

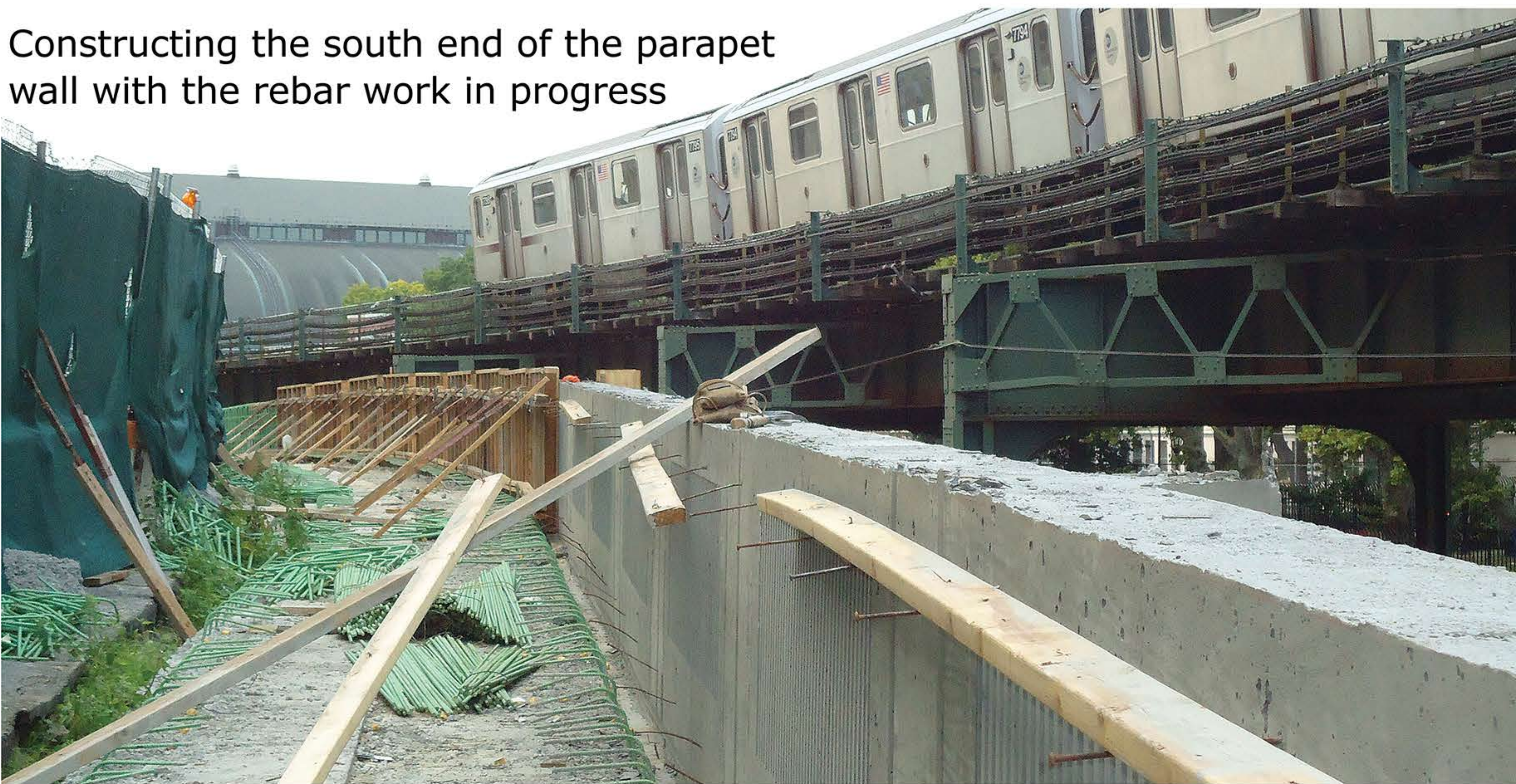
The Redesign and Improvements of JEROME AVENUE

This project was a rehabilitation of the concrete retaining wall along the northbound side of Jerome Avenue from East 196th Street for a distance of approximately 800 feet, which replaced sections of the existing wall that were bulging and severely deteriorated. This Jerome Avenue project involved partially removing 9" of existing wall and installing soldier piles. Contract work also included installation of utilities and appurtenances, such as a new 36" steel water main, a new 12" DIP distribution water main, and a new 15" ESVP combined sewer. Other work items also included street lighting, curbs and sidewalks, and traffic signal work. This project also promoted pedestrian safety as well as streetscape and open space improvements along Jerome Avenue at the Kingsbridge Road Station. For the replacement of 36" trunk main located next to the TA's foundation, our test pits showed that the existing CIP trunk water main was located within 2.5 feet of the TA's foundation. Extension of the south tie-in trunk water main and construction of the extended section of the main were underneath the TA's overhang structure. Installation of a sewer manhole at E. 196th Street/Parkview Terrace intersection required offsetting the 12" water main, which was interfering around the new sewer manhole and detouring traffic during working hours. The roadway improvements enhanced the traffic flow through the areas, and the drainage system was upgraded to reduce the flooding problems. The retaining wall no longer bulges or poses any safety hazards.

Overview of south end of the wall showing precast lagging and installed pilasters



Constructing the south end of the parapet wall with the rebar work in progress



Installation of 12" distribution water main



Building the forms for the parapet wall and moment slabs



Installation of 6" fire hydrant branch and valve

Project: **The Redesign and Improvements of Jerome Avenue**
Location: Bronx, NY
Client: **NYC DDC** Department of Design and Construction
Long Island City, NY
Entrant: **KSE**
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