



#### KEY PROJECTS

### J120 - INTEGRATED TRANSPORT HUB AT JURONG EAST

**Date won/completed:** 2022 –  
ongoing

**Client:** China Communication  
Construction Co.

**Developer:** Land Transport  
Authority (LTA) - Singapore

**Role:** Specialist Consultant  
(Geotechnical) for Diaphragm  
Wall, Sewer shaft & Pipe-  
jacking and Shotcreting works

#### PROJECT BACKGROUND

Located next to the existing Jurong East MRT Interchange station, the Integrated Transport Hub features a 27-storey block connected by a sky bridge to a 8 storey block and 2 level of basements with connections with adjoining developments. The development will house offices, retail spaces and other public facilities which integrates with other existing East-West Line, North-South Line and Jurong Region Line.

Located in Jurong Formation with challenging ground condition, foundation, diaphragm wall and excavation works encountered several challenges. Strader Consult was appointed by the Contractor (CCC) as the specialist consultant to assist with the design and advisory works for jet grouting, diaphragm wall excavation works and shotcreting works for deep basement.

#### THE OUTCOMES FOR THECLIENT

Diaphragm wall trenching was completed successfully with the improved ground condition without trench collapses and minimize overbreak and wastage.

The deep excavation for deep pile caps below final basement levels were carried out safely with minimal over excavation and shorten the excavation duration.