

**Public Works Programme Item No. 4125DS-1**  
**Tolo Harbour Sewerage of Unsewered Areas, Stage 2 Phase 2**

**1 PURPOSE**

- 1.1 This paper seeks members' advice and support on the captioned Drainage Services Department Project and its proposed works.

**2 BACKGROUND**

- 2.1 In order to abate the water pollution problem of the Tolo Harbour and to improve the sanitary conditions of the villages in Tolo Harbour sewage catchment, the Environmental Protection Department commissioned a Tolo Harbour Sewerage Master Plan Study (the Study) in 1989. The objective of the Study was to formulate mitigation measures to alleviate the water pollution problem arising from the unsewered developments in the sewage catchment. Since the completion of the Study in 1990, the projected populations in the Study Area had increased significantly. To assess whether the existing sewerage would have the capacity for the future need, EPD completed a further study "Review of North District and Tolo Harbour Sewerage Master Plans" (the Review) in November 2002.
- 2.2 Based on the findings and recommendations of the Review, the scope of works under Stage 2 project, repackaged into 3 phases, includes the construction of public sewage system in 13 villages in Sha Tin and 28 villages in Tai Po. The Stage 2 Phase 1 project, serving 9 villages in Sha Tin and 2 villages in Tai Po, commenced in July 2013 for completion by December 2018. The current Stage 2 Phase 2 project is to serve 2 villages in Sha Tin and 2 villages in Tai Po. The remaining 2 villages in Sha Tin and 22 villages in Tai Po under Stage 2 Phase 3 is under detailed design.
- 2.3 Drainage Services Department previously sought member's advice and obtained member's support to the whole Stage 2 Project in May 2009.

**3 SCOPE OF WORKS**

- 3.1 The scope of works under Stage 2 Phase 2 include the construction of about 5.6km of sewers in Ma Niu and Cheung Kang in Sha Tin, CARE Village and Ha Wong Yi Au in Tai Po; construction of a pumping station at Cheung Kang in connection with about 300m of sewage rising mains; and modification of an existing sewage pumping station at Tai Po Kau.
- 3.2 The location plan of the Stage 2 Phase 2 works is shown in **Appendix A**.

**4 CONSTRUCTION METHOD OF GRAVITY SEWER / SEWAGE RISING MAIN**

- 4.1 The proposed gravity sewers / sewage rising mains will be laid by open cut method and trenchless method.

## **5 TRAFFIC**

- 5.1 We conducted a Traffic Impact Assessment for this project. The Traffic Impact Assessment report has been submitted to Transport Department, Hong Kong Police Force and Highways Department for comment and endorsement. The report reveals that traffic impacts arising from the works can be mitigated by implementation of appropriate temporary traffic management measures. Therefore, there will be no unacceptable traffic impacts during the construction of this project.
- 5.2 The contractor will be required to implement the following temporary traffic management measures to minimize traffic impacts.
- (1) Before the commencement of each section of works, our contractor will submit construction details and temporary traffic management measures to the Traffic Management Liaison Group which consists of representatives from relevant government departments (including Transport Department, Road Management Office of Hong Kong Police Force and Highways Department) and utilities undertakers for assessment and agreement. If there are other road opening works in the same area, the combined effect to the traffic in the area would also be taken into consideration in the assessment.
  - (2) Works on roads will be carried out in phases. Length of each works area and distance from other projects will be determined according to the existing traffic conditions. We will agree with the relevant government departments prior to commencement of each section of works.
  - (3) Construction work will be carried out as recommended by our Traffic Impact Assessment in order to keep the anticipated traffic impact within acceptable level for each construction phase. Temporary decking over trenches or working pits will be provided outside working hours to maintain the vehicular flow when necessary.
  - (4) During construction, part of the footpath within the village area would be partially enclosed and temporary diversion measures would be implemented to facilitate the construction works. A sufficient width of the footpath would be maintained to allow for existing pedestrian traffic. Before commencement of works, in order to minimize the disturbance to the villagers, we will closely liaise with the village representatives and villagers on working hours of the construction works and the relevant road enclosure or temporary diversion measures.

