

本署機號
OUR REF: (7) in EP2/N7/A/78 PL28
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YOUR REF 231448/(CV/2017/02)/M45/950/B02273
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Environmental Protection Department
Branch Office
28th Floor, Southern Centre,
130 Hennessy Road,
Wan Chai, Hong Kong.



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軒尼詩道
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修頓中心廿八樓

30 November 2022

By Post & Fax: 2516 9430

Hsin Chong Tsun Yip Joint Venture
Hsin Chong Tower, 107 – 109 Wai Yip Street
Kwun Tong, Kowloon
(Attn: Mr. HO Man To)

Dear Mr. HO,

Environmental Impact Assessment (EIA) Ordinance (Cap. 499)
Site Formation and Associated Infrastructural Works for Development of
Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery

Employment of Environmental Team (ET)
(Environmental Permit No. FEP-01/534/2017A – Proposed Minimum On-Site
Time for ET Leader and ET under EP Condition 2.1)

I refer to your letter dated 24.11.2022 enclosing the proposal for minimum on-site time for Environmental Team (ET) Leader and ET under EP Condition 2.1 for our approval.

2. Pursuant to Condition 2.1 of EP No. FEP-01/534/2017/A, please be advised that the proposed minimum on-site time for ETL and ET is hereby approved. Please be reminded that the ET is required to carry out the duties as specified in Conditions 2.2 and 2.3 of the captioned EP.

3. Should you have any queries, please contact the undersigned or our Mr. Alex Lyn at 2835 1117.

Yours sincerely,

(Dr. MA Chi Wai)

Acting Senior Environmental Protection Officer
for Director of Environmental Protection

c.c.

CEDD-DPTL (Land Works)
AUES

(Attn.: Steven SHUM)
(Attn.: T. W. TAM)

Fax No. 2714 0079
Fax No. 2959 6079

b.c.c. internal:

S(RN)3 – with enclosure $m f(6)$

Our Ref: TCS00881/18/300/L0693

Environmental Protection Department
EIAO Register Office
27th floor, Southorn Centre,
130 Hennessy Road, Wan Chai,
Hong Kong

Attn: EIAO Register Office

24 November 2022
By Courier

Dear Sir/ Madam,

Re: Contract No.: CV/2016/10
Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery
Environmental Permit No. FEP-01/534/2017/A
EP Condition 2.1
Submission of Proposal on minimum on-site time for the Environmental Team Leader and Environmental Team

On behalf of the Permit Holder of FEP-01/534/2017, we submit herewith a Proposal on minimum on-site time for the Environmental Team Leader and Environmental Team (Version 4a) incorporating your comment for your approval

Enclosed please find the following documents for your kind perusal:-

- i) CEDD's Clarification Letter regarding Submission and Notifications;
- ii) Response to Comments;
- iii) Certification letter of ET Leader;
- iv) Verification letter if IEC; and
- v) Proposal on minimum on-site time for the Environmental Team Leader and Environmental Team (Version 4a) (4) hard copies and one (1) electronic copy

Should you have any question or require further information, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely,

For and on Behalf of

Action-United Environmental Services & Consulting (AUES)



T. W. Tam
Environmental Team Leader

Encl.

cc	CEDD	Mr. SHUM Ngai Hung, Steven
	ARUP (RE of Contract 1)	Mr. Anthony Lau
	Acuity (IEC)	Mr. Jacky Leung
	HCTY-JV (Contractor of Contract 1)	Mr. Ho Man To

Our Ref: TCS00881/18/300/L0693

Environmental Protection Department
EIAO Register Office
27th floor, Southorn Centre,
130 Hennessy Road, Wan Chai,
Hong Kong

Attn: EIAO Register Office

24 November 2022

By Courier

Dear Sir/ Madam,

Re: Contract No.: CV/2016/10
Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery
Environmental Permit No. FEP-01/534/2017/A
EP Condition 2.1
Submission of Proposal on minimum on-site time for the Environmental Team Leader and Environmental Team

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Enclosed please find the following documents for your kind perusal:-

- i) CEDD's Clarification Letter regarding Submission and Notifications;
- ii) Response to Comments;
- iii) Certification letter of ET Leader;
- iv) Verification letter if IEC; and
- v) Proposal on minimum on-site time for the Environmental Team Leader and Environmental Team (Version 4a) (4) hard copies and one (1) electronic copy

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Yours sincerely,

For and on Behalf of

Action-United Environmental Services & Consulting (AUES)



T. W. Tam
Environmental Team Leader



Encl.

cc CEDD
ARUP (RE of Contract 1)
Acuity (IEC)
HCTY-JV (Contractor of Contract 1)

Mr. SHUM Ngai Hung, Steven
Mr. Anthony Lau
Mr. Jacky Leung
Mr. Ho Man To



安順聯合環境服務及顧問
Action-United Environmental Services & Consulting

Our Ref: TCS00881/18/300/L0092

Civil Engineering and Development Department
Civil Engineering Office
Land Works Division
Section 8
2/F, Civil Engineering and Development Building,
101 Princess Margaret Rd,
Homantin, Kowloon

Attn: Mr. Joseph WONG

30 July 2018
By e-mail

Dear Sir/ Madam,

Re: CEDD Contract CV/2016/10
Site Formation and Associated Infrastructural Works for Development of
Columbarium at Sandy Ridge Cemetery
Submission and Notifications
(Environmental Permit No. EP-534/2017)
(Further Environmental Permit No. FEP-01/534/2017)

With reference to your letter to Environmental Protection Department (EPD) (letter ref.: (COL5AY) in LW-30-3005-3268-06) dated 27 July 2018 concerning on the captioned. Please note that we have no objection on your letter which confirmed that all relevant submission and notifications from Hsin Chong Tsun Yip Joint Venture (HCTYJV) under this FEP No. FEP-01/534/2017 also serves as the corresponding EP submissions and notifications for the relevant geographical areas under the mother EP No. EP-534/2018 which CEDD is the Permit Holder.

Should you have any question or require further information, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely,
For and on Behalf of
Action-United Environmental Services & Consulting (AUES)

T. W. Tam
Environmental Team Leader

cc	IICTY-JV (Contractor)	Mr. Ho Man To	by-email
	Acuity (IEC)	Mr. Jacky Leung	by-email
	ARUP	Mr. Steven Tang	by-email



土木工程拓展署
Civil Engineering and
Development Department

Web site 網址 : <http://www.cedd.gov.hk>
E-mail 電子郵件 : ypcheng@cedd.gov.hk
Telephone 電話 : (852) 2762 5645
Facsimile 傳真 : (852) 2714 0079
Our reference 本署檔號 : (COL581Y) in LW-30-3005-3268-06
Your reference 來函檔號 : () in EP2 N7 A 78 Pt 6

土木工程處
Civil Engineering Office

香港九龍公主道101號
土木工程拓展署大樓
Civil Engineering and
Development Building,
101 Princess Margaret Road,
Kowloon, Hong Kong.

Environmental Impact Assessment Ordinance Register Office
27/F, Southom Centre
130 Hennessy Road
Wan Chai, Hong Kong

27 July 2018
Urgent by Post

Dear Sirs,

**Site Formation and Associated Infrastructural Works for Development of
Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery**

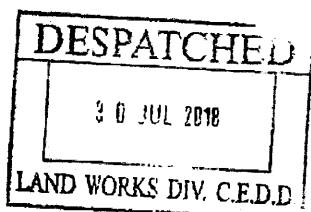
**Submissions and Notifications
(Environmental Permit No. EP-534/2017)
(Further Environmental Permit No. FEP-01/534/2017)**

Hsin Chong Tsun Yip Joint Venture (HCTYJV) is the Permit Holder of the Further Environmental Permit No. FEP-01/534/2017 (FEP) under the captioned designated project. This is to confirm that all relevant submissions and notifications from HCTYJV submitted under this FEP also serve as the corresponding EP submissions and notifications for the relevant geographical areas under the mother EP No. EP-534/2017 which CEDD is the Permit Holder.

Please contact the undersigned at 2762 5658 if you have any queries.

Yours faithfully,

(Joseph WONG)
for Chief Engineer/Land Works
Civil Engineering Office
Civil Engineering and Development Department



c.c.
Site Office
Hsin Chong Tsun Yip Joint Venture
ETL (AUES)
IEC (Acuity)
E/81, PC/82 - to note in file

- By dispatch
- By fax: 2633 4691
- By fax: 2959 6079
- By fax: 2268 3950

Our Ref: TCS00881/18/300/L0649a

Hsin Chong Tsun Yip Joint Venture
Hsin Chong Center,
107-109 Wai Yip Street,
Kwun Tong,
Kowloon, Hong Kong

Attn: Mr. HO Man To

14 November 2022
By Hand

Dear Sir,

Re: CEDD Contract CV/2016/10
Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery
Proposal on minimum on-site time for the Environmental Team Leader and Environmental Team (Version 4a)

We refer to the captioned proposal which prepared to fulfil Environmental Permit no. FEP-01/534/2017/A Conditions 2.1. We herewith certify the captioned Proposal pursuant to Environmental Permit no. FEP-01/534/2017/A Conditions 2.1 and 1.9.

Should you have any queries, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely,
For and on Behalf of
Action-United Environmental Services & Consulting (AUES)



T. W. Tam
Environmental Team Leader
TW/nh

cc	CEDD	Mr. SHUM Ngai Hung, Steven	By-email
	ARUP (RE of Contract 2)	Mr. Anthony Lau	By-email
	Acuity (IEC)	Mr. Jacky Leung	by e-mail

Our Ref.: PL-202211037

Hsin Chong Tsun Yip Joint Venture (CV/2016/10)
Hsin Chong Centre
107 – 109 Wai Yip Street
Kwun Tong, Kowloon
Hong Kong

Attention: Mr. HO Man-to

24 November 2022

Dear Sir,

**Site Formation and Associated Infrastructural Works for Development of Columbarium at
Sandy Ridge Cemetery
Proposal on Minimum On-site Time for the Environmental Team Leader and Environmental
Team (Version 4a)**

Referred to the email from ET concerning the above, I have no adverse comment on the revised Proposal on Minimum On-site Time for the Environmental Team (ET) Leader and ET (Version 4a). According to section 1.9 of the FEP with permit no. FEP-01/534/2017A, I hereby verify the captioned proposal with reference no. TCS00881/18/600/R0175v4a.

Yours faithfully,



Leung CH Jacky
Independent Environmental Checker

PROJECT NO.: TCS/00881/18



CEDD CONTRACT CV/2016/10
SITE FORMATION AND ASSOCIATED
INFRASTRUCTURAL WORKS FOR DEVELOPMENT OF
COLUMBARIUM AT SANDY RIDGE CEMETERY

SUBMISSION UNDER ENVIRONMENTAL PERMIT:
FEP-01/534/2017 AND COVERS THE GEOGRAPHICAL
AREA OF CONTRACT CV/2016/10

PROPOSAL ON MINIMUM ON-SITE TIME FOR THE
ENVIRONMENTAL TEAM (ET) LEADER AND ET

PREPARED FOR
HSIN CHONG TSUN YIP JOINT VENTURE

Quality Index

Date	Reference No.	Prepared By	Certified by
21 September 2022	TCS00881/18/600/R0175v4a	 Nicola Hon (Environmental Consultant)	 T.W. Tam (Environmental Team Leader)

Ver.	Date	Description
1	3 Dec 2018	First submission
2	5 Mar 2020	Amended according to EPD's comments
3	24 Dec 2020	Amended according to EPD's comments
4	21 Sep 2022	Amended according to EPD's comments

This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

Table of Contents

1	INTRODUCTION	1
2	THE ORGANIZATION AND DUTIES OF ENVIRONMETNAL TEAM	5
3	DEFICIENCY	13
4	ACTION REPORTING PROCEDURE	15
5	REVIEW OF MINIMUM ON-SITE TIME	17

LIST OF TABLES

Table 2-1	Justification of minimum on-site time of the Environmental Team
Table 2-2	Justification of minimum on-site time of the Ecologist
Table 2-3	Justification of minimum on-site time of the Registered Landscape Architect
Table 2-4	Recommended Additional on-site time of the ET during Critical Activities
Table 2-5	Reference Information and Documents for Conducting Inspection
Table 2-6	Communication procedure of ET and IEC
Table 4-1	Action Reporting Procedures for deficiencies

LIST OF APPENDICES

Appendix A	Location of the Project
Appendix B	The geographical location of Contract 1 under FEP-01/534/2017/A and layout plan of Contract 1
Appendix C	The employment of ET and associated declaration letter
Appendix D	Notification of commencement date of construction of the Project
Appendix E	Project organization and lines of communication
Appendix F	Proposed Environmental Team Leader
Appendix G	Proposed Qualified Ecologist(s)
Appendix H	Proposed Registered Landscape Architect
Appendix I	Accommodation of Environmental Team
Appendix J	Locations of environmental monitoring stations
Appendix K	Construction Master Programme
Appendix L	Environmental Site Inspection Checklist

1 INTRODUCTION

1.1 Background

1.1.1 Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery” (hereafter referred as “the Project”) is classified as Designated Project which required Environmental Permit as per Schedule 2, Part 1 of the EIAO.

1.1.2 The Environmental Impact Assessment (EIA) Report for the Project was approved under the EIAO Ordinance in August 2016. An Environmental Permit No. EP-534/2017 was issued to Civil Engineering and Development Department (CEDD) on 7 April 2017 and FEP-01/534/2017 was issued to Hsin Chong Tsun Yip Joint Venture on 23 February 2018. After the project commencement, variation of EP was applied by the Permit Holder and EP no. EP-534/2017/A and FEP-01/534/2017/A were subsequently issued on 24 December 2018.

1.2 Project Description

1.2.1 The location of the Designated Project is located in Sandy Ridge Cemetery, New Territories and the location of the Project is shown in **Appendix A**. The Project mainly comprises of:

- Site formation of about 5.5 hectares of land and associated drainage, sewerage and landscape works for development of Columbarium and Crematorium facilities at the Sandy Ridge Cemetery;
- Construction of a new road (about 800m) connecting the Crematorium and Man Kam To Road and the pick-up/drop-off point at Man Kam To Road;
- Widening of two sections of the existing Sha Ling Road (about 900m and 500m respectively);
- Widening of about 1.4km of the existing Lin Ma Hang Road; and
- Improvement works to the existing barging point at Siu Lam

1.2.2 To facilitate the Project management, the Project were separated into three different Work Contracts and they are listed below.

- CEDD Contract No. CV/2016/10 - Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery (hereafter referred as “Contract 1”) and implemented under FEP-01/534/2017/A
- CEDD Contract No. CV/2017/02 - Infrastructural Works at Man Kam To Road and Lin Ma Hang Road for Development of Columbarium at Sandy Ridge Cemetery (hereafter referred as “Contract 2”) and implemented under EP-534/2017/A
- CEDD Contract No. (to be confirmed) (hereafter referred as “Contract 3”)

1.2.3 Hsin Chong Tsun Yip Joint Venture (hereafter referred as “HCTYJV”) has been awarded the CEDD Contract No. CV/2016/10 “Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery” on 5 December 2017. According to the Contract requirement, HCTYJV shall take over the responsibility for part of the Environmental Permit No. EP-534/2017 for ease of management, therefore application for Further Environmental Permit was submitted by HCTYJV to EPD on 26 January 2018 and Further Environmental Permit No. FEP-01/534/2017 was granted to HCTYJV by EPD on 23 February 2018 and subsequent variation of Further Environmental Permit No. FEP-01/534/2017/A issued by EPD on 24 December 2018.

1.2.4 The geographical location of Contract 1 under FEP-01/534/2017 and layout plan of Contract 1 is shown in **Appendix B**. Major works to be executed under the Contract 1 shall include the following:

- (i) Site formation of about 1.77 ha of land for the proposed pick-up and drop-off area for shuttle bus operation;
- (ii) Upgrading of a section of 900m existing Sha Ling Road from 3m wide carriageway to

- 7.3m wide carriageway with footpath at both sides;
- (iii) Construction of one EVA with a total length of about 160m;
- (iv) Construction of noise barriers along Sha Ling Road;
- (v) Modification of junction between Man Kam To Road and Sha Ling Road;
- (vi) Construction of a new pick up / drop off point at Man Kam To Road;
- (vii) Relocation and construction of a new refuse collection point near junction between Man Kam To Road and Sha Ling Road;
- (viii) Associated geotechnical works including cut and fill slopes, soil nailing works and retaining structures;
- (ix) Associated drainage, sewerage and waterworks along Sha Ling Road; and
- (x) Associated landscaping works.

1.2.5 Action-Environmental Services & Consulting (hereinafter referred as “AUES”) has been commissioned as an Environmental Team (hereinafter referred as “the ET”) for Contact 1 to implement the relevant EM&A program in accordance with the approved EM&A Manual, as well as the associated duties. AUES does not have any association relationship and conflict of interest with the Main Contractor of Contract 1 and Independent Environmental Checker (IEC). The employment of ET and associated declaration letter are shown in **Appendix C**. Notification of commencement date of construction had been submitted to EPD no later than one month prior to the commencement of construction of the Project, and the relevant submission is shown in **Appendix D**.

1.3 Project Organization

- 1.3.1 The proposed project organization and lines of communication with respect to environmental protection works are shown in **Appendix E**.
- 1.3.2 The leader of the ET shall be an independent party from the Contractor and has relevant professional qualification, or have sufficient relevant EM&A experience subject to approval of the ET.
- 1.3.3 The responsibilities of respective parties are:

The Contractor

- Implement the EIA recommendations and requirements;
- Employ an ET to undertake monitoring, laboratory analysis and reporting of environmental monitoring and audit;
- Provide assistance to ET in carrying out monitoring and auditing;
- Submit proposals on mitigation measures in case of exceedances of Action and Limit Levels in accordance with the Event and Action Plans;
- Implement measures to reduce impact where Action and Limit Levels are exceeded; and
- Adhere to the agreed procedures for carrying out compliant investigation.

Environmental Team

- Set up all the required environmental monitoring stations;
- Monitor various environmental parameters as required in the EM&A Manual;
- Analyse the environmental monitoring and audit data and review the success of EM&A programme to cost-effectively confirm the adequacy of mitigation measures implemented and the validity of the EIA predictions and to identify any adverse environmental impacts arising;
- Carry out site inspection to investigate and audit the Contractors’ site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and take proactive actions to pre-empt problems;
- Audit and prepare audit reports on the environmental monitoring data and site environmental conditions;
- Report on the environmental monitoring and audit results to the IEC, Contractor, the ER and

- EPD or its delegated representative;
- Recommend suitable mitigation measures to the Contractor in the case of exceedance of Action and Limit Levels in accordance with the Event and Action Plans;
- Undertake regular on-site audits / inspections and report to the Contractor and the ER of any potential non-compliance;
- Follow up and close out non-compliance actions; and Adhere to the procedures

Engineer or Engineer's Representative

- Supervise the Contractor's activities and ensure that the requirements in the EM&A Manual are fully complied with;
- Inform the Contractor when action is required to reduce impacts in accordance with the Event and Action Plans;
- Assist the Project Proponent in employing an IEC to audit the results of the EM&A works carried out by the ET;
- Comply with the agreed Event Contingency Plan in the event of any exceedance; and
- Adhere to the procedures for carrying out complaint investigations.

Independent Environmental Checker

- Review the EM&A works performed by the ET (at not less than monthly intervals);
- Audit the monitoring activities and results (at not less than monthly intervals);
- Validate and confirm the accuracy of monitoring results, monitoring equipment, monitoring locations, monitoring procedures and location of sensitive receivers;
- Report the audit results to the ER and EPD in parallel;
- Review the EM&A reports (monthly and quarterly summary reports) submitted by the ET;
- Review the proposal on mitigation measures submitted by the Contractor in accordance with the Event and Action Plans;
- Check the mitigation measures submitted by the Contractor in accordance with the Event and Action Plans;
- Check the mitigation measures that have been recommended in the EIA and this Manual, and ensure they are properly
- implemented in a timely manner, when necessary; and
- Report the findings of site inspections and other environmental performance reviews to ER and EPD.

1.3.4 The construction works under the project involved large amount of earthwork in site formation and ecologically important species and habitats that require special attention. To prevent the environmental impacts/ violation, of environmental legislation, and potential non-compliance / contravention incidents, according to the Contractor's latest construction programme, a Proposal on minimum on-site time for the ET Leader and ET (hereinafter 'the Proposal') is prepared by the ET to present the methodology for the site inspection of the Project and the associated deficiency and action reporting procedures, covers the relevant geographical area of the Contract 2.

1.4 Nature of Project

1.4.1 The nature of Designated Project included a drainage channel which discharges into an area which is less than 300 m from the nearest boundary of an existing conservation area. The potential environmental impact has been assessed in the EIA Report. It is recommended to implement an Environmental Monitoring & Audit (EM&A) programme throughout the entire construction period to regularly monitor the environmental impacts on the neighbouring sensitive receivers. All the requirements (including dust, airborne noise, water quality, waste management, land contamination, ecology, landscape & visual, and cultural heritage) in the EM&A Manual shall be complied with.

1.4.2 The construction works under the project involved large amount of earthwork in site formation and ecologically important species and habitats that require special attention. To prevent the environmental impacts/ violation, of environmental legislation, and potential non-compliance /

contravention incidents, according to the Contractor's latest construction programme, a Proposal on minimum on-site time for the ET Leader and ET (hereinafter 'the Proposal') is prepared by the ET to present the methodology for the site inspection of the Project and the associated deficiency and action reporting procedures, covers the relevant geographical area of the Contract 2.

1.5 Objective of the Report

1.5.1 Pursuant to Environmental Permit *FEP-01/534/2017/A Condition 2.1*, the minimum on-site time for the ET Leader and ET and the qualifications of the specialist in the ET shall be proposed with justifications for approval of the Director. This is the proposal on minimum on- site time for the ET Leader and ET for the geographical location of Contract 1. The Proposal will be implemented throughout the construction period of the Project upon endorsement by EPD.

