



SUBSURFACE CONSTRUCTORS, INC.

A Geotechnical Engineering and Construction Company

Earth Retention



Underpinning Existing Exterior Wall / Excavation Shoring

PROJECT DESCRIPTION

When Warrenton Copper, LLC decided to expand their copper casting operations, they realized this would require lowering the existing plant floor nearly 30 feet in one area. This required an earth retention system to be constructed inside the plant to allow the excavation to take place. In addition, one side of the “pit” consisted of an exterior wall of the plant at the top of the cut. This wall acts as one side of support for a 10-ton overhead crane, which had to remain in service during the excavation. Subsurface Constructors was hired to design and build both the shoring system for the excavation, in addition to the underpinning system for the exterior wall.

PROJECT TEAM

Owner:	Warrenton Copper, LLC	Geotechnical Engineer:	Shively Geotechnical, Inc.
Structural Engineer:	Wideman and Associates, Inc.	General Contractor:	C. Rallo Contracting, Inc.
Earth Retention Design/Builder:	Subsurface Constructors, Inc.		