

Agreement No: CE3/2006 (DS)

Reconstruction & Improvement of Kai Tak Nullah (Choi Hung Road Section)-Investigation, Design and Construction Nullah Improvement Scheme

1. INTRODUCTION

- 1.1 In early 2005, Chief Executive has committed in his Policy Address to deck, inter alia, Kai Tak Nullah in Wong Tai Sin (the Nullah) in 10 years time starting from 2005. Consequently, Technical Feasibility Statement (TFS) for the decking of this Kai Tak Nullah has been completed and submitted by Drainage Services Department (DSD) and had been approved by the SETW in September 2005.
- 1.2 DSD commenced the investigation for the Reconstruction and Improvement of Kai Tak Nullah (Choi Hung Road Section) in July 2006. This Project has been put forward to the Traffic & Transport Committee of Wong Tai Sin District Council (WTSDC) for consultation on 3 October 2006 and 6 September 2007. WTSDC Members have made their valuable comments and gave their support to the decking of the Nullah.

2. THE ORIGINAL PROPOSED NULLAH IMPROVEMENT SCHEME

- 2.1 According to the original TFS for the decking of the Nullah, the objective of the Project was to improve an approximate 500m section of Kai Tak Nullah in Wong Tai Sin from near Po Kong Village Road to Tung Tai Lane (near Morse Park) with the aim of covering up and improving the Nullah together with the ancillary landscaping and drainage works.
 - 2.2 With further review of the drainage model, the existing Nullah should be widened to achieve the required drainage standard. Decking scheme as per the cross-section showing in the **Drawing No. 06131/TP6/001** was proposed to widen the Nullah. The widening works will occupy 2 traffic lanes at northbound carriageway of Choi Hung Road. Apart from the re-provision of footpath, the decking will also serve as landscape enhancement and sitting-out purpose.
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3. EXTENT OF WORKS (DRAWING NO. 06131/TP6/002)

- 3.1 Having considered the option of decking the whole length of the Nullah, as requested by the DC Members in September 2007 for the improvement to the traffic conditions at Choi Hung Road, Transport Department (TD) has revisited the latest traffic data forecast in January 2008 and come to a view that it was not necessary to fully widen the Choi Hung Road according to the latest traffic data forecast in January 2008. Therefore, there is no timetable for widening of Choi Hung Road.
- 3.2 TD agreed with the DC Members that rearrangement of bus laybys and addition of a traffic lane at the junctions of Tai Shing Street & Po Kong Village Road could improve the traffic condition of Choi Hung Road. **(Drawing No. 06131/TP6/003 refers)**
- 3.3 In addition, locals and conservation parties recently requested for rehabilitating, greening and conserving the Nullah by reducing the decking area. The Consultants have further investigated and proposed several decking/greening schemes in the light of concerns of the interested parties and DC Members. After collecting the comments, DSD propose to deck the Nullah from its upstream near Po Kong Village Road to Tai Shing Street/Tung Tai Lane. Apart from the reserved area for bus laybys and additional traffic lanes, we propose to provide landscape and sitting-out facilities demonstrating the theme of "Dragon" at other decking area; we also propose to provide landscape stream and other water landscape features to retain the original "Water Culture". Greening and rehabilitation works to increase ecology and conservation values will be carried out at the remaining Nullah section running from Tai Shing Street/Tung Tai Lane to Tung Kwong Road. This proposal had been discussed at the "Workshop" held on 27 February 2008. **(Sketch for the Preliminary Landscape Concept Design please refer to Drawing No. 06131/TP6/004)**
- 3.4 The investigation has also identified that the existing Nullah section in the form of a culvert underneath Prince Edward Road East is a bottleneck in term of the hydraulic performance of the Nullah. Therefore, the Consultants also propose to widen the Nullah underneath Prince Edward Road East.
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4. TEMPORARY TRAFFIC ARRANGEMENT AND ENVIRONMENTAL MITIGATION MEASURES DURING CONSTRUCTION

