

Section P2902 Protection of Potable Water Supply

Section P2903 Water-supply System

Section P2906 Materials, Joints and Connections

Section P2907 Changes in Direction

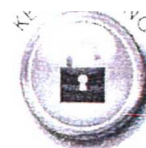
Section P2908 Support

Chapter 44 Referenced Standards

Water Service Inspection Checklist

Inspect Water Service

Task	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
1. Inspect Materials	1. Verify that water service piping and fittings are of approved materials (P2905.4, Table P2905.4, P2905.6, Table P2905.6).			
	2. If corrosion protection has been applied, confirm that materials used are compatible with piping and appropriate for the use (P2603.3).			
	3. Check location of water service valves. (P2903.9.1)			
	4. Examine materials and methods used for joints and connections to be sure they are approved (P2906.7 through P2906.19.11).			
	5. Verify that installed water service has been tested (P2503.1).			



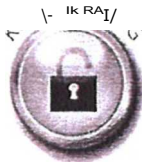
Water Service Inspection Checklist (continued)

Task: Inspect Footings				
Subtask	Inspection Step	Code Compliance		Comments/ Location
		Yes	No	
	1. Verify that the water service line can be inspected and has NOT been put into use (P2503.1, P2503.2, P2905.4.2, P2905.4.2).			
	2. If water service line and building sewer line are installed in the same trench, determine distance between pipes (P2906.1, P2906.4.11).			
	3. Verify that NO possibility exists for cross connection between potable water supply and a source of contamination (P2902).			
	4. Examine depth of water service line to be sure it has been installed below the frost depth (P2603.5).			
2. Inspect Installation	5. Confirm that the water service line does NOT extend below a 45-degree (0.79 rad) angle from the bearing plane of footings (P2604, P2604.4).			
	6. Check to be sure bed is solid along its entire length (P2604: P2604.1, P2605.1 and P2907.11).			
	7. Verify that water service line is supported so sagging and misalignment cannot occur (P2605.1, P2905.4.2).			
	8. Examine bends in copper (ASTM 888) tubing to be sure they are at least 4 times diameter (P2907.1).			
	9. Confirm that size of water service can handle current and future needs (P2903.6, Table P2903.6).			
	10. Verify that water service is protected where it passes through foundations and/or footings (P2603.3, P2603.4).			
	11. Examine backfill to be sure that it is free of rocks, debris (broken concrete, metal objects) which could damage pipes. Do not allow frozen chunks to be used, as there is no way to determine if rocks or debris are trapped inside. The most stable backfill material is granular soil, sand, etc. (P2604.3).			



Building Sewer Inspection Checklist

Inspect Building Sewer				
Task	Inspection Step	Code Compliance		Comments/ Location
		Yes	No	
1. Inspect Materials	1. Verify that building sewer piping and fittings are of approved materials (Tables P3002.2 and P3002.3).			
	2. If corrosion protection has been applied, confirm that materials used are compatible with piping and appropriate for the use (P2603.3).			
	3. Examine materials and methods used for joints and connections to be sure they are approved (P2601, P3002, P3003.2).			
	4. Verify that the installed building sewer has been tested for leaks (P2503.4).			
2. Inspect Installation	1. Verify that the building sewer can be inspected; is NOT concealed, NOT covered and NOT put into use (P2503.1, P2503.2).			
	2. If the building sewer line and water service line are installed in the same trench, identify materials and determine distance between pipes if any is required (P2906.4.1).			
	3. Verify that the building sewer has been protected from freezing (P2603.5).			
	4. Confirm that the building sewer line does NOT extend below the bearing plane of footings (P2604.4).			
	5. Check the trench to be sure it is solid and firm along its entire length (P2604.5).			
	6. Verify that the building sewer is supported to avoid sagging and misalignment (P2605).			
	7. Confirm that the size of the building sewer can handle current and future flow (P3004, P3005.4, Table P3005.4.2).			
	8. Examine the slope of the building sewer line to be sure it has proper slope (1/4 inch (32 mm) per foot minimum), as applicable (P3005.3, Table P3005.4.2).			
	9. Check covering material to be sure it is tamped (P2604.3).			
	10. Examine backfill to be sure it is free of rocks, debris, etc., which could damage piping (P2604.3).			



