Route 17 / I-81 Precast Arch Bridge

The new precast arch replaces a conventional steel girder and cast-in-place deck system over Chenango Street in the heart of the city of Binghamton. In the first of three construction phases, 18 arch sections and one three-piece fascia were set in a continuous setting cycle. Setting started at 11:00 a.m., and with one crane move, was complete at 4:30 a.m. the following morning.

Chris Morgan, Project Manager at L & T Construction, said “the project went together very well – Kistner did an excellent job. The next phase will begin end of October, and all work will be complete by the middle of next summer. It is now backfilled, paved and open to traffic; remaining work will also be in stages, varying traffic lanes, to get the rest of the arch sections installed and carrying traffic.”

Article and photos contributed by Mike Kistner, Kistner Concrete Products, Lockport, NY

(continued on page 2)
Welcome to our newest Professional Member, Concrete Engineering Solutions, LLC, 101 Pine View Estates, Mountain Top, PA 18707. Stuart Gorka, President, writes that CES provides specialty engineering services to the precast concrete industry, including preparation of design calculations and drafting services.

Congratulations to Kistner Concrete Products, who have added a 300-gallon and a 500-gallon septic tank to the PCANY Listing of Certified Septic tanks, which also includes their 1000-gallon, 1250-gallon, and 1500-gallon tanks.
Oldcastle Precast & Oldcastle Architectural Announce U.S. Launch of LID Stormwater Management System

Oldcastle Precast and Oldcastle Architectural announce the U.S. launch of their new low impact development (LID) stormwater-management system, PermeCapture, an all-inclusive stormwater runoff control system that manages water volume in addition to protecting water quality by providing integrated pretreatment. PermeCapture combines the advantages and versatility of structural precast concrete modules (vaults) with the aesthetics and performance of permeable interlocking concrete pavers to provide a stand-alone, low-maintenance, LID green solution for stormwater retention, detention, reuse, groundwater recharge and flood management.

The success of PermeCapture begins with the permeable paver system. Due to the highly permeable aggregates that surround the specially designed concrete pavers, large volumes of stormwater originating on the permeable paver area, or running on from adjacent impervious surfaces (e.g. roofs), are infiltrated into the underlying aggregate base and ultimately drain to the Storm Capture modules (vaults). Not only is surface water flow virtually eliminated, but the paver system also provides initial water quality treatment through filtration; total suspended solids and metals are captured in the joint material, which can in time be vacuumed out as part of the regular maintenance program.

A major component of the PermeCapture system is the Storm Capture module with permeable lid, which features unique HydraPorts. After infiltration through the permeable pavers, the stormwater flows through the HydraPorts and collects in the Storm Capture modules for controlled management. This allows maximum runoff collection over the entire system’s footprint without the need for grated inlets. The HydraPorts and permeable base materials above are strategically sized to eliminate the need for a geotextile fabric. The Storm Capture modules store the water and allow for controlled infiltration into the underlying soils.

In addition, clean-out and maintenance of the stormwater system is easy through maintenance access into the below-grade Storm Capture modules.

A stand-alone solution, suitable for a large number of engineered applications including parking lots and roadways, PermeCapture reduces or eliminates runoff, minimizes area disturbance, offers impervious cover and underground storage for filtering, treating, storing, evaporating, detaining, and exfiltrating stormwater runoff close to its source and is accepted as Best Management Practices (BMP) to control stormwater runoff.

(This article reproduced from the April 2013 issue of Onsite Installer Magazine)
Precast Concrete Insulated Water Filtration Building

The Town of Springwater recently contracted with Streeter Associates to install this precast insulated Versa-Set Water Filtration Building over an existing well. Lakelands Concrete Products supplied 10 wall panels 11’-0” tall and 7 roof panels to Auburn Crane and Rigging, who needed only 7 hours to put it all together. The wall panels have an exposed aggregate finish on the outside, and a vertical broom finish on the inside. Thanks to Chad Bond, Lakelands Concrete Products, for this information.