- 4.1 It was reported to WTSDC in September 2007 that the improvement works for the Nullah should occupy 2 traffic lanes at northbound carriageway of Choi Hung Road. The Temporary Traffic Arrangement (TTA) will try to maintain the number of existing traffic lanes as far as possible, and traffic diversions will be implemented on a stage by stage basis in accordance with the location of reconstruction works of the Nullah. We will closely liaise with TD, Police Force and WTSDC to minimize the disturbance to the citizens.
- 4.2 Based on the information available at this stage, no environmental impacts are considered insurmountable. Close supervision will be provided to reduce the environmental impact during construction.

5. LAND (EMERGENCY VEHICULAR ACCESS) BETWEEN KAI TAK GARDEN AND THE NULLAH TO BE USED FOR WATER MAINS DIVERSION

In order to divert the affected water mains effectively, we proposed to divert two 450mm diameter and 800mm diameter water mains to the underground of the existing footpath along the western side of the Nullah. Therefore, the water mains would be diverted to the Emergency Vehicular Access (EVA) between Kai Tak Garden and the Nullah. This area is under jurisdiction of Kai Tak Garden (**Drawing No. 06131/TP6/005** refer). After clarifying with Lands Department in accordance of lease conditions of Kai Tak Garden, the Government can make use of the land for laying water mains without land resumption.

6. WATER MAINS DIVERSION CROSSING THE NULLAH AND CHOI HUNG ROAD IN THE VICINITY OF SHATIN PASS ROAD

It was reported to WTSDC in September 2007 that there were two diversion options (**Drawing No. 06131/TP6/005** refer) for the underground water mains with diameter 1.2m and 0.6m in the vicinity of junction of Shatin Pass Road and Choi Hung Road. Option 1 will adopt pipe jacking technique which is a trenchless method for pipes

installation; Option 2 involves the construction of water mains tunnel underneath the Nullah and Choi Hung Road, and the provision of maintenance access and permanent manhole shaft for the access of the workers for maintenance purpose. The permanent manholes at both ends of the tunnel will be located within Drainage Reserve area at Lower Wong Tai Sin Estate and within Choi Hung Road Playground. After further discussion, Water Services Department (WSD) considered Option 2 would be more preferable and underground maintenance facilities will be provided for future maintenance purpose near the permanent manhole within Choi Hung Road Playground. We are liaising with the Estate Management Office, Leisure and Cultural Services Department (LCSD) and Lands Department on this matter.

7. PROJECT GAZETTE PROGRESS

- 7.1 After consulting WTSDC in September 2007, the Project was gazetted in accordance with the Foreshore and Seabed (Reclamations) Ordinance on 14 December 2007. Three objection had been received during the two months consultation period. DSD and the Consultant are studying those three objection documents and will respond to them as soon as possible to avoid delaying the implementation of the Project.
- 7.2 As mentioned above, the Nullah underneath Prince Edward Road East should be widened to increase the drainage capacity. Therefore, we will gazette the widening and associated works for that section of the Nullah in accordance with the Foreshore and Seabed (Reclamations) Ordinance in due course. (**Drawing No. 06131/TP6/006** refer)

8. CONSTRUCTION PROGRAMME

If everything goes smoothly, the proposed improvement works of the Nullah from its upstream near Po Kong Village Road to Tung Kwong Road and the works mentioned in Section 7.2 will be commenced in 2009 and the whole project will be completed in 2014. In order to improve the traffic problem at the section of Choi Hung Road outside Wong Tai Sin Police Station due to buses stopping, we proposed to reconstruct a section of Nullah near Po Kong Village Road earlier in order to provide space for introducing additional traffic lane and a bus layby for bus stops. This section of reconstruction works will be completed within two years after its commencement and the whole Project will be completed within five years after its commencement.

