

Task Force on Harbourfront Developments in Kowloon, Tsuen Wan and Kwai Tsing

For discussion
on 22 September 2016

TFK/07/2016

Lei Yue Mun Village Sewerage Project

PURPOSE

This paper briefs Members on the preliminary design for the Lei Yue Mun (LYM) Village Sewerage Project.

BACKGROUND

2. In October 2010, Tourism Commission presented to the Task Force on Harbourfront Developments in Kowloon, Tsuen Wan and Kwai Tsing (the Task Force) their “Lei Yue Mun Waterfront Enhancement Project”, which aims to further improve the facilities along the LYM waterfront areas with a view to enhancing the attractiveness of LYM as a tourist attraction. In that meeting, the Task Force raised concern about the lack of public sewerage in LYM Village.

3. Apart from the existing public sewers laid along part of the LYM Praya Road, there are no public sewers within LYM Village. While restaurants and a few village houses have septic tanks to treat their sewage, most village houses do not have septic tanks and sewage from these houses are being discharged to existing surface channels and enter the harbour to cause environmental nuisance.

4. To address the above concerns, the Environmental Protection Department conducted a study and confirmed the feasibility in providing sewerage to collect wastewater and polluted flow generated from LYM Village. The LYM Village Sewerage Project is now under the planning stage to be implemented by Drainage Services Department. In addition to providing public sewerage in LYM, our project also aims to minimise polluted flow from discharging into the harbour.

PROPOSED SEWERAGE WORKS

5. The proposed sewerage works are as follows:

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- (a) Construct sewers and rising mains with associated underground pumping chambers and manholes to collect and convey sewage and polluted dry weather flow (DWF) from LYM to the existing public sewerage system;
- (b) Upgrade the existing Sam Ka Tsuen Pumping Chamber;
- (c) Upgrade the existing sewers at Lei Yue Mun Praya Road;
- (d) Construct underground dry weather flow interceptors (DWFIs) to intercept polluted DWF in existing channels or drains in the LYM Village and convey the DWF to the new sewers; and
- (e) Provide associated surface drainage to reduce the amount of surface runoff entering the sewers.

6. The proposed sewers will collect sewage from restaurants, shops, village houses and structures along both sides of the main access road at LYM Village. We will attempt to extend the sewers uphill to collect sewage from village houses or squatter structures as far as possible, but as the footpaths are very narrow and excavation could affect the safety and integrity of the squatter structures, provision of sewers to the uphill areas may not be feasible and practical.

7. To minimise the polluted flow generated from the uphill areas entering the harbour, we propose to construct a few DWFIs at the downstream end of the surface channels which are now collecting rainwater as well as polluted flow discharging from the structures upstream. During dry weather, the flow in the existing surface channels is found to be polluted. These polluted DWF will be intercepted by the DWFIs and conveyed to the proposed sewers. During wet weather, the heavy and quick flow in the channels will mainly contain only rainwater and will be discharged directly to the harbour in order to avoid overloading the sewerage system.

8. The preliminary design for the proposed sewerage works is shown at **Annex 1**.

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AESTHETIC DESIGN

9. All the sewers, rising mains, pumping chambers and the DWFIs will be located underground except for the control panels of the pumping chambers. These control panels consist of electrical and electronic devices which could not be located underground due to safety reasons and operational needs. The size of the control panel will be kept to a practical minimum and not larger than 1.4 m long × 0.6 m wide × 1.8 m high. The final aesthetic design of the control panel will be agreed with the project office of the LYM Waterfront Enhancement Project and the local representatives.

CURRENT STATUS OF THE PROJECT

10. The local district councilor, village representatives, and representatives of shops and restaurants were consulted in June 2015 and also in June 2016 with a presentation of our preliminary design, and they indicated their support to the implementation of our project. The Environment and Hygiene Committee of the Kwun Tong District Council will be consulted on 20 September 2016.

11. The detailed design of the proposed sewerage works is being carried out and will be completed by mid-2017. Subject to obtaining the required funding approval, the construction works are anticipated to commence by end 2017 for completion in 2021.

COMPLIANCE WITH HARBOUR PLANNING PRINCIPLES

12. Reference has been made to the Harbour Planning Principles and Harbour Planning Guidelines when planning the proposed sewerage works at the LYM Village:

Principle 1: Preserving Victoria Harbour

- (a) Our project will not involve any reclamation works and the objective to preserve the harbour is fulfilled.

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Principle 2: Stakeholder Engagement

- (b) We have consulted the stakeholders in June 2015 and June 2016, and we will further consult the stakeholders during the detailed design of our project and during construction.

Principle 3: Sustainable Development

- (c) The project would improve the environment and hygiene of LYM village to provide a better attraction for both residents and tourists to enjoy. All the sewers and the pumping chambers are located underground to avoid any visual impact and to avoid affecting the usage of the footway above.