1.5.2 The Proposal is structured into four sections as follows:

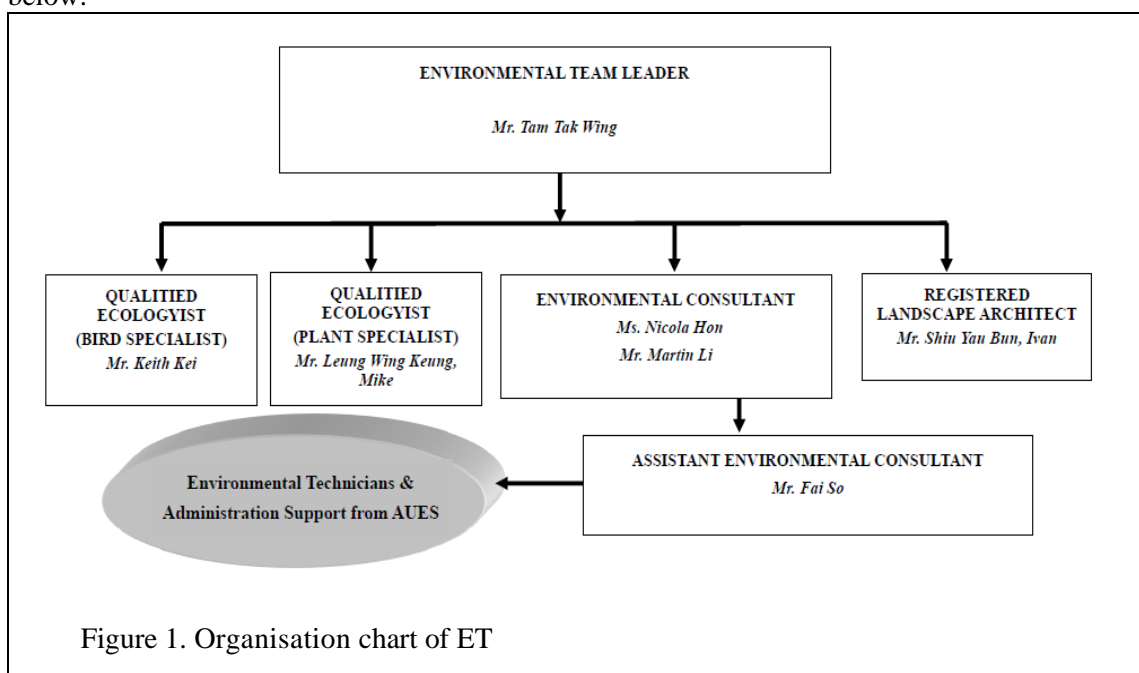
- 1 Introduction
- 2 The organization and duties of Environmental Team
- 3 Deficiency
- 4 Action Reporting Procedure
- 5 Review of minimum on-site time

2 THE ORGANIZATION AND DUTIES OF ENVIRONMENTAL TEAM

2.1 Key Staff of Environmental Team

2.1.1 An ET shall be established by the Permit Holder no later than one month before the commencement of construction of the Project. The ET shall not be in any way an associated body of the Contractor or the IEC for the Project. The Permit Holder shall provide a site office/suitable work accommodation on site to the ET for use. The ET shall be headed by an ET Leader and supported by relevant specialists including qualified ecologist(s) and Registered Landscape Architect. The ET Leader shall be a person who has at least 7 years of experience in EM&A or environmental management. The minimum on-site time for the ET Leader and ET, and the qualifications of the specialists in the ET shall be proposed with justifications for the approval of the Director.

2.1.2 The organisation chart of ET with the deployment of specific specialist is shown in **Figure 1** below.



2.2 Duties of Environmental Team

2.2.1 As stated in Condition 2.2 of the **FEP-01/534/2017/A**, the ET and the ET Leader shall be responsible for:

- (i) implementing the EM&A programme in accordance with the EM&A requirements as contained in the EM&A Manual of the Project as mentioned in Condition 3.1;
- (ii) certifying the environmental acceptability of permanent and temporary works, relevant plans and submissions required in the EM&A Manual and under this Permit;
- (iii) carrying out site inspections to audit the Contractor's site practice and work methodologies with respect to environmental mitigation measures contained in the EM&A Manual of the Project and to take pro-active actions to pre-empt environmental problems;
- (iv) notifying the IEC within one working day of the occurrence of each and every instance or circumstance or change of circumstances, which may affect the compliance with the recommendations of the approved EIA Report (Register No. AEIAR-198/2016) and this Permit; and
- (v) keeping a contemporaneous log-book of any such instance or circumstance or change of circumstances. The log-book shall be kept readily available for inspection by all

persons assisting in supervision of the implementation of the recommendations of the approved EIA Report (Register No. AEIAR-198/2016) and this Permit or by the Director or his authorized officers.

2.2.2 A proposal for employment of ETL including qualification was submitted to EPD and approved on 21 May 2018. The relevant proposal and approval letter are shown in **Appendix F**.

2.3 Employment of Qualified Ecologist(s)

2.3.1 According to **FEP-01/534/2017/A Condition 2.4**, Qualified Ecologist(s) shall be appointed, no later than one month before commencement of the construction of the Project, to form part of the ET to carry out works relating to ecological aspects including but not limited to a details vegetation survey, baseline survey for Golden-headed Cisticola and submissions for the Project as required under Condition 2.14 to 2.20. Each Qualified Ecologist shall be a person who has at least 5 years of relevant experience. The qualification and experience of the Qualified Ecologist(s) shall be certified by the ET Leader and verified by the IEC.

2.3.2 A proposal for employment of Qualified Ecologist(s) (QE) including qualification and experience of the QE with justifications was submitted to EPD and approved on 21 June 2018. Subsequence proposal on replacement of QE(s) was approved by EPD on 30 June 2020. The relevant proposal and approval letters are shown in **Appendix G**.

2.4 Duties of Registered Landscape Architect

2.4.1 According to **FEP-01/534/2017/A Condition 2.5**, a Registered Landscape Architect shall be appointed, no later than one month before commencement of the construction of the Project, to form part of the ET to carry out works relating to landscape aspects including but not limited to auditing the mitigation measures to ensure compliance with the recommendations of the approved EIA Report (Register No. AEIAR-198/2016) to certify submissions for the Project as required under Conditions 2.21 to 2.22. The qualification and experience of the Registered Landscape Architect shall be certified by the ET Leader and verified by the IEC.

2.4.2 A proposal for employment of Registered Landscape Architect (RLA) including qualification and experience of the QE with justifications was submitted to EPD and approved on 23 May 2018. The relevant proposal and approval letter are shown in **Appendix H**.

2.4.3 Besides, as referred to S.3.1.1.3 of the EM&A Manual, the duties of the ET and ET Leader shall include the followings:

- Set up all the required environmental monitoring stations;
- Monitor various environmental parameters as required in the EM&A Manual;
- Analyse the environmental monitoring and audit data and review the success of EM&A programme to cost-effectively confirm the adequacy of mitigation measures implemented and the validity of the EIA predictions and to identify any adverse environmental impacts arising;
- Carry out site inspection to investigate and audit the Contractors' site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and take proactive actions to pre-empt problems;
- Audit and prepare audit reports on the environmental monitoring data and site environmental conditions;
- Report on the environmental monitoring and audit results to the IEC, Contractor, the ER and EPD or its delegated representative;
- Recommend suitable mitigation measures to the Contractor in the case of exceedance of Action and Limit Levels in accordance with the Event and Action Plans;
- Undertake regular on-site audits / inspections and report to the Contractor and the ER of any potential non-compliance;
- Follow up and close out non-compliance actions; and

- Adhere to the procedures

2.4.4 Besides, as referred to S.3.1.1.3 of the EM&A Manual, the duties of the ET and ET Leader shall include the followings:

- Set up all the required environmental monitoring stations;
- Monitor various environmental parameters as required in the EM&A Manual;
- Analyse the environmental monitoring and audit data and review the success of EM&A programme to cost-effectively confirm the adequacy of mitigation measures implemented and the validity of the EIA predictions and to identify any adverse environmental impacts arising;
- Carry out site inspection to investigate and audit the Contractors' site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and take proactive actions to pre-empt problems;
- Audit and prepare audit reports on the environmental monitoring data and site environmental conditions;
- Report on the environmental monitoring and audit results to the IEC, Contractor, the ER and EPD or its delegated representative;
- Recommend suitable mitigation measures to the Contractor in the case of exceedance of Action and Limit Levels in accordance with the Event and Action Plans;
- Undertake regular on-site audits / inspections and report to the Contractor and the ER of any potential non-compliance;
- Follow up and close out non-compliance actions; and
- Adhere to the procedures

2.5 Accommodation on site to the ET

2.5.1 A work accommodation on site has been provided to the ET for use. It is an independent room in site office with suitable furniture and internet access. The location of the ET's site accommodation is shown in **Appendix I**.

2.6 Proposed Minimum On-site Time

2.6.1 According to the duties of the ET and ET Leader stated in the EM&A Manual and ET, responsibilities that have to be discharged on site included site audit, environmental monitoring, site meeting and keeping contemporaneous log-book. The justification of minimum on-site time of the ET, QE and RLA are show in **Tables 2-1, 2-2 and 2-3**. Geographical area that requires environmental monitoring and audit by the ET cover whole site boundary of Contract 1. The location of environmental monitoring stations and woodland compensation are shown in **Appendix J**.

Table 2-1 Justification of minimum on-site time of the Environmental Team

Item	Works to be carried out on-site	Purposes / duties and responsibility	Approximate Time input by ET
1	General site inspection	(i) To investigate and audit the Contractor's site practice and work methodologies with respect to environmental mitigation measures contained in the EM&A Manual of the Project to take pro-active actions to pre-empt environmental problems; (ii) To review the effectiveness of environmental mitigation measures and performance of the Project; (iii) To identify any environmental deficiency and any non-compliance; (iv) Follow up and close out non-compliance	4 hour per week throughout the construction period

Item	Works to be carried out on-site	Purposes / duties and responsibility	Approximate Time input by ET
		actions; (v) Adhere to the procedure for carrying out environmental complaint investigation	
2	Baseline Monitoring/ Baseline Period	(i) Set up all the required environmental monitoring stations (ii) Carry out baseline for monitor various environmental parameters as required in the EM&A Manual (iii) Certifying the environmental acceptability of permanent and temporary works, plans and submissions required in the EM&A Manual and under Conditions 2.1 – 2.25	(i) 6hr to set up station (ii) Water quality: 4hr X 3 days for 4 weeks (iii) 1-hour and 24 hour TSP: 6hr X 14 days (iv) Construction noise: 3hr X 12 days (v) 3 hour per week for site visit before certifying required plans and submission.
3	Impact monitoring during construction period	(i) Set up all the required environmental monitoring stations (ii) Monitor various environmental parameters as required in the EM&A Manuals	(i) 4hr to set up station (ii) Water quality: 6hr per week; hr and 24-hr TSP: 4hr per week; construction noise: 3hr per week (iii) 1 day site visit and 1 day site investigation
4	Handling non-compliance related to exceedances of environmental parameters	(i) Carry out additional monitoring and audit on the non-compliance of environmental performance.	Water quality: 0.5hr per event 1-hr and 24-hr TSP: 3hr per event Construction noise: 0.5hr per event
5	Handling complaints, summons and prosecutions	(i) Adhere to the procedures for carrying out environmental complaint investigation; (ii) Carry out additional monitoring and audit on the non-compliance of environmental performance.	4 hour per event
6	Monitoring during establishment period	(i) Monitor various environmental parameters as required in the EM&A Manuals, such as road traffic noise during operational phase	On site noise measurement and traffic count for 3hr per event
7	Meeting with ER, Contractor and IEC	(i) Communication between ET, IEC and the Contractor on environmental matters (ii) To discuss with ET, IEC and the Contractor any environmental deficiencies and recommend improvement measures and follow up actions	8 hour per month
8	keeping a contemporaneous log-book	(i) keeping a contemporaneous log-book of any such instance or circumstance or change of circumstances.	2 hour per month

Remark: The total ET's minimum on-site time per week is ~ 38hrs

Table 2-2 Justification of minimum on-site time of the Ecologist

Item	Works to be carried out	Purposes / duties and responsibility
------	-------------------------	--------------------------------------

	on-site	Purposes / duties and responsibility	Approximate Time input by QE
1	Baseline Monitoring/ Baseline Period	(i) Carry out baseline survey for Golden-headed Cisticola (ii) To prepare the vegetation survey report and transplantation proposal (iii) To prepare the Woodland Compensation Plan	(i) 2hr X 3 days for baseline survey for Golden-headed Cisticola (ii) 2hr X 3 days site visit for vegetation survey report and transplantation proposal (iii) 2hr X 2 days site visit for Woodland Compensation Plan
2	Impact monitoring during construction period	(i) Monitoring of measures to minimise impacts to sensitive habitats during construction by a suitably ecologist (ii) Checking and review of the implementation of mitigation measures in vegetation survey report and transplantation proposal, by QE, such as transplanted of the target species and monitoring the health condition of the transplanted trees. (iii) Carry out precautionary checks for the presence of nesting birds on the presence of nesting birds before any vegetation clearance in breeding season (February to July of every year) by QE	(i) 6hr per month for monitoring of measures to minimise impacts to sensitive habitats (ii) 0.5hr per month for checking the implementation of mitigation measures in vegetation survey report and transplantation proposal (iii) 2hr per event for precautionary checks, if needed
3	Monitoring during establishment period	(ii) Carry out baseline and quantitative monitoring for woodland compensation area	(iii) 4hr per monitoring event

Table 2-3 Justification of minimum on-site time of the Registered Landscape Architect

Item	Works to be carried out on-site	Purposes / duties and responsibility	
		Purposes / duties and responsibility	Approximate Time input by RLA
1	Baseline Monitoring/ Baseline Period	(i) The RLA will certify the Landscape & Visual Mitigation and Tree Preservation Plan.	(i) 2hr X 2 days site visit for Landscape & Visual Mitigation and Tree Preservation Plan
2	Impact monitoring during construction period	(i) Landscape and visual inspection shall be conducted once per month by the RLA to oversee the matter of landscape and visual within the site area and implementation of mitigation measures in EM&A Manual. (ii) Checking and review of the implementation of mitigation measures in vegetation survey report and transplantation proposal and Landscape & Visual Mitigation and Tree Preservation Plan.	(i) 2hr per month for landscape and visual inspection (ii) 0.5hr per month for checking and review of the implementation of mitigation measures in vegetation survey report and transplantation proposal and Landscape & Visual Mitigation and Tree Preservation Plan.
3	Monitoring during	(i) Monitoring of the planting works during the 3 year establishment	(i) 2hr per month throughout the construction period for

Item	Works to be carried out on-site	Purposes / duties and responsibility	
		Purposes / duties and responsibility	Approximate Time input by RLA
	establishment period	period after completion of construction works.	landscape and visual inspection

2.6.2 It is deemed that the minimum on-site time is the minimum time of the ET and his team required to perform necessary on-site work to discharge the relevant duties of the ET. The proposed time will served as a base case. The minimum on-site time should also be subject to review in tandem with any major changes to the Contractor’s works programme.

2.6.3 Apart from the general construction works procedure, additional would be deployed for some critical work duties such as works are anticipated to have high environmental impact and buffer times would be deployed to deal with unforeseen during construction. The time employment on-site will be adjusted based on the detailed works programme. The master programme of the Contract is as shown in *Appendix E*.

Table 2-4 Recommended Additional on-site time of the ET during Critical Activities

Critical Construction Activities	Tentative Programme	Anticipated high environmental impact	Recommend additional on-site time
Site Clearance and construction of haul road	Aug 2018 to Oct 2018	Dust impact and ecology	0.5 hr in additional general site inspection
Earth filling and excavation (Site formation)	Oct 2018 to Oct 2021	Dust impact and water quality	0.5 hr in additional general site inspection
Construction of soil nailing	Oct 2018 to Oct 2021	Dust impact	0.5 hr in additional general site inspection

2.7 Site Inspection

2.4.1 Regular site inspection provides a direct means to trigger and enforce the specified environmental protection and pollution control measures. With well defined environmental pollution control and mitigation specifications and a well established environmental site inspection, deficiency and action reporting system, environmental site inspection is one of the most effective tools to enforce environmental protection requirements on the construction site.

2.4.2 In addition, ad hoc site inspections are usually required when significant environmental problems arise. In addition, ad hoc site inspections are usually required subsequent to receipt of an environmental complaint, or as part of the investigation work, as specified in the Action Plan for environmental monitoring and audit.

SITE INSPECTION TEAM

2.4.3 The Site Inspection Team comprises the representatives of Resident Engineer (RE), Independent Environmental Checker (IEC), Contractor, Environmental Officer (hereinafter ‘EO’) and the ET. It is established to monitor the adequacy of the environmental site inspection in order to ensure full implementation of the required environmental pollution control and mitigation measures. Through regular joint site inspection amongst the parties of RE, IEC, Contractor and ET, the communication between each parties on environmental matters would be enhanced. The Site Inspection Team will be led by the ET or his representative.

FREQUENCY OF SITE INSPECTION

2.4.4 The frequency of the site inspection is once a week upon commencement of the Project which closely monitors the environmental performance of the Contract works with the latest details works programme.

PROCEDURES FOR SITE INSPECTION

- 2.4.5 Details of the environmental site inspection are presented in the Site Inspection Checklist attached in *Appendix L*.
- 2.4.6 A pre-inspection or post-inspection briefing may be held to brief the objectives of the site inspection as necessary.
- 2.4.7 The area of inspection will not be limited to the environmental situation, pollution control and mitigation measures within the site, but will cover also the environmental situation outside the site area which is likely to be affected, directly or indirectly, by the site activities. The ET will make reference to the several information and documents in conducting the inspection. The details are presented in the table below.

Table 2-5 Reference Information and Documents for Conducting Inspection

Information referred	Action by ET
Environmental Permit No. FEP-01/534/2017/A	The role of ET and ET Leader specified in conditions 2.2 and 2.3 shall be complied.
EIA and EM&A Manual	ET will make reference to the “Implementation Schedule of Mitigation Measures (EMIS)” in the EIA Report and mitigation measures recommended in the EM&A Manual to inspect the implementation status against the aforesaid document during site inspection.
Works progress and programme	ET will focus on the potential environmental issue arise from construction work according to the works programme. For example, cut slope and fill slope work will be the dominant construction work for the initial stage of the Contract and special attention will be made on the potential dust impact and dust control measures. During wet season, special attention shall be paid on the water quality mitigation measures etc. Moreover, ecological mitigation measures as recommended in the EIA and EM&A to avoid, minimise and compensate for the ecological impact shall be checked and ensure properly implemented. Particular attention shall be paid on the edge of any active works area, 30m from the watercourse. ET will recommend suitable mitigation measures to the Contractor and take proactive actions to pre-empt problems.
Individual works methodology	ET will refer to the individual works methodology and pay attention to the potential environmental issue from each individual work (e.g. dust impact from rock breaking work). Proactive Environmental Protection Proforma as mentioned in EM&A Manual will be prepared by ET and verified by IEC.
Relevant environmental protection and pollution control laws	ET will check whether any non-compliance of the statutory requirement in relation to environmental protection and pollution control laws. (e.g. effluent discharge in discharge licence under Water Pollution Control Ordinance)
Previous site inspection results	ET will follow up the previous deficiency and pay more attention to the repeated observation from previous site inspection.

- 2.4.8 The Contractor will update the ET with all relevant information of the construction contract for him to carry out the site inspections. The inspection results and its associated recommendations on improvements of the environmental protection and pollution control works will be submitted to the IEC, RE and the Contractor within 24 hours, for reference and for taking immediate action.

2.5 Communication with IEC

- 2.5.1 The ET shall notify IEC within one working day of the occurrence of each and every single or circumstance or change of circumstance, which may affect the compliance with recommendations

of the approved EIA Report. The communication procedure of ET and IEC are summarized in below table.

Table 2-6 Communication procedure of ET and IEC

Key Issues	Communication of ET and IEC
Routine monitoring work and monitoring schedule	<ul style="list-style-type: none"> - Any instance regards to failure of monitoring and abnormal conditions during monitoring work shall be reported to IEC within one working day. - The ET shall notify IEC the impact monitoring schedule 2 weeks before each reporting month for their agreement. Any changes to the monitoring schedule shall be notified IEC immediately.
Site inspection findings	<ul style="list-style-type: none"> - The ET shall submit the site inspection checklist to report the environmental audit results to IEC within one working day after the inspection. - The follow-up action taken by the Contractor shall be reported to IEC within one week.
EM&A Report	<ul style="list-style-type: none"> - The ET shall submit Monthly EM&A Report to IEC on the agreed time frame for verification.

3 DEFICIENCY

3.1 Deficiency Found in Site Inspection

3.1.1 Any deficiency found in the site inspections shall be reported and recorded on the Site Inspection Checklists, with agreed mitigation measures and deadline for completion, which shall be submitted to the RE and Contractor within 24 hour upon completion of the site inspections. The EO and Contractor shall follow up the case to rectify the situation by the agreed deadline, while the status of the environmental issues shall be reviewed during the next inspection to close the case as appropriate.

3.1.2 In following up the environmental issues raised in the site inspections, the EO shall closely cooperate with the Contractor and the associated Sub-Contractors to ensure full implementation of the environmental mitigation measures stipulated in the EMIS of the EM&A Manual.

3.2 Deficiency Raised from Environmental Complaints

3.2.1 Any deficiency raised from environmental complaints shall be handled properly. Details of the environmental complaints handling have been documented in the EM&A Manual.

3.2.2 A contemporaneous complaint logbook has been kept by the Contractor to register every instance or circumstance of environmental complaint, which will be referred to for carrying out complaint investigation.

3.2.3 During the complaint investigation work, the Contractor and RE will co-operate with the EO and ET in providing all the necessary information and assistance for completion of the investigation. If mitigation measures are proposed in the investigation (in consultation with IEC), the Contractor will promptly carry out the measures. The RE will ensure that Contractor has carried out the measures.

3.2.4 According to the EM&A Manuel Section 15.4.1.1, the following procedures should be undertaken upon receipt of any environmental complaint:

- The Contractor to log complaint and date of receipt onto the complaint database and inform the ER, ET and IEC immediately;
- The Contractor to investigate, with the ER and ET, the complaint to determine its validity, and assess whether the source of the problem is due to construction works of the Project with the support of additional monitoring frequency and stations, if necessary;
- The Contractor to identify remedial measures in consultation with the IEC, ET and ER if a complaint is valid and due to the construction works of the Project;
- The Contractor to implement the remedial measures as required by the ER and to agree with the ET and IEC any additional monitoring frequency and stations, where necessary, for checking the effectiveness of the remedial measures;
- The ER, ET and IEC to review the effectiveness of the Contractor's remedial measures and the updated situation;
- The ET to undertake additional monitoring and audit to verify the situation if necessary, and oversee that circumstances leading to the complaint do not recur;
- If the complaint is referred by the EPD, the Contractor to prepare interim report on the status of the complaint investigation and follow-up actions stipulated above, including the details of the remedial measures and additional monitoring identified or already taken, for submission to EPD within the time frame assigned by the EPD; and
- The ET to record the details of the complaint, results of the investigation, subsequent actions taken to address the complaint and updated situation including the effectiveness of the remedial measures, supported by regular and additional monitoring results in the monthly EM&A reports.

3.3 Deficiency Raised from Other Channels

- 3.3.1 Deficiency may be raised from other channels, e.g. routine and ad hoc meetings of SSEC, SSEMC etc. The EO shall investigate any deficiency raised in consultation with the ET and the Contractor, and RE and IEC as appropriate. It shall be followed up by the EO and ET to rectify the situation promptly following the action reporting procedures in the following *Section 4*.

4 ACTION REPORTING PROCEDURE

4.1 Reporting Procedure

4.1.1 The action reporting procedures for deficiencies raised from site inspection, environmental complaints and other channels will be carried out once the deficiencies are found. Event and Action Plan of the related environmental parameters shall be implemented as appropriate.

4.1.2 Two-way environmental site inspection, deficiency and action reporting procedures have been developed to encourage the dissemination of the environmental site inspection, deficiency and action information among relevant parties via the following document notification and meetings for discussions:

- Submission of site inspection checklists as detailed above section;
- Submission of EM&A Reports and implementation of the associated Event and Action Plan, which has been presented in the EM&A Manual
- The SSEMC and other regular face-to-face site meetings and the associated follow-up actions;
- The ET, EO and IEC regular site inspections and audits and the associated follow-up actions;
- Ad hoc environmental meetings, investigations and site inspections;
- Complaint Logbook; and
- The ET leader's Environmental Logbook established under the environmental permits No. FEP-01/534/2017/A.

