

TECHNICAL REFERENCE



Boston Children's Hospital

Boston, MA

Slurry Wall



Owner:	THE CHILDREN'S HOSPITAL CORPORATION
Geotechnical Engineer:	Haley & Aldrich Company, Incorporated
General Contract:	Suffolk Construction Company

Boston Children's Hospital, the world's leading pediatric hospital, is constructing a new, \$1B state-of-the-art clinical building.

The 16-story building, which will also have five floors below grade, will employ the most up-to-date, specialized technologies to care for Children's Hospital's most complex patients.

The building is expected to be complete in the third quarter of 2021.

Boston Children's Hospital, founded in 1869 by Dr. Francis Henry Brown, was originally a humble, 20-bed care facility, but has since then evolved into the most prestigious hospital for children in the world.

Growing demand for treatment and cutting-edge research has made it necessary for Boston Children's Hospital to expand its programs and campus. Part of its expansion plan included the creation of Boston Children's Clinical Building – a \$1B, 16-story facility that will establish the hospital's Neonatal Intensive Care Unit and expand the cardiovascular program and its bed capacity from 401 to 472 beds.

Boston Children's Hospital, through Suffolk Construction Company, subcontracted TREVIICOS to create the steel-reinforced concrete slur-

ry wall foundation around the perimeter of this site's footprint.

Over the course of twenty-one weeks, TREVIICOS installed fifty-four slurry wall panels, each complete with steel embedment plates, dowel bars, and tieback sleeves. These steel attachments provided support during the excavation and construction processes of the building's five-level underground parking garage and were also crucial for the finished building's main structure.

Though TREVIICOS was able to successfully complete this project, it presented many challenges: Frequent rain and snowfall muddied the site and made mobility difficult for workers and machines. Extremely dense rock encountered below grade slowed excavation. Doing work simultaneously with other subcontractors, on the site's already small footprint, tested our logistics expertise. Lastly, proximity to the hospital limited work to only be performed between the hours of 7am and 7pm, for noise purposes.

Despite all the challenges this project presented, TREVIICOS was able to successfully install the foundation for Boston Children's Clinical Campus, and the building is scheduled to be open for use by the end of 2021.



Slurry Walls

Number of Panels:	54
Perimeter Length:	786' 6"
Maximum Depth:	92' 0"
Volume of Concrete:	184,437 ft ³
Reinforcing Steel:	1,053,022 lbs
Exposed Wall Area:	47,504 ft ²

— treviicos.com



38 Third Avenue
Boston National Historic Park
Charlestown, MA 02129
P: (617) 241-4800