



Mixing Strength With Satisfaction

ATLANTIC AVENUE STATION COMPLEX, BROOKLYN, NY

MS-D1 SHOTCRETE

PROJECT:	Atlantic Avenue Station Rehabilitation Brooklyn, NY
SPECIFIER:	Metropolitan Transportation Authority New York, NY
CONTRACTOR:	Norberto Construction Medford, NY
PRODUCT:	MS-D1 Shotcrete
QUANTITY:	200 m ³ (7000 ft ³)
COMPLETION:	Winter 2003

The Metropolitan Transportation Authority in conjunction with Long Island Railroad and New York City Transit enlisted the services of di Domenico Parsons Brinckerhoff to design a major revitalization of the Atlantic Avenue Station Complex located at the intersections of Atlantic and Flatbush Avenues in Brooklyn, NY. The Terminal is a major transportation hub linking three subway stations and the LIRR commuter rail. Included in the project was the excavation and construction of a new pedestrian passageway that would allow pedestrians access to all three stations without having to exit to street level. Also included in the project was the rehabilitation of the overhead concrete soffits above the many subway lines crossing through the stations. Norberto Construction submitted MS-D1 Shotcrete to di Domenico Parsons Brinckerhoff who approved its use on this project.

While excavating the passageway below the intersection of Atlantic and 4th Avenues, the project's General Contractor, Schiavone Construction Co. encountered an unstable area in which some of the backfill placed during the original construction began to slough. In order to stabilize the soil and allow for the continued excavation, Schiavone Construction approached Norberto Construction to use shotcrete to stabilize the excavation.

After successful completion of the shotcrete shoring, Norberto Construction moved their crews down to the station levels to begin the concrete rehabilitation. The major challenge faced while completing the shotcrete repairs was to control the dust levels within the stations and subway tunnels. Norberto Construction employed the use of an Aliva semi-wet nozzle assembly, a pre-dampener and a complex dust collection system, which allowed the station to remain open to passengers during shooting.

