

Development of Lok Ma Chau Loop - Main Works Package One

West Development Office, Civil Engineering and Development Department

BRONZE



Organisations to be Credited

- Civil Engineering and Development Department
- China Road and Bridge Corporation
- China Railway 11th Bureau Group Co., Ltd – Kwan Lee Holding Limited – Paul Y. Construction Company Limited JV
- AECOM Asia Co. Ltd.

Introduction of the Project

According to the “Memorandum of Understanding on Jointly Developing the Lok Ma Chau Loop” signed by the Hong Kong SAR Government and the Shenzhen Municipal Government in 2017, the two governments will jointly promote the collaboration of innovation and technology and establish the Hetao Shenzhen-Hong Kong Innovation and Technology Co-operation Zone under the principle of “One Zone, Two Parks”. The Development of the Lok Ma Chau Loop Project (“the Project”) included site formation works of 87-hectare of land and various infrastructure works to support the development of the Hong Kong-Shenzhen Innovation and Technology Park (“HSITP”), which is strategically located near the border of Hong Kong adjacent to Shenzhen with a unique synergistic significance.

Sharing the same vision of HSITP for innovation and technological excellence, the Project incorporates



Artistic Impression of HSITP

the state-of-the-art infrastructures to bolster the park’s capacity as a bridgehead for Hong Kong’s Innovation and Technology development. One notable achievement is the development of revolutionary bridge construction method through the power of precise digitalisation technology, allowing for the realisation of ideas that had previously been considered beyond reach.

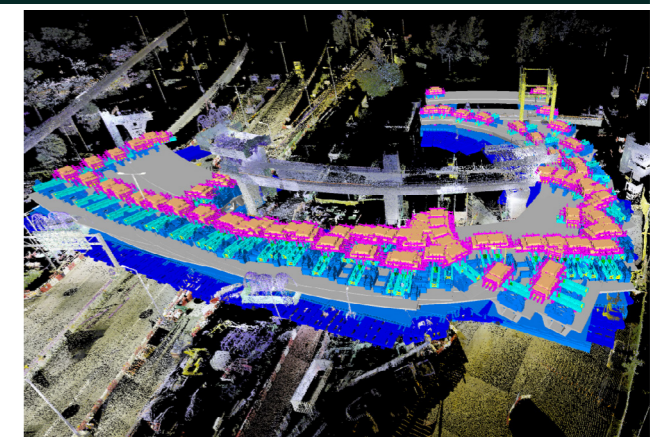
Embracing the complex and diverse challenges of the Project, the project team was fully dedicated to adopting digitalisation technologies, establishing a digitalised working environment that enhanced project efficiency, streamlined operations, and prioritised sustainability and safety. The project team’s aspiration was not only to optimise the outcomes of the Project but also to set a benchmark for the construction industry as a whole.



Aerial View of Bridge ST01 constructed by Full-Span Deck Erection Method



Use of 3D Scanning Technology



Digitalised Simulation of Operation of Full-Span Deck Erection Method



Smart Site Control Centre and Smart Site Safety Training Centre

