

# LIRR Third Track Extension



Garg Consulting Services, Inc.

The \$2.6 Billion Third Track expansion includes 50 projects to modernize 9.8 miles along the congested Main Line of the LIRR between Floral Park and Hicksville. Those projects include adding a third track, eliminating all seven street-level grade crossings within the project corridor, adding new power substations and parking, and modernizing track and signal infrastructure. Project elements along the Main Line corridor include 9.8 miles of a new third track, 7 grade crossing eliminations, 7 bridge replacements and modifications, 5 station improvements, 7 substation replacements, and 7.5 miles of sound/retaining walls.



Garg is providing Independent Technical Reviews and structural designs for this expansion.

Independent Technical Reviews will provide a fresh set of eyes to confirm that designs adhere to LIRR standards and formats:

- Track and Signal Routing (TSR), including the speed command logic, conformity of the position of the Master Locations to the TSRs, and proper application of LIRR Signal Engineering Operations Manual (SEOM) rules.
- Signal Power designs.
- Traction Power Third Rail designs.

Structural responsibilities include the design of:

- Mineola Station – design of (4) stair towers supporting (2) pedestrian overpasses (designed by others), including (2) elevator shafts support and housing for various railroad utilities.
- Westbury Station – design of (4) stair towers supporting (2) pedestrian overpasses (designed by others), including (2) elevator shafts support and housing for various railroad utilities.
- Willis Avenue – design of (2) stair towers supporting a pedestrian overpass (designed by others).

Organization Name	Location	Project Duration			Dollar Amount	Prime/Sub-Consultant
		Contract Date	Start Date	Completion Date	Project Cost	Sub-Consultant
LIRR	Floral Park / Hicksville, NY	10/10/2018	2018	2020	\$2.6 Billion	Sub-Consultant