



## SUSTAINABLE DESIGN FEATURES

The Gordie Howe International Bridge project is an example of sustainable infrastructure with integrated features that contribute to a cleaner environment, protect communities from the impacts of climate change and conserves resources for future generations.

### SUSTAINABLE DESIGN

The Canadian and US Port of Entry facilities are designed to meet at least **LEED v4 Silver** rating and the Bridge and Michigan Interchange at least Envision Silver rating.

During the design period, it was identified that the project could go well beyond the Silver rating for the Bridge and Michigan Interchange, and in 2021, earned an **Envision Platinum** Award, the highest possible distinction from the Institute for Sustainable Infrastructure.



### INSTITUTE OF SUSTAINABLE INFRASTRUCTURE

The Institute for Sustainable Infrastructure is the organization that developed and manages Envision, a framework that encourages systemic changes in the planning, design, and delivery of sustainable infrastructure through education, training and third-party project verification.



#### ENVISION

Envision provides a consistent, consensus-based framework for assessing sustainability, resiliency and equity in civil infrastructure.

The framework provides a system of criteria and performance objectives to help project teams identify sustainable approaches during planning, design and construction that will continue throughout the project's operations, maintenance, and end-of-life phases.



#### LEED

Leadership in Energy and Environmental Design or LEED® is an international symbol of sustainability excellence and green building leadership. LEED'S holistic approach helps lower carbon emissions, conserve resources and reduce operating costs by prioritizing sustainable practices

## DESIGN FEATURES

The end-to-end design approach of the Gordie Howe International Bridge project includes measures to minimize environmental impacts and create innovative, sustainable infrastructure. This includes:



Highway-to-highway connectivity with optimization of traffic flow to create a system that allows free-flowing traffic and development of anti-idling protocols to reduce diesel emissions.



Water management systems will be used to reduce water demand, like low-flow water fixtures to reduce the potable water demand.



POE facilities situated and designed to take advantage of natural light to reduce energy needs



Use of Native vegetation that is drought resistant and low maintenance will be used to support the protection expansion of adjacent natural areas.



Use of LED lighting on the bridge and exteriors of the Ports of Entry that are low maintenance and minimize light spill impact on migratory birds



Installation of naturalized stormwater management ponds using native species



Green roofs will be incorporated on select buildings.



A peregrine falcon box will be installed on the bridge to facilitate the nesting of falcons within sight of the Canadian shoreline



Inclusion of a 3.6 metre/12 feet wide toll-free cross-border multi-use path that will connect into local trails.

For more information about the Gordie Howe International Bridge project visit [www.GordieHoweInternationalBridge.com](http://www.GordieHoweInternationalBridge.com) or call 1-844-322-1773. Follow us on Twitter at [www.twitter.com/GordieHoweBrq](https://www.twitter.com/GordieHoweBrq), like us on Facebook at [www.facebook.com/GordieHoweBridge](https://www.facebook.com/GordieHoweBridge) and connect with us on LinkedIn at [www.linkedin.com/company/wdba-apwd](https://www.linkedin.com/company/wdba-apwd).