

PERVIOUS CONCRETE

What is it?

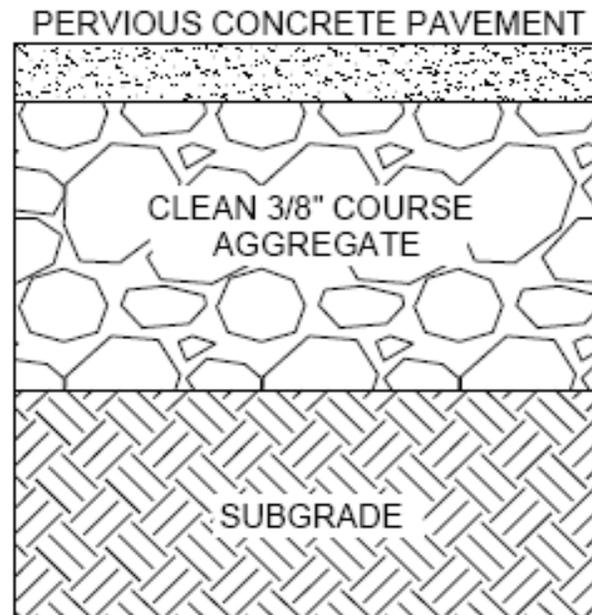
Pervious concrete is a special type of concrete with high porosity allowing storm-water to pass directly through and infiltrate into the ground. Pervious concrete is made from controlled amounts of water and cement - like materials, creating a paste that forms a coating around 3/8" aggregate particles binding them together. Unlike conventional concrete, the mix contains little sand allowing a 15%-25% void content.

Why is it useful?

Pervious concrete **reduces stormwater runoff** by infiltrating it into the underlying rock bed and soils which treats the water by **removing pollutants** through chemical and biological processes. This reduces pollutants entering the Mississippi River. Other benefits include **groundwater recharge** and a **safety benefit**; **no ice will build-up** on the pervious concrete.

How Does it Work?

- ◆ Water is directed into the pervious concrete pavement section at the end of the alley.
- ◆ Water seeps through the concrete you see on the surface through voids entering a coarse aggregate section.
- ◆ The aggregate section acts as a filter for pollutants and storage for the water.
- ◆ The filtered water enters the sub-grade (soils) recharging ground water; some pervious pavements have an under drain allowing treated water into the storm system.



What You Can Do To Help?

Although the City is responsible for long term maintenance of the pervious concrete, **we ask for your continued assistance** to make the project successful. Take **pride** and **responsibility** to keep the area functioning properly by:

- Always removing sediment from your driveway and disposing of it in the trash.
- Stabilizing exposed soil areas in your yard to reduce clogging the concrete.
- Do not dump or dispose any wastes in the alley or on top of the pervious concrete.
- Clean the alley of accumulating sediment, litter and debris before it enters the pervious section.
- Limit heavy vehicle traffic.
- Limit the use of sand and salt in the winter.
- Educate others about pervious concrete.

What The City is Doing?

- Sweeping the alley routinely.
- Specifically performing maintenance on the pervious concrete section 2-3 times a year to remove clogged sediments.
- Monitoring the structure and performance of the pervious concrete.