9. REQUEST FOR COMMENT

It would be grateful if WTSDC Members could give your comments on the above mentioned proposal regarding the improvement, rehabilitation and greening of the Nullah and the gazette of proposed works as mentioned in Section 7.2.

Drainage Services Department
March 2008



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Drawings

06131/TP6/	Content
001	Cross-section of the Proposed Nullah Decking
002	General Layout Plan
003	Proposed Additional Traffic Lane and Bus Layby at Choi Hung Road
004	Draft Landscape Conceptual Design Plan
005	Plan of Part of Proposed Underground Watermains Diversion
006	Project Gazette Plan

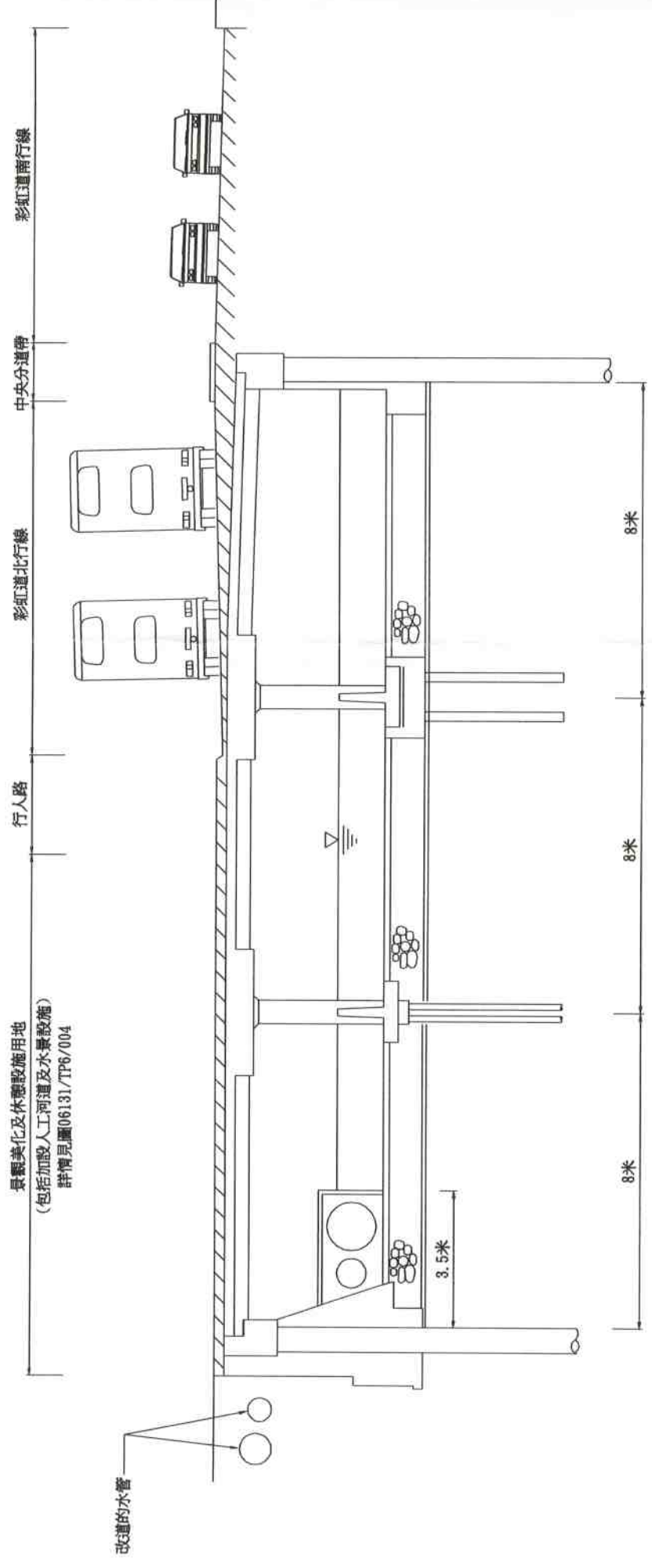
Rev. 號	Date 日期	Description 描述	Drawn 繪圖	Checked 校核
		合約編號 : CE 3/2006 (DS) 啟德明渠 重建及改善工程 (彩虹道路段) 研究、設計及建造		

