

One WTC Update

- The innovative “cocoon” system, a safety feature that protects the workers and public at ground level from materials that may accidentally fall from construction floors, envelops the building on all four sides.
- More than 6,000 pieces of superstructure steel have been installed to date. Concrete work has significantly accelerated.
- The number of workers laboring daily to build the tower, already in the hundreds, is increasing as more trades are mobilized.
- Preparation is under way for material hoists to the top of the tower. Large elevators will be installed on the east and west sides of the building; some will carry workers to the top, while others will be reserved for materials and equipment.
- Fuel cells will be delivered to the site in early summer. Fuel cells are essentially boxes that take liquid natural gas and, through a chemical reaction, release electricity and heat (for hot water) that will be used in the finished building.
- A new climbing crawler crane is scheduled to arrive over the summer.



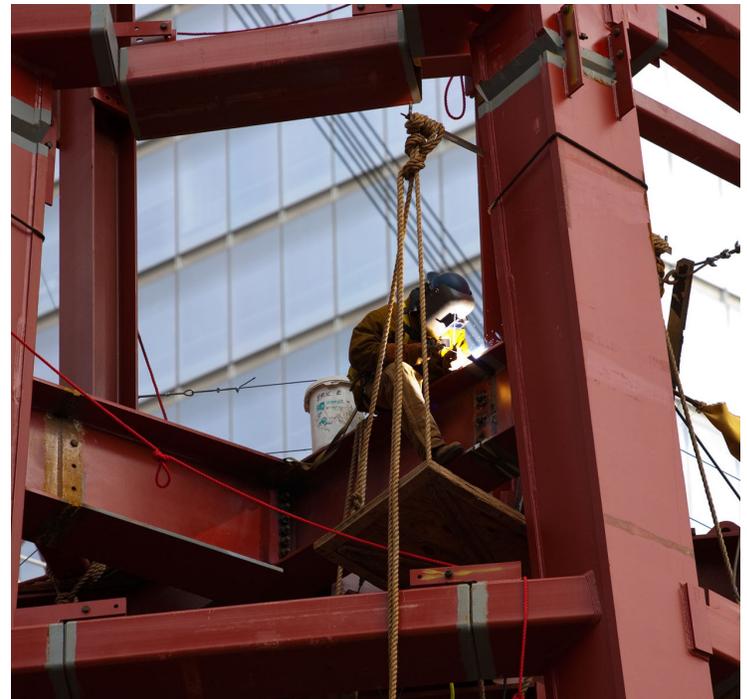
The cocoon system wraps One WTC on all four sides.



Rendering of completed One WTC.



Workers installing steel at One WTC.



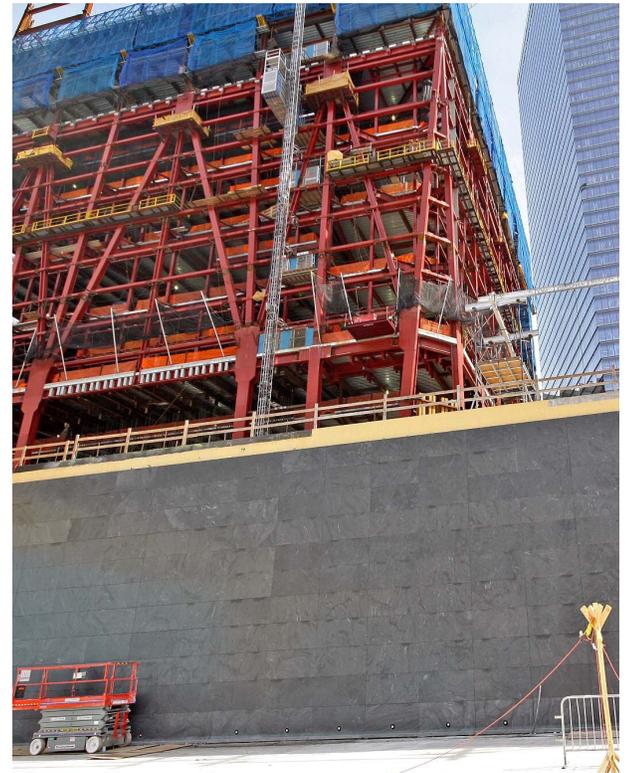
Built With Their Hands

Granite Installation Progresses in the Memorial Pools

The Memorial waterfalls, two large square pools positioned over the footprints of the original Twin Towers with water cascading down the sides and names of 9/11 victims inscribed around the edges, will serve as a major focal point on the grounds of the completed WTC site. The Port Authority and its contractors are making fast progress in the build-out of the massive pools as granite installation is already underway.

The North Pool granite is fast nearing completion, with the south wall completed, north wall substantially completed, and the east and west walls in progress. The North Pool is scheduled for completion in July; the South Pool will see the start of granite installation in June.

Before granite could be installed inside the pools, concrete walls had to be erected. Waterproofing, damp-proofing and insulation have commenced. Both pools were also fully ringed in steel in January of 2010. Plumbing work is being performed on the pools as other construction activity forges ahead. ♦



The north wall of the North Pool is approaching completion.



Work continues inside the South Pool.

The Port Authority Focuses On WTC Truck Volume Logistics

As construction at the WTC site continues to increase, truck volumes are rising accordingly. With hundreds of trucks entering and leaving the site, daily coordination is becoming more complex. The Port Authority and its consultants are using sophisticated technology and logistics planning to ensure smooth truck movement in and around the site.

With successful completion of the Site Logistics Command Center (SLCC) early in the year, The Port Authority has been able to implement some interesting technology-based methods of monitoring the truck volumes, as well as arrivals and departures. The Truck Arrival Scheduling Software (TASS) is a system that was developed precisely for this purpose. Using dynamic simulation methods to evaluate proposed truck schedules, the software provides feedback on the viability and suitability of those schedules.



A concrete truck for One WTC arrives on site.

The software allows schedule evaluation of each truck delivery/construction zone on site and also has the ability to examine all of the zone schedules together. Truck arrival, site exits and gate activity simulations are then run and posted for each zone, and detailed output is provided, particularly with regard to potential conflicts in zones or overflow of staging areas. Authorized third parties are also able to view these results, facilitating a higher degree of interaction and collaboration among construction logistics staff and external agencies and stakeholders.

Another logistics feature at the SLCC is the Closed Circuit Television (CCTV) Camera Security System. The system was upgraded earlier in the year, and is undergoing its final testing stages. The system allows logistics and security staff to view all arrival and departure gates at the site.

Additionally, monthly truck volume data is constantly being compiled, reviewed and analyzed to produce highly effective projections for the months to come and helps The Port Authority ensure that construction keeps rolling and quality of life around the site is not unduly affected. ♦

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