

CEMSTONE ADVANTAGE

Sustainable Design - Green Paving



PROJECT NAME: Shoreview Pervious Concrete
LOCATION: Woodbridge Neighborhood,
Shoreview, MN
GENERAL CONTRACTOR: Veit and Company, Inc.
CONCRETE CONTRACTOR: North Country Concrete, Inc.
READY MIXED CONCRETE: 1,800 Cubic Yards
of Cemstone's Pervious Concrete

Storm water management through pervious concrete paving.

With this pervious concrete project near the shores of Lake Owasso the City of Shoreview has made a major commitment to sustainable development and storm water management. The ambitious project has captured the attention of many engineers and architects as well as city, state and county officials throughout Minnesota and the United States.

The Woodbridge Neighborhood's project's pervious concrete system consists of a 7-inch concrete pavement and 18 to 24 inches of an open graded aggregate, the recharge bed. Since pervious concrete has approximately 20% voids, water passes through the pavement thereby promoting filtration potentially reducing heavy metals, suspended solids and even petroleum products. Combined with the aggregate recharge bed, a pervious concrete system can reduce storm water runoff as well as reduce pollutants from entering rivers and lakes like Lake Owasso.

Pervious Concrete also promotes tree growth, lessens the urban heat island effect, and recharges aquifers. And because it can eliminate the need for storm water retention ponds, pervious concrete contributes to improved land management. In the case at hand, the Woodbridge neighborhood had no available land for any type of storm water retention pond making pervious concrete a highly desirable and sustainable alternative.

One of the keys to creating a durable concrete pavement surface in Minnesota is curing and it is critical when installing pervious concrete. To aid in the curing process for this project, the McTech Ultra Cure Blankets were chosen. These unique blankets were pre-soaked and placed immediately on the concrete surface where they remained in place for a period of seven days. The blankets ensured the concrete remained moist without reapplications of water.



VOICE OF THE CUSTOMER

"The use of pervious concrete eliminated the need for a traditional storm sewer system and also allowed us to get rid of a direct discharge into Lake Owasso. This unique approach to storm water management has achieved national attention and the project has already received awards from various associations."

Sandy Smith
Mayor, City of Shoreview



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