合約編號 : CE 3/2006 (DS)
啟德明渠
重建及改善工程
(彩虹道路段)
研究、設計及建造

明渠上蓋橫切面圖

Drawing No. 圖號	06131/TP6/001
Designed 設計	Checked 校核
Drawn 繪圖	Scale 比例
Revised 修改	Scale 1 : 150 (A3)
Approved 核准	Date 日期
Author 作者	Status 狀態
02/08	PRELIMINARY

Scott Wilson Ltd
德信顧問集團有限公司



附註:

1. 此設計乃初步方案僅供參考，最後方案有待進一步研究。

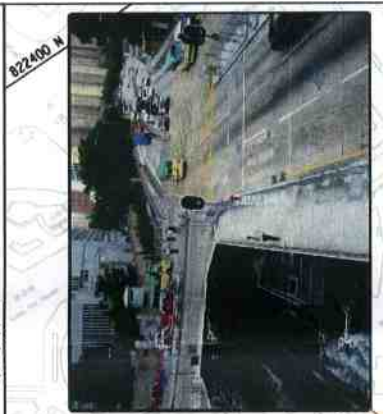
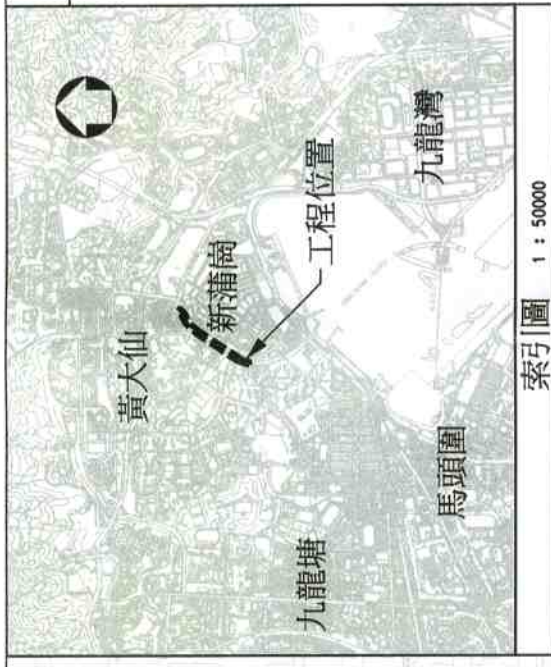
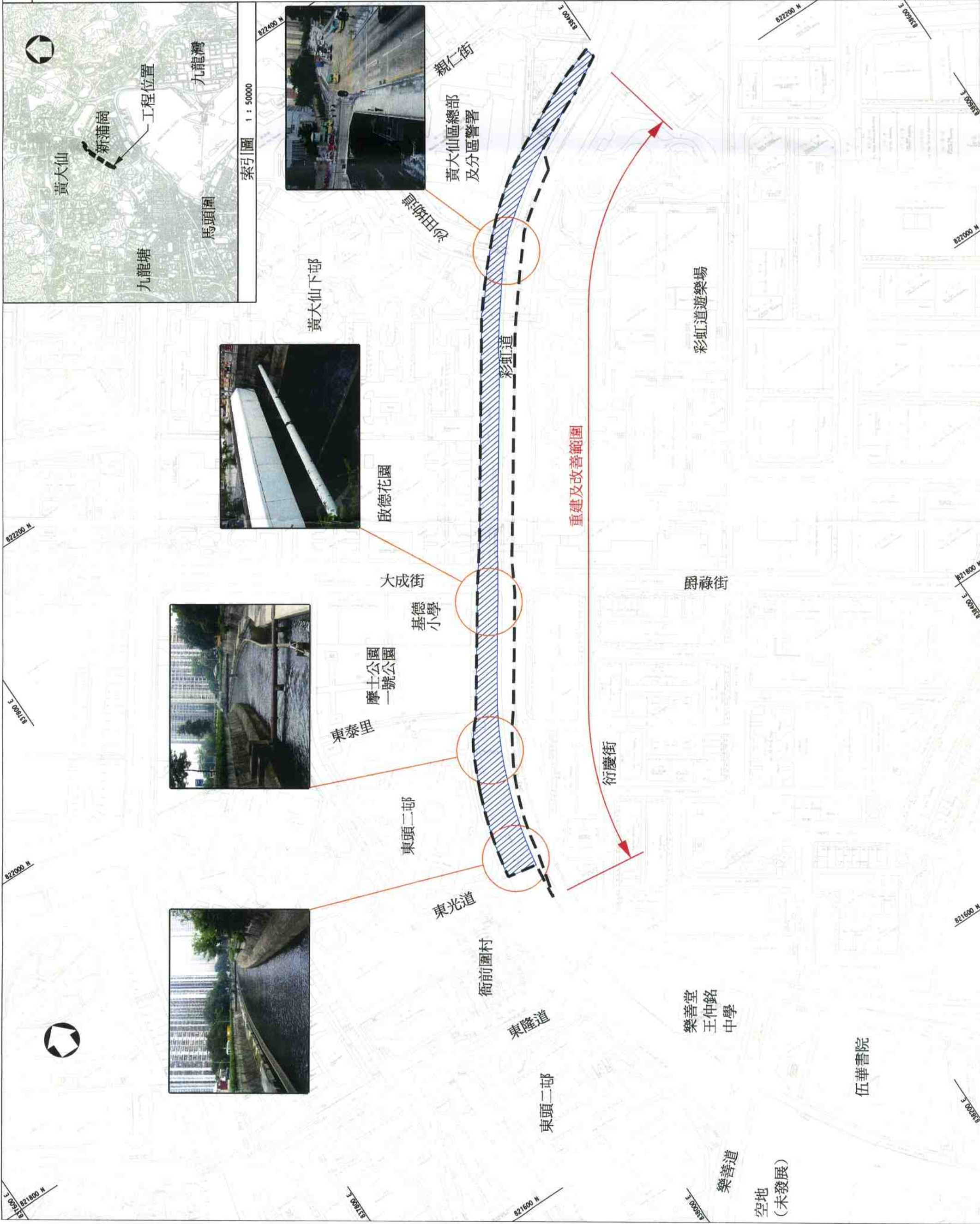
圖例

