

The University of Pennsylvania utilized a precast concrete rigid frame culvert for the construction of an underground tunnel connecting the future Pavilion to the Hospital of the University of Pennsylvania (HUP). The project is to be completed in 2019.

The tunnel extends across 33rd and 34th Streets in Philadelphia at the location of the current HUP Emergency Department. It's designed to handle patient transport and materials management between the two buildings.

Oldcastle Precast supplied the precast components which consisted of 10 pieces that span 16'-6 1/2" with a 9'-2" rise. Cast in place concrete was used to tie the precast frame to the existing structure.

There were many challenges during the installation of this project. The primary goal was to avoid existing utilities running through the excavation. The logistics of installing the precast rigid frame required some sections to be rolled under the existing utilities.

The first three sections were installed in October 2018 and the remaining sections will be delivered next spring.

Precast Rigid Frame Culverts are three sided concrete structures used to manage and store storm water. Three sided rigid frames offer the strength and versatility of a box culvert, with ease of construction and minimal impact on the existing environment. The three sided rigid frame decreases installation time and cost compared to a conventional cast in place system.

TAKE A NEW LOOK AT PRECAST

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PRECAST CASE STUDY

PROJECT:
HOSPITAL OF THE UNIVERSITY OF
PENNSYLVANIA PAVILLION TUNNEL

LOCATION:
PHILADELPHIA, PA

PRECAST MANUFACTURER
OLDCASTLE PRECAST
www.oldcastleprecast.com