## **6 ENVIRONMENT**

- 6.1 We had conducted a Preliminary Environmental Review (PER) for this project during the Investigation stage. The PER reveals that the proposed sewerage works will not impose adverse environmental impact to the surrounding environment. Nevertheless, we would take the following pollution control measures to minimize the environmental impacts during construction:
- (1) Dust generated from excavation would be controlled by water spraying;
  - (2) All construction waste generated from the site would be handled in accordance with EPD's requirements;

- (3) The alignments of gravity sewer and sewage rising main would be kept away from existing trees and environmental sensitive areas as far as possible; and
  - (4) At noise sensitive areas, quieter Power Mechanical Equipment, movable noise barriers, temporary enclosure or hoarding, etc. would be used.
- 6.2 Environmental mitigation measures such as fixed plant equipment housed inside a reinforced concrete structure with soundproof door, acoustic treatment equipment installed at the outlet of the air extraction fans, deodorization unit, greening etc. would be provided at the proposed/ modified sewage pumping stations to eliminate the noise, odour and visual impacts after commissioning.

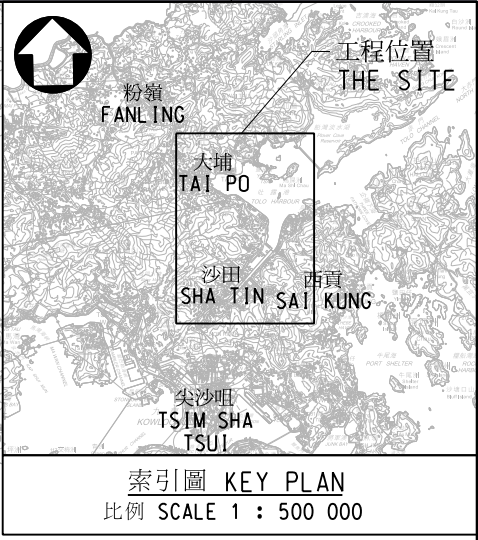
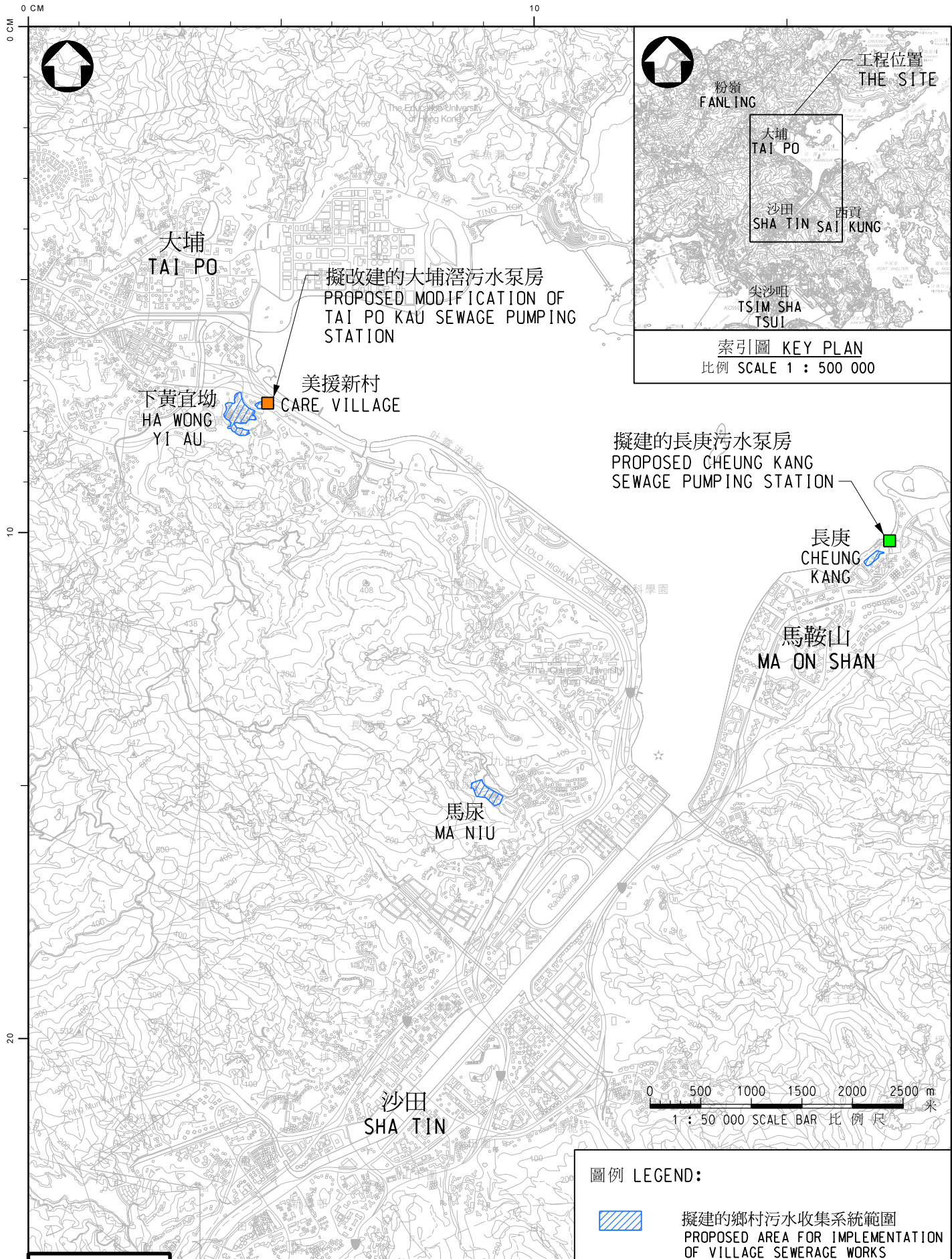
## **7 GAZETTE AND LAND MATTERS**

