CHAMPLAIN BRIDGE SECTOR

One of the major gateways to the city of Montreal, this sector plays an important role in the Canadian economy. It regroups the Champlain Bridge, the Champlain Bridge Ice Control Structure, the Île des Soeurs Bypass Bridge and the federal part of the Bonaventure Expressway.

LENGTHS

- Champlain Bridge abutment to abutment: 3,440 m
- Bonaventure Expressway: 4,573 m
- Ice control structure: 2,280 m
- Bypass Bridge abutment to abutment: 165 m

STEEL STRUCTURE

Cantilever with centre suspended span
Length of suspended span over the seaway: 215.5 m
Anchor arms (2): 117.5 m
Total length of cantilever section: 450.5 m
Length of steel deck sections: 78 m / 78.5 m
Total length of steel structure: 763.6 m
Clearance above high-water level: 36.6 m

BRIDGE SECTIONS

The different parts of the bridge and its north and south approaches are divided into thirteen (13) sections. The Corporation is responsible for sections 5, 6 and 7 and for the Île des Soeurs Bypass Bridge and federal part of the Bonaventure Expressway (sections 10, 11, 12, 13).

SECTION 5
This section extends from Île des Soeurs to the bridge’s steel structure. From Île des Soeurs, the bridge has a slope up to the next section that elevates section 9 to allow ships to pass underneath.

SECTION 6
Section that overhangs the seaway.

SECTION 7
This section has 10 spans that extends to the South Shore.

TRAFFIC

Six (6) traffic lanes
Speed limit: 70 km/h
Trucks: AUTHORIZED
Excess load trucks: PROHIBITED
Scooters: PROHIBITED
Cyclists and pedestrians: PROHIBITED
Towing: exclusive contract on the bridge
Monitoring: Sûreté du Québec (450 442-1036)

The lighting system is made of high-pressure sodium lamps on steel posts.
**BONAVENTURE EXPRESSWAY**

**FEDERAL SECTIONS**

**SECTION 10**
The highest section of the Bonaventure Expy.

**SECTION 11**
Section that follows the St. Lawrence River between Clément Bridge and the elevated lanes of the highway.

**SECTION 12**
Section that starts at the north end of Clément Bridge and ends before the Wellington Street exit in Verdun.

**SECTION 13**
Section that connects Section 4 to Section 11 including the Clément Bridge.

**CHAMPLAIN BRIDGE ICE CONTROL STRUCTURE**

The ice control structure runs along the Champlain Bridge about 305 meters upstream. This structure extends from Île des Soeurs to the northern part of the Saint Lawrence seaway canal.

The dedicated path is 3 m wide and have a surface made of lightweight and durable material. An LED street light system will considerably improve lighting quality while decreasing energy consumption.

**TECHNICAL DATA**

- Structure length: 2,280 m
- Deck width: 8.5 m
- Total width: 18 m
- Number of piers: 72
- Dimensions of piers of 10.5 m in height:
  - 4 piers that are 5 m wide and 19.5 m long
  - 68 piers that are 3.7 m wide and 16 m long
- Height of caissons (boxes) under the piers: 2 m to 8.5 m
- Water depth: variable from 2 m to 10 m
- Length of approaches: West side: 450 m  East side: 431 m
- Bicycle path: 2,350 m (including approaches and connections)
- Width of lane up to the Ice control structure: 3.6 m
- Width of lane on the Ice control structure: 3 m
- Users of the Champlain Bridge Ice Control Structure bicycle path can now enjoy a brand-new rest area. During a walk or ride, come to the area to take a break and admire the scenery from a unique vantage point on L’Île-des-Soeurs.
- The space has urban furniture that includes picnic tables, bicycle racks, and a station for minor bicycle repairs.