

**North Valley Parkway**

Phoenix, AZ  
Spring 2007  
Geofoam Utility Protection  
89,000 Cubic Feet

**Engineer:**

Marv Cook  
Advanced Engineering  
Solutions, Inc

**Architect:**

Jim Nichol & Jacob Dean  
Brown & Caldwell

**Application:**

89,000 cubic feet of EPS 19 and EPS 22 Geofoam was installed as utility protection beneath the North Valley Highway in Phoenix, Arizona.

**Project Details:**

During spring 2007 an access road to a new residential subdivision, Fireside at Norterra, was proposed to be constructed directly above a 54 inch in diameter water line. The new road would add between 10 to 14 feet of additional fill material above the utility. The additional heavy fill material would cause structural damage to the utility.

Engineers utilized Geofoam for its light weight and high compressive strength to lighten the load on the below-grade utility, rather than relocating the utility lines which was too costly and time consuming. An 8 foot layer of Geofoam was installed instead of conventional backfill to minimize weight on that utility and eliminate structural damage.