- 7.1 The proposed works in Ha Wong Yi Au and CARE Village in Tai Po was gazetted under Roads (Works, Use and Compensation) Ordinance (Cap. 370) as applied by section 26 of the Water Pollution Control (Sewerage) Regulation (Cap. 358, Subsidiary Legislation) in May 2017 and November 2018. No objection is received yet. The proposed works of the project would be carried out on both government lands and private lands. Those private lands would require land acquisition.

## **8 PROJECT IMPLEMENTATION PROGRAMME**

- 8.1 We plan to commence the proposed works at the earliest in the fourth quarter of 2019 for commissioning in the first quarter of 2024.

**Drainage Services Department**  
**January 2019**



**圖例 LEGEND:**

	擬建的鄉村污水收集系統範圍 PROPOSED AREA FOR IMPLEMENTATION OF VILLAGE SEWERAGE WORKS
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**PROVISIONAL**  
SUBJECT TO AMENDMENT  
20/12/2018

圖則名稱 drawing title  
4125DS - 吐露港未敷設污水設施地區的污水收集系統，第2階段 - 第2期  
4125DS - TOLO HARBOUR SEWERAGE OF UNSEWERED AREAS, STAGE 2 - PHASE 2

繪畫 drawn	W. H. CHAN	日期 date
核對 checked	W. K. CHAN	日期 date
批核 approved	Ir W. F. WONG	日期 date
部門 office	顧問工程管理部 CONSULTANTS MANAGEMENT DIVISION	

修改項目 description	簡簽 initial
圖則編號 drawing no.	比例 scale
DCM/2018/009	1 : 50000 OR AS SHOWN
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