

SEWERS

191 Attachment 2

Borough of Stockertown

Exhibit "B"

THE BOCA NATIONAL PLUMBING CODE/1990

SECTION P-515.0 PVC PLASTIC PIPE AND FITTINGS

P-515.1 General: Joints between PVC plastic pipe or fittings shall be in accordance with Sections P-515.2 through P-515.4.

P-515.2 Mechanical joints: Mechanical Joints on water pipe shall be made with an elastomeric seal conforming to ASTM D3139 listed in Appendix A. Mechanical joints on drainage pipe shall be made with an elastomeric seal conforming to ASTM D3212 listed in Appendix A. Mechanical joints shall only be installed in underground systems, unless otherwise approved. Joints shall be installed in accordance with the manufacturer's instructions.

P-515.3 Solvent cementing: Joint surfaces shall be clean and free of moisture. A purple primer conforming to ASTM F656 listed in Appendix A shall be applied. Solvent cement not purple in color and conforming to ASTM D2564 listed in Appendix A shall be applied to all joint surfaces. The joint shall be made while the cement is wet, and in accordance with ASTM D2855 listed in Appendix A. Solvent cement shall be handled in accordance with ASTM F402 listed in Appendix A.

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SECTION P-602.0 DRAINAGE PIPING INSTALLATION

P-602.1 Pitch of horizontal drainage piping: Horizontal drainage piping shall be installed in uniform alignment at uniform slopes. The minimum pitch of a horizontal drainage pipe shall be in accordance with Table P-602.1.

**Table P-602.1
PITCH OF HORIZONTAL DRAINAGE PIPE**

Size (inches)	Minimum pitch (inch par foot)²
2 1/2 or less	1/4
3 to 8	1/8
8 or larger	1/16

Note a: 1 inch per foot = 83.3 mm/m.

P-602.2 Continuous flow: The size of the drainage piping shall not be reduced in size in the direction of the flow.

Exception: A 4-inch by 3-inch water closet connection.

P-602.3 Connections to offsets and base of stacks: Horizontal branches shall connect to a horizontal stack offset or the base of a stack a minimum of ten pipe diameters from the stack in the direction of the flow.

P-602.4 Future fixtures: Drainage pipe for future fixtures shall terminate with an approved cap or plug.

P-602.5 Dead ends: In the installation or removal of any part of a drainage system, dead ends shall be prohibited.

Exception: Cleanout extensions and approved future fixture drainage piping.

P-602.6 Floodproofing: All drainage piping located in a flood hazard zone (A Zone) or a high hazard zone (V Zone) shall be capable of resisting hydrostatic and hydrodynamic loads and stress, including the effects of buoyancy during the occurrence of flooding to the base flood elevation.

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P-1001.6 Trap setting and protection: Traps shall be set level with respect to their seals and, where necessary, shall be protected from freezing.

P-1001.7 Building traps: Building (house) traps shall not be installed, except where specifically required by the code official. Each building trap, when installed, shall be provided with a cleanout and a relief vent or fresh air intake on the inlet side of the trap which need not be larger than one-half the diameter of the drain to which it connects. Such relief vent or fresh air intake shall be carried above grade and terminate in a screened outlet located outside the building.

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**ARTICLE 11
DRAINAGE PIPE CLEANOUTS**

SECTION P-1100.0 GENERAL

P-1100.1 Scope: The provisions of this article shall control the size and location of drainage pipe cleanouts and provide requirements for their installation and maintenance.

SECTION P-1101.0 WHERE REQUIRED

P-1101.1 Horizontal drains within buildings: All horizontal drains 4 inches in diameter or less shall have cleanouts located not more than 50 feet (15240 mm) apart. All horizontal drains larger than 4 inches in diameter shall have cleanouts located not more than 100 feet (30480 mm) apart.

P-1101.2 Building sewers: All building sewers shall have cleanouts located not more than 100 feet (30480 mm) apart.

P-1101.3 Changes of direction: Accessible cleanouts shall be installed at each change of direction of the building drain or of horizontal waste or soil lines, which is greater than 45 degrees (0.79 rad).

P-1101.4 Base of stack: A cleanout shall be provided at the base of each waste or soil stack.

P-1101.5 Building drain and building sewer junction: There shall be a cleanout at the junction of the building drain and the building sewer. This cleanout shall be either inside or outside the building wall and shall be brought up to finish grade or to the basement floor level. The cleanout at the junction of the building drain and building sewer shall not be required if the cleanout on a 3-inch or larger diameter vertical soil stack is located within 10 feet (3048 mm) of the building drain and building sewer connection.

SECTION P-1102.0 UNDERGROUND DRAINAGE

P-1102.1 General: Cleanouts for an underground drain or sewer shall extend to grade or floor level.

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SECTION P-1103.0 CONCEALED PIPING

P-1103.1 General: Cleanouts on concealed piping shall extend through and terminate flush with the finished wall or floor. Pits or chases, sized to permit removal of the cleanout plug and cleaning of the system, shall be incorporated in the wall or floor.

SECTION P-1104.0 DIRECTION OF FLOW

P-1104.1 General: Every cleanout shall be installed to open in the direction of the flow of the drainage pipe or at right angles thereto.

SECTION P-1105.0 CLEANOUT SIZE

P-1105.1 General: Cleanouts shall be of the same size as the pipes they serve up to 4 inches, and not less than 4 inches for larger piping.

SECTION P-1106.0 MANHOLES

P-1106.1 Building sewers: Building sewers 10 inches in diameter or larger shall have approved manholes for cleanouts. Manholes shall be located at every change of direction, elevation, grade and size of the building sewer and at intervals not more than 400 feet (122 m).

P-1106.2 Building drains: Underground building drains 10 inches in diameter or larger shall have manholes in accordance with the requirements of Section P-1106.1. The manhole shall have secured gas-tight covers.

P-1106.3 Floodproofing: All manhole covers located in a flood hazard zone (A zone) or a high hazard zone (V Zone) shall either be elevated to or above the base flood elevation or shall be sealed to resist hydrostatic and hydrodynamic loads and stresses, including the effects of buoyancy, during the occurrence of flooding to the base flood elevation.

SECTION P-1107.0 CLEANOUT CLEARANCES

P-1107.1 Pipes 3 inches or larger: Cleanouts on 3-inch or larger pipes shall be installed so there is a clearance of not less than 18 inches (457 mm) for the purpose of rodding.

P-1107.2 Pipes smaller than 3 inches: Cleanouts smaller than 3 inches shall be installed so there is a 12-inch (305 mm) clearance for rodding.

SECTION P-1108.0 CLEANOUTS TO BE ACCESSIBLE

P-1108.1 Permanent covers prohibited: Cleanout plugs shall not be covered with cement, plaster or any other permanent finishing material. Where necessary to conceal a cleanout plug, a covering plate or access door shall be provided permitting ready access to the plug.

P-1108.2 Prohibited use: Cleanout openings shall not be used for the installation of new fixtures or floor drains, except where approved and where another cleanout of equal access and capacity is provided.