

**Commercial Buildings****Reference Details:**

Owner Children's Hospital of Philadelphia, PA, USA +++

General Contractor Turner Construction Company, USA +++

Architect Ballinger, Philadelphia, PA, USA +++

Engineer Pennoni Associates Inc., Philadelphia, PA, USA +++

Sub-Contractor A.P. Construction (Scott Creelman), Inc., USA

DSI Unit DSI USA, BU Geotechnics, Toughkenamon, PA, USA

DSI Scope Supply of 250 temporary DYWIDAG Multistrand Anchors with 2 or 4 strands, 24 permanent DYWIDAG Multistrand Anchors with 11 strands, DYWIDAG Post-Tensioning Bars; rental of a 500 ton center hole ram

**DYWIDAG Multistrand Anchors stabilize excavation in Philadelphia****New research center ("South Campus Research Facility") at the Children's Hospital in Philadelphia, PA, USA**

Today, the Children's Hospital of Philadelphia, which was founded in 1855 as the first pediatric hospital in the USA, ranks among the leading facilities for the specific treatment of children worldwide. To continue to live up to its leading position in treatment, research and teaching, one of the largest and most challenging construction projects of the US public health system was begun in 2000.

First of all, construction of an eight-story building was begun. Amongst others, this building accommodates an ultra-modern translational research facility for translating basic science research into real-life treatments and cures.

Poor ground conditions required extensive stabilization of the excavation. The wall formwork was temporarily tied back using 250 DYWIDAG Multistrand Anchors consisting of 2 or 4 strands. Some locations required post-grouting of the multistrand anchors.

DSI USA supplied a total of 24 permanent DYWIDAG Multistrand Anchors with 11 strands each as well as DYWIDAG Post-Tensioning Bars for the permanent vertical anchorage of the foundation. Installation was performed using a 500 ton center hole ram for stressing.

The design of the foundations allows for the possibility of a future expansion of the building to 22 stories in order to accommodate future growth of research activities.