAR TIES	R802.2
NAILING/ FASTENERS	TABLE 602.3(1)
DRILLING & NOTCHINGS	FIG. R502.8
FIREBLOCKING/ FIRESTOPS	R302.4.1.2
DRAFT STOPPING	R302.12
ROOF & WALL SHEATHING	R602
ROOF VENTILATION/ RIDGE VENTS	R905
ROOF PENATRATIONS	R903.2

INSULATION IECC □ WALLS - R-21

□ CEILINGS (FLAT) - R-38

□ CEILINGS (CATHEDRAL) - R-30

□ FLOORS - UNHEATED BELOW - R-19

□ WALLS - BASEMENT/ UNHEATED ROOM - R-13

□ DUCTS & HW PIPING - R-6

EL	ECTRICAL			<u>NFPA-70</u>
	WIRING METHODS ELECTRICAL CONNECTIONS KITCHEN APPLIANCE CIRCUIT – MIN (2) – 20A LAUNDRY APPLIANCE CIRCUIT – MIN (1) – 20A BATHROOM CIRCUIT – 20A ARC- FAULT BRANCH CIRCUITS GFCI PROTECTION ISLAND OR PENNINCILA - 20A	NEC-70 2017		110.8 110.14 210.11(C)(1) 210.11(C)(2) 210.11(C)(3) 210.12 210.8(A) 210.8(A)(6)
	DWELLING UNIT RECEPTICLES WR/TP DAMP LOCATIONS			210.52 406.6 & 406.11 406.8 & 406.11
	CARBON MONOXIDE DETECTORS SMOKE DETECTORS — CONDUCTOR SPACE IN WORK BOXES RECEPTICLE SPACING — 6'-0" & 12'-0" @ WALLS 3 WAY SWITCH STAIR LIGHTING CABLE SUPPORTS/ STAPLES MOUNTING SCREWS/ NAILS STEEL PLATES < 1 1/4 " FIXTURE LOCATIONS LUMINAIR LOCATIONS CLOSET SPACE RATED CEILING FAN BOXES CEILING — SUSPENDED (Paddle Fan) I.C. RATING FOR CEILING FIXTURES		IRC IRC	R315.2 R314.2 314.16 210.52(2) 210.70(A)(1) 300.11 314.23 300.4 210.50 410.10 410.2 314.27(D) 422.18 & 410.23 410.116(2)
	CLOTHES DRYERS #10-3 AWG			220.54
-	DOEDICAL CEDIMOE			NIEDA 50

ELECTRICAL SERVICE

NFPA-70

	PSNH WORK ORDER #	
	SERVICE ENTRANCE – Overhead clearances	230.24
	SERVICE DROP - MAST – (When PSNH requires)	230.24(B)
	GROUNDING ELECTRODES - @ FTGS/ FND Rebar	250.50 & 250.52
	□ COMMON BONDING – Bldg Steel/ Separate Derived Systems	250.30(A)
	SECONDARY GROUNDING – 2 - 8'-0" ½" rod @ 6'-0" / #6 AWG	250.53(G)
	SERVICE LATERAL - SIZE & RATING	230.31
	□ MINIMUM CONDUCTOR SIZE	230.31(8)
	□ SERVICE ENTRANCE CONDUCTORS	230.202(A)
	DISCONNECTING MEANS	230.70
	AVAILABLE FAULT CURRENT – FUSES	230.90
	EXPANSION FITTING @ RISER	352.44
	MINIMUM FROST PROTECTION	TABLE 300.5
	DIRECT BURIAL	300.6(3)
	□ SPLICING	300.5(E)
	PROTECTION FROM DAMAGE	300.5(D)
\mathbf{M}	AIN SERVICE PANEL	<u>NFPA 70</u>

