

SHIELD SYSTEMS INC.

5205 Bischoff Avenue, St. Louis, MO 63110

Office: 314-865-5550 Fax: 314-865-5556

Web-site: www.shieldsystems.com

BJC Bio-Med Project Now Underway Using CETCO's Ultraseal Waterproofing System

Washington University in St. Louis

DIVISION OF BIOLOGY & BIOMEDICAL SCIENCES



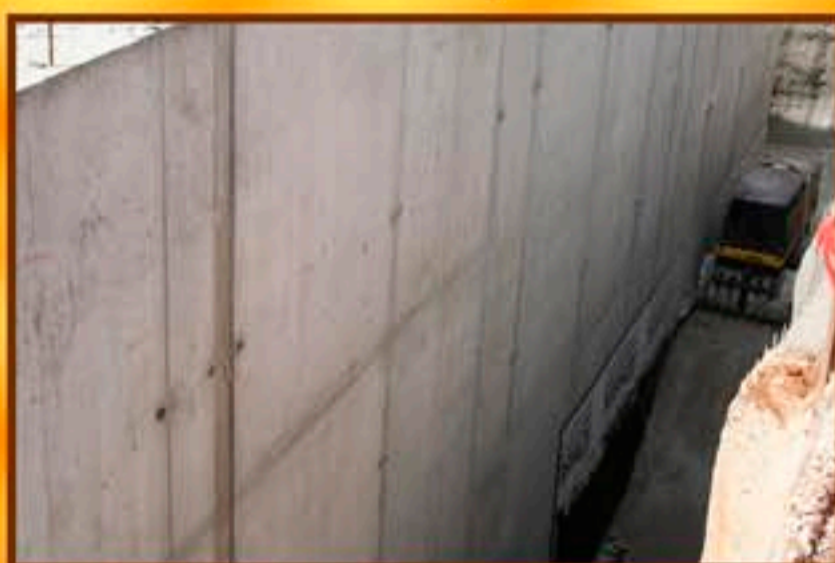
Overview of Job Site



Ultraseal SP Attached to Shotcrete Retention



Ultraseal BT and Aquadrain 15X



Compaction of Granular Backfill

Want to learn more about the products used in this project?

Click on the product name within the publication to find out more.

**FOR MORE CETCO
PROJECTS VISIT
OUR WEB-SITE AT**

www.shieldsystems.com

Superior Waterproofing is performing the below grade waterproofing work on the new BJC Washington University Bio-Med building on the ever expanding BJC campus in mid town St. Louis, Missouri. CETCO Ultraseal BT and SP are being used on various areas of the foundation being constructed by S.M. Wilson & Company, the general contractor on the project.

Cannon Architects selected Ultraseal which is a unique waterproofing system that utilizes an advanced bentonite-polymer alloy (BPA) technology. Ultraseal is ten times less permeable and more chemically resistant than traditional bentonite waterproofing membranes.

Initial work consisted of lining the elevator pits with Ultraseal and addressing some shotcrete walls with the same. Ultraseal is designed for use in blind side waterproofing as well as under slab applications. Additional work focused on applying the Ultraseal to the free standing walls. Aquadrain 15x drainage board was incorporated as well to complete the waterproofing system.

The Bio-Med building created some waterproofing challenges as the blindside waterproofing must transition into the free standing wall membrane waterproofing. The task is easily addressed due to the ease of use of the Ultraseal product.

In addition to the foundation work, there will be tunnel tops that will receive the CETCO Strataseal HR hot rubberized asphalt membrane system that will include the Ultraseal transitions. To assure proper installation of the different technologies at the critical transition areas, CETCO provided CAD details before commencement of construction.

The entire installation process was thoroughly reviewed during the pre-construction meeting with SM Wilson, Cannon Design, CETCO and Superior Waterproofing. Also in attendance was the Independent Inspection Company, TerraCon, which was enlisted to inspect all waterproofing before backfill; part of CETCO's Hydroshield Warranty Quality Assurance Program.

Upon completion of the project the building owner will be issued a Hydroshield Warranty which will cover both material and labor for a period of ten years. The Hydroshield Warranty offered by CETCO is unique to the industry as it provides for a "no dollar" limit for the duration of the warranty