

## ***PALO ALTO FIRE DEPARTMENT***

### CONTRACTORS NFPA 13D RESIDENTIAL SPRINKLER INSPECTION CHECK LIST

THIS CHECK LIST IS ONLY TO BE USED AS A GUIDE. REFER TO ALL NFPA, CFC 2007 CODES AND LOCAL REGULATIONS PRIOR TO INSPECTION PRIOR TO INSPECTION. **LEAVE THE BOX UNCHECKED IF THE LINE ITEM DOES NOT APPLY TO THIS PROJECT.**

- DOWNLOAD AN INSPECTION REQUEST FORM AT [www.cityofpal Alto.org/fireinspection](http://www.cityofpal Alto.org/fireinspection)
- SCAN AND EMAIL TO [fireinspection@cityofpal Alto.org](mailto:fireinspection@cityofpal Alto.org)
- OR FAX TO 650-327-6951

#### **INSPECTION:**

- SYSTEM FLUSH OUT INSPECTION WAS PERFORMED AND APPROVED
- HYDROSTATIC INSPECTION WAS PERFORMED AND APPROVED (50 PSI ABOVE NOP)
- APPROVED PLANS AND PERMITS ON SITE
- LOCATE AREA(S) TO BE INSPECTED
- VERIFY NUMBER OF SPRINKLER HEADS PER PLANS
- IDENTIFY THE RISER LOCATION PER PLANS
- VERIFY APPROVED WATER SUPPLY

#### **PIPING AND SUPPORTS:**

- CHECK THAT PIPING, SIZING AND SUPPORT MATERIALS ARE AS PER PLANS
- CHECK PIPING, DEVICES AND MATERIALS ARE AS PER MANUFACTURER'S REQUIREMENTS
- CHECK THAT ALL PIPING IS NOT LAID IN SAME TRENCH AS WASTE AND DRAINAGE (EXCEPTIONS)
- CHECK THAT ALL PIPING WITHIN 6" TO AN ATTIC IS PROTECTED
- CHECK THAT ALL PIPING IS NO CLOSER THAN 6" TO A GAS APPLIANCE VENT

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#### **PIPING AND SUPPORTS CONT:**

- CHECK THAT PIPING IDENTIFICATION MARKINGS ARE VISIBLE FOR INSPECTION
- CHECK THAT ALL PIPING IS SUPPORTED PER UPC AND/OR PIPE LISTING (see table Pg 4) PLASTIC PIPE SHALL BE SUPPORTED AT LEAST EVERY 4' OTHERWISE
- CHECK FOR THERMAL EXPANSION AND CONTRACTION FITTINGS (3.5" FOR 100')
- CHECK THAT PIPING IS NOT RIGIDLY ANCHORED TO SUPPORTS (EXP/CON)
- CHECK FOR HANGER WITHIN 6" OF ALL DROPS TO HEADS ON CPVC PIPE
- CHECK THAT NON ABRASIVE HANGERS ARE USED
- CHECK THAT NO FEMALE FITTINGS FOR WATER ARE USED
- CHECK THAT UNIONS FROM CPVC TO METAL PIPE AND VALVE ARE LISTED FOR THAT PURPOSE
- CHECK FOR CORRECT HEAD TEMPERATURE
- CHECK COVERAGE AREA FOR ONE HEAD IS 144 SQ FT MAX
- CHECK DISTANCE BETWEEN SPRINKLER HEADS 12' MAX
- CHECK DISTANCE FROM WALL TO HEAD 6' MAX
- CHECK DISTANCE BETWEEN SPRINKLERS WITHIN A COMPARTMENT 8' MAX
- CHECK PENDANT OR UPRIGHT SPRINKLER DISTANCE TO WALL 6" MINIMUM
- CHECK UPRIGHT & PENDANT DEFLECTORS ARE WITHIN 1"-4" FROM CEILING
- CHECK SIDE WALL DEFLECTORS ARE WITHIN 4"-6" OF CEILING
- CHECK CLOSETS- LESS THAN 5' HIGH AND LESS THAN 300 SQ FT= 1 HEAD
- CHECK FOR A SINGLE SUPPLY VALVE FOR BOTH DOMESTIC WATER AND SPRINKLERS (ADDITIONAL VALVE MAY BE INSTALLED IF MONITORED OR LOCKED OPEN)
- CHECK THAT SYSTEM CONTROL VALVES ARE INDICATING TYPE
- CHECK THAT DRAIN/TEST CONNECTION IS MINIMUM OF 1/2 "
- CHECK THAT DRAIN /TEST VALVE OPERATE WASTER FLOW ALARM
- CHECK THAT PRESSURE TANK SUPPLIED SYSTEMS HAVE A GAUGE
- CHECK THAT DRY SYSTEMS HAVE A GAUGE

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#### **PIPING AND SUPPORTS CONT:**

- CHECK THAT PIPING IS NOT IN DIRECT SUNLIGHT
- CHECK THAT PIPING WITH NO CLOSER THAN 12" TO RECESSED LIGHT FIXTURES
- CHECK THAT SYSTEM DISCHARGES A MINIMUM OF 18 GPM AT ANY SPRINKLER

#### **SPRINKLER RISER:**

- CHECK THAT MAIN DRAINS ARE ROUTED TO THE EXTERIOR AND TURNED DOWN
- CHECK RISER FOR A FLOW SWITCH IF ALARMED
- CHECK THAT AN AUDIBLE ALARM IS INSTALLED
- CHECK THAT 3 SPARE HEADS OF EACH TYPE ARE ON SITE
- CHECK THAT SMOKE DETECTORS ARE INSTALLED PER NFPA-72
- CHECK THAT SMOKE DETECTORS ARE A/C WITH BATTERY BACKUP
- CHECK THAT A/C RUN FOR SMOKE DETECTORS IS DEDICATED AND LABELED
- CHECK THAT FDC IS INSTALLED ON STRUCTURES 3599 SQ FT AND LARGER

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<b>CPVC Hanger spacing</b>	<b>3/4" dia.</b>	<b>1" dia.</b>	<b>1-1/4" dia.</b>	<b>1-1/2" dia.</b>	<b>2" dia.</b>	<b>2-1/2" dia.</b>	<b>3" dia.</b>
73°F Environment	5-1/2 ft.	6 ft.	6-1/2 ft.	7 ft.	8 ft.	9 ft.	10 ft.
100°F Environment	5 ft.	5- 1/2 ft.	6-1/2 ft.	7 ft.	7-1/2 ft.	8-1/2 ft.	9-1/2 ft.
120°F Environment	4-1/2 ft.	5 ft.	5-1/2 ft.	6 ft.	7 ft.	7-1/2 ft.	8-1/2 ft.