Water Distribution Inspection Checklist

Inspect Water Distribution System				
Task	Inspection Step	Code Compliance		Comments/ Location
		Yes	No	
1. Inspect Materials and Installation	I. Verify that the water distribution system is available for inspection: NOT concealed, NOT covered, NOT put into use.			
	2. Confirm that piping material is approved for the water distribution system (P2906.5, Table P2906.5).			
	3. Check to be sure that required valves are accessible and are of approved design and materials (P2903.9.2).			
	4. Confirm that materials and methods used for joints and connections are approved (P2906).			
	5. Check bends in copper tubing to be sure they have been installed in an approved manner (P2906).			
	6. Confirm that water distribution system has been pressure tested (P2503.7).			
	• Confirm the installed fire sprinkler system conforms to NFPA 130 (R313) or Section P2904.			
2. Inspect Size and Pressure	1. Identify fixture branches, fixture group mains, water service and branch mains, mains and risers.			
	2. Determine water distribution system pressure and height of highest fixture.			
	3. Verify that fixture branches are correctly sized (Appendix P. AP201).			
	4. Check installed water mains, branch mains and risers to be sure they are correctly sized (Appendix P. AP201).			
	5. If pressure exceeds 80 psi (73 kPa), verify that pressure-reducing valve is installed (P2903.3.1).			
	6. Check the installed fire sprinkler system for conformance to NFPA 130 (R313) or Section P2904.			

Water Distribution Inspection Checklist (continued)



Inspect Water Distribution System				
Task	Inspection Step	Code Compliance		Comments/ Location
		Yes	No	
	1. Verify that water distribution piping has been supported at required intervals (P2605, Table P2605.1).			
	2. Check for protection against breakage where piping passes through walls (P2603.4).			
	3. Confirm that piping has corrosion protection when it passes through or under corrosive materials (P2603.3).			
3. Inspect Support and Protection	4. Examine piping installed outside or in exterior walls for protection from freezing (P2603.5).			
	5. Verify that outside openings have been made water tight (P2607.2).			
	6. Confirm that a backflow prevention device is installed if cross connections could occur between water distribution system and nonpotable water (P2902.1, P29002.3).			
	7. Check for approved labels on nonpotable and/or private water sources (P2901.1).			
4. Inspect Cutting, Notching, and Bored Holes (Horizontal)	1. Determine that there are no notches in the middle V, of any joist span (R502.8.1).			
	2. Determine that notches on the ends of the joist do not exceed V, the depth of the joist (R502.8).			
	3. Determine that notches between the ends and middle V, of the span do not exceed $\frac{1}{3}$ the depth of the joist (R502.8).			
	4. If top notches in ceiling joists exceed one-sixth of the joist depth, determine that they are located no further than the joist depth from the face of support and that they do NOT exceed V, of the joist depth (R802.8).			
	5. Determine that cantilevered portions of joists have no notches UNLESS considered in the design (R802.8).			
	6. Determine that there are no bored holes within 2 inches (51 mm) of the top or bottom of the joist or other holes (R502.8).			
	7. Determine that the diameters of bored holes do not exceed V, the depth of the joist (R502.8).			
	8. Verify that engineered members has not been cut, notched or bored.			



Water Distribution Inspection Checklist (continued)

Inspect Water Distribution System

Task	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
5. Inspect Drilling and Notching (Vertical)	1. Inspect top plates to determine if any notches exceed 50 percent of their width 1R602.6.1i.			
	2. If notches in top plates exceed 50 percent of their width, verify that the top plate is reinforced with a 1/6-gage steel tie nailed with eight 16d nails on each side (R602.6.1).			
	3. Inspect bearing and exterior wall studs to determine that notches do not exceed 25 percent of the stud width (R602.6).			
	4. Inspect bearing and exterior walls for bored holes and determine that the diameter of the hole does not exceed 40 percent, unless it complies with Step 5 (R602.6).			
	5. If the diameter of the hole in a bearing or exterior wall is greater than 40 percent, but does not exceed 60 percent then the bored stud must be doubled.			
	6. If there are bored studs that are doubled, determine that there are not more than two successive doubled bored studs.			
	7. Determine that bored holes are at least 1/4 inch from edge of stud (R602.6).			
	8. Determine that bored holes are not in the same cross section as notches.			