Table 4-1 Action Reporting Procedures for deficiencies

Means	Frequency	Purpose/Action	Responsible Party
EO Weekly Site Inspection	Continually	Promote awareness of environmental procedures among EO, workers and sub-contractors	Contractor and EO
ET Weekly Site Inspection	Weekly	Face-to-face communications between ER, IEC, Contractor site staff and ET during the site inspection	RE, IEC, Contractor, ETL and IEC
SSEMC meeting	Monthly	Face-to-face communications between the ET, IEC, RE, EO, ES, Contractor and other disciplines	ET, EO, ES, Contractor, RE and Sub-Contractors' Representative
Notice of Exceedance of AL levels or complaint	As required	Written notification to different members of the Contractor requesting appropriate actions	Contractor, ET, EO, IEC and RE.
Ad hoc environmental meetings, investigations and site inspections	When necessary	Face-to-face communications between ET, IEC, Contractor, ER and EPD in the case of any environmental emergency.	Contractor, ET, EO and RE.
EM&A Report	Monthly / Quarterly	Written communication among ET, RE, IEC and EPD.	ET
Web-based EM&A Reports	Monthly / Quarterly	Facilitate public inspection of the EM&A Reports via the EIAO Web-site and at the EIAO Register Office	EPD, ET, IEC, Public

4.2 Proper Records Keeping

INTERNAL RECORD KEEPING

- 4.2.1 The monitoring data are handled by the ET's systematic data recording and management, which complies with in-house Quality Management System. Standard Field Data Sheets are used in the monitoring program.
- 4.2.2 The monitoring data recorded in the equipment are downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data are input into a computerized database properly maintained by the ET. The laboratory results are input directly into the computerized database and QA/QC checked by personnel other than those who input the data. For monitoring activities require laboratory analysis, the local laboratory follows the QA/QC requirements as set out under the HOKLAS scheme for all laboratory testing.
- 4.2.3 All submissions shall contain document number, version number, effective date, page number and total number of pages in content page. All submission shall be reviewed and approved by ETL prior to release.
- 4.2.4 To achieve an environmental sustainability, e-mail will be the main communication channel to minimise paper printing. All submission will be delivered by email until the formal submission, where hardcopies will be printed in accordance with the specific requirement.
- 4.2.5 Soft copy of all received submissions will be saved under the respective category. Site inspection checklist, monitoring schedule and investigation reports record will be saved under the folder of respective month.
- 4.2.6 All records must be retained in a proper way and maintain in a suitable environment to minimize deterioration, loss or damage; they may be stored in either hard copy and/or computer database system.

EXTERNAL RECORD KEEPING

- 4.2.7 The ET should keep a contemporaneous log-book of any such instance or circumstance or change of circumstances. The log-book shall be kept readily available for inspection by all persons assisting in supervision on the implementation of the recommendation of the approved EIA Report and the EP or by the Director or his authorized officers.
- 4.2.8 The log book shall keep all the records of environmental license and permit, site inspection records, investigation report for non-compliance and complaint etc. The log book should be reviewed and verified by IEC regularly.

5 REVIEW OF MINIMUM ON-SITE TIME

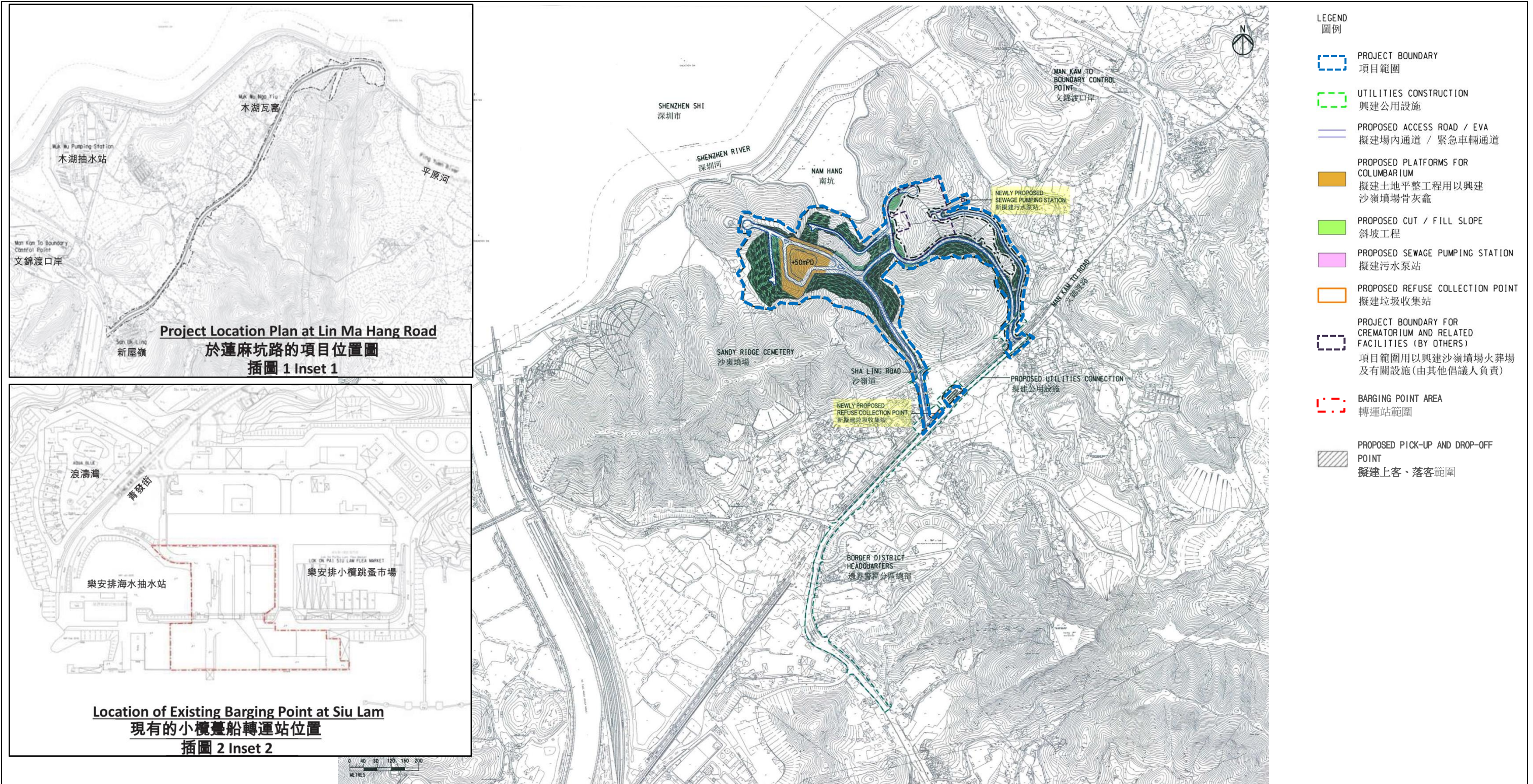
5.1 Conclusion

- 5.1.1 When considered appropriate by the ET or EPD, the minimum on-site time of ET would be reviewed and updated as necessary. The ET shall review and update the minimum on-site time of ET in consultation with the EPD, to suit the changing project situation.
- 5.1.2 As such, the minimum on-site time of ET detailed in this proposal shall be reviewed regularly upon commencement of construction works. Should the minimum on-site time of ET shall be optimised, the ET shall propose the revision to IED and EPD for acceptance.

END OF TEXT

Appendix A

Location of the Project



Project Title: Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery
 工程名稱：沙嶺墳場興建骨灰龕、火葬場及有關設施的工地平整及相關基建工程

Figure 1: Project Location Plan
 圖 1：項目位置圖

(This figure was prepared based on Figure 1 attached to the VEP Application No. VEP-554/2018 and Figures 1.2 and 1.3 of the Approved EIA Report No. AEIAR-198/2016)
 (本圖是根據更改環境許可證申請文件編號 VEP-554/2018 所隨附的圖 1 和環境影響評估報告編號 AEIAR-198/2016 圖 1.2 及 1.3 編制)

Environmental Permit No.: EP-534/2017/A
 環境許可證編號：EP-534/2017/A



Appendix B

The geographical location of Contract 1 under FEP-01/534/2017/A and layout plan of Contract 1



Project Title: Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery
 工程名稱：沙嶺墳場興建骨灰龕的工地平整及相關基建工程

Figure 1: Project Location Plan

圖 1：項目位置圖

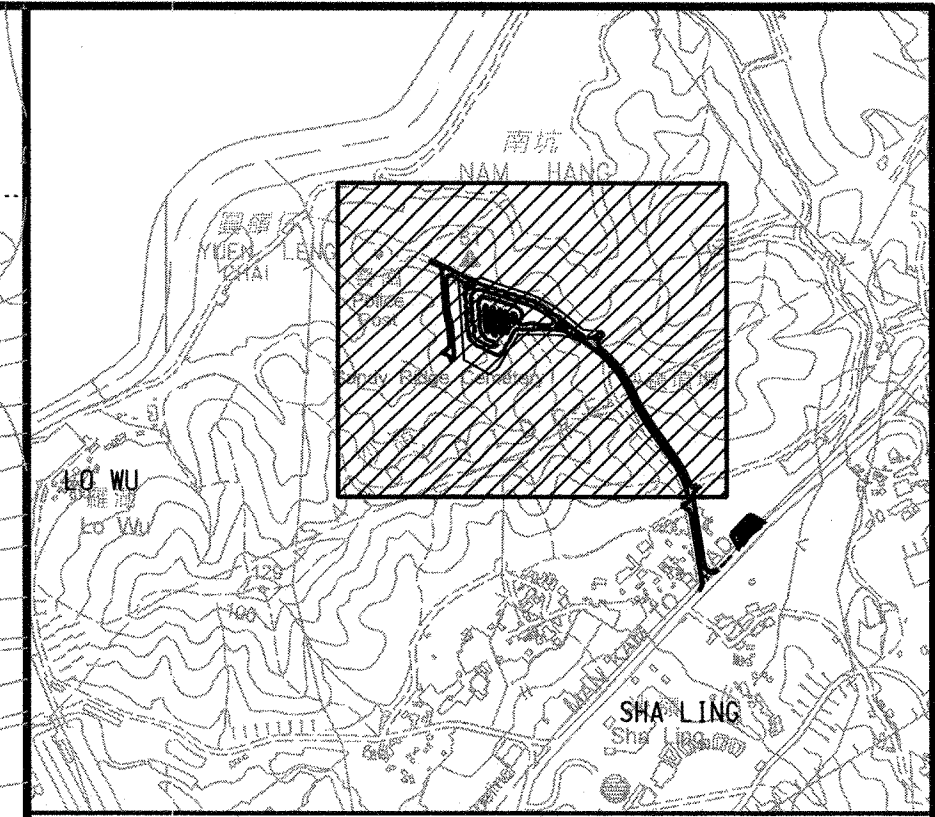
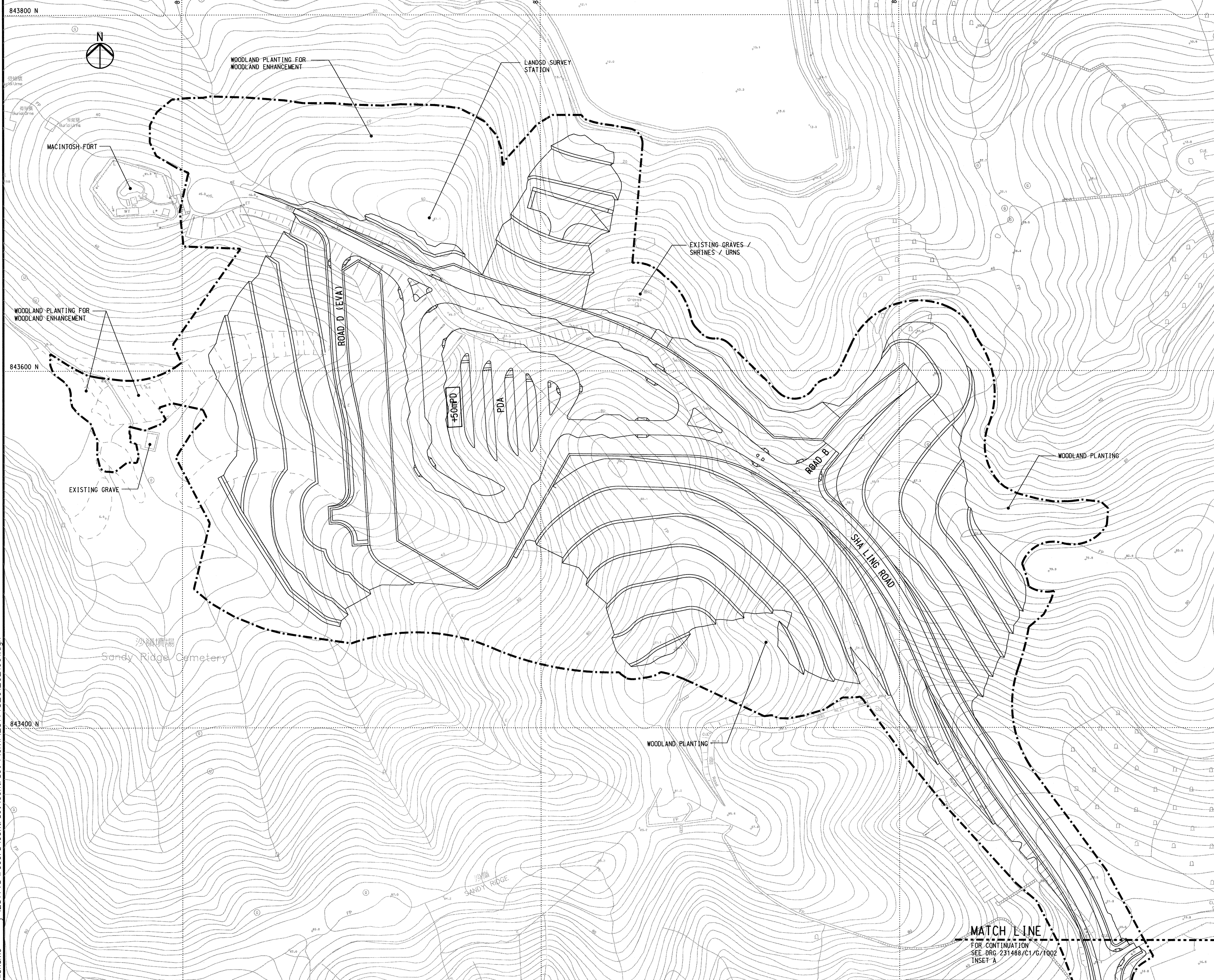
(This figure was prepared based on Figure 1 attached to the VEP Application No. VEP-555/2018 and Figures 1.3 of the Approved EIA Report No. AEIAR-198/2016)

(本圖是根據更改環境許可證申請文件編號：VEP-555/2018 所隨附的圖 1 和環境影響評估報告編號 AEIAR-198/2016 圖 1.3 編制)

Environmental Permit No.: FEP-01/534/2017/A
 環境許可證編號：FEP-01/534/2017/A



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KEY PLAN

LEGEND:
 - - - - - PROPOSED WORKS SITE
 +50mPD SITE FORMATION LEVEL

Printed by : 11/27/2017
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Rev	Description	By	Date

Consultant
ARUP

Contract No. and Title:
 Contract No. CV/2016/10
 Site Formation and Associated
 Infrastructural Works for
 Development of Columbarium at
 Sandy Ridge Cemetery

Drawing title
**GENERAL LAYOUT
 (SHEET 1 OF 3)**

Drawing no. 231448/C1/G/1001		Rev. -	
Drawn WM	Date 12/16	Checked AW	Approved DL
Scale 1:1000 @A1		Status CONTRACT	

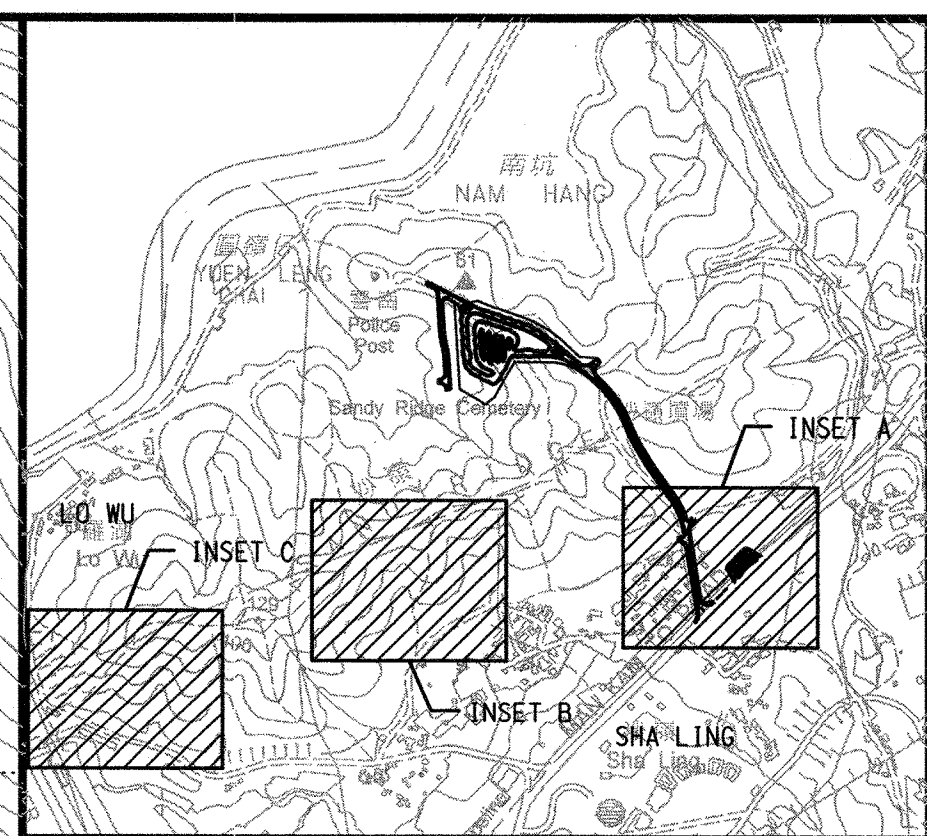
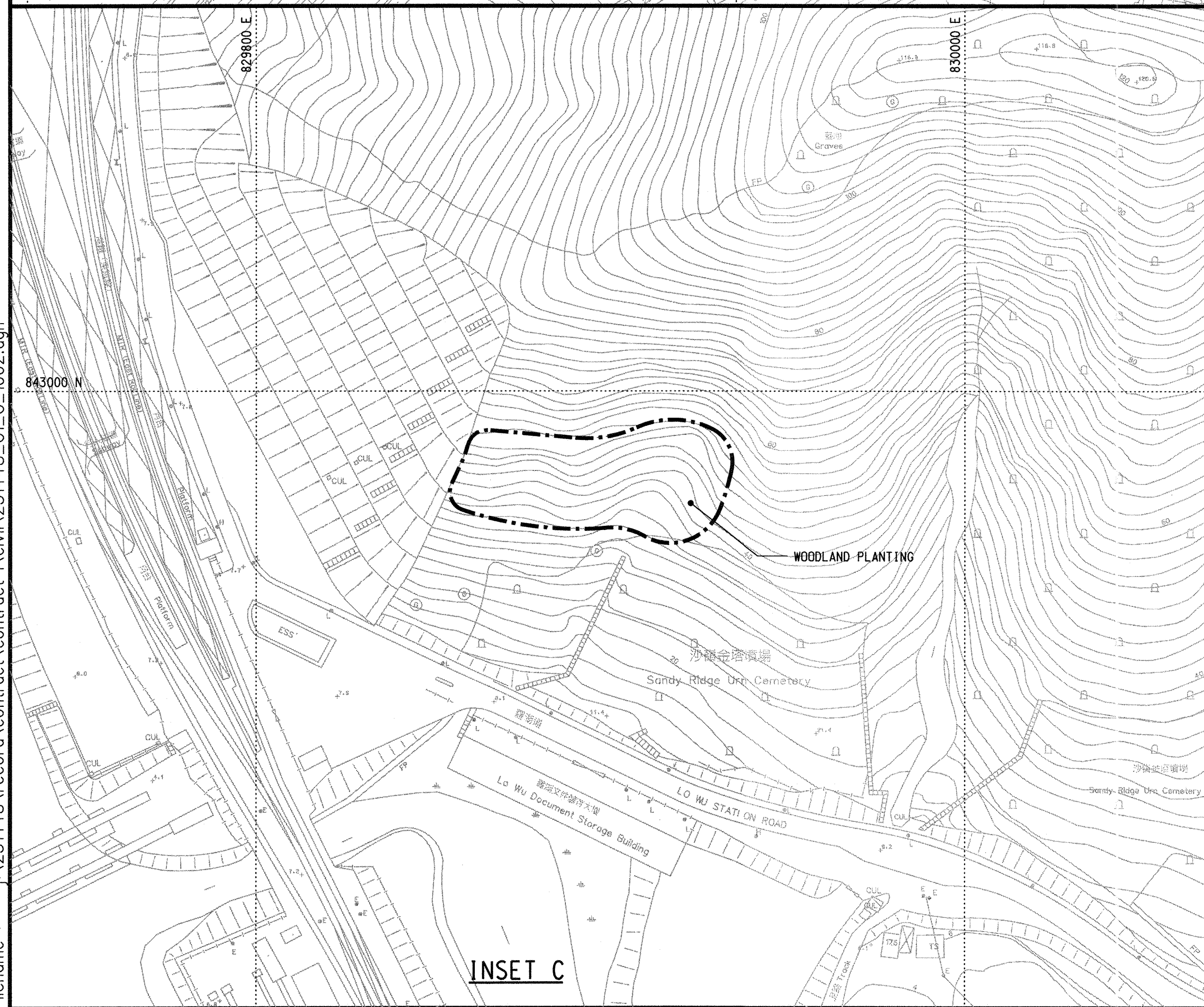
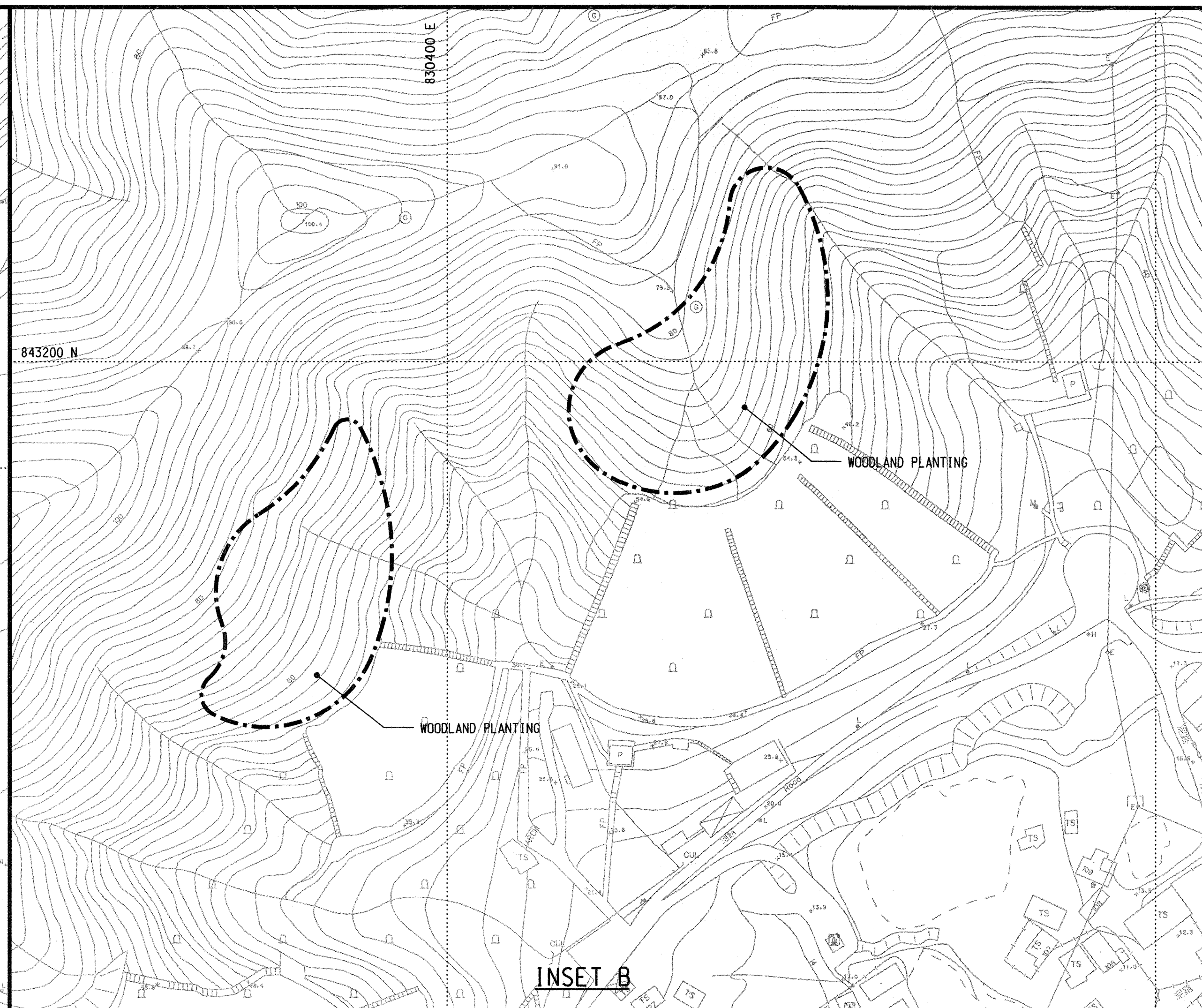
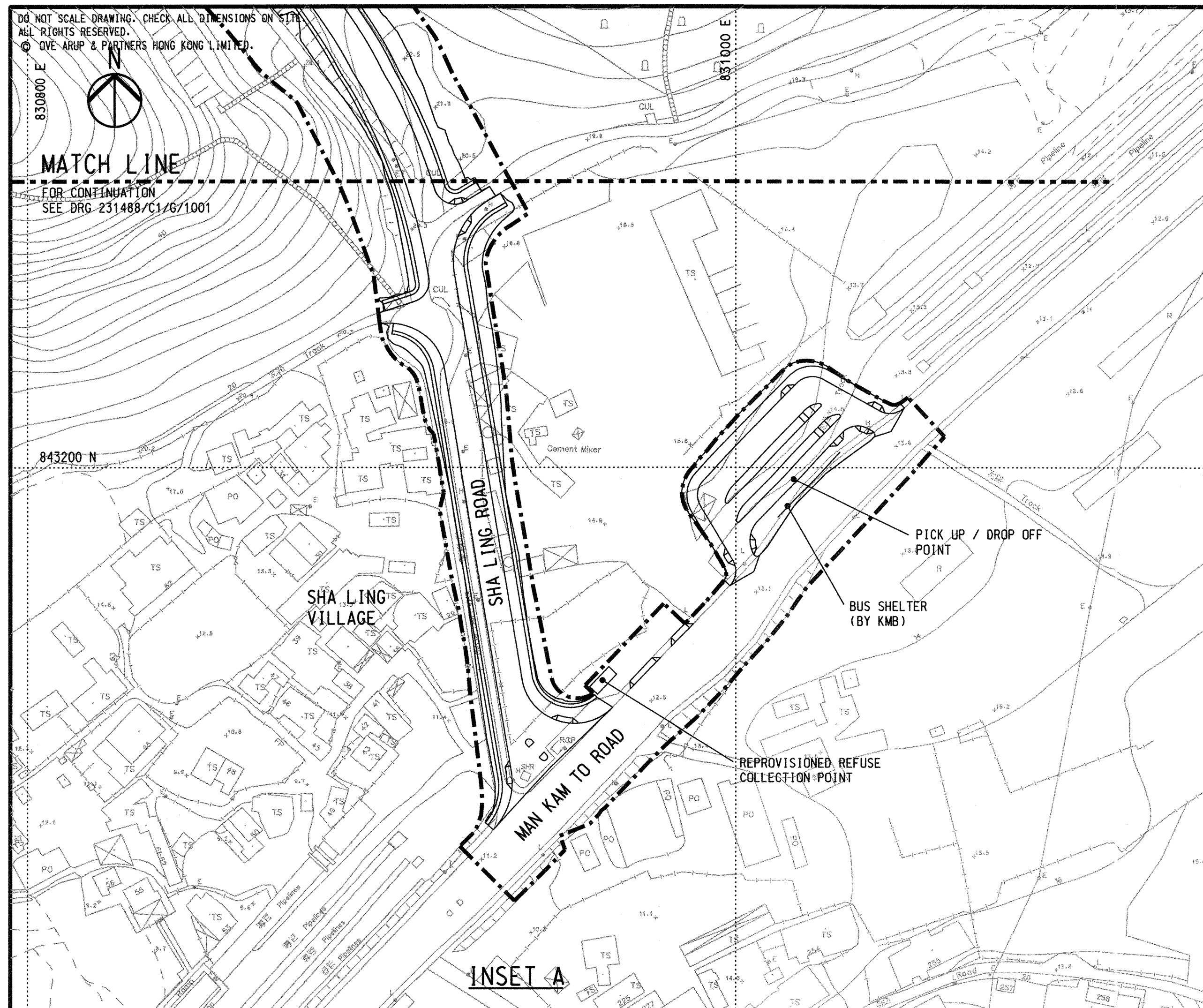
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 Civil Engineering and
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MATCH LINE