	LOCATION – WORKING SPACE CLEARANCES – 30" MIN @ 36" IN FRONT BONDING – H20 & GAS PIPING SUB PANELS – ISOLATE NEUTRAL 4 WIRE PROPER LIGHING @ PANEL LABELING OF CURCUITS AVAILABLE GUTTER SPACE PROPER TERMINATION GROUNDED CONDUCTORS LISTED BREAKERS/ RATED DISCONNECT	110.26 110.26(A)1 & 2 250.104(B) 110.26(D) 408.4 312.11 200.3 225.39
PL	<u>UMBING</u>	<u>IPC</u>
	MAIN STACK VENT WET VENTING FIXTURE VENTS COMBINATION DRAIN & VENT SYSTEM DEVELOPED LENGTH	910.3 909.1 TABLE 906.1 TABLE 912.3 TABLE 916.1
	HANGERS RISER CLAMPS	TABLE 308.5 TABLE 308.5
	STEEL PLATES < 1 ¼ "	305.8
	FIXTURE UNITS / TRAPS	TABLE 709.1
	LENGTH OF TRAP TO VENT	TABLE 906.1
	WET VENTING	909.1
	□ WET VENT SIZE	TABLE 909.3
	SANITARY DRAINAGE – MATEREIAL	702
	□ ABOVE GRADE	TABLE 702.1
	UNDERGROUND	TABLE 702.2
	SEWER	TABLE 702.3
	□ FITTINGS	TABLE 702.4
	ISLAND VENTING	913
	AIR ADMITTENCE VENT – (Where applicable)	917.1
	CLEANOUTS – Min 18"	708.8 708.3.4
	□ BASE STACK – Accessible INDIRECT WASTE	802.1
	WATER SUPPLY & DISTRIBUTION	604.1
_	□ POTABLE WATER	602.2
	□ HOT WATER – MAX 130* NH Amendment	501.6
	□ WATER PIPE & SEWER SEPERATION – 5'-0"	603.2
	DESIGN - FLOW RATE & PRESSURE	TABLE 604.3
	□ MAX - FIXTURE FITTINGS	TABLE 604.4
	□ PIPE – MIN SIZE	TABLE 604.5
	MANIFOLD SIZES	TABLE 604.10
	MATERIAL – STANDARDS	TABLE 605.3
	BUILDING WATER SUPPLY – Full Open valve	606.1.
	SHUT OFF VALVES	606.2
	BACKFLOW PROTECTION	608.13
	□ Backflow Preventers – Devise Applications	TABLE 608.1
	LOCATION – Protection from freezing GROSS GONNEGTION GONTPLOYS	608.14
_	CROSS-CONNECTION CONTROLS FOLIDMENT CRAIN SUBMERSIBLE WELL BUMP/ CASING	608.16
	EQUIPMENT GRND – SUBMERSIBLE WELL PUMP/ CASING SILL COCK – Hose Connected outlets	NEC 250.112(M)
	ANTI-SYPHON VALVE/ BACKFLOW	424.6 608.15.4.2
	SYSTEM TESTING – WATER OR AIR	107.2
_	TOTAL TESTING WITH CRIM	101.2

