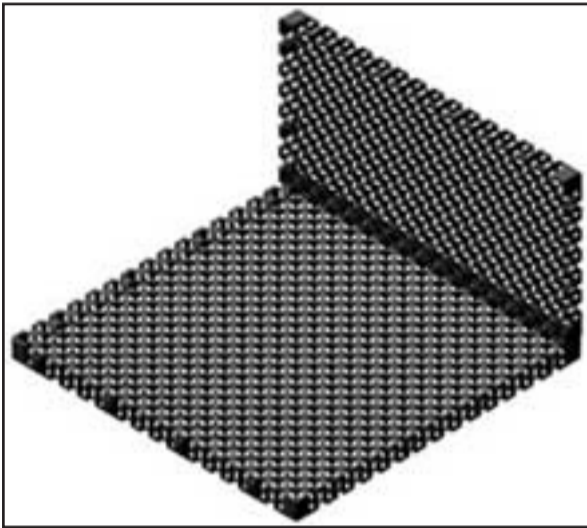


November 2005

VersiCell® Underground Rail Station Drainage

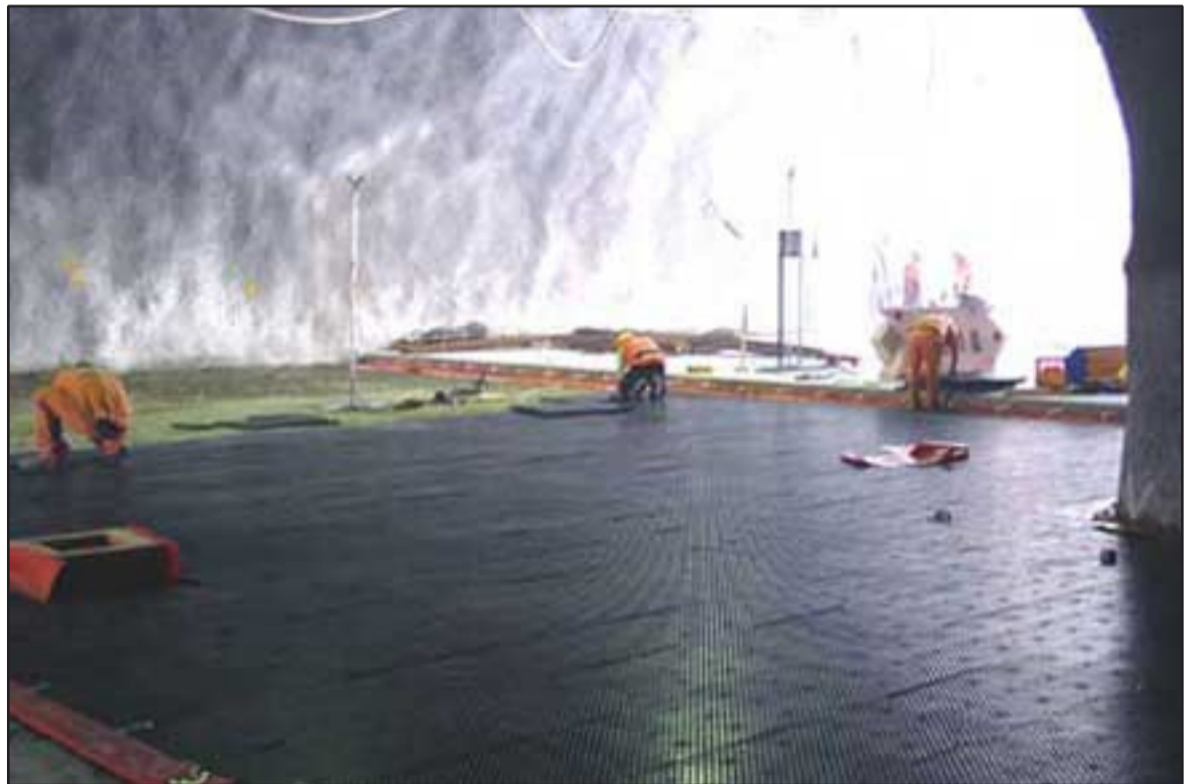
The Chatswood to Epping Rail Link is the largest underground infrastructure project ever undertaken in Australia. The Thiess Hochtief Joint Venture is constructing 12.5km of twin tunnels and four underground stations.

VersiCell lightweight interlocking plastic drainage modules were specified as the sub-surface drainage system under concrete concourse areas at underground stations because of their ability to withstand high weight bearing loads and to rapidly transport high volumes of sub-surface water.



VersiCell modules (left) may be interlocked in the same plane or at right angles to one another. The open surface design ensures rapid capture and transport of high water volumes.

