

Construction of New Structures

As part of the Highway 427 Expansion, new structures such as highway bridges and interchanges will be constructed.

The construction methods of these new structures are generally very similar and consist of a few main components:

- **Abutments:** the ends of bridges that connect the bridge structure to the supporting beams
- **Piers:** columns and beams that provide upright support to the structure and bridge
- **Piles:** poles that are driven into the ground using cranes (pile drivers) to support the weight of the new structure
- **Deck Panels:** make up the surface of the new structure
- **Girders:** large beams that support the framework of the structure

The construction process for each structure is quite similar consisting of:

- Construction begins with the excavation of an area for the base of the bridges consisting of piers and abutments
- Piles (poles) will be driven into the ground using cranes (pile drivers) to support the weight of the new structure and the footing of the columns and beams (piers) will be formed
- Walls and panels will be installed to support the footing of the structures
- Decks will be cast into one continuous structure containing the girders, deck panels, and abutments
- Barrier walls and transition between the structures and the roads will be added



Excavation at the Steeles Avenue Overpass to Prepare Bridge Expansion

ask@427expansion.ca

1 Royal Gate Boulevard
Woodbridge, ON L4L 8Z7
T: 1-888-352-8085



Highway 427 Expansion

Best Management Practices

Best Management Practices will be carried out to ensure environmentally responsible access of valleys and erosion and sediment control.



Wired Back Silt Fencing for Sediment Control

Want to know more?

The Design and Construction Report #3 is posted on the Highway 427 Expansion [website](#) which contains a list of all the proposed structures and detailed [drawings](#).

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Meet the Team



Jorge Gomez-Perez, CEO

Jorge has 18 years of experience in the infrastructure sector, and more than 10 years of experience in several Public-Private Partnership delivery models. Prior to joining LINK 427, Jorge held positions as Director of Operations and Projects Director for infrastructure consulting firms, both in Canada and the UK, being exposed to projects in several jurisdictions including Africa, the Caribbean, Europe, and throughout the Americas.

Since he has become the CEO in May 2018, he has ultimate responsibility for the leadership, day to day management decisions and implementing the company's long and short strategy, during construction and a smooth transition to the Operations and Maintenance Period for the infrastructure.



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