

About the project

The Centerm Expansion Project and South Shore Access Project is a series of improvements to the Centerm container terminal and associated roadways to help meet anticipated near-term demand for container trade through the Port of Vancouver, and reduce travel delays.


Construction for the Centerm Expansion Project and South Shore Access Project began in July 2019 and its substantial completion expected by the end of 2022.

When complete, the terminal footprint will be 15% larger and the railyard capacity will increase by 85%. This, combined with a reconfiguration of the terminal yard will allow DP World to achieve a 60% increase in throughput capacity.

2021 Milestones

- 🏠 Jan. Completion of the Ballantyne Pier demolition
- 🏠 Jan. Start of the rail work for the new rail-mounted gantry cranes
- 🏠 Feb. Delivery of some of the new refrigerated container towers to DP World
- 🏠 June Preparation complete for the delivery and installation of five rail-mounted gantry cranes purchased by DP World from Shanghai, China
- 🏠 July Opening of the Centennial Road overpass
- 🏠 Aug. New container operations facility ready for start of interior fit-out by DP World
- 🏠 Aug. Completion of the last phase of the Maplewood Marine Restoration Project (eelgrass transplanting activity)
- 🏠 Sept. Preparation complete for the delivery and installation of two quay cranes purchased by DP World from Shanghai, China
- 🏠 Dec. Completion of the new truck gate infrastructure on terminal

Wins

 **Major project components delivered** during pandemic

 **Expanding a very busy terminal** during operations

 **~ 22,520 m³ of concrete** recycled from demolition of the Ballantyne Pier

 **Delivery and installation of seven cranes** specialized marine terminal equipment

Improvements

Cranes

Overview

Two new quay cranes and five new rail-mounted gantry cranes purchased by DP World were installed at the terminal. The quay cranes, used for offloading container ships, replace two older quay cranes and will operate over the full length of the berth, including in the western expansion area. The rail-mounted gantry cranes are used to load containers on to trucks and rail cars within the terminal, including in the western expansion area.

Key facts

Rail-mounted gantry cranes



27.8 metres high
from top of the rail to the highest point

12.4 metres
lift height for containers

27.1 metres of span
across five rows of containers

1.6 kilometres
of rail installation

5 rail tracks
between crane legs, and one road lane for trucks

~2,000 m³ of concrete
poured for the rail-mounted gantry crane foundation

Quay cranes



124 metres high

47 metres
lift height for containers

100% state-of-the-art equipment and control systems

23 containers wide
load reach of these super post-Panamax cranes

Centennial Road overpass

Overview

In 2021, we completed the Centennial Road overpass, marking one of our biggest accomplishments of the year. Following 23 months of planning and construction, the new overpass eliminates road and rail conflicts and improves container truck movements and traffic flow, thereby reducing delays caused by trucks idling at train crossings.

Challenges

- A narrow construction corridor, with high volumes of road and rail traffic
- Collaborating with numerous stakeholders
- Relocating utilities
- Creatively staging port traffic to enable construction and ensure traffic flow
- Record level of container throughput on terminal

Key facts

Overpass



14 piers

585 metres long

30 workers/day
on average

70 workers/day
at peak construction

215,000 hours
of construction time

58 precast girders
27 to 42.5 metres long, and weighing ~60,000 to 80,000 kilograms



Community

Community engagement and communication

We kept the community informed by sharing:

 **12 newsletters** distributed to over 500 subscribers

 **145 notification letters** sent to the public, port tenants, and other stakeholders

 **2 radio ads** in English and Punjabi

 **42 social media posts**

- 17 Twitter posts (English and French channels)
- 16 Facebook posts (English and French channels)
- Nine LinkedIn posts


 **9 YouTube videos**

Centerm Community Fund

 **\$135,000 donated** to 12 local organizations that promote community initiatives in East Vancouver

 **\$500,000 distributed** since the creation of the fund in 2019, to support 42 organizations in this community

Maplewood Marine Restoration Project

 **Completion of the last phase** which included eelgrass transplant work on the North Shore of Burrard Inlet

 **125,000 eelgrass shoots transplanted** by divers, as part of the last phase, to create a 1.5-hectare eelgrass bed in Burrard Inlet. This work was completed in collaboration with Tsleil-Waututh Nation

"Looking back, I am extremely proud of the many accomplishments achieved through the collaboration between DP World, the design-builder, the port authority's team, and the 300 people who have shown a commitment and dedication to excellence. I invite all who participated in delivering this project to share in that pride, particularly amidst the second year of the pandemic. Our resilience and collaboration will continue to serve us as we prepare for the year ahead."

— Gilles Assier
Director, Container Terminal Construction
Vancouver Fraser Port Authority