FOR CONTINUATION
 SEE DRG 231448/C1/G/1002
 INSET A



KEY PLAN

LEGEND:
 - - - - - PROPOSED WORKS SITE

Rev	Description	By	Date

Consultant
ARUP

Contract No. and Title:
Contract No. CV/2016/10
Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery

Drawing title
GENERAL LAYOUT (SHEET 2 OF 3)

Drawing no. 231448/C1/G/1002		Rev. -	
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Appendix C

The employment of ET and associated declaration letter



TSUN YIP

WATERWORKS CONSTRUCTION COMPANY LTD

Our Ref : TYW/OUT/CV201610/L18-032

26 March 2018

By Fax and By Mail
(Fax No. 2959 6079)

Action-United Environmental Services and Consulting
Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung N.T.

Attn: Mr. T.W. Tam

Dear Sirs,

Contract No. CV/2016/10
Site Formation and Associated Infrastructural Works for
Development of Columbarium at Sandy Ridge Cemetery
Subcontract No. CV201610/SC/006 - Environmental Consultant Services
Letter of Acceptance

We are pleased to inform you that your tender for the above subcontract which totals
HK\$ [REDACTED]
([REDACTED]) is accepted.

The subcontract is under preparation and you will be informed once it is ready for execution.

Our Project Manager, Mr. HO Man To and Site Agent, Mr. Frankie LAM will contact you for arrangement of the subcontract works.

Thank you for your attention.

Yours faithfully,
For and on behalf of
Tsun Yip Waterworks Construction Co. Ltd.


Kan Kwok Cheung
Director

ACTION-UNITED ENV. SERVICES & CONSULTING			
DATE RECEIVED: 2018-3-18			
FILE CODE: VS 2016/10/SC/006			
Name	Sign	Info	Action
TW			
BT			
NH			
DK			
ML			



ISO 9001 : 2008
Certificate No : Q016

Our Ref: TCS00881/18/300/L0680

Hsin Chong Tsun Yip Joint Venture

Hsin Chong Center,
107-109 Wai Yip Street,
Kwun Tong,
Kowloon, Hong Kong

Attn: Mr. HO Man To

23 September 2022

By Hand

Dear Sirs,

**Re: Site Formation and Associated Infrastructural Works for Development of
Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery
Letter of Declaration of Conflict of Interest**

We confirm that Action-United Environment Service and Consulting does not have any association relationship and conflict of interest with the main-Contractor (Hsin Chong Tsun Yip Joint Venture) and the Independent Environmental Checker (Acuity Sustainability Consulting Limited) under CEDD Contract No. CV/2016/10.

Should you have any queries, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely,

For and on Behalf of

Action-United Environmental Services & Consulting (AUES)



Tam Tak Wing
General Manager

Appendix D

Notification of Commencement Date of Construction of the Project



Hsin Chong Tsun Yip Joint Venture

Our Ref : HCTY/CV201610/L18-447
Your Ref :

13 July 2018

Environmental Protection Department

The EIA Ordinance Register Office,
27th floor, Southorn Centre,
130 Hennessy Road,
Wan Chai, Hong Kong

By Fax and By Hand

Dear Sirs,

Contract No.: CV/2016/10

Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery

(Environmental Permit No. FEP-01/534/2017)

Commencement Date of Construction

We refer to our previous letter reference HCTY/CV201610/L18-397 dated 29 June 2018 regarding the commencement date of construction.

Pursuant to General Condition 1.12 of Further Environment Permit (FEP) No. FEP-01/534/2017, if there is no objection from your Department, we would like to notify that the commencement date of construction work of the captioned project would be changed from **30/6/2018 to 16/8/2018** with the certification letter from Environmental Team (ET) Leader and the verification letter from Independent Environmental Checker (IEC) for your review and approval.

Enclosed please find four hard copies and one electronic copy of revised works program with works location plan as per Specific Condition 2.11 of FEP for your information and retention.

Your faithfully,
For and on behalf of

HSIN CHONG TSUN YIP JOINT VENTURE (CV/2016/10)

HO Man To
Site Agent

Encl.

MTH/FL/fl

c/c. :CEDD – DPTL

Ove Arup and Partners H.K. Ltd
IEC (Acuity)
ETL (AUES)

– Attn: Ms. Cathy Cheng
– Attn: Mr. Steve Tang
– Attn: Mr. Jacky Leung
– Attn: Mr. T.W.Tam

ACTION-UNITED ENV SERVICES & CONSULTING			
DATE RECEIVED: 16 July 18			
FILE CODE: TS/01/18/01/447/26			
Name	Sign	Info	Action
TW			
BT			
NH			
DK			
ML			

Our Ref: TCS00881/18/300/L0082

Hsin Chong Tsun Yip Joint Venture

Hsin Chong Center,
107-109 Wai Yip Street,
Kwun Tong,
Kowloon, Hong Kong

Attn: Mr. HO Man To

13 July 2018

By e-mail and by Hand

Dear Sirs,

Re: CEDD Contract CV/2016/10

**Site Formation and Associated Infrastructural Works for Development of
Columbarium at Sandy Ridge Cemetery
(Environmental Permit No. FEP-01/534/2017)
Commencement Date of Construction**

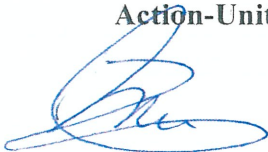
I refer to your notification for proposed change of "Commencement date of Construction" from 30/06/2018 to 16/08/2018, along with the revised works program with works location. Please note that we have no adverse comments on the revised commencement date and related submission. We herewith certify the captioned pursuant to General Condition 1.9 of the Environmental Permit no. FEP-01/534/2017.

Should you have any queries, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely,

For and on Behalf of

Action-United Environmental Services & Consulting (AUES)



T. W. Tam
Environmental Team Leader
TW/nh

cc Arup (RE)
Acuity (IEC)

Mr. Steve Tang
Mr. Jacky Leung

By-email
By-email



ACUITY
SUSTAINABILITY
CONSULTING LIMITED



Website: www.acuityhk.com



Unit 1908, iPlace,
Nos. 301-305 Castle Peak Road,
Kwai Chung, New Territories



Tel. : (852) 2698 6833
Fax.: (852) 2698 9383

Hsin Chong Tsun Yip Joint Venture (CV/2016/10)

Hsin Chong Centre
107-109 Wai Yip Street
Kwun Tong, Kowloon
Hong Kong

Attention: Mr. HO Man-to

13 July 2018

Dear Sir,

Contract No. CV/2016/10

Site formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery
Change of Commencement Date of Construction

I refer to your email regarding the change of Commencement Date of Construction under FEP No. 01/534/2017. We have no objection on your proposal to change the Commencement Date of Construction of CV/2016/10 from 30/6/2018 to 16/8/2018, as well as the attached works programme and programme layout.

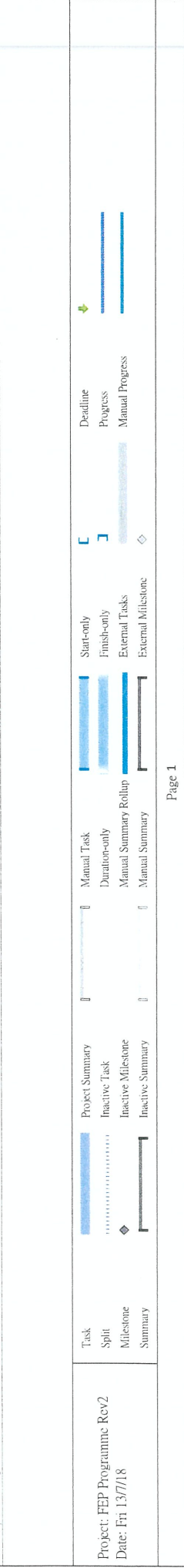
Yours faithfully,

CH Leung

Ir Leung CH Jacky
Independent Environmental Checker

cc. CEDD-DPTL/Land Works – Ms. CHENG Cathy
ARUP – Mr. TANG Steve

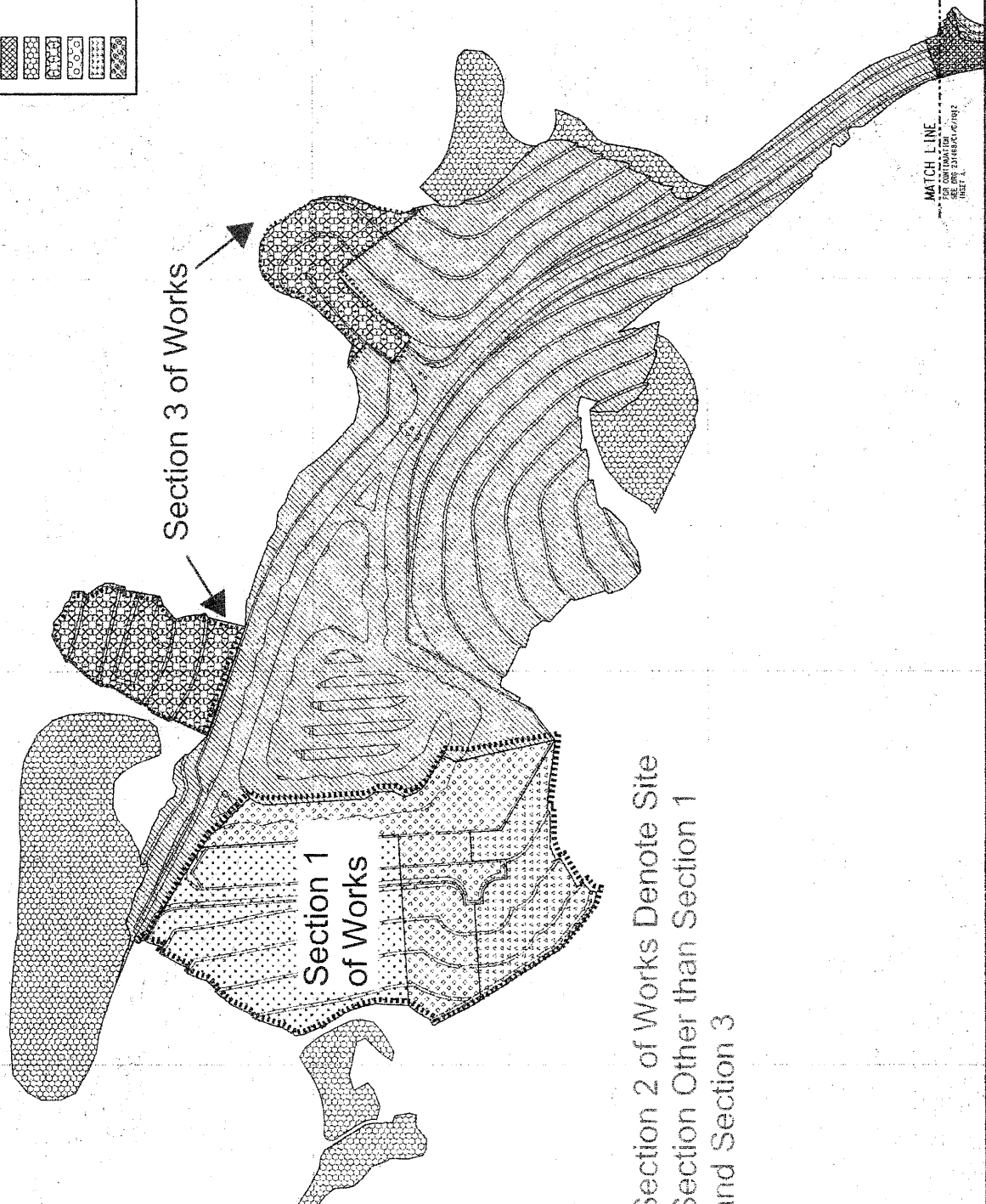
ID	Task Mode	Task Name	Duration	Start	Finish	2019	2020	2021	2022	2023
1		Key Dates	2199 days	Fri 15/12/17	Fri 22/12/23					
2		Contract Starting Date	0 days	Fri 15/12/17	Fri 15/12/17					
3		Contract Completion Date for Sections 1, 2 and 3	0 days	Mon 21/12/20	Mon 21/12/20					
4		Contract Completion Date for Sections 4, 5 and 6 (Establishment Works)	0 days	Fri 22/12/23	Fri 22/12/23					
5		Commencement of Construction of Project	0 days	Thu 16/8/18	Thu 16/8/18					
6		Section 1 of the Works	546 days	Thu 16/8/18	Wed 12/2/20					
7		Retaining Wall RW1	350 days	Thu 16/8/18	Wed 31/7/19					
8		Fill Slope FS1	500 days	Sun 30/9/18	Tue 11/2/20					
9		Road D and Pick-up/Drop-Off Area	236 days	Sat 22/6/19	Wed 12/2/20					
10		Landscape Work	451 days	Mon 19/11/18	Wed 12/2/20					
11		Section 2 of the Works	859 days	Thu 16/8/18	Mon 21/12/20					
12		Cut Slopes	850 days	Thu 16/8/18	Sat 12/12/20					
13		Cut Slopes CS1 and CS2	100 days	Sat 15/9/18	Sun 23/12/18					
14		Cut Slope CS3	78 days	Sat 29/9/18	Sat 15/12/18					
15		Cut Slopes CS11 & CS12	850 days	Thu 16/8/18	Sat 12/12/20					
16		Cut Slope CS13	675 days	Thu 6/9/18	Sat 11/7/20					
17		Cut Slope CS15	500 days	Thu 16/8/18	Sat 28/12/19					
18		Cut Slopes CS16 & CS17	500 days	Thu 6/9/18	Sat 18/1/20					
19		Retaining Wall RW11	420 days	Thu 16/8/18	Wed 9/10/19					
20		Fill Slope	488 days	Mon 15/10/18	Fri 14/2/20					
21		Fill Slope FS17	120 days	Mon 15/10/18	Mon 11/2/19					
22		Fill Slope FS13	78 days	Fri 29/11/19	Fri 14/2/20					
23		Slope Works CS14 and FS14	200 days	Wed 14/11/18	Sat 1/6/19					
24		Sha Ling Road	404 days	Thu 14/11/19	Mon 21/12/20					
25		Sha Ling Road (M001 CH +620 to +820), M011, M014 and PDA	365 days	Thu 14/11/19	Thu 12/11/20					
26		Sha Ling Road (M001 CH +480 to +620), M008 & Road B M005	359 days	Sun 29/12/19	Mon 21/12/20					
27		Sha Ling Road (M001 CH +180 to +340)	359 days	Sun 29/12/19	Mon 21/12/20					
28		Sha Ling Road (M001 CH +40 to +180)	359 days	Sun 29/12/19	Mon 21/12/20					
29		Sha Ling Road (M001 CH +0 to +40)	359 days	Sun 29/12/19	Mon 21/12/20					
30		Noise Barrier	200 days	Wed 27/5/20	Sat 12/12/20					
31		Man Kam To Road Bus Shelter	150 days	Sun 21/6/20	Tue 17/11/20					
32		Reprovision of Refuse Collect Point (RCP)	365 days	Sun 13/1/19	Sun 12/1/20					
33		Woodland Planting	738 days	Sat 15/12/18	Mon 21/12/20					
34		Land Decommissionation Works	250 days	Thu 18/7/19	Mon 23/3/20					
35		Landscape Works	403 days	Wed 14/11/18	Sat 21/12/19					
36		Section 3 of the Works	336 days	Thu 16/8/18	Wed 17/7/19					
37		Fill Slope FS3	300 days	Thu 16/8/18	Tue 11/6/19					
38		Retaining Wall RW4	90 days	Sat 24/11/18	Thu 21/2/19					
39		Fill Slopes FS2 and FS4	146 days	Fri 22/2/19	Wed 17/7/19					
40		Cut Slope CS19	291 days	Sun 30/9/18	Wed 17/7/19					
41		Cut Slope CS18	70 days	Sat 4/5/19	Fri 12/7/19					
42		Landscape Works	136 days	Mon 4/3/19	Wed 17/7/19					
43		Establishment Works	1619 days	Thu 18/7/19	Fri 22/12/23					
44		Section 4	1096 days	Thu 13/2/20	Sun 12/2/23					
45		Section 5	1096 days	Tue 22/12/20	Fri 22/12/23					
46		Section 6	1096 days	Thu 18/7/19	Sun 17/7/22					



Demarcation Plan for Site Section/Portion (P.1 of 2)

LEGEND:

- PART A1
- PART A2
- PART A3
- PART B1
- PART B2
- PART C
- PART D
- PART E
- PART F
- PART G1
- PART G2



KEY PLAN

NOTE:

1. PARTS OF THE SITE WHICH ARE SHOWN WITH HATCHING PATTERNS ARE TO BE USED AS A GUIDE ONLY. THE EXACT BOUNDARIES OF THE WORKS SHALL BE AS SHOWN ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS FROM THE RELEVANT AUTHORITIES FOR THE WORKS TO BE CARRIED OUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS FROM THE RELEVANT AUTHORITIES FOR THE WORKS TO BE CARRIED OUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS FROM THE RELEVANT AUTHORITIES FOR THE WORKS TO BE CARRIED OUT.

