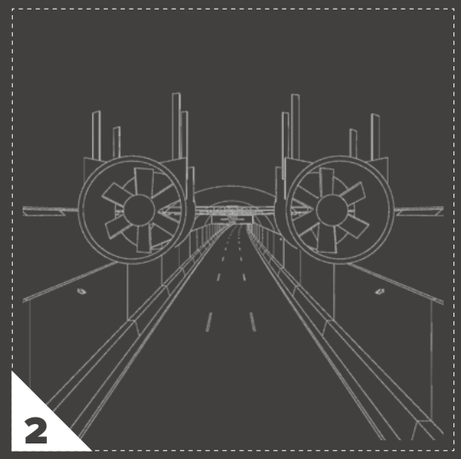

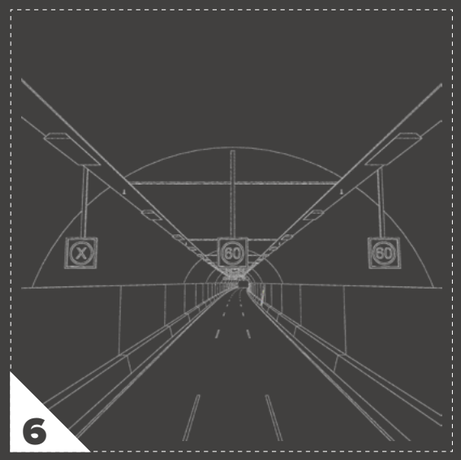

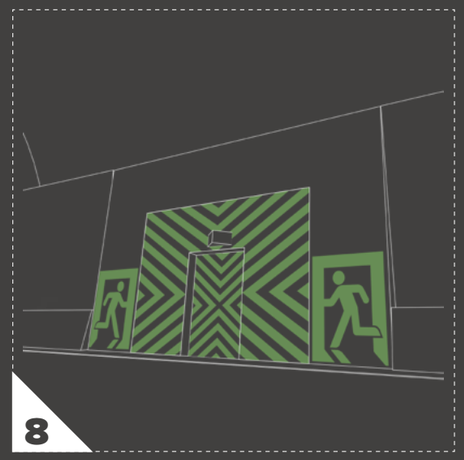

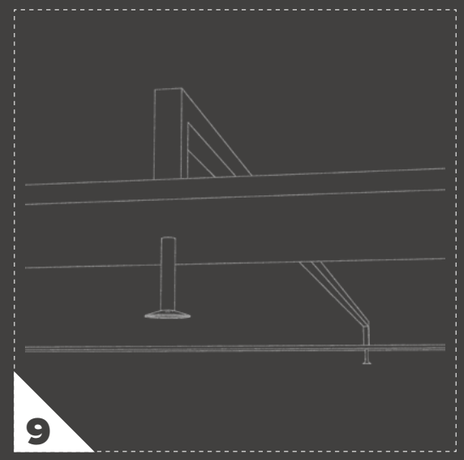

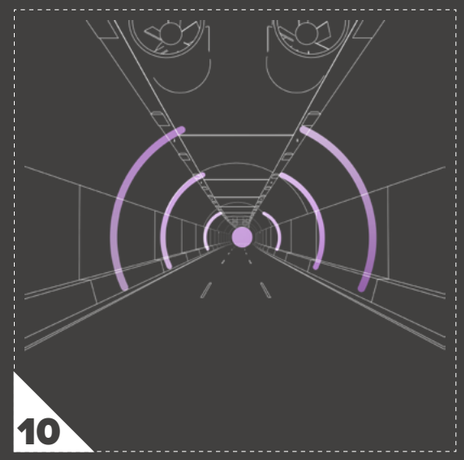

T2D TORRENS TO DARLINGTON

Tunnel safety systems

The T2D motorway will have a range of technology-based information, communications and control systems.

These actively manage traffic flows and improve safety, as well as providing better travel time reliability.

Australian Government

Government of South Australia
Department for Infrastructure and Transport

1 **Tunnel closure system**
Ensures the tunnels can be safely closed when required, using boom gates and stop signals.

2 **Ventilation fans**
Maintain air quality in the tunnels.

3 **Automatic incident detection**
Allows rapid automatic detection of hazards such as stopped vehicles, debris, animals or people.

4 **CCTV**
Cameras along the motorway allow constant road monitoring for quick incident management.

5 **Dynamic variable message signs (VMS)**
Provide information like incident warnings and likely travel time.

6 **Lane use management system**
Controls variable speeds and lane closures for optimised traffic flow and safety.

7 **Vehicle detection systems**
Monitor travel times and unusual congestion.

8 **Tunnel egress points**
Spaced every 120m to provide emergency access between the parallel tunnels.

9 **Fire detection and suppression systems**
Smoke detectors are automatically triggered, and sprinklers can be activated, in the event of a fire.

10 **Radio rebroadcasting**
Allows traffic management centre personnel to broadcast safety messages to motorists in the tunnels via their vehicle's radio.