- 明渠改善工程範圍
- 現有明渠位置

Rev: Date 日期 Description 說明 Project Package 項目編號
 合約編號: CE 3/2006 (DS)
 啟德明渠
 重建及改善工程
 (彩虹道路段)
 研究、設計及建造

概覽圖

Drawing No. 圖號	06131/TP6/002
Designed 設計	Checked 校核
Drawn 繪圖	Scale 比例
Rock 校核	Scale 1: 2500 (A3)
NYH 校核	Date 日期
Approved 核准	02/08
ASAP 核准	STATUS: PRELIMINARY



附註:

1. 此設計乃初步方案僅供參考，最後方案有待進一步研究

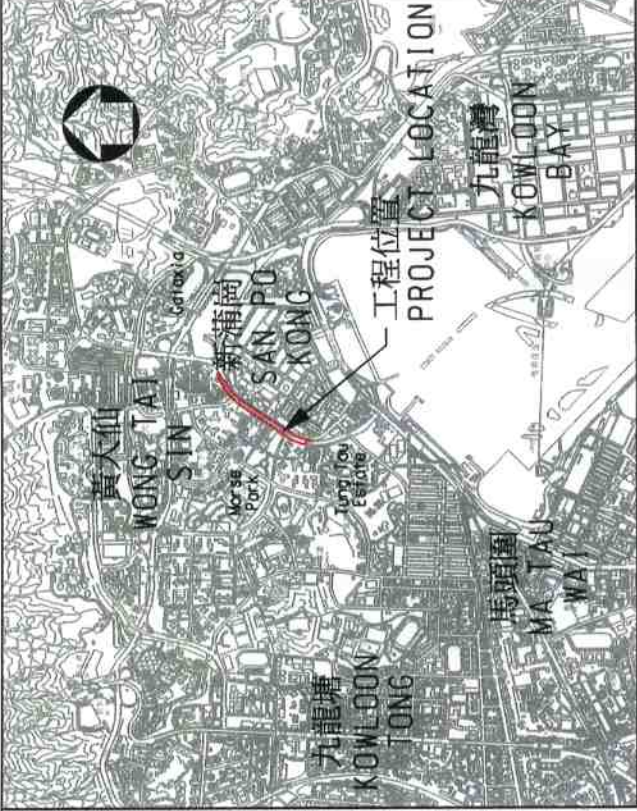
圖例

- 明渠改善工程範圍
- FOOTPATH 行人路
- PROPOSED BUS LAYBY 擬建的巴士停車處
- ADDITIONAL TRAFFIC LANE 加建的行車線

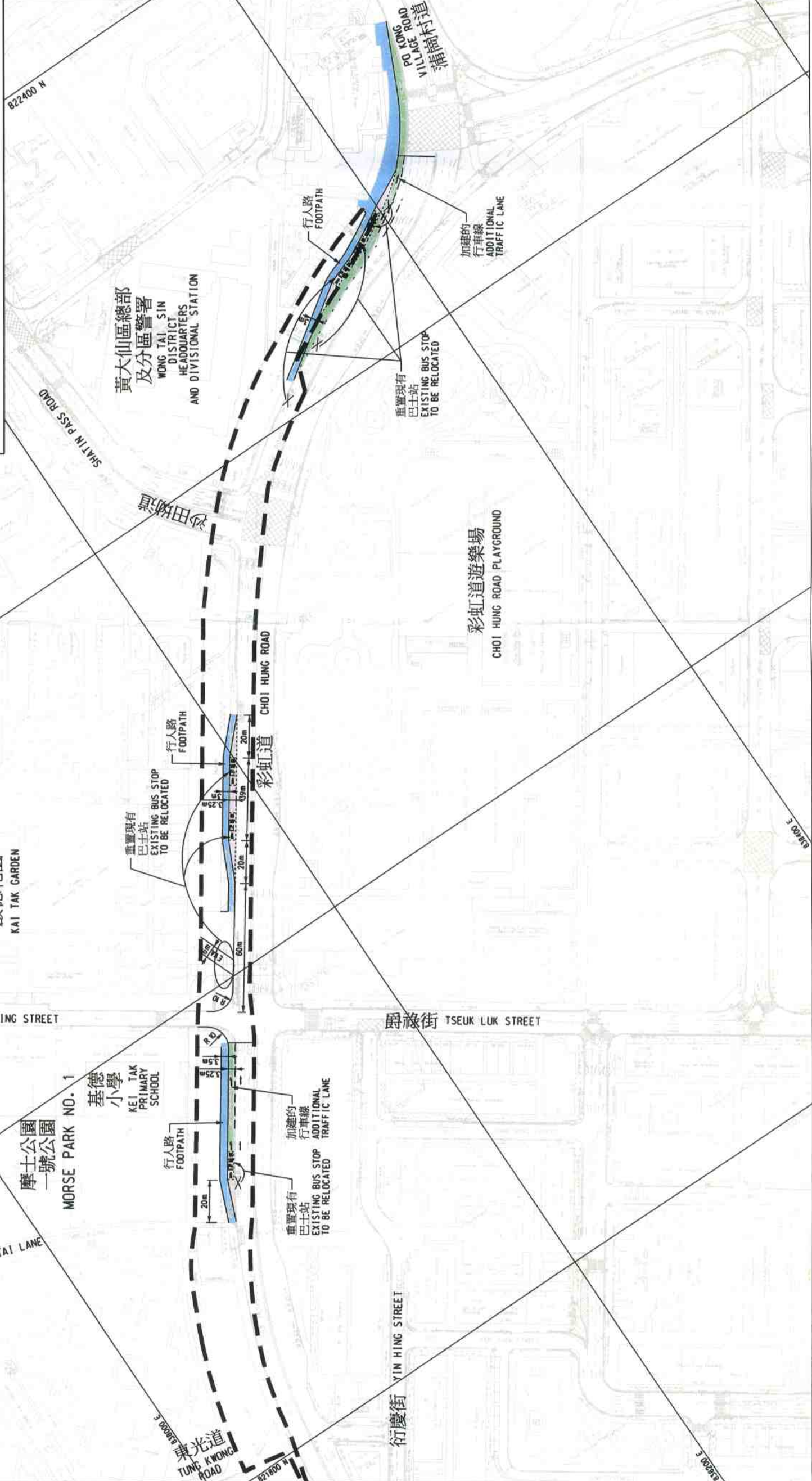
Rev. 日期 描述
 Date Description
 合約編號: CE 3/2006 (DS)
 啟德明渠
 重建及改善工程
 (彩虹道路段)
 研究, 設計及建造

