

Pervious Parking Area Fact Sheet

Location:	Heritage Park* 11300 East Miami River Road Colerain Township, Ohio 45252
Use:	roadside, pull-off parking area for school buses and vans
Dimensions:	11 feet wide (except on the tapered ends) 120 feet long (on the longest side) 1,300 square feet (approximately)
Designers:	Gary Wolnitzek and David Whittaker, landscape architects, Human Nature, Inc.
Installer:	Joe Ray, Construction Supervisor, Jeffrey Allen Corp., Cincinnati
Purchaser:	Greg Snyder, Director of Parks and Recreation, Colerain Township
Supplier:	Cincinnati Wholesale Supply, Fairfield
Materials:	Unilock environmental pavers (Ecoloc™), concrete, 9 ⁷ / ₁₆ "x9 ⁷ / ₁₆ "x3 ¹ / ₅ " washed, crushed limestone base (ODOT #57) washed, crushed angular limestone chips (ODOT #9, no fines) Mirafi 500X Woven Geotextile Fabric (or approved equivalent) poured concrete and iron rebar for curbing

Installation Steps:

- Excavate the pervious parking area up to 2 feet deep
- Install 6-inch-wide concrete curbs to be at grade with road and pervious parking surface
- Compact the earthen sub-grade with a 2% slope away from the asphalt road
- Install the first layer of woven, geotextile fabric
- Place a layer of crushed limestone (#57) at a thickness of 14 to 18 inches, depending on slope
- Compact the crushed limestone, which consists of rocks up to 1 1/4 inches in size
- Install the second layer of woven, geotextile fabric
- Place a layer of limestone chips (#9), which are no larger than 3/8 of an inch in size
- Screed (level off with a board) the limestone chips to achieve a nearly even surface at 2% slope
- Place the concrete paver blocks
- Compact the pavers atop the limestone chips
- Cut pavers and place the trimmed pieces in spaces not large enough for entire stones
- Place limestone chips in the square, stormwater infiltration gaps between the pavers

Cost: \$16,500 for labor and materials, excluding curbs and excavation
\$12.⁷⁰ per square foot (approximately)

Funding Source: a federal Targeted Watershed Grant from the Miami Conservancy District to Ohio-Kentucky-Indiana Regional Council of Governments, Colerain Township, Friends of the Great Miami, Dr. Michael C. Miller and Greenacres Foundation

Benefits of Pavers: Limit disruption of natural water flows by minimizing stormwater runoff
Remove pollutants and reduce contaminants to waterways.
Increase on-site infiltration and groundwater recharge
Mitigate erosion and sedimentation
Eliminate standing water or ice on pavement
Offer ease in repair and bear heavy loads without sinking in heat

* Heritage Park is a 125-acre recreational facility owned and operated by Colerain Township along the Big Bend of the Great Miami River, near Dunlap Run. Opened in September 2005, the riverside park once was the Wilhelm Farm.