<u>IMC</u>

HVAC SYSTEMS

	GENERAL REQUIREMENTS		
	□ APPLIANCES – (UL LISTED& APPR	OVED)	301.4
	MANUFACTURES SPECS		301.6
	□ APPROVED USE FOR APPLIANCE		301.5.1
	PROPER INSTALATION		304.1
	□ CLEARENCES REDUCTION METHO	ODS	TABLE 308.6
	□ CONFLICTS		304.2
	□ ACCESS – ATTIC UNITS		306.3
	□ VENTALATION		403
	□ EXHAUST SYSTEMS		502
_	□ COMMERCIAL KITCHEN HOODS		507.2
	HEATING SYSTEMS – Warm Air		602
	DUCT WORK		603
	□ INSULATION		604.3
	PLENUMSDAMPERS - Installations		602 607.2
	□ DAMPERS - Installations□ FIRE/ SMOKE DAMPERS		607.3
	☐ FIRE PARTITIONS/ Penetrations		607.5.3
	□ COMBUSTION AIR		701
	AIR CONDITIONING UNIT		701
_	□ LABEL IDENTIFICATION		301.6
	□ ACCESS/ CLEARANCES		306.1
	□ REFRIGERANT LINES		1107.2
	□ MATERIAL TYPES		1107.5
	□ CONDENSATION		1107.4
			,,,,
H	EATING SYSTEMS		
	HYDRONIC SYTEMS		T. D. T. 1000 1
	PIPING MATERIALS		TABLE 1202.4
	PIPING MATERIALSINSTALLATION		1206
	PIPING MATERIALSINSTALLATIONEXPANSION TANK		1206 1025.1.6
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES 		1206 1025.1.6 1006
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING 	Manufactura's Specifications	1206 1025.1.6 1006 801.2
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR 	Manufacture's Specifications	1206 1025.1.6 1006
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD 	Manufacture's Specifications Town of Merrimack Ordinance	1206 1025.1.6 1006 801.2 701.0
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION 		1206 1025.1.6 1006 801.2
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH 		1206 1025.1.6 1006 801.2 701.0
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION 		1206 1025.1.6 1006 801.2 701.0
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH 		1206 1025.1.6 1006 801.2 701.0
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING		1206 1025.1.6 1006 801.2 701.0 1305.2
	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u>	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u> 4	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u> .	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING PIPE SIZING		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u> #	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING PIPE SIZING LISTED MATERIALS		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u> A	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING PIPE SIZING LISTED MATERIALS HANGERS		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u>	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING PIPE SIZING LISTED MATERIALS HANGERS DRIP LOOP		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u>	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING PIPE SIZING LISTED MATERIALS HANGERS DRIP LOOP IN-WALL PROTECTION		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u> #	□ PIPING MATERIALS □ INSTALLATION □ EXPANSION TANK □ PRESSURE RELIEF VALVES □ VENTING □ CUMBUSTION AIR □ SPRINKLER HEAD □ FUEL LINE PROTECTION □ EMERGENCY SWITCH □ VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING PIPE SIZING LISTED MATERIALS HANGERS DRIP LOOP IN-WALL PROTECTION SHUT OFF VALVES		1206 1025.1.6 1006 801.2 701.0 1305.2
<u>G</u>	 PIPING MATERIALS INSTALLATION EXPANSION TANK PRESSURE RELIEF VALVES VENTING CUMBUSTION AIR SPRINKLER HEAD FUEL LINE PROTECTION EMERGENCY SWITCH VENT CONNECTION AS PIPING ENTRANCE LOCATION REGULATOR VENTING PIPE SIZING LISTED MATERIALS HANGERS DRIP LOOP IN-WALL PROTECTION		1206 1025.1.6 1006 801.2 701.0 1305.2

<u>IRC</u>

CHIMNEY

- MASONRY
 - □ 8" SOLID WALLS
 - □ FIRE BRICK
 - □ SMOKE CHAMBER PARGED
 - □ CLEARANCES TO COMBUSTABLES
 - □ FLUE SEPERATION WALL
 - □ FRESH AIR SUPPLY EXTERNAL
 - □ Combustible Air
 - □ DAMPER
 - □ CLEAN OUTS
 - ROOF CLEARANCES
 - □ HEARTH EXTENSIONS
 - □ MANTLE Combustible Clearances
- □ MANUFACTURED
 - □ UL LISTED & APPROVED
 - MAUNFACTURES SPECIFICATIONS
 - □ VENT TERMINATION
 - □ HORIZONTAL Direct Vent
 - □ VERTICLE Roof Penetration
 - □ VENT PIPE LABEL
 - □ FIRESTOPS
 - □ CLEARANCES
 - □ DAMPER
- □ LP GAS INSERT
 - □ SHUT OFF VALVE
 - □ BLACK IRON PIPE
 - VENTILATION



FINAL INSPECTION CHECK LIST

TOWN OF MERRIMACK NEW HAMPSHIRE



ADDRESS	MAP/ LOT	DATE
☐ House # posted at driveway ar	nd on house (min 4") contrast colo	ors
	riser height 7 ¾" min tread 10" ' height with 4" space max balusi	ters
☐ Kitchen & bathroom floors fini	shed with cleanable surface	
·	ertop appliance circuits, includes i	island
☐ Microwave circuit "GFCI" prot	:ected	
☐ Dishwasher "GFCI" protected -	 cord and plug connection under 	r sink
☐ Bathroom outlets "GFCI" prote	ected	
☐ Hot Water – Temperature at s	ink faucets – 120* F max	
All AFCI circuit breakers to	o be "AFCI" protected – check par be tested – * To test - press tes tely then switch breaker on	nel CB st button on breaker (circuit should trip)
☐ An Egress windows in each be	droom – Min 5.7 sf operable wind sf) - bedrooms below grade requ	dow iire egress to grade level with (44") max
☐ All habitable rooms to have a s	switched outlet or light fixture	
☐ At least (1) 3 - way switch at ea	ach stairway – top and bottom of	stair
☐ All outlets in garage to "GFCI"	protected including overhead doo	or – Min (1) outlet per garage bay
 Gas furnace, HW heater and b sprinkler head 	oiler – installed to manufacturer's	s instructions - all require ½ sheetrock or
 Smoke detector in each bedro interconnected 	oms, CO/ smoke detectors on eac	ch level – hard wired – battery backup and
☐ All circuits in electrical panels	are to labeled and identified	
☐ Hydro massage / Hot Tubs – "G	GFCI" protected – disconnect in si	ite
☐ A/C condensers Disconnect at	unit and service outlet within 25'	
☐ Pools – In ground require 4'-0'	" fence enclosure & AG – 48" barr	rier
Inspector		_ Approved Yes No