Principle 4: Integrated Planning

- (d) We will liaise closely with the relevant departments implementing the Lei Yue Mun Waterfront Enhancement Project to better coordinate the design and the arrangement during construction.

Principle 5: Proactive Harbour Enhancement

- (e) The proposed sewerage works will minimise sewage and polluted DWF discharging into the harbour and hence improve the water quality of the harbour.

Principle 6: Vibrant Harbour and Principle 8: Public Enjoyment

- (f) The project will improve the overall environment of LYM Village and with the implementation of the Lei Yue Mun Waterfront Enhancement Project, attract more residents and tourists to visit and enjoy the harbourfront.

Principle 7: Accessible Harbour

- (g) The project will not affect the public access to the waterfront area at LYM Village.

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ADVICE SOUGHT

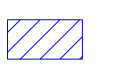
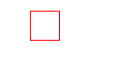
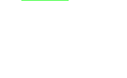








13. Members are invited to comment on the preliminary design for the LYM Village Sewerage Project.

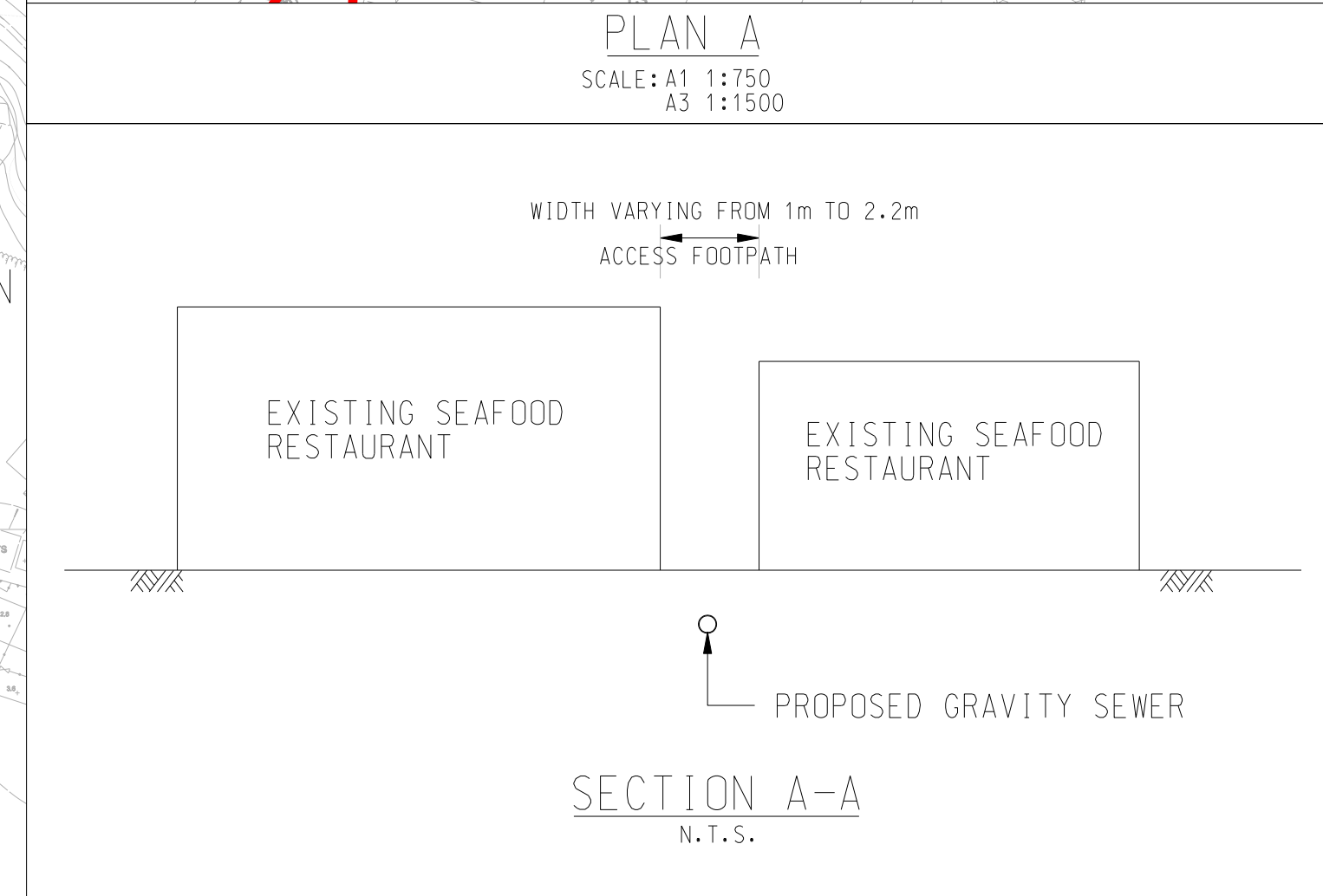
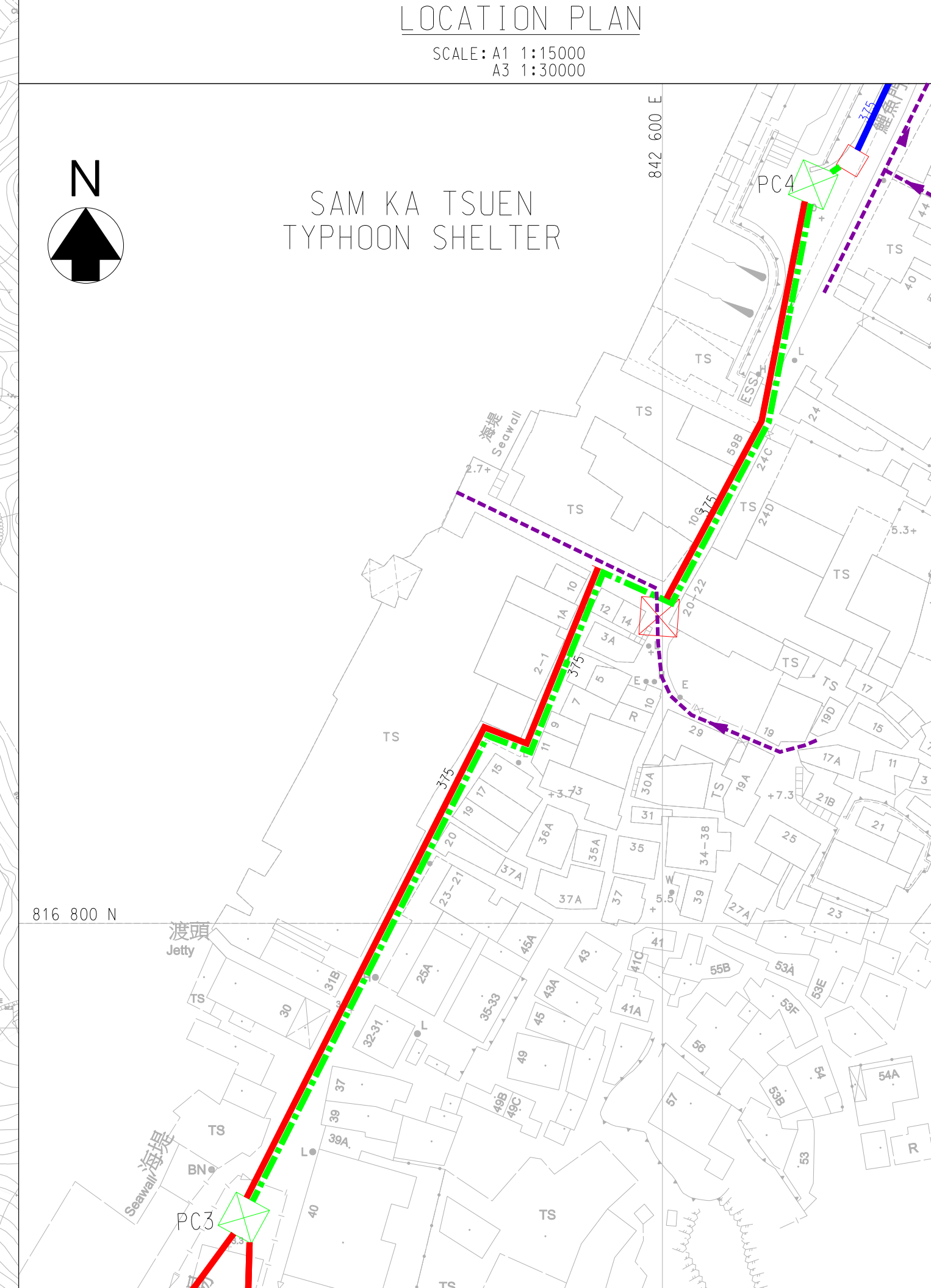
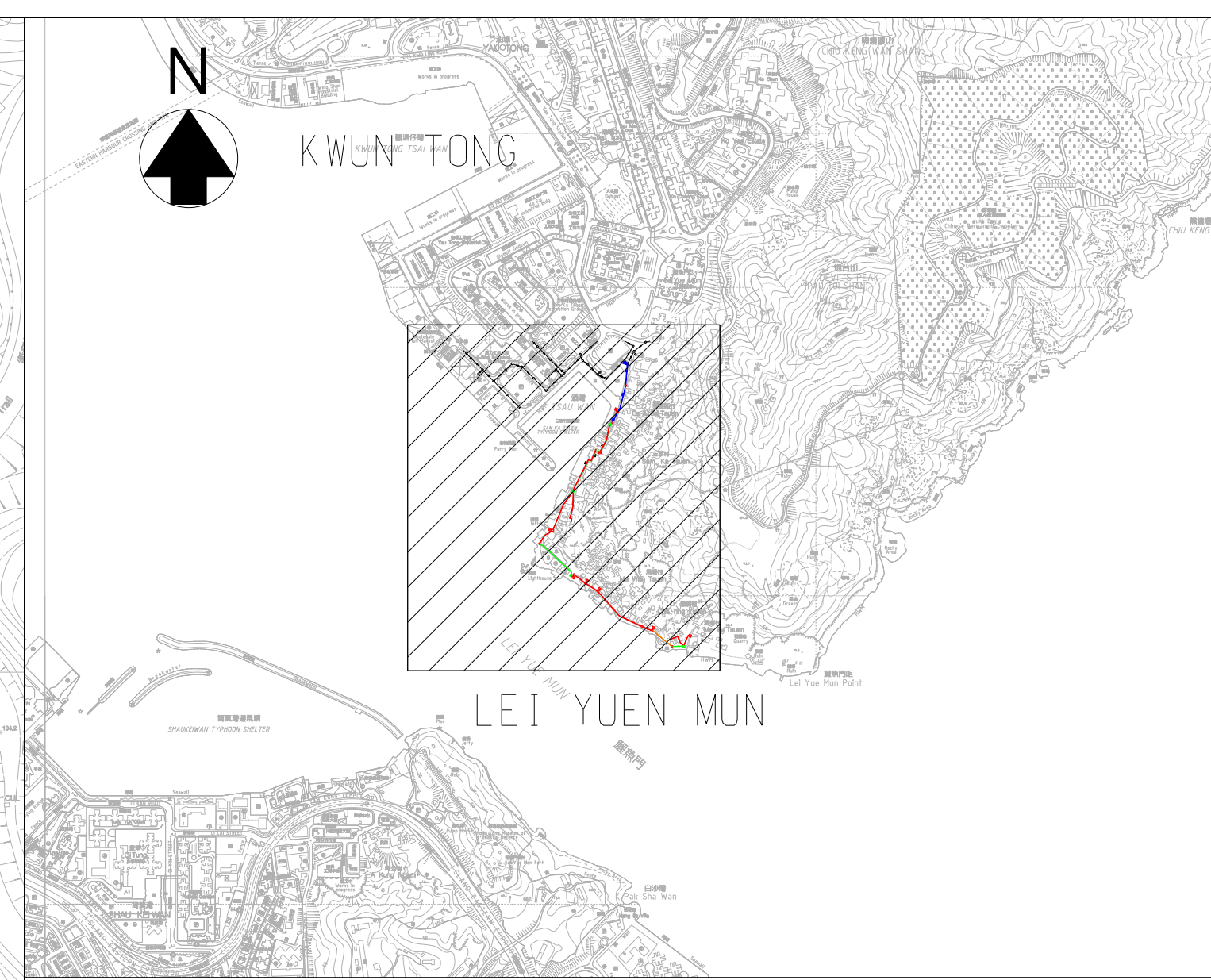
Attachment