2. THE DEMARCATION AND EXTENT OF THE PARTS OF THE SITE SHOWN WITH HATCHING PATTERNS SHALL BE AS SHOWN ON THE SITE BY THE PROJECT MANAGER.

Rev.	Description	By	Date

ARUP

Contract No. CV/2016/10
 Site Formation and Associated
 Infrastructural Works for
 Development of Columbarium at
 Sandy Ridge Cemetery

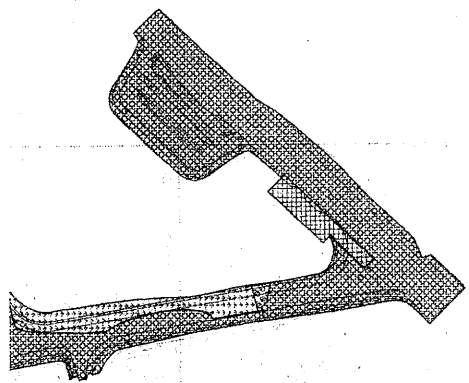
Part of the Site
 (SHEET 1 OF 3)

Contract No.	231448/C1/G/1011
Scale	1:1000 (M)
Drawn	BAJ
Checked	BAJ
Approved	BAJ
Date	12/16
Sheet	11/000 (M)

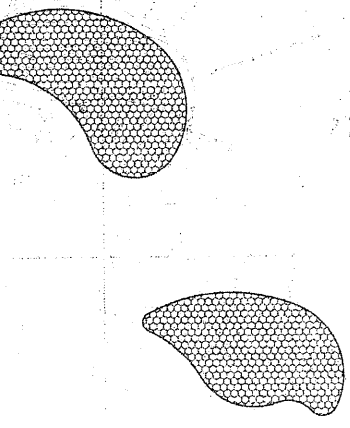
CEDD
 土木工程拓展署
 Civil Engineering and
 Development Department

MATCH LINE
 SEE SHEET 2 OF 3
 SEE DRG 231448/G/1012
 SHEET 1

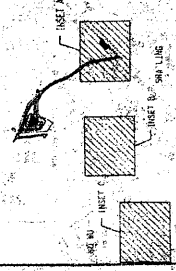
Demarcation Plan for Site Section/Portion (P.2 of 2)



INSET A



INSET B



KEY PLAN

NOTE:
 1. THE DEMARCATION AND EXISTENCE OF THE PARTS OF THE SITE LOCATED IN THE TABLE HEREIN ARE SUBJECT TO THE FINAL DETERMINATION OF THE CONTRACTOR FOR THE EXECUTION OF THE WORKS WITHIN THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS AND PERMISSIONS FROM THE RELEVANT AUTHORITIES TO ACQUIRE PERMISSION TO EXCAVATE AND TO EXCAVATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS AND PERMISSIONS FROM THE RELEVANT AUTHORITIES TO EXCAVATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS AND PERMISSIONS FROM THE RELEVANT AUTHORITIES TO EXCAVATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS AND PERMISSIONS FROM THE RELEVANT AUTHORITIES TO EXCAVATE.

LEGEND:

[Pattern]	PART A1
[Pattern]	PART A2
[Pattern]	PART A3
[Pattern]	PART A4
[Pattern]	PART A5
[Pattern]	PART A6
[Pattern]	PART A7
[Pattern]	PART A8
[Pattern]	PART A9
[Pattern]	PART A10
[Pattern]	PART A11
[Pattern]	PART A12

Section 2 of Works Denote Site
 Section Other than Section 1
 and Section 3

INSET C

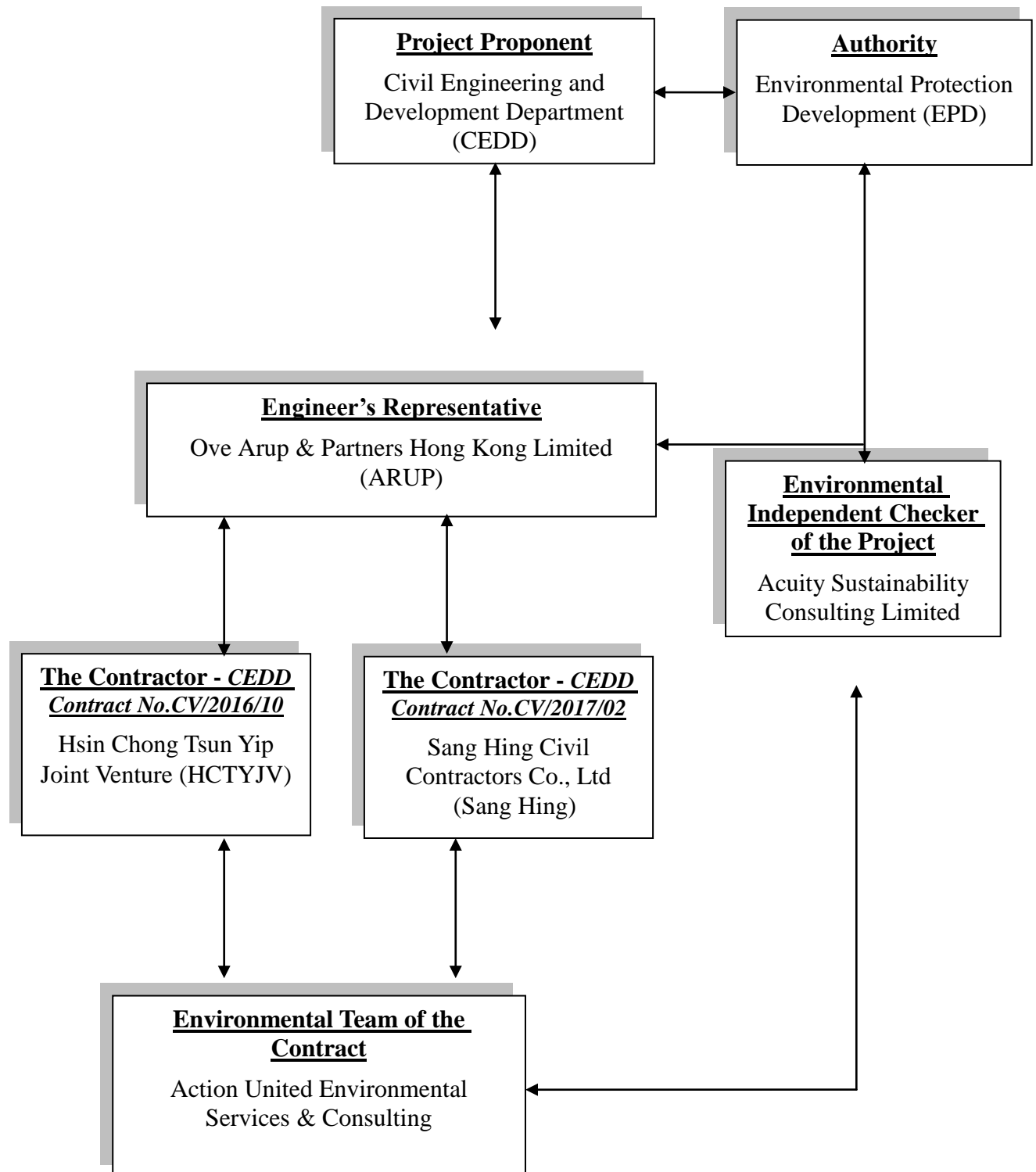
Contract No. and Title	Contract No. CV/2016/10		
Client	Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery		
Contractor	ARUP		
Drawn by	PART OF THE SITE (SHEET 2 OF 3)		
Checked by			
Scale			
Project No.	23144B/C1/G/1012	Sheet No.	2
Contractor	ARUP	Contractor	ARUP
Scale	1:1000	Scale	1:1000
Contract	CONTRACT		

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 土木工程師事務所
 Civil Engineering and Development Department

Appendix E

Project Organization and Lines of Communication

Organization Project organization and lines of communication



Appendix F

Proposed Environmental Team Leader

本頁編號 () in EP2/N7/A/78 Pt. 4
 OUR REF: HCTY/CV201610/L18-190
 來函檔號
 YOUR REF:
 電話 2835 1142
 TEL. NO.:
 圖文傳真 2591 0558
 FAX NO.:
 電子郵件
 E-MAIL:
 網址
 HOMEPAGE: <http://www.epd.gov.hk>

Environmental Protection Department
Branch Office
 28th Floor, Southorn Centre,
 130 Hennessy Road,
 Wan Chai, Hong Kong.

環境保護署分處
 香港灣仔
 軒尼詩道
 一百三十號
 修頓中心廿八樓


 RECEIVED
 23 MAY 2018

BY:
By Fax Only (2516 9430)

Hsin Chong Tsun Yip Joint Venture
 Hsin Chong Tower, 107-109 Wai Yip Street,
 Kwun Tong, Kwoloon
 (Attn : Mr. HO Man To)

21 May 2018

Dear Mr. HO,

Environmental Impact Assessment Ordinance, Cap. 499
Site Formation and Associated Infrastructural Works for Development of
Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery

Employment of Environmental Team Leader
(Environmental Permit No. FEP-01/534/2017)
(Environmental Permit (EP) Condition 2.1)

I refer to your letter of 11 April 2018 proposing Mr. T.W.TAM as the Environmental Team (ET) Leader under Condition 2.1¹ of the captioned EP with verification from IEC.

Please note that we do not have comment on proposing Mr. T.W.TAM as the ET Leader proposed under Condition 2.1 of the captioned EP. Please be reminded to comply with the remaining requirements of EP Condition 2.1 in a timely manner, including a proposal for minimum on-site time for the ET Leader and ET for the Director for approval, and the provision of a site office/suitable work accommodation on site to the ET.

¹ Condition 2.1 of the EP No. FEP-01/534/2017 states "An ET shall be established by the Permit Holder no later than one month before the commencement of construction of the Project. The ET shall not be in any way an associated body of the Contractor or the IEC for the Project. The Permit Holder shall provide a site office/suitable work accommodation on site to the ET for use. The ET shall be headed by an ET Leader and supported by relevant specialists including qualified ecologist(s) and Registered Landscape Architect. The ET Leader shall be a person who has at least 7 years of experience in environmental monitoring and auditing (EM&A) or environmental management. The minimum on-site time for the ET Leader and ET, and the qualifications of the specialists in the ET shall be proposed with justifications for the approval of the Director."

Yours sincerely,



(Steve T.S. LI)

Senior Environmental Protection Officer
for Director of Environmental Protection

C.C.
CEDD-DPTL (Attn: Mr. LI Kwok Hung) fax: 2714 0079
Acuity (IEC) (Attn: Mr. Jacky LEUNG) fax: 2333 1316

Internal
P(RN) with copy of cover letter and Appendix G of f(29)
AE(SA)61

Name: Tam Tak Wing
Proposed Position: Environmental Team Leader (Project Manager)
Years of Experience: 30

Academic Qualification:

- 2000 Certificate of Competence in Ionising Radiation Protection – Occupational Safety & Health Council
- 1999 Certificate in Construction Safety Supervisor Course – Construction Industry Training Authority
- 1994 Quality System Audit Course – The National Association of Testing Authorities, Australia
- 1983 Certificate in Soil and Rock Identification – Hong Kong Polytechnic (Civil and Structural Engineering Department)
- 1978 School Certificate – Lee Kau Yan Memorial Secondary School

Professional Registration and Affiliations:

- MHKIEIA, Associate Member of Hong Kong Institute of Environmental Impact Assessment, 2009.

Career History:

ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING Managing Director	2000 – Present
GREEN VALLEY LANDFILL LIMIT (SENT LANDFILL) QA/QC Manager	1999 – 2000
WOODWARD-CLYDE INTERNATIONAL (HK) LTD Land Contamination Specialist / Senior Project Supervisor	1993 – 1999
GAMMON CONSTRUCTION LIMITED Laboratory Manager	1978 – 1993

Synopsis:

Mr. Tam has over 30 years of hands-on experiences in site remediation, civil engineering, land contamination assessments, environmental management, environmental monitoring and audit (EM&A), construction QA/QC and laboratory management. In recent year, Mr. Tam has extensive experiences in designing and implementing both long-term and short-term EM&A programs for the government, multi-disciplinary infrastructure developments, large-scale construction projects, public utilities, education institutions, industrial facilities, and commercial properties. He also responsible for many large laboratory testing contracts for private sector clients, Public Works Department, Hong Kong Housing Authority and internal work for private clients.

Mr. Tam has more than 6 years experiences working in SENT Landfill. He was on a secondment for several years and joined Green Valley Ltd as the Construction QA/QC Manager. Mr. Tam is therefore very well familiar with the landfill construction and operation issues.

Mr. Tam is specialized and has extensive experiences in the areas of land contamination assessment, site remediation and decontamination, and other related issues. He was the contaminated assessment team leader for the Penny's Bay Site Investigation Work in which over 300 of boreholes were investigated and 35 groundwater monitoring wells were installed within 6 months.

In addition, Mr. Tam served as the Land Contamination Specialist for the KCRC East Rail Extension Projects and managed the site remediation at Wing On Plaza and further contamination assessment at Middle Road Children's Playground. He oversaw the entire implementation of the site remediation

program and liaised with the government authority.

In addition, Mr Tam is experienced in management and quality assurance for civil and building projects. The construction work includes: foundation, site formation, building structural, slope stabilisation and site investigation works.

Selected Project Experiences (EM&A)

- Highways Contract No. - HY/2021/06 – Retrofitting of Noise Barriers on Po Lam Road North and Po Ning Road (ETL, 2021 – present)
- Highways Contract No. - HY/2019/11 - Retrofitting of Long Tin Road (ETL, 2021 – present)
- WSD Contract No.: 3/WSD/20 - Reclaimed Water Supply to Sheung Shui and Fanling (ETL, 2021 – present)
- CEDD Contract CV/2021/03 – Site Formation and Infrastructure Works at Tsueng Kwan O – Ying Yip Road
- CEDD Contract No. WD/11/2018 - Environmental Team for Development of Lok Ma Chau Loop - Land Decontamination and Advance Engineering Works (ETL, 2019 – present)
- CEDD Service Contract No. EDO/04/2018 – Environmental Team For Cross Bay Link, Tseung Kwan O ((ETL, 2018 – present)
- Contract No. CV/2017/02 - Development of Columbarium at Sandy Ridge Cemetery – Infrastructural Works at Man Kam To Road and Lin Ma Hang Road (ETL, 2018 – present)
- Contract CV/2016/10 - Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery (ETL, 2018 – present)
- CEDD Service Contract No. NTE/07/2016 - Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works (ETL, 2016 – present)
- Contract No. NE/2014/05 - Ma On Shan Development – Roads, Drainage & Sewerage Works at Whitehead & Lok Wo Sha ,Phase 2 (ETL, 2016 – 2020)
- CEDD Contract CV/2013/08 Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 6 (ETL, 2015 – present)
- Contract No. DC/2012/02 - Upgrading of Mui Wo Sewage Treatment Works and Village Sewerage at Wang Tong and Yue Kwong Chuen (ETL, 2017 – 2018)
- Contract No. SS C505 - Construction of Liantang/Heung Yuen Wai Boundary Control Point (BCP) - Buildings and Associated Facilities (ETL, 2015 – 2020)
- TSW-C004 Ocean Park Tai Shue Wan Development, Site Formation and Foundation Works (ETL, 2016 – 2017)
- Contract No: DC/2013/09 - Advance Works for Shek Wu Hui Sewage Treatment Works – Further Expansion Phase 1A and Sewerage Works at Ping Che Road (ETL, 2015 – 2019)
- Contract No.: DC/2013/04 - Outlying Islands Sewerage Stage 2 (ETL, 2014 – 2017)
- Contract No. DC/2013/03 - Reconstruction and Rehabilitation of Kai Tak River from Tung Kwong Road to Prince Edward Road East (2014 – 2018)
- Contract No. DC/2013/01 Tolo Harbour Sewerage of Unsewered Areas Stage 2 - Phase 1 and Sewerage in Nam Wa Po and Wai Tau (ETL, 2013 – 2019)
- CEDD Contract No. CV/2012/05 - Bathing Beach at Lung Mei, Tai Po (ETL, 2017 – present)
- Contract No. DC/2010/06 - Upgrading of Central and East Kowloon Sewerage – Phase 2 (ETL, 2012 – 2016)
- Contract No. DC/2010/10 - Sewerage in Ping Kong, Fu Tei Pai and Tai Wo (ETL, 2012 – 2017)
- Contract No. DC/2011/06 – Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District (ETL, 2012 – 2016)
- DSD Contract No. DC/2011/04 – Reconstruction, Improvement and Rehabilitation of Kai Tak River from Wong Tai Sin Police Station to Tung Tau II Estate (ETL, 2011 – 2019)

- Contract DC/2010/02 - Drainage Improvement in Shuen Wan and Shek Wu Wai (ETL, 2011 – 2017)
- Contract No.: DC/2009/14 - North District and Tolo Harbour Regional Sewerage – Upgrading of Sewage Pumping Stations and Trunk Sewers (ETL, 2011 – 2017)
- Contract No DC/2009/07 - North District and Tolo Harbour Regional Sewerage Upgrading of Trunk Sewers at Ma Liu Shui, Tai Po (ETL, 2010 – 2017)

Appendix G

Proposed Qualified Ecologist(s)

本署檔號 () in EP2/N7/A/78 Pt. 6
 OUR REF: HCTY/CV201610/L18-278, HCTY/CV201610/L18-329
 來函檔號
 YOUR REF: 2835 1868
 電話
 TEL. NO.: 2591 0558
 圖文傳真
 FAX NO.:
 電子郵件
 E-MAIL:
 網址
 HOMEPAGE: <http://www.epd.gov.hk>

Environmental Protection Department
Branch Office
 28th Floor, Southorn Centre,
 130 Hennessy Road,
 Wan Chai, Hong Kong.

環境保護署分處
 香港灣仔
 軒尼詩道
 一百三十號
 修頓中心廿八樓

By Fax Only (2516 9430)

Hsin Chong Tsun Yip Joint Venture
 Hsin Chong Tower, 107-109 Wai Yip Street,
 Kwun Tong, Kwoloon
 (Attn : Mr. HO Man To)

21 June 2018

Dear Mr. HO,

Environmental Impact Assessment Ordinance, Cap. 499
Site Formation and Associated Infrastructural Works for Development of
Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery

Employment of Qualified Ecologist(s)
(Environmental Permit No. FEP-01/534/2017)
(Environmental Permit (EP) Condition 2.1 and 2.4)

I refer to your letter of 18 May 2018 enclosing the updated Curriculum Vitae of Mr. H.Y. TANG Desmond and Mr. Keith L.W. KEI as the proposed Qualified Ecologists required under EP Condition 2.4, and your letter of 4 June 2018 clarifying the division of labour between Mr. TANG and Mr. KEI. Both letters were submitted with certification by the ET Leader and verification by the IEC.

Pursuant to EP No. FEP-01/534/2017 Condition 2.1, I hereby approve Mr. H.Y. TANG Desmond and Mr. Keith L.W. KEI as the Qualified Ecologists for this Project.

The Qualified Ecologists are required to carry out the duties as specified in Condition 2.4 of the captioned EP, following the division of labour as stated in your letter of 4 June 2018.

Should you have any queries, please contact our Mr. Steve LI at 2835 1142.

Yours sincerely,



(Raymond W. M. WONG)
 Principal Environmental Protection Officer
 for Director of Environmental Protection

c.c.

CEDD-DPTL	(Attn: Mr. LI Kwok Hung)	fax: 2714 0079
Acuity (IEC)	(Attn: Mr. Jacky LEUNG)	fax: 2333 1316
AUES (ET)	(Attn: Mr. T.W. TAM)	fax: 2959 6079
AFCD	(Attn: Ms. Aidia CHAN)	fax: 2377 4427

Internal

P(RN) with copy of f(20) in Pt.4 and f(18) in Pt.6

S(SA)6

AE(SA)61

Professional History

2010/10 – present	Arborist Muni Arborist Limited
2006/07 – 2010/10	Assistant Project Manager Kelvin Design and Horticulture Limited
2005/04 – 2006/07	Environmental Officer Mak Hang Kei (HK) Construction Limited



Academic Training

Master	MSc. in Arboriculture and Urban Forestry	2016	University of Central Lancashire
Master	MSc. in Environmental Science	2006	Hong Kong University of Science and Technology
Degrees	BSc. in Environmental Science	2003	University of Plymouth

Professional Qualification

Tree Risk Assessment Qualification	2013	International Society of Arboriculture
Cert in the Principles of Garden Planning, Construction and Planting. (Categorized under “Horticulture and Forestry” under the UK qualification framework)	2013	Royal Horticultural Society
Cert in the Principles of Plant Growth, Health and Applied Propagation (Level 3) (Categorized under “Horticulture and Forestry” under the UK qualification framework)	2012	Royal Horticultural Society
Certified Arborist (HK-0469A)	2009	International Society of Arboriculture

Key Experience

Desmond has more than 10 years’ experience in landscape management and preservation, such as Tree Survey, Tree Felling Application, and he is currently a Senior Qualified Arborist for a slope vegetation maintenance project for ArchSD which has more than 100, 000 trees to preserve.

Desmond has degrees of BSc. and MSc. which are major in Environment Science. in order to further develop the knowledge in tree management, he also acquired the MSc. in Arboriculture and Urban Forestry in 2016. He is familiar with local plants and trees especially in large tree management. He acts as a tree expert to provide advice in designing the transplanting method of a 1m DBH paper-bark tree and to supervise the work from a private development site to a LCSD park at night with road closures in Sheung Shui. The project involved two 200 tonnes mobile cranes working in parallel at night.

Project Experience

TCD038 - Tree Safety Enhancement Measures on SIMAR Slopes Maintained by ArchSD – for ArchSD
(Qualified Arborist)
April 2016 – Present

Duties

Tree risk assessment and tree work supervision for trees on slope belongs to ArchSD

Assessment Team Leader for The Inventory Record, Tree Risk Assessment and Tree Works Certification in Public Housing Estates and Housing Authority Properties for Wong Tai Sin, Tsing Yi, Tsuen Wan and Islands Region.
November 2015 – Present

Review and endorse tree risk assessment inspection report and works record

Independent Tree Expert for T15 for the Residential Development at Fanling Sheung Shui Town Lot NO. 177
March 2013 – Aug 2017

Advise on the design, site supervision of a tree transplant, post planting care of a paper bark tree. Regular tree risk assessment of the tree during the construction and maintenance period.

Independent Tree Specialist for Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works (Contract 2)
January 2014 – Present

Advice on tree protection and site supervision of retain and transplant trees. Tree risk assessment for tree retained on site. Site Supervision of retain trees includes the install and maintenance of tree protection fence, regular tree pruning, post typhoon tree remedial work, pesticide application.

