



## Project Overview:

Ten years after the terrorist attack on September 11, 2001, that caused the collapse of the Twin Towers in New York, work at Ground Zero is still in full swing. Apart from several office towers, a museum is being built underneath the foundations of the destroyed skyscrapers to commemorate the attack.

The area's signature building is an office tower that has been renamed from Freedom Tower to One World Trade Center. With a height of 1776 ft (541.32 m), which stands for the year of the Declaration of Independence, the tower will be the highest skyscraper in Manhattan after its completion.

The post-tensioning subcontractor supplied strand anchors for stabilizing the excavations shortly after the attack. The subcontractor also supplied threadbar tendons and reinforcement systems for the construction of One World Trade Center.

The FDNY Memorial Wall, located opposite Ground Zero, has already been completed and was dedicated by the American president on September 11, 2011. The wall is dedicated to the 343 firefighters of the Fire Department of New York who lost their lives during the rescue work.

For stabilizing and tying back the FDNY Memorial Wall, DSI USA supplied 183 epoxy-coated, double corrosion protected (DCP) 66 mm diameter threadbar anchors 15.5 to 34.4 m (51 to 113 ft) in length with a total weight of 177 tons, as well as 183 anchorages.

## Jury Comments:

- A good example of the use of post-tensioned ground anchors to stabilize a building excavation to enable a culturally significant structure to be built.

## Memorial Wall at Ground Zero

<b>Location:</b>	New York, NY
<b>Submitted by:</b>	DYWIDAG-Systems International USA, Inc.
<b>Owner:</b>	World Trade Center Memorial Foundation, USA
<b>Architect(s):</b>	Handel Architects, LLP, and Davis Brody Bond, LLP
<b>Engineer(s):</b>	Mueser Rutledge Consulting Engineers
<b>Contractor:</b>	E.E. Cruz/ Nicholson Construction Company, JV
<b>PT Supplier:</b>	DYWIDAG-Systems International USA, Inc.