

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

□ WALLS - R-21

WALLS - K-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			110.8
	ELECTRICAL CONNECTIONS			110.14
	KITCHEN APPLIANCE CIRCUIT – MIN (2) – 20A			210.11(C)(1)
	LAUNDRY APPLIANCE CIRCUIT – MIN (1) – 20A			210.11(C)(2)
	BATHROOM CIRCUIT – 20A			210.11(C)(3)
	ARC- FAULT BRANCH CIRCUITS	NEC-70 2017		210.12
	GFCI PROTECTION			210.8(A)
	□ ISLAND OR PENNINCILA - 20A			210.8(A)(6)
	DWELLING UNIT RECEPTICLES			210.52
	□ WR/TP DAMP LOCATIONS			406.6 & 406.11
	□ WP/TP WET LOCATIONS			406.8 & 406.11
	CARBON MONOXIDE DETECTORS		IRC	R315.2
	SMOKE DETECTORS –		IRC	R314.2
	CONDUCTOR SPACE IN WORK BOXES			314.16
	RECEPTICLE SPACING – 6'-0" & 12'-0" @ WALLS			210.52(2)
	3 WAY SWITCH STAIR LIGHTING			210.70(A)(1)
	CABLE SUPPORTS/ STAPLES			300.11
	MOUNTING SCREWS/ NAILS			314.23
	STEEL PLATES < 1 1/4 "			300.4
	FIXTURE LOCATIONS			210.50
	LUMINAIR LOCATIONS			410.10
	CLOSET SPACE			410.2
	RATED CEILING FAN BOXES			314.27(D)
	□ CEILING – SUSPENDED (Paddle Fan)			422.18 & 410.23
	I.C. RATING FOR CEILING FIXTURES			410.116(2)
	CLOTHES DRYERS #10-3 AWG			220.54
<u>EI</u>	LECTRICAL SERVICE			<u>NFPA-70</u>
	PSNH WORK ORDER #			
	CERTIFICE EXPERIMENTAL CO. 1. 1.1			220 24

□ 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)

NFPA 70

MAIN SERVICE PANEL

	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 PLEED CLAMPS	TABLE 308.5
	RISER CLAMPS STEEL PLATES < 1 1/4 "	TABLE 308.5 305.8
	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
	□ BASE STACK – Accessible	708.3.4
	INDIRECT WASTE	802.1
	WATER SUPPLY & DISTRIBUTION	604
	□ 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 MATERIAL – STANDARDS	TABLE 604.10 TABLE 605.3
		606.1.
	BUILDING WATER SUPPLY – Full Open valve SHUT OFF VALVES	606.2
	BACKFLOW PROTECTION	608.13
_	□ Backflow Preventers – Devise Applications	TABLE 608.1
	□ LOCATION – Protection from freezing	608.14
	□ CROSS-CONNECTION CONTROLS	608.16
	EQUIPMENT GRND – SUBMERSIBLE WELL PUMP/ CASING	NEC 250.112(M)
	SILL COCK – Hose Connected outlets	424.6
	ANTI-SYPHON VALVE/ BACKFLOW	608.15.4.2
	SYSTEM TESTING – WATER OR AIR	107.2

	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 		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> 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 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		
 □ Deck, Landings & Stairs - Max riser height 7 ¾" min tread 10" □ Handrails & guardrails min 36" height with 4" space max balusters 				
☐ 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 	rsink		
☐ Bathroom outlets "GFCI" prote	ected			
☐ Hot Water – Temperature at si	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 bed	droom – Min 5.7 sf operable wind sf) - bedrooms below grade requ	dow lire 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 be sprinkler head 	oiler – installed to manufacturer's	s instructions - all require ½ sheetrock or		
 Smoke detector in each bedroe interconnected 	oms, CO/ smoke detectors on eac	ch level – hard wired – battery backup and		
☐ All circuits in electrical panels a	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:				p/ Lot:	
			_Phone:		
Address:	C	ity:		State: Zi	ip:
completion of th	Occupancy (CO) or Certife following check list and rtifying that the property	signatures,	of the applica	able Town of Me	rrimack
	Authorize	d Departr	nent Signat		
Town Donortmonto	(Call to schodule annoint	m anta)	Doto opprove	Signature o d Authorizing P	
Sanitary/ Sewer	Waste Water 36 Mast Road	883-8196	Date approve	d Authorizing F	
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	ıy			
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	ppletion, the Applica ons of approvals, pe	nnt, General Contractor ertaining to the property,	and or Property Owner is , and to submit this
Occupancy and Ur	nit Certificate Conditions:				
2. Certificate of the general	of Unit Completion must receipublic. All food service licens	ive final inspo sed uses requi	ection, from the re Final inspect	Fire Marshal prior tion from the Healt	to opening to
	nt Conditions of Approval, Su consibility of the Owner to co				listed above:
	with the provisions of the applica that the information on this form				
Applicant/ Owner			Date		



RESIDENTIAL CERTIFICATE OF OCCUPANCY INSPECTION REPORT



REAL SECTION OF THE S						
Inspection Date: Til		Time:	Cor	Contact:		
Re-Inspection	n Date:	Time:		Contact:		
Street Address:			Construction Type	New Existing		
Owners Name	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	isting color to the background. (NFPA 1 3-7.1)		
2		for all oil fired furnaces an				
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 Interc (NH State Fire Code, 1999ed. Sec. 6018.03)						
						5
6 Basement (Smoke Detector(s) / CO Detectors are Present and Tested)						
7	First Floor (Smoke D	etector(s) / CO Detectors are	Present and Tes	sted)		
8	Second Floor (Smok	ke Detector(s) / CO Detectors	are Present and	l Tested)		
9	Each Bedroom (Sme	oke Detectors /CO detectors		Tested) oom 4 Bedroom 5		
10	Ceiling Protection o	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 tible wall within the perimeter of sealed." Alternative: A 175° If the domestic water system. If tection.		
	y questions, concernation But the Fire Prevention But the But the Prevention But the Prevention But the	s or comments with the lureau.	inspection ple	ase list them below and		
Comments:						
nspection Perform	med By:		ID#	Shift:		
Re-Inspection Per	e-Inspection Performed By:			Shift:		