

9 THINGS TO KNOW ABOUT...

SUSTAINABILITY

Windsor-Detroit Bridge Authority (WDBA) and Bridging North America (BNA) know that protecting the environment is a top priority. There is an overarching sustainable approach to the design, construction, and operation of the Gordie Howe International Bridge project, to minimize impacts throughout the project life. The Canadian and US Port of Entry facilities are designed to meet LEED v4 Silver rating, and the Bridge and Michigan Interchange are designed to meet Envision Silver rating, both of which will ensure longevity while minimizing environmental impact. Here are some highlights of our sustainable practices.

1

LEADERSHIP

Project teams communicate, collaborate, and involve a diverse group of people in creating ideas for the project, and in understanding the long-term, holistic view of the project over its entire life.

2

LOCATION AND TRANSPORTATION

Location is carefully considered to encourage compact development, alternative transportation and connection with the surrounding community. The project takes advantage of existing infrastructure – public transit, street networks, bicycle trails, and even existing utilities.

3

MATERIALS

The project minimizes the impacts of extraction, processing, transport, maintenance, and disposal of building materials by focusing on efficient design and right size acquisition. Reuse and recycling of materials onsite will reduce the waste even further.

4

WATER EFFICIENCY

Conservation is important as most of a building's water will cycle through the building and flow offsite as waste. Low flow fixtures will be installed inside to significantly reduce water consumption.

5

ENERGY AND ATMOSPHERE

The project has considered building orientation, window selection, and building materials to reduce overall energy demands and consumption. Further efficiency is achieved when pairing with high-efficiency systems with smart controls.

6

INDOOR ENVIRONMENTAL QUALITY

Air quality, thermal, visual, and acoustics of the project buildings have been considered to protect the health and comfort of employees and travellers, enhancing productivity and decreasing absenteeism.

7

QUALITY OF LIFE

Consideration of the project's impact and benefit to host communities is paramount throughout the delivery of the project. Extensive community consultation has been and will continue to be undertaken to help inform project plans and create a network of benefits and incentives to be leveraged by the greater region.

8

NATURAL WORLD

The project was designed to interact with natural systems in a synergistic, positive way to minimize impacts on habitat and wildlife.

9

CLIMATE AND RISK

Minimizing emissions that may contribute to increased short-and long-term risks is key to ensure that the project is resilient to hazards and can adapt to long-term future conditions. A significant amount of modeling and testing has been done by experts to ensure that the Gordie Howe International Bridge can withstand the most severe weather occurrences.

