

New Jersey Transit Park & Ride Facility, Wayne, New Jersey

Proper stormwater management design is becoming increasingly important as concern for the protection of the environment and public health issues are balanced with conscientious land development. Acknowledgment of this balance is amplified when stormwater management must be addressed in urban areas where land prices are at a premium and availability of open space is minimal.

Available space was a huge factor in the planning for a New Jersey Transit Park & Ride Facility in Wayne, New Jersey where it was determined that traditional best management practices, such as ponds or swales, were not feasible. The engineers involved were faced with the task of designing a system that would capture stormwater run-off while leaving the above surface area available for parking. The New Jersey Department for Environmental Protection and New Jersey Transit chose a CULTEC, Inc. retention system for its effectiveness as a stormwater best management practice.

East Coast Associates, Inc. collaborated with members from CULTEC to plan and install an underground retention system that consisted of two chamber beds and five manifold systems containing almost 1,400 CULTEC Recharger® 330 HD chambers. This stormwater system has the ability to capture, treat and store 98,800 gallons of run-off. “We were looking at a piece of land almost

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CASE STUDY

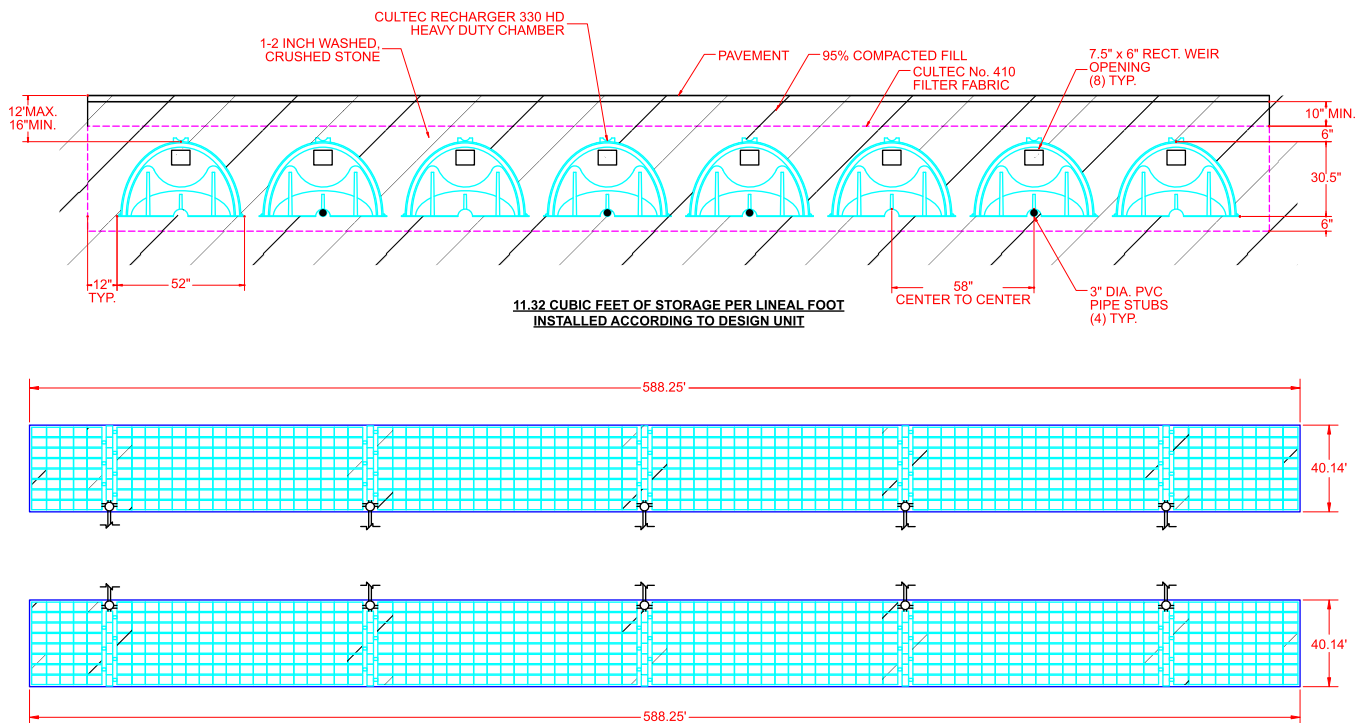
New Jersey Transit Park & Ride Facility

seven acres in size that would eventually be covered by asphalt,” said Mark Sisco, President of East Coast Associates, Inc. “In order to maximize the amount of parking space for the facility, we had to look at underground solutions.”

“In addition to the environmental benefits, the CULTEC system is composed of lightweight polyethylene making the installation fast and efficient,” continued Sisco. “The entire system was installed in less than one week’s time with only a handful of workers.” The chambers are durable and corrosion resistant and their interlocking connections help facilitate for a fast and fairly foolproof operation.

“Another benefit of the CULTEC system is it requires minimal maintenance as compared to other stormwater run-off storage systems,” said Robert Romano, principal engineer for Ernst, Ernst and Lissenden, the consulting engineering firm for the project. “Typically, maintenance is only necessary of the preliminary collection system prior to the infiltration bed.”

The New Jersey Park & Ride project required a cost-effective yet environmentally friendly infiltration system that reached the EPA’s Clean Water Act standards-conveyance, storage and infiltration. Underground stormwater chambers offer significant groundwater recharge in areas with a high percentage of impervious surface area and are now recognized and approved as a viable best management practice in New Jersey.



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Protected by one or more of the following patents: U.S. Patent No. 5,087,151, U.S. Patent No. 5,419,838, U.S. Patent No. 6,129,482, U.S. Patent No. 6,322,288 B1. Other U.S. and Foreign patents. Other U.S. patents pending. RECHARGER®, CONTACTOR®, HVLV™ and STORMFILTER® are trade names of CULTEC, Inc.

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CUL068 CULNJPCRS02-08