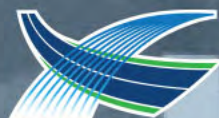


Building the new Fraser River Tunnel



transportation
investment
corporation



Highway 99
Tunnel Program

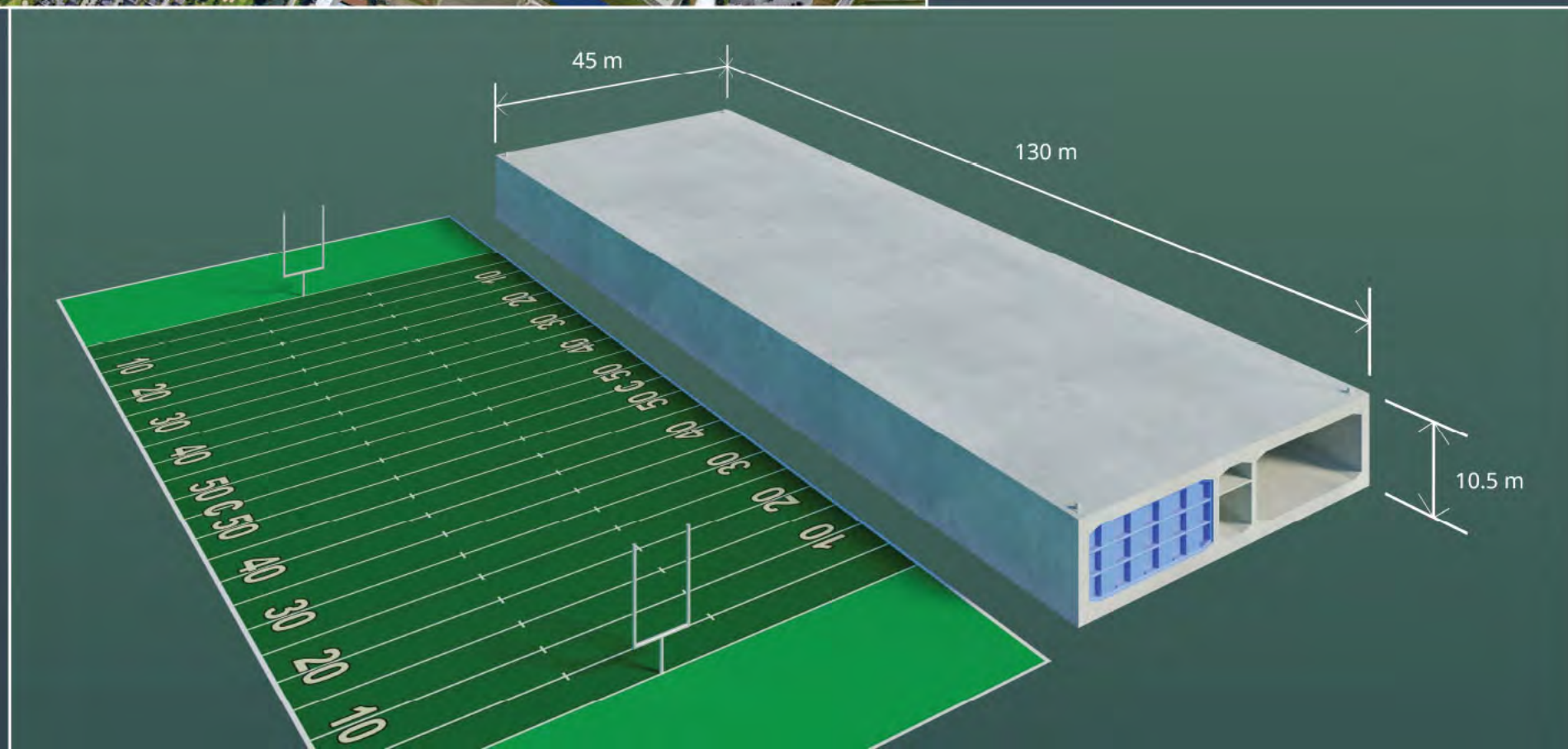


The Plan

The Government of B.C. is moving ahead with the replacement of the George Massey Tunnel to make your travel faster and more reliable. The new eight-lane tunnel will be about 40 metres upstream of the existing tunnel, which will stay open until the new tunnel is ready.