TOWN OF MERRIMACK

Certificate of Occupancy/
Certificate of Unit Completion
Check List
BLD - FRM - 014



Property Owner:			Phon	e:	
Job Location:			Tax Ma	p/ Lot:	
Applicant:			_Phone:		
Address:	C	ity:		State: Zi	p:
completion of th	Occupancy (CO) or Certife following check list and rtifying that the property	signatures,	of the applica	able Town of Me	rrimack
	<u>Authorize</u>	d Departn	nent Signat		_
Town Departments	s (Call to schedule appoints	ments)	Date approve	Signature of d Authorizing Po	
Sanitary/ Sewer	Waste Water 36 Mast Road	883-8196		a mumonemig r	
Water Department Village District	Merrimack Village District 2 Greens Pond Road	424-7171			
PWD Highway Division	Merrimack Public Works 76 Turkey Hill Road	423-8551			
Planning & Zoning	Community Development 6 Baboosic Lake Road	424-3531			
Fire Department	Fire Sprinkler/Alarms	424-3690			
Building Division	Building Department Health Department	420-1730 420-1730			
	432 Daniel Webster Highwa	у			
Prior to the town grantir solely responsible for obt completed form to the Bu	g a Certificate of Occupancy or Certif aining all applicable signatures and fu uilding Department.	icate of Unit Con Ifilling all conditi	npletion, the Applica ons of approvals, pe	nnt, General Contractor a ertaining to the property,	and or Property Owner is and to submit this
Occupancy and Unit Certificate Conditions:					
 The construction has met all adopted State of New Hampshire Building Codes and local regulations. Certificate of Unit Completion must receive final inspection, from the Fire Marshal prior to opening to the general public. All food service licensed uses require Final inspection from the Health Officer. Development Conditions of Approval, Subdivisions, Planning and Zoning. It is the responsibility of the Owner to collect and obtain <u>ALL Approvals and Signatures listed above</u>: 					
	with the provisions of the applica that the information on this form				
Applicant/ Owner			Date		



RESIDENTIAL CERTIFICATE OF OCCUPANCY INSPECTION REPORT



had a section of the						
Inspection Date: Time		Time:	Cor	Contact:		
Re-Inspection	Re-Inspection Date: Time: Contact:					
Street Address:			Construction Type	New Existing		
Owners Nam	e:		Site Phone	•		
	RESIDENTIAL (CERTIFICATE OF OCC	UPANCY CHI	ECK LIST		
Check Box if Complete						
1	House Number attac	ched to the structure minimum	of 4 inches high in a contra	asting color to the background. (NFPA 1 3-7.1)		
2		for all oil fired furnaces and				
Emergency Shut-off for gas, external to the building in an easily accessible area. Smoke Detectors and/or CO Detectors (110 Volts AC, Battery Back-up and Interce (NH State Fire Code, 1999ed. Sec. 6018.03)						
						5
6	Basement (Smoke D	Present and Te	sted)			
7	First Floor (Smoke D	etector(s) / CO Detectors are	Present and Te	sted)		
8	Second Floor (Smok	ke Detector(s) / CO Detectors	are Present and	i Tested)		
9	Each Bedroom (Sm	oke Detectors /CO detectors		Tested) room 4 Bedroom 5		
	- L_1					
10	Ceiling Protection of	over Furnaces, Boilers ar	nd Solid Fuel I	Burning Equipment		
	than ½" drywall extende said fireproofed ceiling a upright sprinkler head d	ed three feet beyond the unit, area shall be so fireproofed.	and any combus All joints shall be I may be piped of	shall be fireproofed with no less stible wall within the perimeter of e sealed." Alternative: A 175° ff the domestic water system. If tection.		
	ny questions, concern the Fire Prevention B	s or comments with the i ureau.	inspection ple	ase list them below and		
Comments:						
nspection Perfor	med By:		ID#	Shift:		
and the same of th			ID#	Shift:		