Drainage, Waste and Vent Inspection Checklist

Inspect Drainage, Waste and Vent				
Task	Inspection Step	Code Compliance		Comments/ Location
		Yes	No	
1. Inspect Materials and Installation	1. Verify that the DWV system is available for inspection; that it is NOT concealed, NOT covered and NOT put into use (P2503.1, P2503.2).			
	2. Confirm that piping is approved for DWV (P3002.1).			
	3. Check to be sure methods and materials used for joints and connections are approved (P3002.3, P3003).			
	4. Verify that drainage and vent pipes have proper slope (P3101.1, P3005)			
	5. Examine MAN pipelines to be sure they are securely supported (Table P2605.1).			
	6. Verify that DWV lines are protected against corrosion and breakage (P2603.3, P2603.4).			
	7. Check backfill to be sure it is composed of appropriate materials which have been tamped (P2604.3).			
2. Inspect Concealed Trap, Cleanout and Trap Arm	1. Verify that materials and design of traps and cleanouts conform to standard (P3005, P3005.2, P3201.5).			
	2. Check sizing of traps and trap arms (Tables P3201.7).			
	3. Confirm that fixture drains installed using approved methods (P3201).			
	4. Confirm that concealed traps are installed correctly.			
	5. Verify that cleanouts are correctly sized, accessibly located, and installed using approved methods (P3005.2).			



Drainage, Waste and Vent Inspection Checklist (continued)

Inspect Drainage, Waste and Vent				
Task	Inspection Step	Code Compliance		Comments/ Location
		Yes	No	
3. Inspect Vents	1. Check to be sure vents are installed where required and air admittance valves will be accessible (P3101.1, P3101.2, P3102.1 and P3114.5).			
	2. Verify that vent connections are made in the proper locations (P3104.2, P3104.3, P3104.4, P3102.1, P3102.2).			
	3. Confirm that vents are sized correctly (P3113.1).			
	4. Examine wet vents to be sure they are sized and installed correctly (P3108).			
	5. Check stack venting for correct sizing and installation (P3102, P3109.4).			
	6. Verify that vent terminals are located so they do not interfere with other building structures and are installed correctly (P3103).			
4. Inspect Size	1. Identify parts of DWV system to be sized: Individual fixture drains, horizontal (fixture) branches, stack, and building drain.			
	2. Verify that individual traps and trap arms are correctly sized (Table P3201.7).			
	3. Confirm that horizontal (fixture) branches are correctly sized (Tables P3005.4.1, P3005.4.2).			
	4. Verify that stack and offsets are correctly sized (Table P3005.4.1, P3006).			
	5. Verify that size of single-stack system is correct.			
	6. Verify that building drain is correctly sized (Tables P3005.4.1, P3005.4.2).			
	7. Confirm that DVVV piping has been tested for leaks (P2503.1, P2503.5.1).			
	8. Inspect structural framing around DWV system for cutting, notching and boring.			



Fixture Layout Dimensions Inspection Checklist

Inspect				
TASK	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
1. Inspect Clearance	1. Verify that the fixtures are located with proper clearances from the walls and each other.			
	2. Check that floors and walls above bathtubs with installed compartments are finished with a nonabsorbent surface.			
	1. If a shower floor fixture has been installed, determine if it meets applicable standards by checking the label.			
2. Inspect Shower	2. Inspect the size of the shower area (P2708.1).			
	3. Verify that the walls are nonabsorbent, and are installed with a water-tight joint with each other and the shower floor (P3201.2, R702.4, R702.4.1).			
	4. If on-site built-up shower receptor has been installed, check receptor lining (pan), hot mopped receptor linings, lead and copper receptor linings and plastic receptor linings (P2709.2.1).			
	5. Inspect on-site built-up receptor drains (P2709.4).			
	6. Check to be sure shower is functionally accessible.			
3. Leak Checking	1. Verify tubs and showers do not have leaks (filled with water, drain plugged).			
	2. Verify shower pans are leak free (filled with water, drain plugged).			
4. Inspect, and Access	1. Verify blocking installed as required by fixtures.			
	2. Verify whirlpool tub pump motors will have service access.			
	3. Verify that floor drains are installed in acceptable locations.			