TCY038 - Tree Safety Enhancement Measures on SIMAR Slopes Maintained by ArchSD – for ArchSD (Qualified Arborist)
April 2012 – March 2016

Tree risk assessment and tree work supervision for trees on slope belongs to ArchSD

25 Public Housing Estates in Kowloon & NT for HK.

Tree Risk Assessment (5,000+ no. of trees)

Ngan Ying Road Ex-Caltex Petroleum Refilling Station, Sai Kung

Tree Risk Assessment for 3 mature *Araucaria heterophylla*

TWGH Kap Yan Directors Secondary School in Sheung Shui for The Education Bureau

Tree Risk Assessment & Tree Felling for a 20+m tall dead *Albizia lebbek*

The Arts & Technology Education Centre, 145 Junction road, Kowloon for The Education Bureau

Tree structural pruning works for 10+ mature trees

Tree Risk Assessment for 4 no. of mature trees at Mount Davis BBQ Area, HK for Home Affairs Dept

Tree Risk Assessment

Keith L W Kei

Ecologist

Mr. Kei is an Ecologist with extensive experience in marine and ecological survey including subtidal, intertidal and bird surveys.

Mr. Kei is the Executive Director of Reef Check Foundation, Hong Kong (one of the sub-branch of worldwide Reef Check Foundation) and organized the activities of "Reef Check" in Hong Kong since 1998. The objectives of this activity are to monitor the health status of corals in Hong Kong and increase public awareness and attention on coral conservation. Since 2000, the Reef Check Foundation is collaborating with Agriculture, Fisheries and Conservation Department to organize the activity.

Mr. Kei is working as a demonstrator in Hong Kong Baptist University and needs to arrange ecological field trip for students frequently including bird survey, intertidal survey and tree survey in the past 10 years. He is also an active bird watcher for the past 10 years.

In addition to the above, Mr. Kei has conducted a number of ecological survey and impact assessment for local consultant companies including Environment Resource Management ERM, Maunsell Consultants Company Ltd. and Ecosystem.

Fields of Competence

1. Coral Habitat Assessment
2. Environmental Impact Assessment
3. Marine/Coastal Ecology Management
4. Natural Resources and Conservation

Education

1. MPhil in Biology (1997), The Hong Kong University of Science and Technology
2. BSc (Honours) in Biology (1995), The Hong Kong University of Science and Technology

Professional Affiliations & Registrations

1. Director, Hong Kong Reef Check Foundation
2. Member of Hong Kong Bird Watching Society

Languages

1. English
2. Cantonese
3. Mandarin

Consultancy Survey Experiences for Bird Survey

1. WBSE Survey for "CE9/2011 (CE) Increasing Land Supply by Reclamation and Rock Cavern Development cum Public Engagement - Feasibility Study"
2. Ecological Monitoring for Trial Piling Works for Proposed Comprehensive Development at Tin Shui Wai Area 115 (2012)
 - 4 months monitoring with 3 times per week frequency from April 2012 to Aug 2012. The monitoring was done by both sighting and hearing of bird species inside the Wetland Park area. Beside the wetland park area, some grassland along the working areas were also surveyed.
3. The Drainage Services Department (DSD) - "Agreement No. CE 56/2014 (DS) Relocation to Sham Tseng Sewage Treatment Works to Caverns – Feasibility Study" (2016)
 - Bird surveys were carried out 3 times at wet season and 3 times at dry season. Habitats being surveyed included shrubland, plantation, woodland, developed area, watercourses and coastlines along the work area. Both sighting and hearing were used during the survey
4. WBSE Monitoring for IW MF – Shek Kwu Chau Incinerator (2017 to present)

Other Relevant Experiences

1. Arrange bird survey for university students during ecology field trip (2007 to present)
 - Survey area including Tai Pu Kau, Tai Mo Shan and Long Valley in the past 10 years
2. Volunteer for Hong Kong Bird Watching Society (2013 to present)

本署編號
 OUR REF: (11) in EP 2/N7/A/78 Pt.23
 來函編號
 YOUR REF: HCTY/CV201610/L20-244
 電話
 TEL. NO.: 2835 1142
 圖文傳真
 FAX NO: 2591 0558
 電子郵件
 E-MAIL: lawrence@epd.gov.hk
 網址
 HOMEPAGE: <http://www.epd.gov.hk>

Environmental Protection Department
Branch Office
 27th Floor, Southorn Centre,
 130 Hennessy Road,
 Wan Chai, Hong Kong.



環境保護署分處
 香港灣仔
 軒尼詩道
 一百三十號
 修頓中心廿八樓

30 June 2020

By Fax (2611 9908)

Hsin Chong Tsun Yip Joint Venture
 9/F, 163 Hoi Bun Road
 Kwun Tong, Kowloon
 Hong Kong
 (Attn : Mr. HO Man To)

Dear Mr. HO,

Environmental Impact Assessment Ordinance, Cap. 499
Site Formation and Associated Infrastructural Works for Development of Columbarium,
Crematorium and Related Facilities at Sandy Ridge Cemetery

Proposal on Replacement of Qualified Ecologist(s)
(Environmental Permit No. FEP-01/534/2017/A)
(EP Conditions 2.1 and 2.4)

I refer to your letter dated 6.5.2020 enclosing the Curriculum Vitae of Mr. LEUNG Wing Keung, Mike, as a Qualified Ecologist to replace Mr. H. Y. Tang, Desmond, who was approved in our letter dated 21.6.2018 and recently left his post, and the division of labour of the Qualified Ecologists proposed in your letter dated 4.6.2018. It is noted that the qualification and experience of Mr. LEUNG has been certified by the ET Leader and verified by the IEC.


2. Having reviewed the submission and taking advice from Agriculture, Fisheries and Conservation Department, we consider that the qualification and experience of Mr. LEUNG meets the relevant requirements. Pursuant to Condition 2.1 of FEP-01/534/2017/A, I hereby approve Mr. LEUNG Wing Keung, Mike as the Qualified Ecologist for this Project.

3. Regarding the duties of the Qualified Ecologist(s) to be carried out as specified in Condition 2.4 of the captioned FEP, it is understood that the division of labour proposed in your letter dated 4.6.2018 remains valid. This means Mr. LEUNG Wing Keung, Mike, would take up all responsibilities under Mr. H. Y. Tang, Desmond, as a Qualified Ecologist to carry out work related to i) Grassland Reinstatement Plan; ii) Vegetation Survey Report and the Transplantation Proposal; and iii) Woodland Compensation Plan under Conditions 2.13, 2.14-2.16 and 2.17 respectively. And Mr. Keith L. W. KEI would continue his responsibilities as a Qualified

Ecologist to carry out work related to i) Monitoring and Survey Plan for Golden-headed Cisticola, ii) Precautionary checks on the presence of nesting birds before any vegetation clearance in breeding season, and iii) baseline monitoring for Golden-headed Cisticola under Conditions 2.18, 2.19 and 3.2(i) respectively.

4. Should you have any queries, please contact our Ms. Candice CHUNG at 2835 1114.

Yours sincerely,



(Lawrence W.H. LIU)
Senior Environmental Protection Officer
for Director of Environmental Protection

c.c.

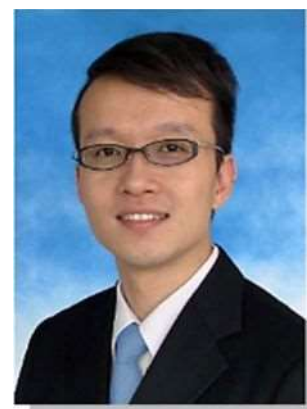
CEDD	(Attn: Mr. Steven SHUM)	fax: 2714 0695
Acuity (IEC)	(Attn: Mr. Jacky LEUNG)	fax: 2698 9383
AUES (ET)	(Attn: Mr. T.W. TAM)	fax: 2959 6079
ARUP	(Attn: Mr. EVANS Robert Antony)	fax: 2211 9699
AFCD	(Attn: Ms. Chole NG)	fax: 2377,4427

Internal

S(RN)3 (Copy of proposal by despatch)
AE(SA)64

Professional History

2010/03 – present	Director Muni Arborist Limited
2009/02 – 2010/03	Resident Senior Field Officer ACLA Ltd.
2008/05 – 2009/01	Resident Field Officer I P & T Architects and Engineers Ltd.
2007/04 – 2008/04	Senior Landscape Supervisor Oriental Landscape Ltd.
2005/05 – 2007/03	Horticulturist/ Assistant Project Manager ACLA Ltd.
2005/02 – 2005/08	Landscape Foreman Clearwater Bay Golf and Country Club
2004/01 – 2005/01	Project Coordinator Pegasus Greenland Limited



Academic Training

Grad Cert	Graduate Cert in Arboriculture (QF 6)	2017	The University of Melbourne
Degree	BSc. in Environmental Science	2003	The Chinese University of Hong Kong
Diploma	PDBM in Management Theory and Practice	2014	Vocational Training Council

Professional Qualification

Technical Member	2013	The Arboricultural Association
Tree Risk Assessment Qualification	2013	International Society of Arboriculture
Municipal Specialist (HK-0287AM)	2011	International Society of Arboriculture
Certified Arborist (HK-0287AM)	2006	International Society of Arboriculture

Training Certificate

Certified Integrated Pest Management	2011	Purdue University
Certified Permaculture Design	2011	Permaculture Institute Hong Kong
Certified Turf Professional	2008	The University of Georgia
Diploma in Chinese Medicinal Herbs	2006	Hong Kong Chinese Medical Research Institute

Professional Affiliation

ISA HK Chapter	2018 – present	President
ISA HK Chapter	2013 – 2018	Vice President
ISA HK Chapter Steering Committee	2012 – 2013	Co-chair
ISA	2010 – present	Proctor/Evaluator
ISA HK/China	2010 – 2013	Vice President
International Society of Arboriculture (ISA)	2007 – present	Professional Member

Key Experience

Mike has a Bachelor Degree in Environmental Science and equipped with knowledge including ecology, landscape ecology, EIA and etc through the university training. After graduation, he further studied a Chinese Medicinal Herbs Diploma course which covers identification of different herbs and shrubs in rural area.

Mike is currently the project director of MTR Shatin to Central Line (SCL). He is responsible to prepare and to review the Vegetation Landscape and Tree Preservation Proposal (VLTP) and to submit to EPD for approval under the EIA permit requirement. The VLTP covers vegetation, landscape and tree preservation, including transplantation methodology along the whole 17km long SCL to ensure the implementation of mitigation measures specified in the approved EIA report. He also need to ensure the vegetation protection measures stated in the VLTP are implemented on site. Since the project involve protection of more than 1000 trees along the railway line and relevant storage points stretched from Lo Wu to Shek O, there are a number of protected species being transplanted. Mike was responsible to identify the tree on site and to design the method statement and to prepare logistics, on behalf of MTR, with the contractors. Examples includes four 15m tall *Ailanthus fordii*, which is a protected species under Cap 96, at Olympic Garden Kowloon City being transplanted to off-site holding nursery and seven young *Aquilaria sinensis*, which is a protected species under Cap 586, on a slope at Hin Heng Tai Wai being transplanted onsite.

Mike was the independent Vegetation Maintenance Checker (VMC) for a slope vegetation maintenance project for ArchSD (TCD 938) since 2010, which covers more than 100, 000 trees plus vegetation on slopes maintained by ArchSD. One of the main duties in the project was to supervise and to perform Vegetation Maintenance Inspections and Operation, to ensuring healthy and sustainability of the vegetation on slopes. There are more than 3000 slopes in New Territory, located in the country parks, countryside, rural areas, parks and re-site villages and etc. Major duties in Vegetation Maintenance Inspections includes identifying and designing protection measure for the species of conservation interest including wild orchid and *Aquilaria sinensis* seedling. Examples include setting up protection measures of *Coelogyne fimbriata* on a slope at Tai Mo Shan, enhancing the vegetation diversity by introducing a variety of native species on slopes, identifying any unsatisfactory site conditions such as soil erosion and proposing related mitigation to improve the site condition. Another task under the same project is Woodland Management which includes woodland thinning and enhancement of vegetated slopes by identify native species, to preserve and to remove overcrowded plants and invasive and parasitic vines, weeds and unwanted vegetation that compete with other vegetation that hinder the establishment of woodland/shrubland or weaken bio-diversity. After the removal of the unwanted vegetation, compensatory planting proposal using the native species (which the seedlings were supplied by AFCD's Tai Tong Nursery) were proposed to create a woodland which is similar to the existing woodland nearby.

Project Experience

Duties

<p>C11038 – Arborist Consultancy for Shatin to Central Line for MTRC (Project Director) July 2012 – present</p>	<p>To deploy resources and manpower to fulfil the tree preservation requirements stated in Environmental Permit</p>
<p>FEHD E90/2012 Provision of Tree Risk Assessment, Inspection, Maintenance and Related Arboricultural Services to the Venues Under the Management of the District Environmental Hygiene Office (Project Director) June 2013 - May 2015</p>	<p>Arrange arborist to conduct inspection and arboricultural works supervision</p>
<p>C735F - West Island Line Arborist for Tree Protection – for MTRC (Project Director) Dec 2009 – June 2016 (31 months)</p>	<p>To deploy resources and manpower to fulfil the tree preservation requirements stated in Environmental Permit</p>
<p>TCY038/TCD 938 – The Term Contract for the Maintenance of Slopes for which the Architectural Services Department (Property Services Branch) is Responsible – NT and Outlying Islands (N) – for ArchSD (Senior Independent Checker) Oct 2010 – Oct 2019</p>	<p>Arrange arborist to conduct horticultural maintenance including tree risk assessment (~100, 000 trees).</p>
<p>Contract No. HY/2010/08 Central Wan Chai Bypass Tunnel SR8</p>	<p>Independent Tree Expert to advise tree preservation</p>
<p>Independent Qualified Arborist for T15 Tree Transplant for the Proposed Residential Development at Fanling, Sheung Shui Town Lot No. 177 Aug 2010 – July 2015</p>	<p>Independent Arborist to advise and supervise a large tree transplant for a private development</p>
<p>TCR318 - Tree Safety Enhancement Measures on SIMAR Slopes Maintained by ArchSD – for ArchSD (Senior Qualified Arborist)</p>	<p>Supervision and conducting of tree risk assessment for ~50, 000 trees.</p>
<p>KS20100061 - Tree Risk Assessment and Inspection for 41 Public Rental Housing Estates in Wong Tai Sin, Tsing Yi, Tsuen Wan and Islands Region – for Housing Authority (Qualified Arborist)</p>	<p>Conducting tree risk assessment, supervision of tree risk mitigation works for ~20,000 trees.</p>
<p>Maintenance Services for Old and Valuable Trees (New Territories) – for LCSD (Qualified Arborist)</p>	<p>Monitoring of Old and Valuable Trees (OVTs) conditions in twice a year basis.</p>
<p>Tree Risk Assessment for 16 Public Housing Estates in Kowloon East and Outlying Islands Region</p>	<p>Conducting tree risk assessment in Public Housing Estates.</p>
<p>HY/2009/03 - Tuen Mun Highways Widening Phase 4 – for HyD (Independent Tree Specialist)</p>	<p>Tree specialist in supervising the implementation of tree protection.</p>
<p>Yuet Wah Street Bus Terminus Redevelopment – for Urban Renewal Authority (Field Officer)</p>	<p>Field Officer for tree protection</p>
<p>Monitoring of Preserved Trees for the Hotel Development at the Former Marine Police Station at Tsim Sha Tsui</p>	<p>Monthly monitoring of large trees' condition during construction.</p>

(Heritage 1881)

Equestrian Olympic Game in HK 2008

Supervision of landscape works in HKSI, Perfold Park and Beas River Country Club.

Greening Works in Urban Areas Phase II and III (Resident Senior Field Officer)

Resident site staff for supervision of soft landscape works.

District Open Space at Po Kong Village Road, Wong Tai Sin – for ArchSD (Resident Field Officer)

Resident site staff for supervision of soft landscape works.

Hong Kong Jockey Club's Third Golf Club at Kau Sai Chau

Supervision of soft landscape works.

Appendix H

Proposed Registered Landscape Architect

本署編號 () in EP2/N7/A/78 Pt. 4
OUR REF: HCTY/CV201610/L18-190
來函檔號
YOUR REF:
電話 2835 1868
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Environmental Protection Department
Branch Office
28th Floor, Southern Centre,
130 Hennessy Road,
Wan Chai, Hong Kong.



環境保護署分處
香港灣仔
軒尼詩道
一百三十號
修頓中心廿八樓

By Fax Only (2516 9430)

Hsin Chong Tsun Yip Joint Venture
Hsin Chong Tower, 107-109 Wai Yip Street,
Kwun Tong, Kwoloon
(Attn : Mr. HO Man To)

23 May 2018

Dear Mr. HO,

Environmental Impact Assessment Ordinance, Cap. 499
Site Formation and Associated Infrastructural Works for Development of
Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery

Employment of Registered Landscape Architect
(Environmental Permit No. FEP-01/534/2017)
(Environmental Permit (EP) Condition 2.1 and 2.5)

I refer to your letter of 11 April 2018 proposing Mr. SHIU Yau Bun Ivan as the Registered Landscape Architect with certification by the ET Leader and verification by the IEC to form part of the Environmental Team (ET) for the captioned project under Condition 2.1 and carrying out the duties as specified in Condition 2.5¹ of the captioned Environmental Permit.

Pursuant to EP Condition 2.1², I hereby approve Mr. SHIU Yau Bun Ivan as the Registered Landscape Architect for this Project.

Please be reminded to comply with the remaining requirements of EP Condition 2.1 in a timely manner, including a proposal for minimum on-site time for the ET Leader and ET, and the provision of a site office/suitable work accommodation on site to the ET.

¹ Condition 2.5 of FEP No. FEP-01/534/2017 states that "A Registered Landscape Architect shall be appointed, no later than one month before the commencement of the construction of the Project, to form part of the ET to carry out work relating to landscape aspects including but not limited to auditing the mitigation measures to ensure compliance with the recommendations of the approved EIA Report (Register No. AEIAR-198/2016) and to certify submissions for the Project as required under Conditions 2.20 to 2.21. The qualification and experience of the Registered Landscape Architect shall be certified by the ET Leader and verified by the IEC."

² Condition 2.1 of FEP No. FEP-01/534/2017 states that "An ET shall be established by the Permit Holder no later than one month before the commencement of construction of the Project. The ET shall not be in any way an associated body of the Contractor or the IEC for the Project. The Permit Holder shall provide a site office/suitable work accommodation on site to the ET for use. The ET shall be headed by an ET Leader and supported by relevant specialists including qualified ecologist(s) and Registered Landscape Architect. The ET Leader shall be a person who has at least 7 years of experience in environmental monitoring and auditing (EM&A) or environmental management. The minimum on-site time for the ET Leader and ET, and the qualifications of the specialists in the ET shall be proposed with justifications for the approval of the Director."

Should you have any queries, please contact our Mr. Steve LI at 2835 1142.

Yours sincerely,



(Raymond W. M. WONG)
Principal Environmental Protection Officer
for Director of Environmental Protection

c.c.

CEDD-DPTL	(Attn: Mr. LI Kwok Hung)	fax: 2714 0079
Acuity (IEC)	(Attn: Mr. Jacky LEUNG)	fax: 2333 1316
AUES (ET)	(Attn: Mr. T.W. TAM)	fax: 2959 6079
UD&L, PlanD	(Attn: Ms. Jaime PONG)	fax: 2116 0752

Internal

P(RN) with copy of cover letter, Appendix C, F(for RLA) and G(for RLA) of f(29)
S(SA)6
AE(SA)61

Professional History

02/ 2014 – Present	Landscape Architect Muni Arborist Limited
1/2012 – 02/2014	Landscape Architect Earthasia Ltd
1/2010 – 1/2012	Landscape Architect Belt Collins HK
5/2007 – 1/2010	Landscape Architect Urbis Ltd
8/2003 – 5/2007	Landscape Architect Belt Collins HK

Academic Training

Master	Master of Landscape Architecture	2007	The University of Hong Kong
Degree	Degree in Architectural Engineering	2003	University of Leed, UK

Professional Association

Registered Landscape Architect (R142)

Key Experience

Ivan has the academic background of engineering and landscape architecture. He has extensive experience in the landscape industry from planning to implementation. He is particularly experienced in landscape lead consultancy projects to ensure team work efficiently within required time frame and budget.

Project Experience

Hong Kong & Macau

2014, Landscape consultancy services for The Hong Kong Polytechnics University CDEF court revitalization works.

2014, Improvement Works of Proposed Ball Court at Chinese Y.M.C.A. College, Ma On Shan, N.T., Hong Kong

2014, Tree transplanting supervision of Long Ping Station Extension for MTRC, N.T. Hong Kong.

2014, Landscape consultancy services for two temples development at Ngau Tau Kok Lower Estates, KLN, Hong Kong.

2013, LOHAS Retail Development Landscape Consultancy Services for MTRC, N.T. Hong Kong.

- 2013, Chu Hai College Tuen Mun New Campus Landscape Consultancy Services N.T. Hong Kong.
- 2013, Term Landscape Consultancy Services for Environmental Protection Department, Hong Kong.
- 2013, Lead consultancy services for Tai Kok Tsui Streetscape Improvement Works for URA, Hong Kong.
- 2012, Lead consultancy services for Tree Nursery Of West Kowloon Cultural District for WKODA, Hong Kong.
- 2012, Heya Residential Development Landscape Consultancy Services for Hong Kong Housing Society, Cheung Sha Wan, Hong Kong
- 2012, Landscape consultancy services for Studio City Casino Resort Development, Macau.
- 2012, Landscape consultancy services for Kai Yuen Lane Private Residential Development for New World Project Management Ltd, North Point, Hong Kong
- 2012, Lead consultancy services for Man Cheong Street Open Space Development for Sino Group, Jordan, Hong Kong
- 2010, Consultancy Agreement No. 9AW 026, Tuen Mun River Beautification – Tin Hau Temple Plaza
- 2008-2010, Provision of 13 nos. of Green Roofs at Various Locations at Hong Kong Island, Mui Wo and Hei Ling Chau
- 2007-2010, Sub-consultancy services for Residential Development and Tree Removal Application at 350 Tai Hang Road, Hong Kong.
- 2008-2009, Sub-consultancy services for Proposed Footbridge Linking Junk Bay with Tiu Keng Leng MTR Station, Hong Kong
- 2008-2010, The University of Hong Kong - Institute of Human Resources - Soft Landscape Sub-Consultancy
- 2008-2010, Phased Re-provisioning of Cape Collinson Crematorium, Cape Collinson Road, Chai Wan, Hong Kong

China

2013, 寶能集團 深圳寶能公館住宅項目
Shenzhen Baoneng Residential development

2012, 廣州利合 亞運城D地塊住宅項目
Guangzhou Asia Game Site Re-development, GZ, PRC

2011-2012, 嘉里 營口香格里拉酒店及住宅項目
Conceptual Design of Shangri-La Hotel and residential development, YinKao, PRC

2011-2012, 雨潤集團 南京國際廣場
Commercial Plaza and Podium Garden, Nanjing, PRC

2010-2012, 雨潤集團 青島星雨華府
Commercial complex development, TsingDao, PRC

2011-2012, 雅居樂 廣州科學城
Residential development, GZ, PRC

2010-2011, 上海蓮申 春申Mansion住宅項目
Residential development, Shanghai, PRC

2010-2012, 綠城 無錫太湖新城
GreenTown Residential development, Wuxi, PRC

2010-2012, 綠城 金華海棠
GreenTown Residential development, Jinhua, PRC

2007-2010, 瑞安 重慶天地 天地湖公園項目
MAN-MADE LAKE PARK, CHONGQING, PRC

2007, Consultancy service for tender Prequalification for New Civil Aviation Headquarter, Hong Kong.

