



Soccer Field, Trees Saved by Permeable Paving at Dominican

Project: Dominican University
West Parking Lot
7900 West Division St.
River Forest, Illinois

Installation: Porous pavement
system
147,375 square feet

Decision makers at Dominican University in River Forest, Illinois, recently made some very smart choices when it was time to replace their West Parking Lot. In July 2002, administrators reviewed their options for this extensive parking lot project and discovered an exciting new alternative: an ecologically sound permeable pavement system.

Dominican University had recently completed a building expansion program that required additional stormwater detention, and the school's soccer field was at risk for being destroyed to create a retention pond that would handle the added water runoff. After Dominican tried unsuccessfully to utilize an alternative method for stormwater management, the educational institution implemented an environmentally friendly paving system that actually saved the soccer field and saved money on overall project costs.

The school selected a porous pavement system that allows for natural stormwater drainage and groundwater recharge. This capability helps property owners solve a wide range of

ecological challenges that emerge in the development process, particularly as building projects impact the environment and are subject to new regulatory requirements. Besides the benefits for stormwater management, these porous pavement systems outperform other pavement systems in harsh climates with freeze/thaw cycles. In addition, the systems and their components deliver maximum strength to handle heavy vehicular traffic.



By using this advanced pavement system, Dominican eliminated the need for the retention pond, saved the soccer field, and created an attractive parking area for students and faculty. In fact, the savings of reclaiming this land actually offset the cost of the permeable paving program, and the mechanical installation of the system decreased the total man-hours required to complete the job. These two factors combined to make the 30-year life-cycle analysis for this project extremely cost-effective.

"A porous pavement system helped Dominican University to meet its stormwater management needs, while providing a wide range of other business benefits."

**— Chuck Taylor
APT CEO**

As a result of these benefits, Dominican expanded its use of the porous pavement system in the parking lot during 2003, adding another 37,375 square feet to the original 110,000-square-foot installation. This additional expansion allowed the university to preserve a beautiful wooded area and save valuable trees that would have been lost using traditional paving methods.

With both phases of the project, Dominican University added nearly 150,000 square feet of permeable pavers on its campus. LPS Pavement Company handled the mechanical installation of

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the system. General contractor for the project was Harrington Excavating, and the project engineer was V3 Consultants.

“The system installed at Dominican is similar to what we do with our Bio-Aquifer Storm System (BASS™),” explains Chuck Taylor, CEO for Advanced Pavement Technology (APT). “BASS™ is an outstanding solution to meet stormwater management needs, and no other company in the country currently has the personnel, experience and technology to apply this system like APT.”

A nationally recognized design/build paving consultant, APT has a solid track record of proven performance with the installation of flexible paving systems. Featuring more than 30 years of experience, the APT team is now leading the paving industry with innovative solutions that help to protect our environment.

For more information, please contact APT toll-free at (877) 551-4200 or visit our website at www.advancedpavement.com.

Advanced Pavement Technology (APT) is the exclusive resource for the proprietary *Bio-Aquifer Storm System* (BASS™), a permeable paving system breakthrough that is both cost-effective and environmentally sound. Under the Clean Water Act, U.S. federal law has mandated that states must control non-point source water pollution. APT's BASS™ method is an acceptable structural Best Management Practice (BMP) to meet this requirement, as well as a superior pavement solution with multiple benefits. By choosing BASS™ from APT, owners and project managers gain the following advantages:

- Enhanced land planning through the potential elimination of required retention/detention ponds
- Superior control of short-duration stormwater runoff (to near 100%)
- Reduced downstream flows and minimized potential for bank erosion
- Critical improvement of water quality using natural filtration methodology
- Valuable cooling effect during first runoff capture
- Flexible capacity for detaining water under road or parking surface
- Significant savings by reducing conventional storm sewers, catch basins and parts
- Reduced maintenance costs for pavement repair, sealing and replacement
- Minimized stormwater hook-up fees
- Decreased liability to owners through elimination of open wet areas
- Exceptional investment with attractive curb appeal, durable performance, extended life span, and easy maintenance access

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For more information about the BASS™ program, please contact APT toll-free at (877) 551-4200 or visit our website at www.advancedpavement.com.



Ecological Paver Systems Division
67 Stonehill Road Oswego, Illinois 60543
Toll-free (877) 551-4200 (630) 551-4200 Fax (630) 551-4225
CRT@advancedpavement.com www.advancedpavement.com