





mote automatic turning device for e turning of prefabricated segments

## 嶄新技術應用

## 行人隧道 SB-01工程

正興建行人隧道 SB-01。項目採用 矩形隧道鑽挖機技術, 以全機械 挖掘工程對公眾、區內交通及 周邊設施的影響。

行人隧道 SB-01總長約86米, 為 「啟德發展計劃 — 前北面停機坪 第5B期的基礎設施工程」的一部 噸, 全部組件在工地外預製, 分, 横跨太子道東, 連接九龍城

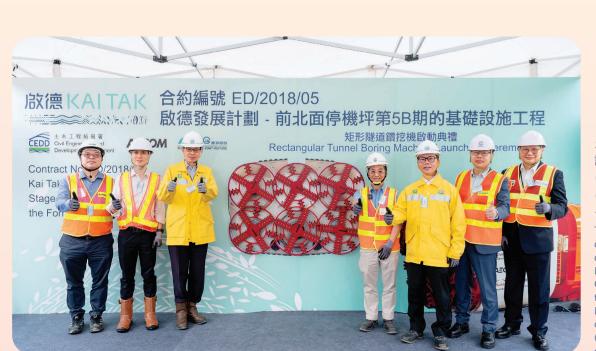
隧道配合現有道路設施及地底管 提高效率。 線分布,深度約為14米。工程引 術, 務求提高施工安全, 有效管 質量。整條行人隧道由53件預製 組件組成,每件組件重約78公 有助提升組件質量和製作效率。

件,配合電腦化隧道建造系統, 有助減省工序,加快工程進度及

裝嵌矩形隧道鑽挖機鑽頭

RTBM Head Assembly

對工程團隊來說,矩形隧道鑽挖 工程的最大挑戰, 是要盡量減少 對周圍環境造成影響,包括樓宇 和橋樑結構、路面、地下設施, 以及交通情況等, 故此工程人員 必須密切監察系統, 以確保工程



#### Application of Cutting-edge Technology

### **Construction of Pedestrian** Subway SB-01

Development Department is constructing the pedestrian subway SB-01 to facilitate the access of residents in the neighbouring districts to and from the KTD. The project adopts the Rectangular Tunnel Boring Machine (RTBM) technology, which is wholly operated by mechanical means to eliminate manual excavation, thereby effectively minimising

The Civil Engineering and

土木工程拓展署東拓展處處長梁中立(左三)、建造業 議會主席何安誠(右四)、香港工程師學會會長卜國明 (右三)、英國土木工程師學會香港分會主席王展滔 -同出席早前舉行的矩形隧道鑽挖機啟動典禮。

The launching ceremony of the RTBM held earlier was jointly attended by the Project Manager of the Civil Engineering and Development Department's East Development Office, Ar Michael Leung (third left); the Chairman of the onstruction Industry Council, Mr Thomas Ho (fourth right); President of The Hong Kong Institution of Engineers, r Aaron Bok (third right); the Chairman of the Institution f Civil Engineers Hong Kong Association, Mr Louis Wong second left); and representatives of the project's consultants and contractors involved in the project.

the impact of excavation works on the public, traffic in the district and surrounding facilities.

The pedestrian subway SB-01 has a total length of approximately 86 metres and is part of "Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area". It spans Prince Edward Road East, connecting the Sa Po Road area in Kowloon City and the future underground shopping street in the KTD.

The subway is about 14 metres deep to match the existing road facilities and the distribution of underground utilities. The project adopts the cutting-edge RTBM technology to enhance works safety, facilitate effective management and control of construction risks, and improve construction quality. The subway is composed of 53 prefabricated segments, each weighing

approximately 78 tonnes. All segments are prefabricated off-site, which helps improve the quality and production efficiency. The RTBM, which pushes in one segment per day, together with the computerised subway construction system, helps streamline work processes, accelerate project progress and improve efficiency.

For the project team, the biggest challenge of the RTBM project is to minimise the impact on the surroundings, including building and bridge structures, road surfaces, underground facilities, and traffic conditions, etc. Therefore, the project team must closely monitor the system to ensure the smooth progress of the project.









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一新行人一隧道開通…… Kai Tak Connection **New Pedestrian Subway** Opened

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## -Pedestrian Network Covering Adjacent Neighbourhoods

木工程拓展署一直 致力優化啟德發展 區的對外連繫

提升暢達度,讓市民往來更 便捷。橫過太子道東以連接 九龍城石鼓壟道遊樂場與 世運道的行人隧道於今年 6月開通後, 啟德的行人通道 連接點數目已增至17個。

he Civil Engineering and Development Department has been striving to improve the connectivity of the Kai Tak Development (KTD) to enhance accessibility and convenience for the public. With the opening of the pedestrian subway crossing Prince Edward Road East, connecting Shek Ku Lung Road Playground in Kowloon City with Olympic Avenue in June this year, the number of pedestrian connections in Kai Tak has increased to 17.