Annex 1 – Proposed Sewerage Works Layout Plan

**Drainage Services Department
September 2016**

LEGEND:

-  EXISTING SAM KA TSUEN PUMPING CHAMBER TO BE UPGRADED
-  PROPOSED MANHOLE
-  PROPOSED UNDERGROUND PUMPING CHAMBER
-  PROPOSED UNDERGROUND DRY WEATHER FLOW INTERCEPTOR
-  375 PROPOSED GRAVITY SEWER
-  375 PROPOSED RISING MAIN
-  PROPOSED 375mm DIA. GRAVITY SEWER TO REPLACE EXISTING SEWER
-  PROPOSED RISING MAIN BY TRENCHLESS METHOD
-  EXISTING SEWER
-  EXISTING MANHOLE
-  EXISTING SURFACE CHANNEL WITH DRY WEATHER FLOW TO BE INTERCEPTED



Revision	Date	Description	Initial
Initial	Designed	Checked	Drawn
Initial	SL	JOEL	SZ
Date	08/16	08/16	08/16

Ageement No. CE 64/2013 (DS)

Contract title
LEI YUE MUN VILLAGE SEWERAGE - INVESTIGATION DESIGN AND CONSTRUCTION

Drawing title
PROPOSED SEWERAGE WORKS LAYOUT PLAN

Drawing no. 186151/B&V/HFC/001

Scale A1 1:1500
A3 1:3000

