



DELIVERING THE MOST ECONOMICAL AND ENVIRONMENTALLY CONSCIOUS SOLUTIONS FOR THE SUPPORT AND PROTECTION OF UNDERGROUND UTILITIES

Terra Shield™ Overview

Historically, supporting and protecting underground utilities and communications infrastructure involved numerous crews working in deep trenches and excavations for extended periods of time; exposing workers to tremendous risks from trench collapses, hazardous materials that often encase the infrastructure, potential equipment failures, and accidents.

This jeopardizes the utility companies' infrastructure, slows progress, threatens profit, and exposes the surrounding community to delays which impact local businesses and increases traffic congestion.

Terra Shield™ is a patented solution in which Congruex can solve for all these challenges, ultimately reducing clients' costs, mitigating risks to schedule and worker safety, and improving sustainable infrastructure for the local community in a timely manner.

Terra Shield™ Solution

Terra Shield™ systems and equipment provide the industry's newest advances in technology and the most cost-effective means of supporting underground utilities in ways never deemed possible.

Once the shields are in place, trusses are then installed along the length of intended excavation with patented threaded j-rods to compress a load under the utility preventing movement during the excavation process.

Terra Shield™ not only supports the utility in-place, but its steel barrier acts as a protective shield against accidental contact with the utility while work is performed below. After the job is complete, Terra Shield™ remains in place as future protection for the utility's infrastructure.

Terra Shield™ Results

Support projects that utilize the Terra Shield™ processes and products can be accomplished in off peak periods typically in 4 to 8 hours with less equipment and fewer resources, saving both time and money.

Providing protection and access under existing underground utilities eliminates exposure or deterioration to the utility infrastructure. Consequently, the safety of workers is greatly enhanced by virtually eliminating the need to have workers in a trench. Because the utility infrastructure is not contacted in the Terra Shield™ process, the risks associated with hazardous materials and damage to the utility is eliminated.



Terra Shield™ is customizable to suit your site conditions and utility needs.

Whether it is using our patented steel Terra Shields™ or our non-conductive pipe hangers, our staff of professionals can tailor a plan to your various project requirements.