Pre-assembled interlocking VersiCell panels were rapidly installed on geotextile positioned on compacted gravel aggregate (right).

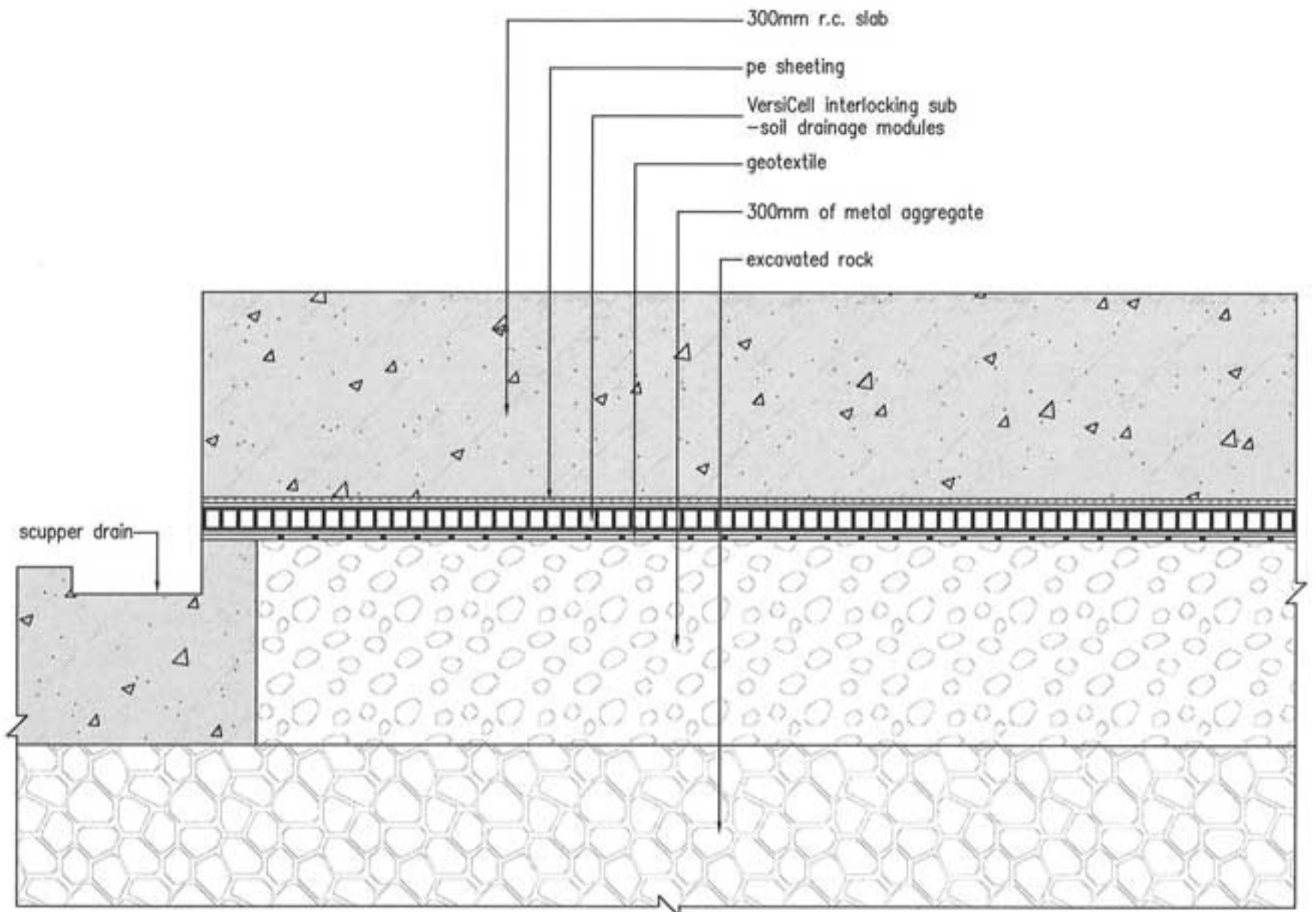


Damp-proof course polyethylene sheeting and reinforcing bar were positioned over the interlocked panels (left). Concrete flooring was then poured



Weep holes positioned in the perimeter of the concourse slabs (left) allow water to flow to sump inspection pits (right) that are connected to outflow pipes.





VersiCell sub-slab drainage

Ref: 11/05

ELMICH AUSTRALIA PTY LTD
 52/8 Avenue of the Americas, Newington NSW 2127 Australia
 PO Box 326, Concord NSW 2137 Australia
 Phone: 61 2 9648 2073 | Fax: 61 2 9648 4731
 e-mail: australia@elmich.com | web: www.elmich.com.au