The Scale

The new tunnel will be made of six tunnel elements. Each element will weigh approximately 60,000 tonnes and will be 130 x 45 metres or about the size of a football field.





STEP
1

The tunnel elements will be made on Deas Island to promote efficiency and reduce construction traffic in the region.

Laydown area

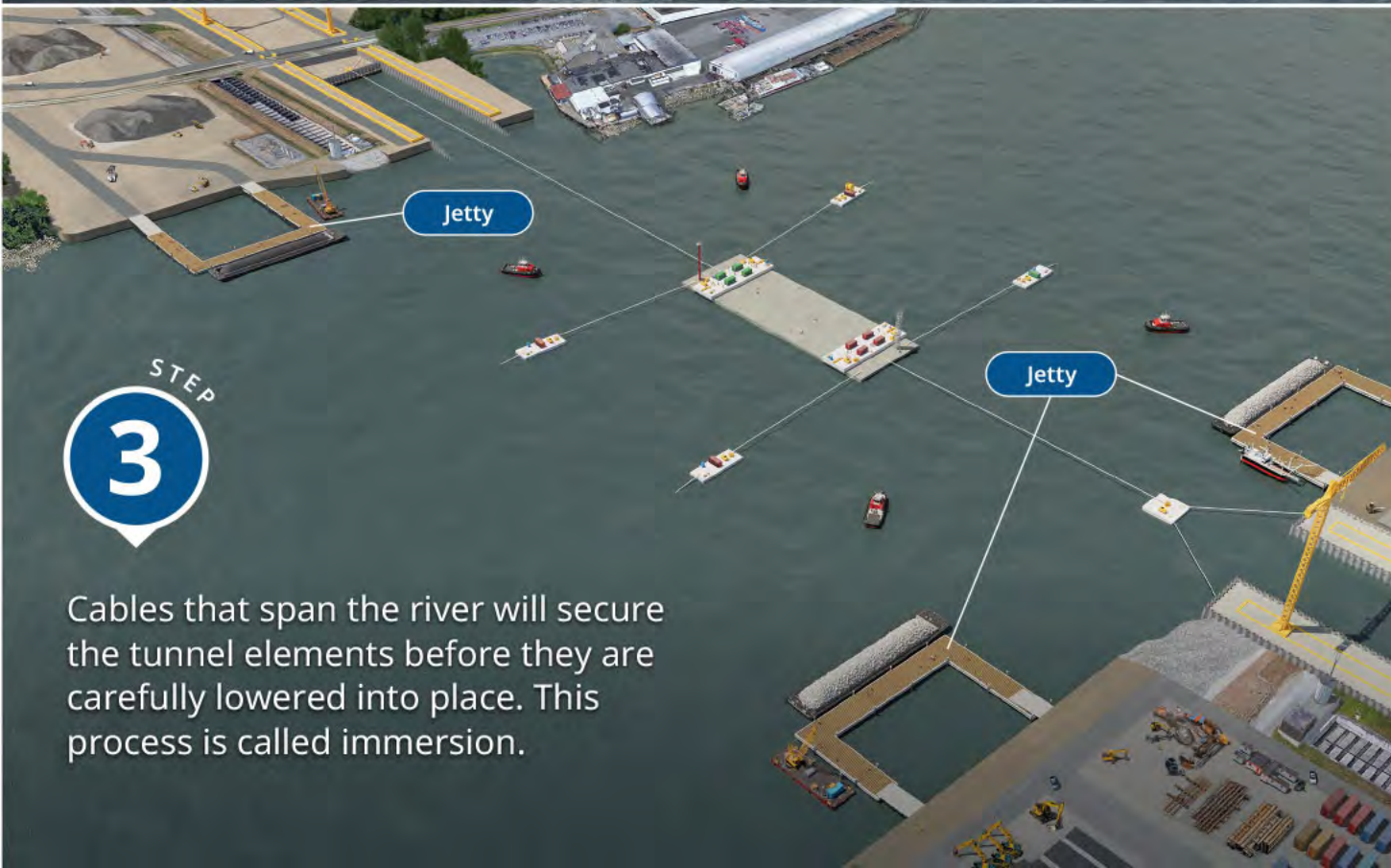
Casting basin



STEP
2

The tunnel elements will be stored until the riverbed is ready for them, and when ready, tugboats will guide each element into position.