Kitchen Inspection Checklist

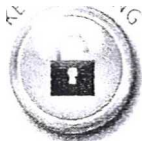
Inspect Kitchen Installation and Operation				
Task	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
1. Inspect Sink	1. Check label on sink for conformance with standard (P2701.1).			
	2. Verify that the sink is caulked and securely supported (P2705.1).			
	3. Examine the waste outlet to be sure that a strainer or crossbar restricts the clear opening (P2714.1).			
	4. Check to be sure trap(s) are located, sized and installed correctly (P3201.7).			
	5. With hot water running, check the trap for leaks.			
	6. Check installation of sink appliances and appurtenances, e.g., food waste disposer, water purifier, etc., (P2707, P2714, P2716).			
2. Inspect Faucets and Fixture Fittings	1. Check faucet for proper labeling (P2701.1, P2722).			
	2. If a labeled hose spray is attached to the faucet, test diverter to be sure it switches on and off			
	3. Check for leaks in hot and cold water supply			
	4. Examine hot water installation to be sure that the flow of hot water is from the left side (P2722.2).			
	5. Check for gasket caulking or plumber's putty			
	6. With water running, rotate the spout to test for leaks			
	7. Confirm that air gap conforms to code (P29023.1, Table P2902.3.1).			
3 Inspect Dishwasher	1. Verify that dishwasher conforms to Section P2717			
	2. Check installation of dishwasher (P2717).			
	3. Examine the size and installation of discharge hose (P2717)			
	4. If possible, check dishwasher for leaks and proper operation.			

Bathroom Inspection Checklist



Inspect

Task	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
1. Inspect Lavatory	1. Check label on lavatory for conformance to standards (P2701.1, P2703).			
	2. Verify that the lavatory is caulked per manufacturer's instructions and securely supported (P2705).			
	3. Examine the waste outlet to be sure that strainer, crossbar or pop-up stopper restricts the clear opening (P2702, P2711.1).			
	4. Check to be sure that trap(s) are located, sized and installed correctly (P3201.7).			
	5. With hot water running, check the trap for leaks.			
2. Inspect Water Closet	1. Confirm that the water closet fixture conforms to standard (P2701.1 standards).			
	2. Verify that the water closet fixture is of a water-conserving design, using 1.6 gallons (6 L) (or less) per flush (Table P2903.2).			
	3. Flush the water closet to ensure that bowl walls are thoroughly washed and that contents do NOT backflow into the bowl (P2712.1, P2712.2).			
	4. Remove flush tank lid and flush water closet: observe operation of ball cock, overflow, and flush valve seat (P2712.1, P2712.2, P2712.3, P2712.4, P2712.5)			
	5. Check size, shape and material of water closet seat (P2712.71).			
	6. Examine point where water closet joins floor for water-tight joint (P2705.11).			
	7. Attempt to move water closet from side to side to be sure it is stable and secure (P2705.1).			
	8. Check location of water closet to be sure that clearances allow proper use.			



Bathroom Inspection Checklist (continued)

Inspect				
TASK	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
3. Inspect Bidet	1. Check label for conformance to appliance standards (P2701, P2721).			
	2. Confirm that backflow protection is installed (P2902.1).			
	3. Verify code compliance of installation (P2705).			
	4. Verify location/clearance allows proper use (R307.1, P27051).			
4. Inspect Bathtub/ Hydromassage Bath System	1. Determine if bathtub/whirlpool meets applicable standards (P2701.1, P2713, P2720).			
	2. Verify caulking and support (P2705).			
	3. Determine if an approved stopper restricts the waste outlet (P2702.1, P2713.1).			
	4. If the bathtub/whirlpool has a shower head, test diverter to be sure it works properly.			
	5. Check windows and doors of enclosure to be sure they conform to safety glazing requirements (R308.4).			
	6. If a Hydromassage Bath System has been installed, check pump for accessibility and conformance to manufacturer's installation instructions (P2720.1, P2720.41).			
	7. Confirm that location provides adequate space for use (Figure P2705, R307.1).			

