



PERMEABLE PAVERS

AVAILABLE PCBMP MEASURES

Dry Well

Permeable Pavers

Rain Barrel

Rain Garden

Rainwater Harvesting



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POST CONSTRUCTION BEST MANAGEMENT PRACTICES (PCBMP)

On July 21, 2014, The Village Board discussed possible ordinance changes to alleviate the cumulative effects of increased impervious surfaces due to residential teardowns. During that meeting the Village Board directed Staff to draft an ordinance amending the Village's stormwater and flood plain ordinance to lower the threshold for requiring on-site storm water storage. The resulting code amendment is designed to prevent further stormwater impacts as a result development. On November 3, 2014, the Village Board adopted Ordinance 04-11-37 amending the County's stormwater Post Construction Best Management Practices (PCBMP) requirements to do the following:

- Reduce the current threshold for requiring PCBMP storage for new impervious area from 2,500 square feet to 300 square feet. This reduced threshold would allow property owners to make minor additions (i.e. patios, driveway expansions, accessory structures, covered front porches, etc.) without requiring the expense of engineering services and stormwater storage. Larger projects (i.e. detached garages, sport courts, room additions and new homes) would be required engineering services to determine the needed PCBMP storage required based on increased impervious surface.
- Establish other means for providing PCBMP storage through the installation of rain gardens, rainwater harvesting systems, underground storage systems, and/or other design approved by the Village Engineer. A pump may be required if the Village Engineer determines the on-site soil conditions are not suitable for infiltration.

Establish a bi-annual (every 2 years) inspection program by the Village Engineer at the expense of the property owner.

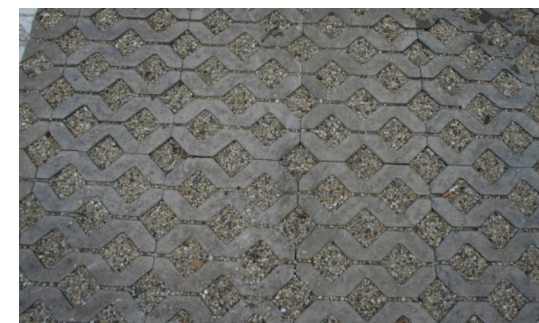
These new PCBMP storage standards will become effective **May 1, 2015**. Please contact the Community Development Department for more information.

NEW IMPERVIOUS AREA	REQUIRED PCBMP STORAGE VOLUME	
(FT2)	(FT3)	(GALLONS)
301	32	235
400	42	312
500	53	390
600	63	468
700	73	546
800	84	624
900	94	702
1,000	105	780
1,100	115	858
1,200	125	936
1,300	136	1014
1,400	146	1092
1,500	157	1170
1,600	167	1248
1,700	178	1326
1,800	188	1404
1,900	198	1482
2,000	209	1560

PERMEABLE PAVERS

An area of Permeable Pavers allows rainwater to filter into a stone layer located below the pavers. Stormwater flow from the new impervious area (or equivalent existing impervious surface) is discharged to the Permeable Paver area. The capture stormwater is stored within the voids of the stone layer. The stone layer varies depending on the amount of stormwater storage is required. Within the stone layer, 36% is the assumed void space. Therefore , a 10' X 10' permeable paver area with 18-inches of stone will provide approximately 54 cubic feet (400 gallons) of stormwater storage volume. Permeable Pavers are not considered impervious surface. If the soils are determined to be unsuitable for infiltration, a small diameter perforated underdrain would be required to allow the dewatering of the stored stormwater runoff over a 48 hour to 96 hour duration to the closest Village drainage system. If the Permeable Paver area cannot drain by gravity because of existing topographic issues, a small pump will be needed to dewater the stored stormwater. The Village Engineer will work with the property owner to determine the discharge point.

Village consultant will perform three (3) inspections during construction.



Permeable Paver Example