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KAI TAK LANDSCAPED DECK-CONCEPT DESIGN

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Summary

The Kai Tak Development (KTD) master was introduced by the Hong Kong Government to develop the site of the historical international airport and create a sustainable environment, which cultivates a comprehensive network of parks for everyone.

This publication discusses how the KTD master plan was expressed in the concept design of the Landscaped Deck (the Deck), which was proposed by the joint-venture team (the team) comprising of VINCI (Contractors), ARUP (Engineers) and VASCONI (Architects).

In the publication [1] explained are the overall philosophy for the proposed scheme for the Landscaped Deck, whereas this publication focuses on the expressive architecture and diversified structural forms, which were developed by the team.

Keywords: landscaped deck; noise barrier; concept; architecture; structures; forms; connectivity

1. Introduction

When the international airport had been moved from the Kai Tak to Chek Lap Kok in 1998, the Hong Kong Government planned the urban development of the old airport site. The master plan assumed construction of sports complex, a metro park, cruise terminal, a hotel, a housing estate, and commercial and entertainment construction projects over an area of more than 320 hectares.

A part of the master plan is construction of the Landscaped Deck, which features an iconic 18,000m² and 1.5km long elevated park, designed as both a public destination and a community place. It will create a multifunctional skywalk with human-scale spaces that provide respite, activities and education for transient users and local residents.

In 2014 the Hong Kong Government announced a competitive tender for the detailed design and construction of the Landscape Deck. In response to this invitation, the team comprising of VINCI Construction Grant Projects (VCGP), Ove Arup and Partners (ARUP) and VASCONI Architects (VASCONI), prepared the concept design for the Landscaped Deck in Kai Tak.

This publication focuses on the overall architecture and diversified structural forms, which were proposed by the team for the Landscaped Deck.

2. Concept design

The design proposed by the team focuses on emphasizing the aviation history of Kai Tak and increasing the areas of greening of the Deck. The design incorporates innovations to facilitate rapid construction and reduce operation and maintenance requirements and holistically integrates architecture, landscape and infrastructure to create seamless environment that provides a strong identity for the new metropolitan neighbourhood. The design also provides a secure and comfortable environment with unique and expressive space in which users may reflect, live and relax.

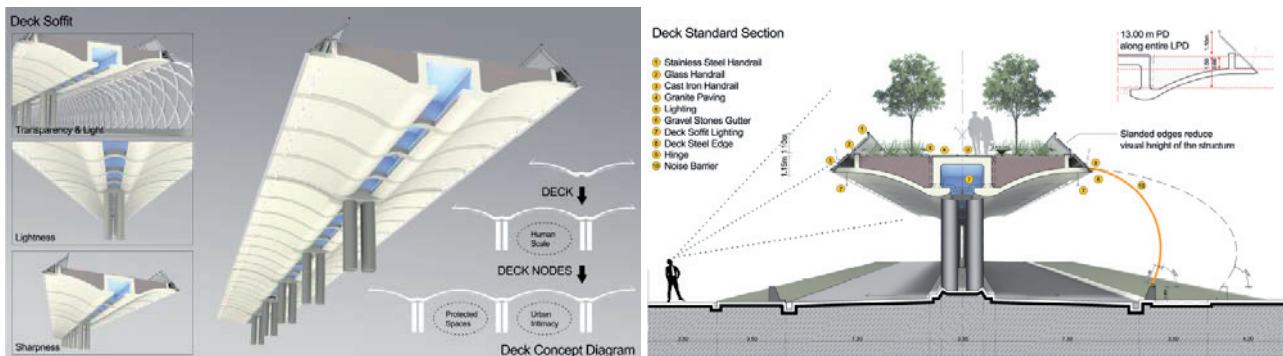


Fig. 1. Concept for the Landscaped Deck proposed by the team.

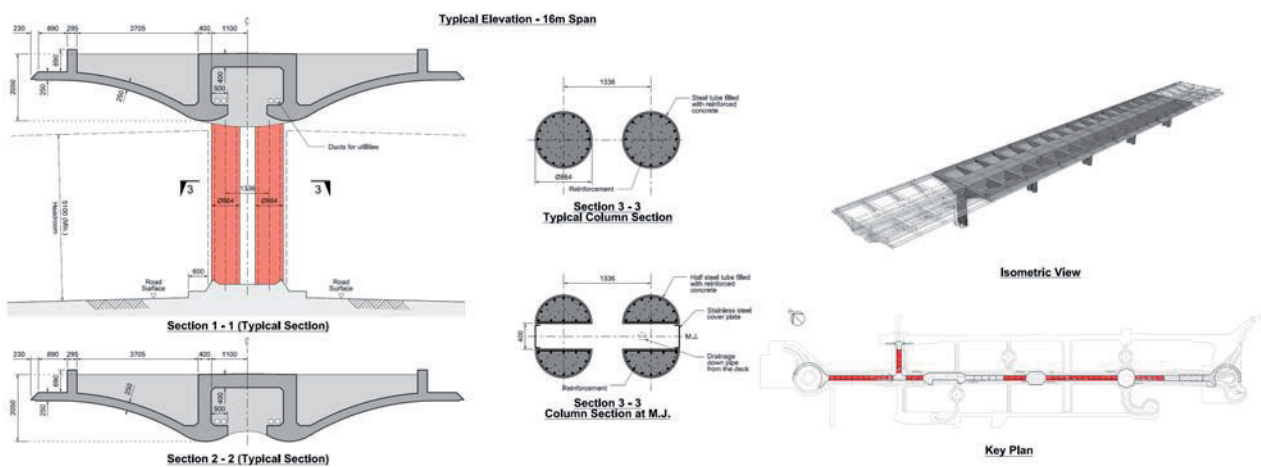


Fig. 2 Typical structural details for the Linking Walkway.

3. Discussion and conclusion

The concept proposed by the team for the Landscaped Deck and the Noise Barrier, consists of the expressive and intelligent architecture, which is deeply integrated and synchronised with the structural forms. The development of this harmonic and elegant scheme is the fruit of close cooperation in between all the parties involved in the project, including the Contractor, Architects and Engineers. The team developed the unique and memorable concept for the busy and vibrant Hong Kong metropolis.

4. Acknowledgements

The authors would like to acknowledge VCGP led by Gilles Cachia and VASCONI led by Thomas Shinko for the fruitful cooperation during the tender design for the Landscaped Deck.

5. References

- [1] WOJNARSKI L., HUSSAIN N., TO M., "Kai Tak Landscaped Deck – From Mountain to Sea" 19th IABSE Congress Stockholm