Bathroom Inspection Checklist (continued)



Inspect				
TASK	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
5. Inspect Shower	i. Verify that the walls are nonabsorbent, and are installed with a water-tight joint with each other and the tub, shower, floor fixture or shower receptor.			
	2. Inspect on-site built-up receptor drains.			
	3. Examine windows and shower enclosure doors.			
6. Inspect Faucet and Fixture Fittings	1. Check if faucet is labeled and is water conserving (P2903.2, Table P29032, P2722.).			
	2. Verify that fixture has an adequate supply of potable water (P2903.6).			
	3. Check for leaks in hot and cold water supply.			
	4. Verify that the flow of hot water is from the left side (P2722.2).			
	5. If applicable, check for gasket caulking or plumber's putty.			
	6. If applicable, run the water and rotate the spout to test for leaks.			
	7. Confirm that air gap conforms to code (P2902.2.1).			
	8. If fixture is a shower or tub/shower combination verify that an approved control valve is installed (P2708.4).			
	9. Verify proper temperatures are provided (P27083. P2713.3. P2721.2)			



Utility Room Inspection Checklist

Inspect Laundry/Basement				
Task	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
1. Inspect Clothes Washer	1. Verify that clothes washer conforms to P2718.			
	2. Confirm that the discharge is through an air break to an approved receptor (P2706.2, P2706.2.1).			
2. Inspect Laundry Tub	1. Check label on laundry tub for conformance with standard (Table P2701 1).			
	2. Examine waste opening for strainer or crossbar (P2702.1, P2715.1).			
	3. Verify that laundry tub is securely supported.			
	4. Check to be sure that trap(s) are located, sized and installed correctly (P3201.7).			
	5. With hot water running, check the trap for leaks.			
3. Inspect Faucets and Fixtures	1. Check to be sure faucet is labeled and is water conserving (P2722.1).			
	2. Verify that the fixture has an adequate supply of potable water (P2903.2).			
	3. Check for leaks in the hot and cold water supply.			
	4. Examine hot water installation to be sure that the flow of water is from the left side to prevent scalding (P2722.2).			
	5. Check for gasket caulking or plumber's putty which is installed to prevent water from accumulating and creating mold and mildew or decay on counters, walls and floors.			
	6. If applicable, with both the hot and cold water running, rotate the spout and visually check around the base of the spout to test for leaks.			
	7. Confirm that air gap conforms to code (P29023.1 Table P2902.3.1).			

Utility Room Inspection Checklist (continued)



Inspect Laundry/Basement				
Task	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
4. Inspect Water Heater	1. Check label to be sure water heater conforms to standard (ASNI Z21.10.1; ANSI Z21-10.3, UL 174, Chapter 4-4).			
	2. Verify that proper clearances have been maintained.			
	3. Examine size of water heater to be sure it provides sufficient hot water to plumbing fixtures (P2801.11).			
	4. Verify that fullway valve has been installed in cold water supply (P2903.9.2).			
	5. Examine relief valve for rating and installation (P2804).			
	6. Confirm that discharge pipe installation conforms to code requirements (P2804.6.1).			
	7. Verify proper installation of thermal expansion tank.			
	8. Verify bottom fed water heater or storage tank valve conforms to ANSI Z 21.22.			
	9. Verify that drain valve complies with code.			
	10. If water heater is located in garage, check installation for code compliance (M1801.1, P2801.6, M2005.2, G2406.2, G2408.2 and G2425).			
	11. Verify that water heater or tankless water heater is installed in accordance with manufacturer's installation instructions.			



Utility Room Inspection Checklist (continued)

Inspect Laundry/Basement				
Task	Inspection Step	Code Compliance		Comments/Location
		Yes	No	
5. Inspect Sump Pump/ Sewage Pump/ Ejector Pump	1. Check sump pump/sewage pump/ejector label for required information (P3007.3.1).			
	2. Examine discharge piping for a backwater valve or check and gate valve to prevent discharge from returning to the pipe (P3007.2 and P3303.1.4).			
	3. Verify the size of the sump pump/sewage pump/ejector and discharge piping conform to code requirements 1P3007.1, P3007.3 and P3007.6).			
	4. Check sewage pump/ejector sump for sealing and venting (P3007.3.2).			
	5. Activate the sump pump/sewage pump/ejector to be sure it is operational.			
	6. Sumps that discharge by means of automatic pumping equipment must have an approved electrically operated alarm indicating that a high water level exists.			
	7. Check electrical connections for pumps.			
	8. Check that floor drain openings are not located under or have their access restricted by appliances.			