#### A Path towards Unique Atmosphere

#### **Pedestrian Subway SW6**

啟德 KAI TAK

The newly opened pedestrian subway SW6 is part of "Kai Tak Development – Stage 5A Infrastructure Works at the Former North Apron Area". With a total length of about 120 metres and crossing the busy Prince Edward Road East, the subway connects the KTD and Kowloon City, facilitating pedestrian movement to and from Kowloon City while strengthening Kai Tak's connection with its neighbouring areas.

One end of the subway connects to the Lung Tsun Stone Bridge Preservation Corridor under construction, while the other end connects to Shek Ku Lung Road Playground in Kowloon City, forming a cross-district leisurely walking route to guide the public through a unique cultural and leisure atmosphere. Moreover, both entrances of the subway are equipped with lifts to provide barrier-free access for the public.

## 通往獨特氛圍的道路

## 行人隧道 SW6

文「開通的行人隧道SW6是「啟德發展計劃 一前北面停機坪第5A期基礎設施工程」 的一部分。行人隧道全長約120米, 橫跨交通 繁忙的太子道東, 連接啟德發展區與九龍城 區,方便行人穿梭往來,加強啟德與鄰近地區

行人隧道SW6的一端接駁正在興建中的龍津 石橋保育長廊,另一端則連接九龍城石鼓壟道 遊樂場, 形成一條跨區漫遊路線, 引領市民遊 走於獨特的文化及休閒氛圍之中。隧道的兩端 入口均設有升降機, 為市民提供無障礙通道。







## **Precious Local Cultural Relic Lung Tsun** Stone Bridge

利居民登岸, 前往九龍寨城。石 橋後來加建延伸部分,成為九龍 城碼頭。經過1920年代的啟德濱 發展計劃、1942年第二次世界大 戰期間興建軍用機場,以及發展 和擴建前啟德機場後, 龍津石橋 最終被埋在地下。

龍津石橋遺蹟具有獨特的歷史價 古蹟。 值, 它於2008年在啟德發展區首 次被發現。其後進行的考古調查

**立** 津石橋始建於1873至1875 及挖掘出土了原建於該地的接官 **月** 年, 全長約200米, 用以便 亭、石橋實心、橋墩、登岸碼頭、 前九龍城碼頭、海堤、堤道及啟 德機場地基的遺蹟。

> 根據古物古蹟辦事處訂定的 保育管理計劃, 遺蹟北面的接官 亭基石, 以及南面的石橋橋面、 橋墩、石橋末端等屬當時的重要 地標,均獲評為高等級歷史







Seaward end of the Bridge and seawall



Bridge pillar

expansion of the former Kai Tak TSB was built between \_\_1873 and 1875, with a total Airport, LTSB was eventually buried underground. length of about 200 metres, to facilitate resident's The relics of LTSB, which are of disembarkation and access to Kowloon Walled City. The bridge was later extended to become the Kowloon City Pier. After the implementation of Kai Tak Bund

Development in the 1920s, the

building of a military airfield in

1942 during the Second World

War, and the development and

unique historical value, were first discovered in 2008 inside the KTD. Subsequent archaeological investigations and excavations unearthed the relics of LTSB, including the Pavilion for Greeting Officials, solid mass, supporting pillars, landing platform, the former Kowloon City Pier, seawalls, causeways and foundation structures of Kai Tak Airport.

According to the Conservation Management Plan formulated by the Antiquities and Monuments Office, the foundation stone of the Pavilion for Greeting Officials in the north of the relics, and the bridge deck, supporting pillars and the landward end of the bridge in the south, which were important landmarks of the time, have been classified as high grade historical monuments.



1899







2008

#### 1891

龍津石橋附近的淺灘 Surrounding beach around Lung Tsun Stone Bridge

龍津石橋的加建造(木橋)部份 Timber Extension of Lung Tsun Stone Bridge

## 1900

接官亭 Pavilion of Greeting Officials

1903年龍津石橋的位置圖 Location of Lung Tsun Stone Bridge during 1903

1903

#### 1932

從龍津石橋遠眺九龍寨城 Kowloon Walled City Viewing from Lung Tsun Stone Bridge

2008年龍津石橋遺址 Remanent of Lung Tsun Stone Bridge during 2008



