

ADDRESS: _____

MECHANICAL INSPECTION

DATE: _____

EQUIPMENT AND ACCESS:

- 1.1 ___ appliance in attic (20"x30" access/30"h x 22"w passage max. 20'/24" floor/30" x 30" front) M306.3
- 1.2 ___ appliance in crawl space(22" h x 30"w access/22"h x 36"w passage max. 20'/30"x30" front) M306.4
- 1.3 ___ depth of passageway or service space >12" – line w/concrete or masonry to 4" above adjoining grade M306.4
- 1.4 ___ appliance in pit or excavation (12" clr from soil – line w/concrete or masonry to 4" above adjoining grade) M303.7
- 1.5 ___ suspended equipment min 6" above adjoining grade M304.8.2
- 1.6 ___ crawl space supports min. 4x8x16 cmu or brick supports held in place with mortar M304.8.3
- 1.7 ___ excavated installations require natural drain or sump pump M304.8.4
- 1.8 ___ provide permanent means of access if height > 16'/roof > 3:12 then provide level platform M306.6
- 1.9 ___ provide guards min. 42" high if within 10' of edge or walking surface > 30" high M304.9
- 1.10 ___ install per manufacturers installation instructions M304.1
- 1.11 ___ install lintel at foundation opening at duct penetration M302.1
- 1.12 ___ provide secondary pan drain or float switch M307.2.3
- 1.13 ___ provide alternate combustion air if installed in a confined space(50cuff. Per 1000btu) G304.2
- 1.14 ___ elevate ignition source min. 18" above garage floor(includes rooms opening directly into & not part of living space) G305. 2
- 1.15 ___ protect appliance from vehicle impact M304.5
- 1.16 ___ maintain minimum clearance to combustibles(use of doorstops,closers,drapery ties,guards etc..not to be used) M304.7

DUCTWORK:

- 2.1 ___ seal all joints,seams and connections (welds,gaskets,mastics,UL181b) M603.8
- 2.2 ___ support ducts at max. 10' intervals or per manufacturers installation instructions M603.9
- 2.3 ___ maintain min. 4" clearance from earth M603.12
- 2.4 ___ insulate ductwork and boots min. R-5 (min. R-8 if outside the building) M604.1
- 2.5 ___ insulate attic ductwork (replacement or addition of cooling equipment to existing ductwork) M604.1
- 2.6 ___ provide weather protection for exterior ductwork M603.14
- 2.7 ___ provide balancing dampers in branch ducts or at ea. Individual register M603.15
- 2.8 ___ minimum size of supply and return ducts (6sqin. Per 1000btu cooling / 2sqin. Per 1000 btu heat) M918.2 ; .3
- 2.9 ___ provide additional returns (>1600sqft. Or multi-level) M918.10

VENTS AND CONNECTORS:

- 3.1 ___ provide proper vent type for appliance (gas = type B ; oil = type L) G503.4
- 3.2 ___ provide min. 1/4" rise per foot for vent G503.10.8
- 3.3 ___ install vent per manufacturers installation instructions G503.6.1
- 3.4 ___ vent must have min. vertical height of 5' above highest connected appliance G503.6.7
- 3.5 ___ connect vent to chimney min. 12" above lowest portion of interior chimney flue G501.9
- 3.6 ___ provide double wall vent outdoors G503.7.2
- 3.7 ___ type B or type L vent required in unconditioned areas G503.10.2.2
- 3.8 ___ adequately screw joints (min. 3 sheet metal screws equally spaced) M803.10.1
- 3.9 ___ provide minimum clearance to combustibles for vent and connector G503.
- 3.10 ___ mechanical draft vent termination(4' below,4' horiz.,or 1' above building openings) G503.8(2)
- 3.11 ___ direct vent termination(10000btu or less – 6" , >10000 – 50000btu – 9" , >50000btu – 12" , and 12" above grade) G503.8(3)

GAS PIPING:

- 4.1 ___ minimum pressure test – 10 min. @ 10psi G406.4.1
- 4.2 ___ all unused valves @ outlets closed and plugged or capped G406.6.2
- 4.3 ___ label gas piping (other than black steel) with yellow tag and " gas " in black letters @ 5' o.c. max. G401.5
- 4.4 ___ label gas piping delivery pressure @ beginning , all ends , and 5' o.c. max. G401.5
- 4.5 ___ concealed fittings must be listed for use or brazed tubing G404.3
- 4.6 ___ provide min. 1/16" shield plates@ holes and notches < 1" from stud/joist/rafter edge(extend 4" above,below,sides) G404.5
- 4.7 ___ sleeve gas line thru wall and seal G404.4
- 4.8 ___ protect copper tubing within 30" of ground from physical damage G404.7
- 4.9 ___ paint gas line with corrosion resistant material G404.7
- 4.10 ___ support steel pipe min. 6' o.c.(1/2") ; 8' o.c. (3/4" or 1") G415.1
- 4.11 ___ support gas tubing min. 4' o.c.(1/2") ; 6' o.c.(5/8" or 3/4") ; 8' o.c.(7/8" or 1") G415.1
- 4.12 ___ pressure regulators installed where required (if located outdoors must be listed as such) G410.1
- 4.13 ___ locate shut-off valve in same room as and within 6' of appliance G409.5
- 4.14 ___ max. length of flex connectors = 3' (range and domestic clothes dryer = 6') G411.1.2
- 4.15 ___ install CSST piping per manufacturers installation instructions G403.5.4

CLOTHES DRYERS:

- 5.1 ___ dryer duct must be noncombustible and corrosion resistant M504.6
- 5.2 ___ joints in dryer duct(rigid) shall run in direction of flow M504.6
- 5.3 ___ minimum size dryer duct shall be 4" M504.6
- 5.4 ___ max. length of rigid metal duct = 45' (subtract 5' ea. 45deg. And 10' ea. 90deg. bend) M504.6
- 5.5 ___ max. length of flexible duct = 25' (subtract 2 1/2' ea. 45deg. and 5' ea. 90deg. bend) M504.6
- 5.6 ___ provide back draft damper at duct termination M504.4
- 5.7 ___ provide min. 100sqin. Opening for make-up air (exhausting > 200cfm) M504.5
- 5.8 ___ sheet metal screws and similar fasteners are prohibited M504.4

MISCELLANEOUS:

- 6.1 ___ provide min. 50cfm intermittent or 20cfm continuous bathroom exhaust M403.3
- 6.2 ___ bath exhaust duct shall be metallic or listed UL181 M603.3 ; .4
- 6.3 ___ provide minimum clearance to combustibles per manufacturers installation instructions for gas range M917.1
- 6.4 ___ equipment listed for use with refrigerant type M1101.2
- 5.10 ___ miscellaneous _____

comments on reverse side

APPROVED _____

DISAPPROVED _____

DATE _____