建議中彩虹道加建的
行車線及巴士停車處

Drawing No. 06131/TP6/003
 Drawn 繪圖
 Checked 校核
 Date 日期
 Scale 比例尺
 Project 項目
 Status 狀態



索引圖 KEY PLAN 1 : 40000



圖例 LEGEND :

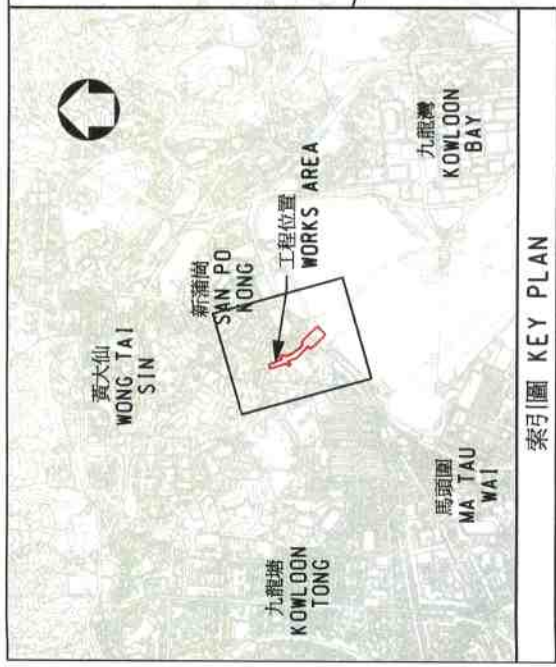
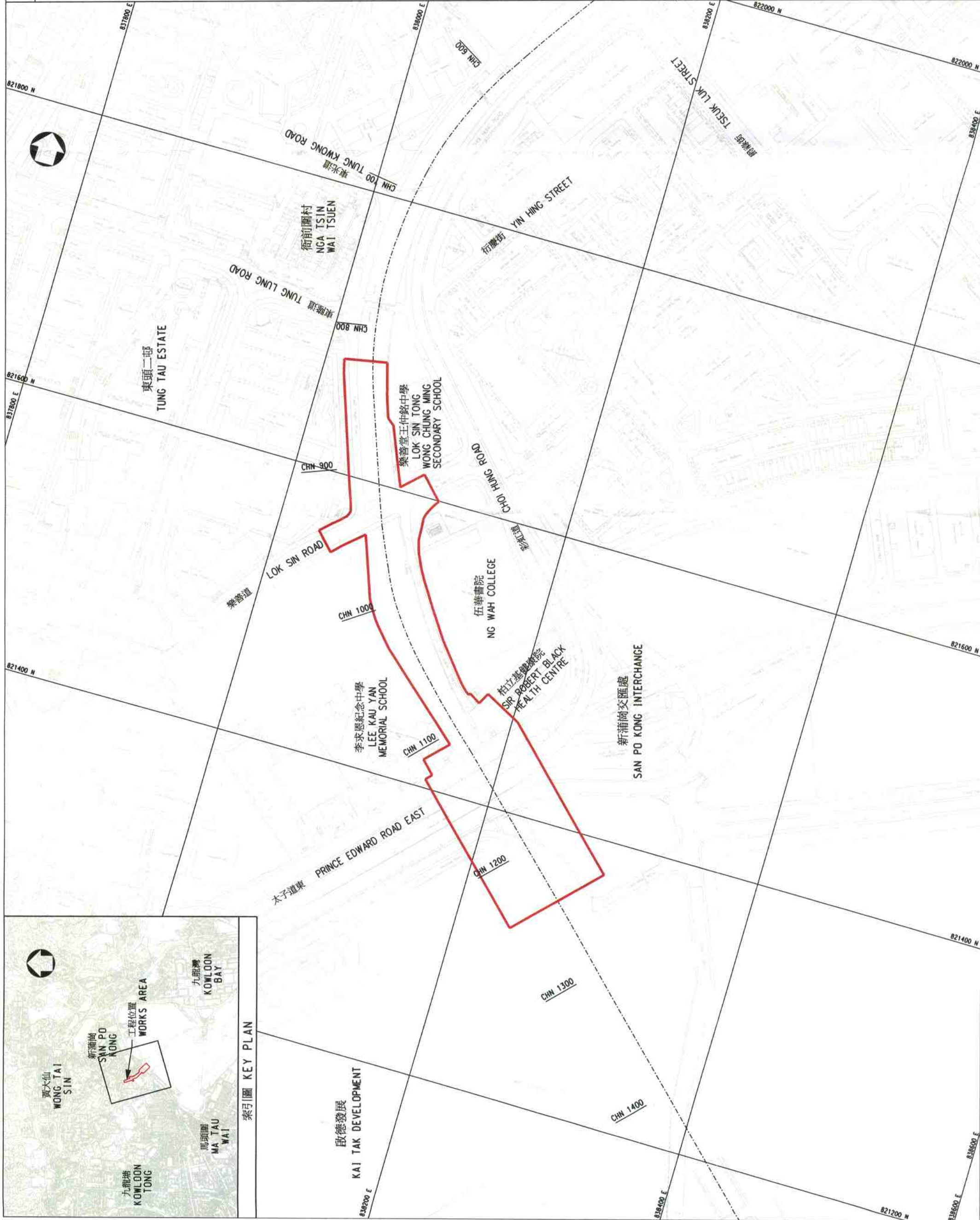
受影響的前海及海岸範圍
EXTENT OF FORESHORE AND
SEA-BED AFFECTED

Rev. 號	Date 日期	Description 描述	Drawn/Checked 繪圖/校核
		合約編號 CES/2006 (DS) 啟德明渠重建及改善工程 (彩虹道路段) AGREEMENT NO. CE 3/2006 (DS) RECONSTRUCTION & IMPROVEMENT OF KAI TAK MULLAH (CHOI HUNG ROAD SECTION) INVESTIGATION, DESIGN AND CONSTRUCTION	

工程項目刊憲圖
PROJECT GAZETTE PLAN

Drawing No. 圖號	06131/TP6/006
Designed 繪圖	Checked 校核
Drawn 繪圖	BY NYN
Approved 校核	DATE 07/07
Scale 比例	1 : 2500 (A3)
Status 狀態	PRELIMINARY

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索引圖 KEY PLAN