Tunnel element

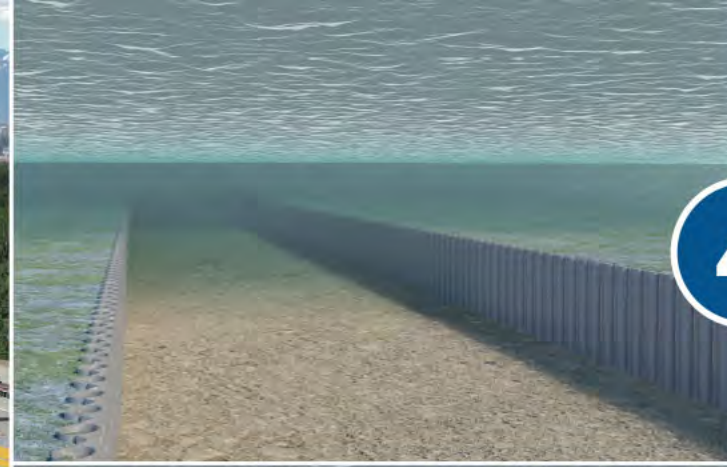


STEP
3

Cables that span the river will secure the tunnel elements before they are carefully lowered into place. This process is called immersion.

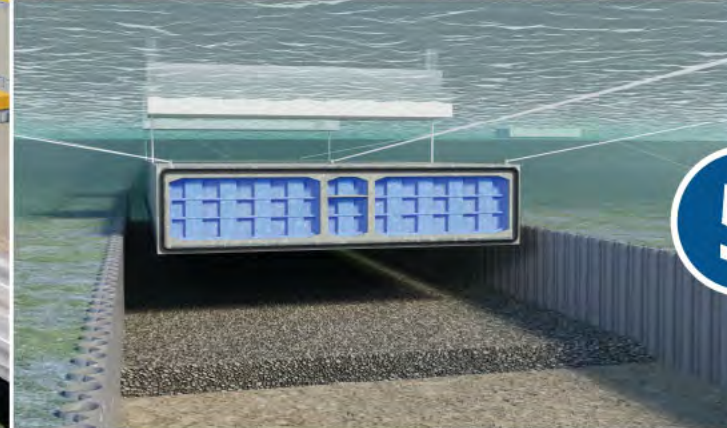
Jetty

Jetty



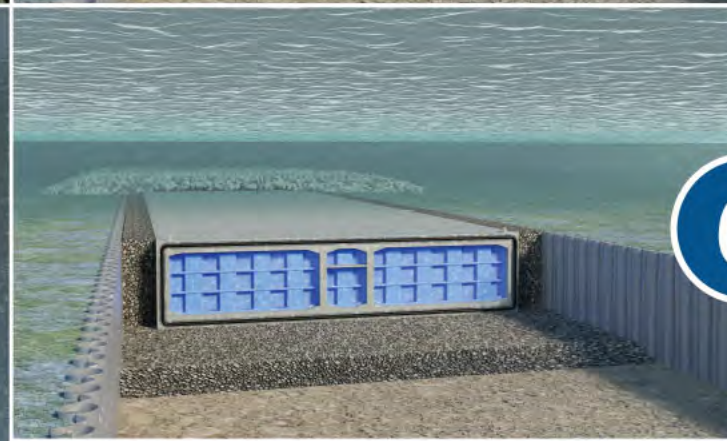
STEP
4

While the tunnel elements are built, a machine dredges a trench at the bottom of the river. The trench is then prepared for an element to be lowered into place within it.



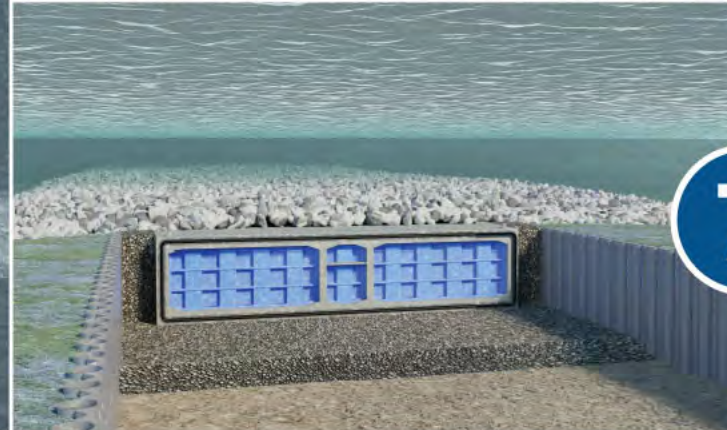
STEP
5

Special tanks within the tunnel elements are filled with water to help lower the element into place.



STEP
6

Once the tunnel element is in place, gravel is added to the sides to secure it.



STEP
7

Large boulders are placed on top of the tunnel elements to protect them in the future. The immersion process is repeated six times to lower each element.

STEP
8

Once completed, the new tunnel will improve traffic flow and access for emergency vehicles. Dedicated bus lanes will make transit trips faster and more reliable. The tunnel will also include the option to walk or cycle at this crossing for the first time.



Highway 99 Tunnel Program

We are improving Highway 99 in Richmond and Delta to provide **better travel options for everyone**—whether you walk, cycle, take transit or drive.

New Tunnel Features

Highway 99 is a key connection for communities on both sides of the Fraser River and a vital international trade route. Opened in 1959 as a vehicle-only crossing, the existing four-lane George Massey Tunnel no longer meets the region's needs or modern seismic standards.

- > The new toll-free, eight-lane immersed tube tunnel includes three vehicle lanes in each direction
- > Dedicated bus-only lanes in each direction that can support fast and frequent bus rapid transit
- > A separated multi-use path for pedestrians and cyclists that connects to existing networks in Richmond, Deas Island and Delta
- > Wider and taller travel lanes, and shoulders, to make driving safer and more comfortable
- > Modern safety and seismic standards
- > Improvements to Highway 99 that will allow vehicles to travel at speeds around 80 km/hour along the corridor

COMPLETED

TRANSIT & CYCLING IMPROVEMENTS

A new transit-only connection to Highway 99 and a multi-use path for pedestrians and cyclists.

COMPLETED

TRANSIT & CYCLING IMPROVEMENTS

New transit priority lanes as well as a new pathway and crossing for cyclists.

STEVESTON INTERCHANGE PROJECT

A new five-lane interchange to increase capacity and provide better connections for buses, pedestrians and cyclists.

Under construction

FRASER RIVER TUNNEL PROJECT

A new eight-lane tunnel with a dedicated path for pedestrians and cyclists, as well as highway upgrades on both sides of the tunnel.

Under environmental review

COMPLETED

TRANSIT & CYCLING IMPROVEMENTS

Connecting bus-on-shoulder lanes between Ladner Trunk Road and Highway 17A.

99

Vancouver

Richmond

Fraser River

Delta

Ladner

17A

17

99

Boundary Bay



Learn more about the Highway 99 Tunnel Program
and sign up for the newsletter:

highway99tunnel.ca

Visit the community office

5180 Ladner Trunk Rd, Delta
Wednesday-Thursday
9:00 a.m. to 5:00 p.m.



StrongerBC