2005, Responsible for landscape constructions documents for Wynn Hotel, Macau.

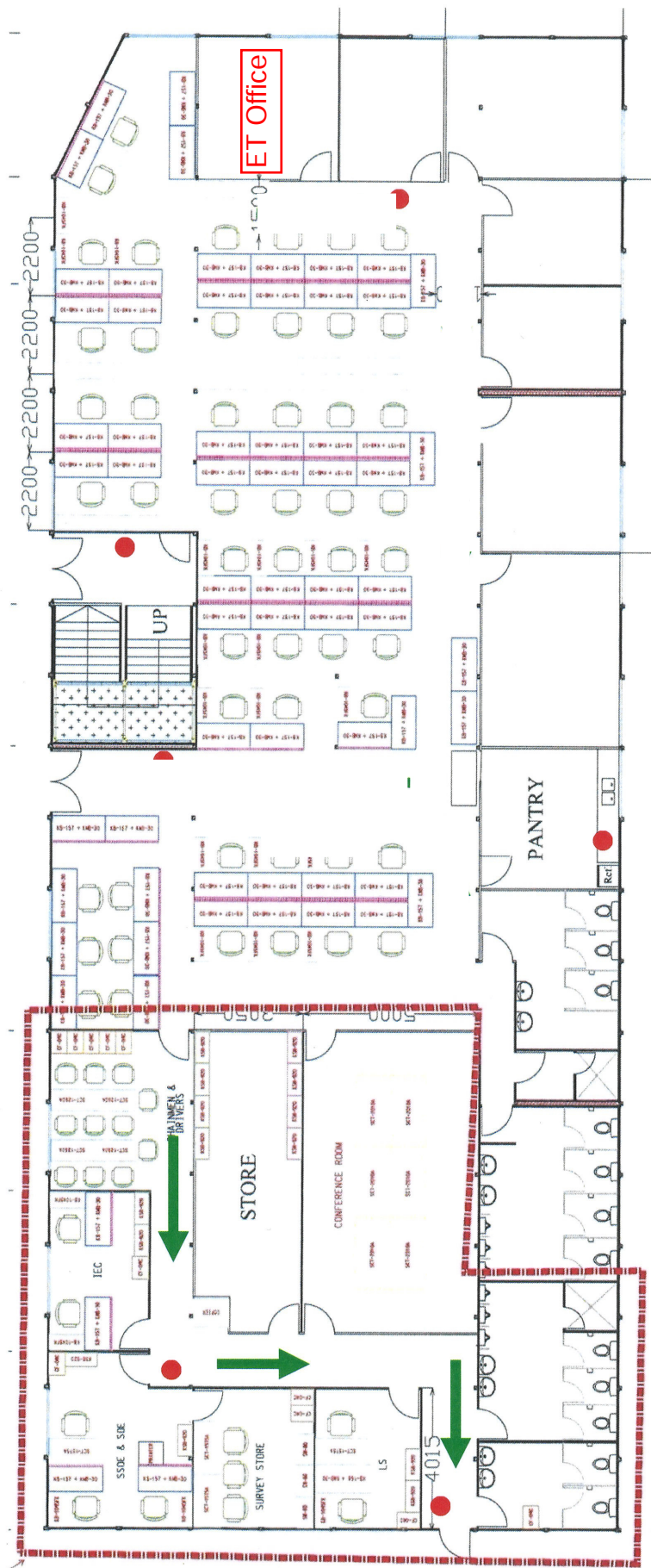
2003, Union Square Package 5, 6 and 7, Kowloon Station Development, Hong Kong.

Appendix I

Accommodation of Environmental Team



Parking Area 停車場



Appendix J

Locations of Environmental Monitoring Stations

Printed by : 2/26/2016
 Filename : G:\env\project\21448\13_Drawing_Deliverables\Reports\018_EIA&A_Manual\20160226_Revise_Final\Figure 5.12 - Locations of Construction Dust Monitoring (Sheet 2 of 4).dgn



- Legend**
- Project Boundary
 - Utilities Construction
 - Proposed Air Monitoring Stations

E	FIFTH ISSUE	GL	02/16
D	FOURTH ISSUE	GL	12/15
C	THIRD ISSUE	GL	10/15
B	SECOND ISSUE	GL	02/15
Rev	Description	By	Date

Consultant

Contract No. and Title:
 Agreement No. CE 1/2013(CE)
 Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery - Design and Construction

Drawing title

COPYRIGHT RESERVED

Location ID	Description
ASR-1	Village House along Man Kam To Road

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.
 ALL RIGHTS RESERVED.
 © THE MAP & PARTNERS HONG KONG LIMITED.

Printed by : 2/29/2016
 File name : G:\env\proj\tec\1.231448\13_Drawing_Deliverables\Reports\018_EW&A_Manual\20160226_Revise_Final_v1\Figure_6.2.2 - Locations of Proposed Construction Noise Monitoring (Sheet 2 of 4).dgn



- Legend**
- Project Boundary
 - Utilities Construction
 - 300m Assessment Area
 - Proposed Construction Noise Monitoring Locations

E	FIFTH ISSUE	GL	02/16
D	FOURTH ISSUE	GL	12/15
C	THIRD ISSUE	GL	10/15
B	SECOND ISSUE	GL	02/15
Rev	Description	By	Date

Consultant

Contract No. and Title:
 Agreement No. CE 1/2013(CE)
 Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery - Design and Construction

Drawing title

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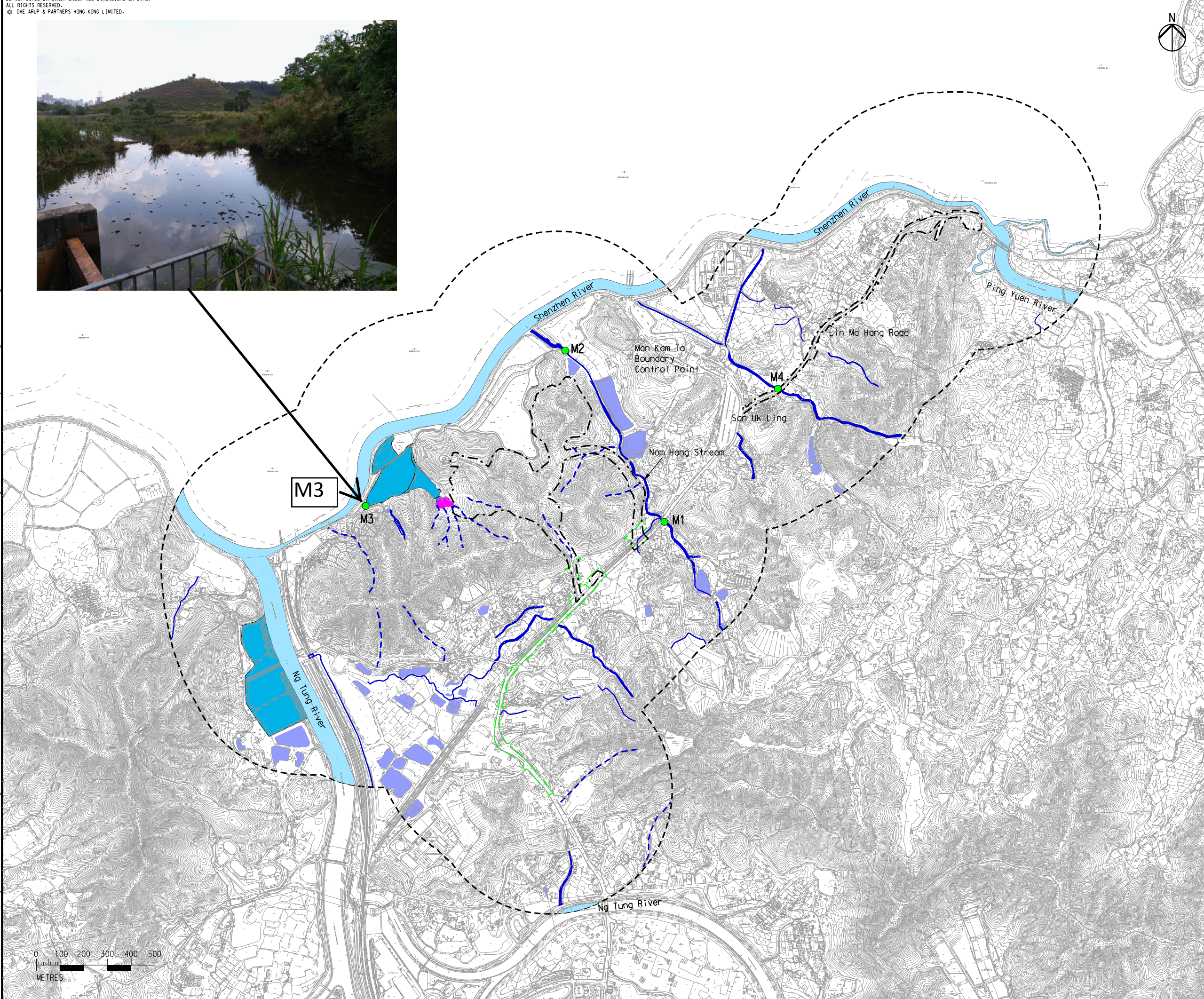
Location ID	Description
CN-1	Village house to the west of Sha Ling Road





- Legend**
- Project Boundary
 - Utilities Construction
 - 500m Assessment Area
 - Channelized River
 - Pond
 - Watercourse
 - Conservation Area (CA)
 - Wet Woodland
 - Seasonal Watercourse
 - Water Quality Monitoring Stations in EM&A Manual

Printed by : 2/29/2016
 Filename : G:\env\project\2314448\13 Drawing Deliverables\Reports\018 EM&A Manual\20160226 Revised Final_V1\Figure 7.1.1 - Water Quality Monitoring Locations.dgn



E	FIFTH ISSUE	GL	02/16
D	FOURTH ISSUE	GL	12/15
C	THIRD ISSUE	GL	10/15
B	SECOND ISSUE	GL	02/15
Rev	Description	By	Date

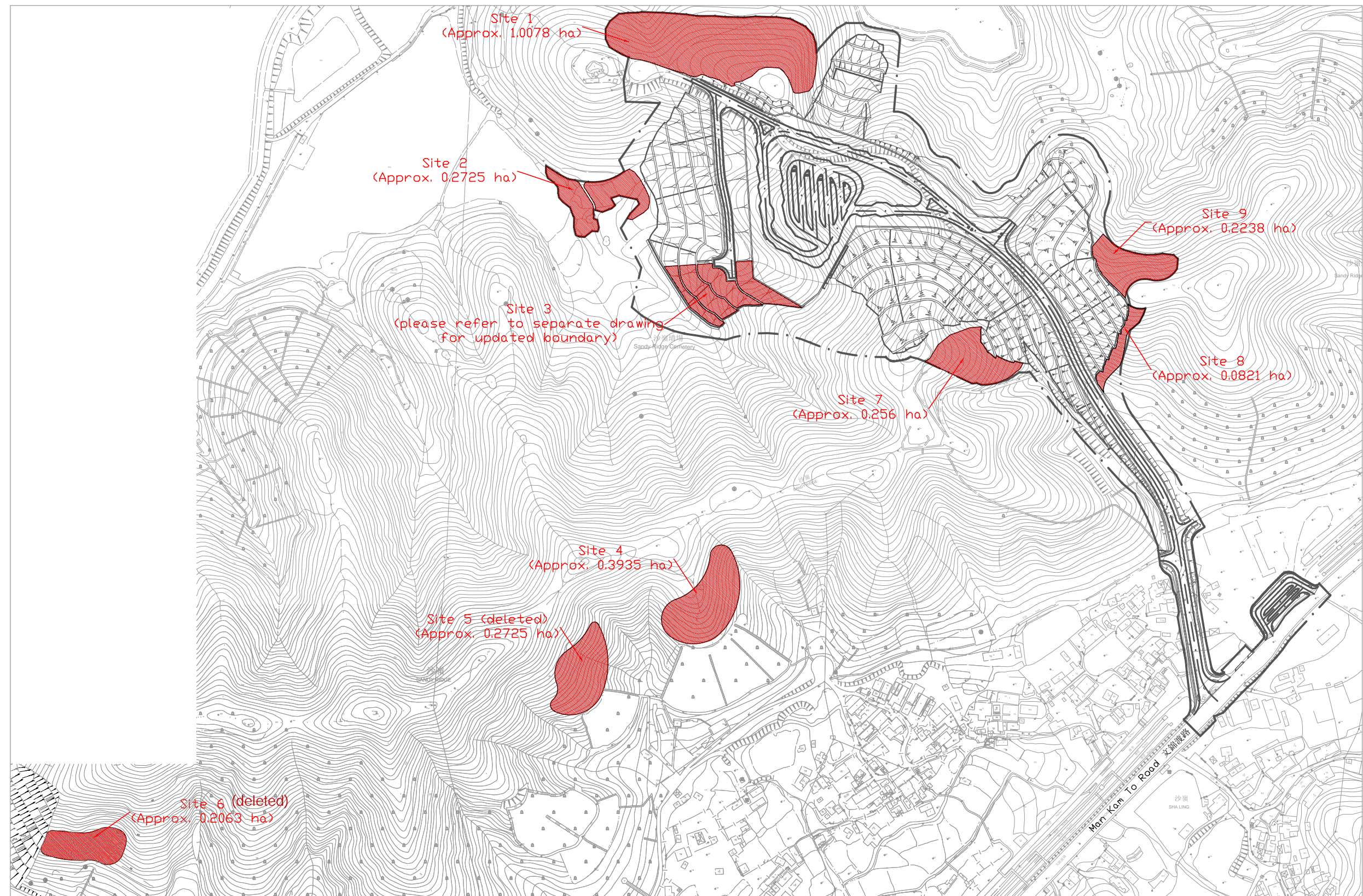
Consultant

Contract No. and Title:
 Agreement No. CE 1/2013(CE)
 Site Formation and Associated
 Infrastructural Works for Development
 of Columbarium, Crematorium and
 Related Facilities at Sandy Ridge
 Cemetery - Design and Construction

Drawing title

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Layout Plan for Woodland Compensation Area

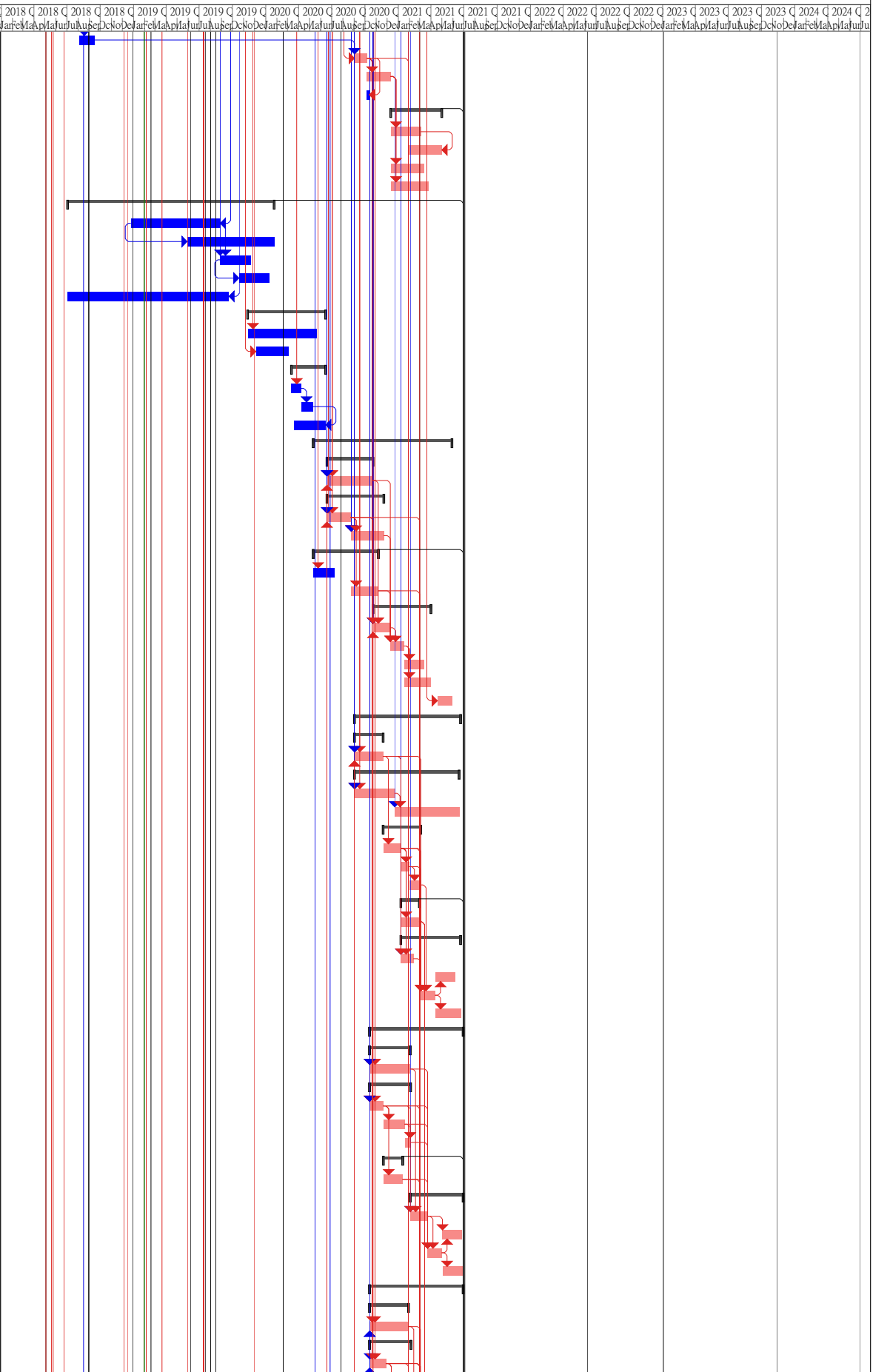
Appendix K

Construction Master Programme

ID	Task Name	Duration	Start	Finish	Predecessors	Timeline
1	Key Dates	2199 days	Fri 17/12/15	Fri 23/12/22		
2	Contract Starting Date	0 days	Fri 17/12/15	Fri 17/12/15		12/15
3	Contract Completion Date for Section 1	0 days	Wed 20/2/12	Wed 20/2/12	22	2/12
4	Contract Completion Date for Section 2	0 days	Mon 20/12/21	Mon 20/12/21	23	12/21
5	Contract Completion Date for Section 3	0 days	Wed 19/7/17	Wed 19/7/17	24	7/17
6	Contract Completion Date for Section 4 (Establishment Works)	0 days	Sun 23/2/12	Sun 23/2/12	25	2/12
7	Contract Completion Date for Section 5 (Establishment Works)	0 days	Fri 23/12/22	Fri 23/12/22	26	12/22
8	Contract Completion Date for Section 6 (Establishment Works)	0 days	Sun 22/7/17	Sun 22/7/17	27	7/17
9	Contract Completion Date	0 days	Fri 23/12/22	Fri 23/12/22		12/22
10	Access Dates	580 days	Fri 17/12/15	Wed 19/7/17		
11	Part A1	0 days	Fri 17/12/15	Fri 17/12/15	2SS	12/15
12	Part A2	0 days	Fri 17/12/15	Fri 17/12/15	2SS	12/15
13	Part A3	0 days	Fri 17/12/15	Fri 17/12/15	2SS	12/15
14	Part B1	0 days	Fri 17/12/15	Fri 17/12/15	2SS	12/15
15	Part B2	0 days	Fri 17/12/15	Fri 17/12/15	2SS	12/15
16	Part C	0 days	Fri 17/12/15	Fri 17/12/15	2SS	12/15
17	Part D	0 days	Fri 18/12/14	Fri 18/12/14	2SS+365 days	12/14
18	Part E	0 days	Fri 17/12/15	Fri 17/12/15	2SS	12/15
19	Part G1	0 days	Wed 19/7/17	Wed 19/7/17	2SS+580 days	7/17
20	Part G2	0 days	Wed 19/7/17	Wed 19/7/17	2SS+580 days	7/17
21	Section Completion Date	1619 days	Wed 19/7/17	Fri 23/12/22		
22	Section 1 (Parts A1, A2 & A3)	0 days	Wed 20/2/12	Wed 20/2/12	105	2/12
23	Section 2 (Parts B1, B2, C, D, F, G1 & G2)	0 days	Mon 20/12/21	Mon 20/12/21	179	12/21
24	Section 3 (Part E)	0 days	Wed 19/7/17	Wed 19/7/17	495	7/17
25	Section 4 (Establishment Works within Parts A1, A2 & A3)	0 days	Sun 23/2/12	Sun 23/2/12	545	2/12
26	Section 5 (Establishment Works within Parts B1, B2, C, D, F, G1 & G2)	0 days	Fri 23/12/22	Fri 23/12/22	547	12/22
27	Section 6 (Establishment Works within Part E)	0 days	Sun 22/7/17	Sun 22/7/17	549	7/17
28	Subletting	239 days	Fri 18/1/5	Fri 18/8/31		
29	Subletting of Tree Specialist	54 days	Fri 18/1/5	Tue 18/2/27	42	
30	Subletting of Conditon Survey	54 days	Fri 18/1/5	Tue 18/2/27	42	
31	Subletting of Ground Investigation Work	74 days	Fri 18/1/5	Mon 18/3/19	42	
32	Subletting of Geotechnical Instrumentation	74 days	Fri 18/1/5	Mon 18/3/19	42	
33	Subletting of Environmental Team and ET Leader	81 days	Fri 18/1/5	Mon 18/3/26	42	
34	Subletting of Independent Checking Engineer	142 days	Fri 18/1/5	Sat 18/5/26	42	
35	Subletting of Temporary Works Design	12 days	Sun 18/5/27	Thu 18/6/7	34	
36	Subletting of Contractor Design	45 days	Fri 18/6/8	Sun 18/7/22	35	
37	Subletting of Site Hoarding	90 days	Fri 18/1/5	Wed 18/4/4	42	
38	Subletting of Slopworks	150 days	Tue 18/3/27	Thu 18/8/23	33,29,31,32	
39	Subletting of Fill Transportation	158 days	Tue 18/3/27	Fri 18/8/31	33,29,31,32	
40	Subletting of Retaining Wall	154 days	Tue 18/3/27	Mon 18/8/27	29,31,32,33	
41	Preliminary Works	606 days	Fri 17/12/15	Mon 19/8/12		
42	Submission and Approval of Subletting and Procurement Procedure	21 days	Fri 17/12/15	Thu 18/1/4	2	
43	Condition Survey and Report Submission	60 days	Wed 18/2/28	Sat 18/4/28	30	
44	Initial Site Survey and Setting out of the Site	150 days	Fri 17/12/15	Sun 18/5/13	2	
45	Submission of Subcontractor Management Plan	39 days	Fri 17/12/15	Mon 18/1/22	2	
46	Approval of Subcontractor Management Plan	24 days	Tue 18/1/23	Thu 18/2/15	45	
47	Submission of Safety Plan	82 days	Fri 17/12/15	Tue 18/3/6	2	
48	Approval of Safety Plan	21 days	Wed 18/3/7	Tue 18/3/27	47	
49	Submission of Environmental Management Plan	29 days	Fri 17/12/15	Fri 18/1/12	2	
50	Approval of Environmental Management Plan	19 days	Sat 18/1/13	Wed 18/1/31	49	
51	Submission and Approval Required at Environmental Permit for Commencement of Construction	142 days	Tue 18/3/27	Wed 18/8/15		
52	Vegetation Survey Report and Transplantation Proposal	68 days	Tue 18/3/27	Sat 18/6/2		
53	Vegetation Survey (Including Baseline Flora Survey Reports) Reports Submission and Transplantation	38 days	Tue 18/3/27	Thu 18/5/3	33	
54	EPD Approval	30 days	Fri 18/5/4	Sat 18/6/2	53	
55	Woodland Compensation Plan	68 days	Tue 18/3/27	Sat 18/6/2		
56	Woodland Compensation Plan Preparation and Submission to EPD	38 days	Tue 18/3/27	Thu 18/5/3	33	
57	EPD Approval	30 days	Fri 18/5/4	Sat 18/6/2	56	
58	Golden-headed Cisticola Monitoring and Survey Plan	68 days	Tue 18/3/27	Sat 18/6/2		
59	Golden-headed Cisticola Monitoring and Survey Plan Submission to EPD	38 days	Tue 18/3/27	Thu 18/5/3	33	
60	EPD Approval	30 days	Fri 18/5/4	Sat 18/6/2	59	
61	Landscape and Visual Mitigation and Tree Preservation Plan	68 days	Tue 18/3/27	Sat 18/6/2		
62	Landscape and Visual Mitigation and Tree Preservation Plan Submission to EPD	38 days	Tue 18/3/27	Thu 18/5/3	33	
63	EPD Approval	30 days	Fri 18/5/4	Sat 18/6/2	62	
64	Traffic Noise Mitigation Plan	65 days	Tue 18/3/27	Wed 18/5/30		
65	Traffic Noise Mitigation Plan Submission to EPD	35 days	Tue 18/3/27	Mon 18/4/30	33	
66	EPD Approval	30 days	Tue 18/5/1	Wed 18/5/30	65	
67	Grassland Reinstatement Plan	30 days	Thu 18/5/3	Sat 18/6/2		
68	Grassland Reinstatement Plan Submission to EPD (by Others)	0 days	Thu 18/5/3	Thu 18/5/3		
69	EPD Approval	30 days	Fri 18/5/4	Sat 18/6/2	68	
70	Environmental Baseline Monitoring	142 days	Tue 18/3/27	Wed 18/8/15		
71	Environmental Baseline Monitoring Methodology for Air Quality and Noise	15 days	Tue 18/3/27	Tue 18/4/10	33	
72	Environmental Baseline Monitoring Methodology for Air Quality and Noise Verification and Approval	14 days	Wed 18/4/11	Tue 18/4/24	71	
73	Environmental Baseline Monitoring Methodology for Water Quality	17 days	Tue 18/3/27	Thu 18/4/12	33	

ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart (2018 Q1 to 2024 Q2)																											
74	Environmental Baseline Monitoring Methodology for Water Quality Verification and Approval from	14 days	Fri 18/4/13	Thu 18/4/26	73	[Gantt Bar]																											
75	Environmental Baseline Monitoring for Air Quality	14 days	Wed 18/4/25	Tue 18/5/8	72	[Gantt Bar]																											
76	Environmental Baseline Monitoring for Noise	14 days	Wed 18/4/25	Tue 18/5/8	72	[Gantt Bar]																											
77	Environmental Baseline Monitoring Report Verification by IEC and Report Submission to EPD for Air	4 days	Wed 18/5/9	Sat 18/5/12	75,76	[Gantt Bar]																											
78	Environmental Baseline Monitoring for Water Quality	102 days	Fri 18/4/27	Mon 18/8/6	74	[Gantt Bar]																											
79	Environmental Baseline Monitoring Report Verification by IEC and Report Submission to EPD for Water	2 days	Tue 18/8/7	Wed 18/8/8	78	[Gantt Bar]																											
80	EPD Review for Baseline Monitoring	7 days	Thu 18/8/9	Wed 18/8/15	79,77	[Gantt Bar]																											
81	Other Requirement at Environmental Permits for Commencement of Works	68 days	Tue 18/3/27	Sat 18/6/2	33	[Gantt Bar]																											
82	Contractor's Design and Major Temporary Works Design	431 days	Fri 18/6/8	Mon 19/8/12		[Summary Bar]																											
83	Temporary Drainage Design	30 days	Fri 18/6/8	Sat 18/7/7	35,34	[Gantt Bar]																											
84	Approval of Temporary Drainage Design	21 days	Sun 18/7/8	Sat 18/7/28	83	[Gantt Bar]																											
85	Design of Noise Barrier Superstructure, and Liasion with WSD for Construction of Noise Barrier	365 days	Mon 18/7/23	Mon 19/7/22	35,34,36	[Gantt Bar]																											
86	Approval of Noise Barrier Superstructure Design	21 days	Tue 19/7/23	Mon 19/8/12	85	[Gantt Bar]																											
87	Temporary Works Design for Retaining Wall RW11 Construction	210 days	Fri 18/6/8	Thu 19/1/3	35,34	[Gantt Bar]																											
88	Approval of Temporary Works Design for Retaining Wall RW11 Construction	21 days	Fri 19/1/4	Thu 19/1/24	87	[Gantt Bar]																											
89	Temporary Works Design for RCP Construction between DongJiang Water Mains, Liasion and	200 days	Fri 18/6/8	Mon 18/12/24	35,34	[Gantt Bar]																											
90	Approval of Temporary Works Design for RCP Construction between DongJiang Water Mains	21 days	Tue 18/12/25	Mon 19/1/14	89	[Gantt Bar]																											
91	Design of E&M Works for Reprovisioned Government Refuse Collection Point (RCP)	60 days	Mon 18/7/23	Thu 18/9/20	36,34	[Gantt Bar]																											
92	Approval of RCP E&M Design	21 days	Fri 18/9/21	Thu 18/10/11	91	[Gantt Bar]																											
93	Temporary Works Design for Sewerage Across DongJiang Water Mains, Liasion and Submission	365 days	Fri 18/6/8	Fri 19/6/7	35,34	[Gantt Bar]																											
94	Approval of Temporary Works Design for Sewerage Across DongJiang Water Mains	21 days	Sat 19/6/8	Fri 19/6/28	93	[Gantt Bar]																											
95	Design of Ventilation and De-odourisation Sytem (VDS) and Air Mixing System (AMS) of Sewage	150 days	Fri 18/9/21	Sun 19/2/17	36,91,34	[Gantt Bar]																											
96	Approval of VDS and AMS Design for Sewage Detention Tank	21 days	Mon 19/2/18	Sun 19/3/10	95,92	[Gantt Bar]																											
97	Design of Concrete Plinth and Enclosure for Water Meter Box for Fresh Water for C&C Development	45 days	Mon 18/7/23	Wed 18/9/5	36,34	[Gantt Bar]																											
98	Approval of Concrete Plinth and Enclosure for Water Meter Box for Fresh Water for C&C Development	21 days	Thu 18/9/6	Wed 18/9/26	97	[Gantt Bar]																											
99	Design and Co-ordination for Road Lighting	275 days	Mon 18/7/23	Tue 19/4/23	36	[Gantt Bar]																											
100	Project Manager's Site Accommodation	280 days	Thu 17/12/28	Wed 18/10/3		[Summary Bar]																											
101	Set up of Secondary Site Office	45 days	Fri 18/1/5	Sun 18/2/18	42	[Gantt Bar]																											
102	Application for Land Allocation of Site Accommodation	170 days	Thu 17/12/28	Fri 18/6/15	2SS	[Gantt Bar]																											
103	Subletting, Procurement and Design for Site Accommodation	45 days	Wed 18/5/2	Fri 18/6/15	102FF	[Gantt Bar]																											
104	Construction of Site Accommodation	110 days	Sat 18/6/16	Wed 18/10/3	103	[Gantt Bar]																											
105	Section 1 of the Works (Parts A1, A2 & A3)	940 days	Fri 17/12/15	Sat 20/7/11		[Summary Bar]																											
106	Tree Survey and Report Submission	31 days	Wed 18/2/28	Mon 18/4/9	29	[Gantt Bar]																											
107	Tree Felling and Tree Transplant	58 days	Fri 18/5/4	Fri 18/7/13	106,53,59	[Gantt Bar]																											
108	Erection of Site Hoarding	30 days	Thu 18/8/16	Wed 18/9/19	37,51	[Gantt Bar]																											
109	Temporary Drainage Works	90 days	Thu 18/8/16	Tue 18/12/4	84,51	[Gantt Bar]																											
110	Utilities Diversion/Protection Works	45 days	Fri 17/12/15	Thu 18/2/8		[Summary Bar]																											
111	Enquiries of Utilities As-built Record from UU Companies	45 days	Fri 17/12/15	Thu 18/2/8	2	[Gantt Bar]																											
112	CLP	0 days	Fri 17/12/15	Fri 17/12/15		[Summary Bar]																											
113	Removal / Diversion of Existing 11kV Overhead Cable (By CLP)	0 days	Fri 17/12/15	Fri 17/12/15	2	[Gantt Bar]																											
114	Ground Investigation and Geotechnical instrumentation for Commencement of Slopework	120 days	Tue 18/3/20	Wed 18/8/15		[Summary Bar]																											
115	Mobilization of GI Rig and Preparation Works	18 days	Tue 18/3/20	Fri 18/4/13	11,12,13,31,106	[Gantt Bar]																											
116	Verification Drillholes (2 Nos., VDH1, 2) and Preliminary Results Submission	12 days	Sat 18/4/14	Fri 18/4/27	115	[Gantt Bar]																											
117	Site Clearance for Verification Drillholes (6 Nos., VDH7-9,16-18)	14 days	Fri 18/5/4	Sat 18/5/19	31,106,115,53,5	[Gantt Bar]																											
118	Verification Drillholes (6 Nos., VDH7-9, 16-18) and Preliminary Results Submission	36 days	Mon 18/5/21	Wed 18/7/4	117	[Gantt Bar]																											
119	Inspection Pits (4 Nos., IP1-4)	24 days	Mon 18/5/21	Tue 18/6/19	31,106,115,117	[Gantt Bar]																											
120	Geotechnical Instrumentation Required for Commencement of Slope Works	30 days	Sat 18/4/14	Sat 18/5/19	115,32	[Gantt Bar]																											
121	Formal Report Submission and Verification of the Design of Cut and Fill Slope by PM	42 days	Thu 18/7/5	Wed 18/8/15	116,119,118	[Gantt Bar]																											
122	Retaining Wall RW1	317 days	Thu 18/8/16	Fri 19/9/13		[Summary Bar]																											
123	Excavation to Formation Level, Plate Load Test and Blinding Layer for Retaining Wall Bays 1-9	27 days	Thu 18/8/16	Sat 18/9/15	51,106	[Gantt Bar]																											
124	Excavation to Formation Level, Plate Load Test and Blinding Layer for Retaining Wall Bays 10-17	29 days	Mon 18/9/17	Thu 18/10/25	123	[Gantt Bar]																											
125	Temporary Access Road for Vehicular Access	11 days	Thu 18/8/16	Tue 18/8/28	51	[Gantt Bar]																											
126	Base of Retaining Wall RW1 Bay 1-9	32 days	Thu 18/8/30	Mon 18/10/8	40,120,107,123	[Gantt Bar]																											
127	Base of Retaining Wall RW1 Bay 10-17	32 days	Tue 18/10/9	Sat 18/11/17	126,124SS+12	[Gantt Bar]																											
128	Wall Stem of Retaining Wall RW1 1-4	26 days	Sat 18/9/8	Wed 18/10/10	126SS+8 days	[Gantt Bar]																											
129	Wall Stem of Retaining Wall RW1 Bay 5-10 (1st pour)	26 days	Thu 18/10/11	Tue 18/11/13	128,126,127FF	[Gantt Bar]																											
130	Wall Stem of Retaining Wall RW1 11-17	36 days	Wed 18/11/14	Thu 18/12/27	129,127FF+22	[Gantt Bar]																											
131	Wall Stem of Retaining Wall RW1 Bay 5-10 (2nd pour)	39 days	Fri 18/12/28	Fri 19/2/15	130	[Gantt Bar]																											
132	Filter Layer behind RW1	173 days	Thu 18/9/13	Thu 19/4/18	126SS+12 days	[Gantt Bar]																											
133	Erosion Control Mat at RW1	111 days	Fri 18/12/28	Mon 19/5/20	130	[Gantt Bar]																											
134	Drainage and Maintenance Access in front of RW1	120 days	Fri 18/12/28	Thu 19/5/30	130	[Gantt Bar]																											
135	Drainage and Maintenance Access on top of RW1	120 days	Tue 19/4/23	Fri 19/9/13	132,130	[Gantt Bar]																											
136	Fill Slope FS1	503 days	Thu 18/10/11	Fri 20/7/3		[Summary Bar]																											
137	Fill Slope FS1 South (Section 12 at Drawing C1/GE/1030)	453 days	Wed 18/11/14	Wed 20/6/3		[Summary Bar]																											
138	FS1 South Backfilling Stage 1 (~7.6m max, Section 12 up to +20 mPD)	75 days	Wed 18/11/14	Fri 19/2/15	43,51,121,107,1	[Gantt Bar]																											
139	FS1 South Backfilling Stage 2 (~7.5m, Section 12 up to +27.5 mPD)+filter blanket 7.5m height	100 days	Sat 19/2/16	Sat 19/6/22	138,127,131,13	[Gantt Bar]																											
140	FS1 South Backfilling Stage 3 (~7.5m height, Section 12 up to ~+35mPD), (27.5mPD to 30mPD filter	91 days	Mon 19/6/24	Mon 19/10/14	139,107	[Gantt Bar]																											
141	FS1 South Backfilling Stage 4 (~7.4m height, Section 12 up to +42.4mPD), (Filter blanket from 35mPD	83 days	Tue 19/10/15	Wed 20/1/22	140	[Gantt Bar]																											
142	FS1 South Backfilling Stage 5 (~7.6m height, Section 12 up to Proposed Platform, +50mPD), (Filter	83 days	Thu 20/1/23	Sat 20/5/9	141	[Gantt Bar]																											
143	Drainage and Maintenance Access	300 days	Tue 19/5/28	Wed 20/6/3	142FF+21 days	[Gantt Bar]																											
144	Geotechnical Instrumentation Works	220 days	Wed 19/8/14	Sat 20/5/16	138,142FF+6 d	[Gantt Bar]																											
145	Fill Slope FS1 North (Section 14 at Drawing C1/GE/1030)	503 days	Thu 18/10/11	Fri 20/7/3		[Summary Bar]																											
146	FS1 North Backfilling Stage 1 (~5m height, Section 14 up to ~+20 mPD),(Filter Blanket 15mPD to	92 days	Thu 18/10/11	Fri 19/2/1	43,51,121,128,1	[Gantt Bar]																											

ID	Task Name	Duration	Start	Finish	Predecessors
293	Final Results Submission and Verification of Design by Supervisor	42 days	Fri 18/8/3	Thu 18/9/13	292
294	Backfill to Proposed Ground Level (Max. 2.5m)	27 days	Wed 20/9/2	Mon 20/10/5	293,258SS,51
295	Drainage and Maintenance Access	54 days	Tue 20/10/6	Thu 20/12/10	294
296	Geotechnical Instrumentation Works	6 days	Tue 20/10/6	Mon 20/10/12	294FF+6 days
297	Landscape Works at Fill Slope FS17	111 days	Fri 20/12/11	Fri 21/4/30	
298	Planter E2 Construction	65 days	Fri 20/12/11	Wed 21/3/3	295
299	Shrub Planting at Planter E2	72 days	Fri 21/1/29	Fri 21/4/30	298FF+46 days
300	Hydroseeding	72 days	Fri 20/12/11	Thu 21/3/11	295
301	Tree Planting	83 days	Fri 20/12/11	Wed 21/3/24	295
302	Landscape Works at Cut Slopes CS16 and CS17	460 days	Tue 18/7/3	Thu 20/1/23	
303	Planter W2 Construction	196 days	Mon 18/12/24	Tue 19/8/27	288FF+30 days
304	Shrub Planting at Planter W2	196 days	Wed 19/5/29	Thu 20/1/23	303SS+120 day
305	Planter W1 Construction	68 days	Wed 19/8/28	Wed 19/11/20	303,288
306	Shrub Planting at Planter W2	68 days	Sat 19/10/19	Thu 20/1/9	305SS+40 days
307	Hydroseeding	360 days	Tue 18/7/3	Fri 19/9/20	288FF+50 days
308	Existing Slope Upgrading Works	172 days	Tue 19/11/12	Sat 20/6/13	
309	Existing Feature 3NW-C/F37 Upgrading Re-compaction	150 days	Tue 19/11/12	Tue 20/5/19	148
310	Existing Feature 3NW-C/C256 Rock Joint Mapping, drainage and maintenance access	70 days	Thu 19/12/5	Mon 20/3/2	255SS
311	Existing Feature 3NW-C/C258 Slope Upgrading Works	74 days	Thu 20/3/12	Sat 20/6/13	
312	Excavate to +48.5 mPD, Pull Out Test, Soil Nails (14 Nos. of Soil Nail)	21 days	Thu 20/3/12	Tue 20/4/7	255
313	Excavate to Proposed Ground Level, Pull Out Test, Soil Nails and Raking Drains (14 Nos. of Soil)	23 days	Wed 20/4/8	Sat 20/5/9	312
314	Drainage and Maintenance Access	67 days	Fri 20/3/20	Sat 20/6/13	313FF+30 days
315	Sha Ling Road (M001 CH +620 to +820), M011, M004 and PDA	310 days	Mon 20/5/11	Fri 21/5/28	
316	Sewerage and Drainage	105 days	Thu 20/6/18	Thu 20/10/22	
317	Drainage and Sewerage Works	105 days	Thu 20/6/18	Thu 20/10/22	150,142,204,21
318	Utilities and Watermains Works	128 days	Thu 20/6/18	Sat 20/11/21	
319	Watermains Works	55 days	Thu 20/6/18	Sat 20/8/22	150,142,204,21
320	HKT Cable Installation	73 days	Mon 20/8/24	Sat 20/11/21	142,150,204,21
321	Landscape Works	148 days	Mon 20/5/11	Fri 20/11/6	
322	Tree Planting	48 days	Mon 20/5/11	Tue 20/7/7	142
323	Irrigation System and Water Points	60 days	Mon 20/8/24	Fri 20/11/6	319
324	Roadworks	128 days	Fri 20/10/23	Wed 21/3/31	
325	Road Lighting Civil Works Provision	38 days	Fri 20/10/23	Wed 20/12/9	142,150,204,21
326	Backfill to Formation Level	30 days	Thu 20/12/10	Sat 21/1/16	317,320,323,32
327	Road Lighting E&M works, Testing and Commissioning (by others)	45 days	Mon 21/1/18	Sat 21/3/13	326
328	Carriageway, Pavement, Road Marking and Street Furniture	60 days	Mon 21/1/18	Wed 21/3/31	326
329	Road and Drainage Works after Completion of RW11	33 days	Mon 21/4/19	Fri 21/5/28	248SS
330	Sha Ling Road (M001 CH +480 to +620), M008 & Road B M005	233 days	Wed 20/9/2	Mon 21/6/21	
331	Sewerage and Drainage	63 days	Wed 20/9/2	Thu 20/11/19	
332	Drainage and Sewerage Works	63 days	Wed 20/9/2	Thu 20/11/19	218,288,203,22
333	Sewage Detention Tank	230 days	Wed 20/9/2	Thu 21/6/17	
334	Sewage Detention Tank Civil and Structural Works	90 days	Wed 20/9/2	Mon 20/12/21	218,287,288,20
335	VDS and AMS for Sewage Detention Tank	140 days	Tue 20/12/22	Thu 21/6/17	334,96
336	Utilities and Watermains Works	83 days	Fri 20/11/20	Wed 21/3/3	
337	Watermains Works	39 days	Fri 20/11/20	Thu 21/1/7	332
338	Town Gas Installation	20 days	Fri 21/1/8	Sat 21/1/30	337
339	HKT Cable Installation	24 days	Mon 21/2/1	Wed 21/3/3	338
340	Landscape Works	41 days	Fri 21/1/8	Sat 21/2/27	
341	Irrigation System and Water Points	41 days	Fri 21/1/8	Sat 21/2/27	337
342	Roadworks	131 days	Fri 21/1/8	Mon 21/6/21	
343	Road Lighting Civil Works Provision	30 days	Fri 21/1/8	Thu 21/2/11	99,332,337
344	Road Lighting E&M works, Testing and Commissioning (by others)	45 days	Tue 21/4/13	Sat 21/6/5	345
345	Backfilling to Formation Level	30 days	Thu 21/3/4	Mon 21/4/12	341,332,337,33
346	Carriageway, Pavement, Road Marking and Street Furniture	57 days	Tue 21/4/13	Mon 21/6/21	345
347	Sha Ling Road (M001 CH +340 to +480)	205 days	Wed 20/10/14	Mon 21/6/28	
348	Sewerage and Drainage	90 days	Wed 20/10/14	Tue 21/2/2	
349	Drainage and Sewerage Works	90 days	Wed 20/10/14	Tue 21/2/2	228,276,288,25
350	Utilities and Watermains Works	91 days	Wed 20/10/14	Wed 21/2/3	
351	Watermains Works	30 days	Wed 20/10/14	Fri 20/11/20	228,276,288,25
352	Town Gas Installation	47 days	Sat 20/11/21	Mon 21/1/18	351
353	HKT Cable Installation	14 days	Tue 21/1/19	Wed 21/2/3	352
354	Landscape Works	42 days	Sat 20/11/21	Tue 21/1/12	
355	Irrigation System and Water Points	42 days	Sat 20/11/21	Tue 21/1/12	351
356	Roadworks	115 days	Wed 21/2/3	Mon 21/6/28	
357	Road Lighting Civil Works Provision	38 days	Wed 21/2/3	Mon 21/3/22	99,349,351
358	Road Lighting E&M works, Testing and Commissioning (by others)	45 days	Mon 21/5/3	Fri 21/6/25	357,359
359	Backfilling to Formation Level	30 days	Tue 21/3/23	Fri 21/4/30	349,355,357,35
360	Carriageway, Pavement, Road Marking and Street Furniture	47 days	Mon 21/5/3	Mon 21/6/28	359
361	Sha Ling Road (M001 CH +180 to +340)	205 days	Wed 20/10/14	Mon 21/6/28	
362	Sewerage and Drainage	86 days	Wed 20/10/14	Thu 21/1/28	
363	Drainage and Sewerage Works	86 days	Wed 20/10/14	Thu 21/1/28	258,294,380,38
364	Utilities and Watermains Works	92 days	Wed 20/10/14	Thu 21/2/4	
365	Watermains Works and Water Meter Box	36 days	Wed 20/10/14	Fri 20/11/27	258,294,98,380

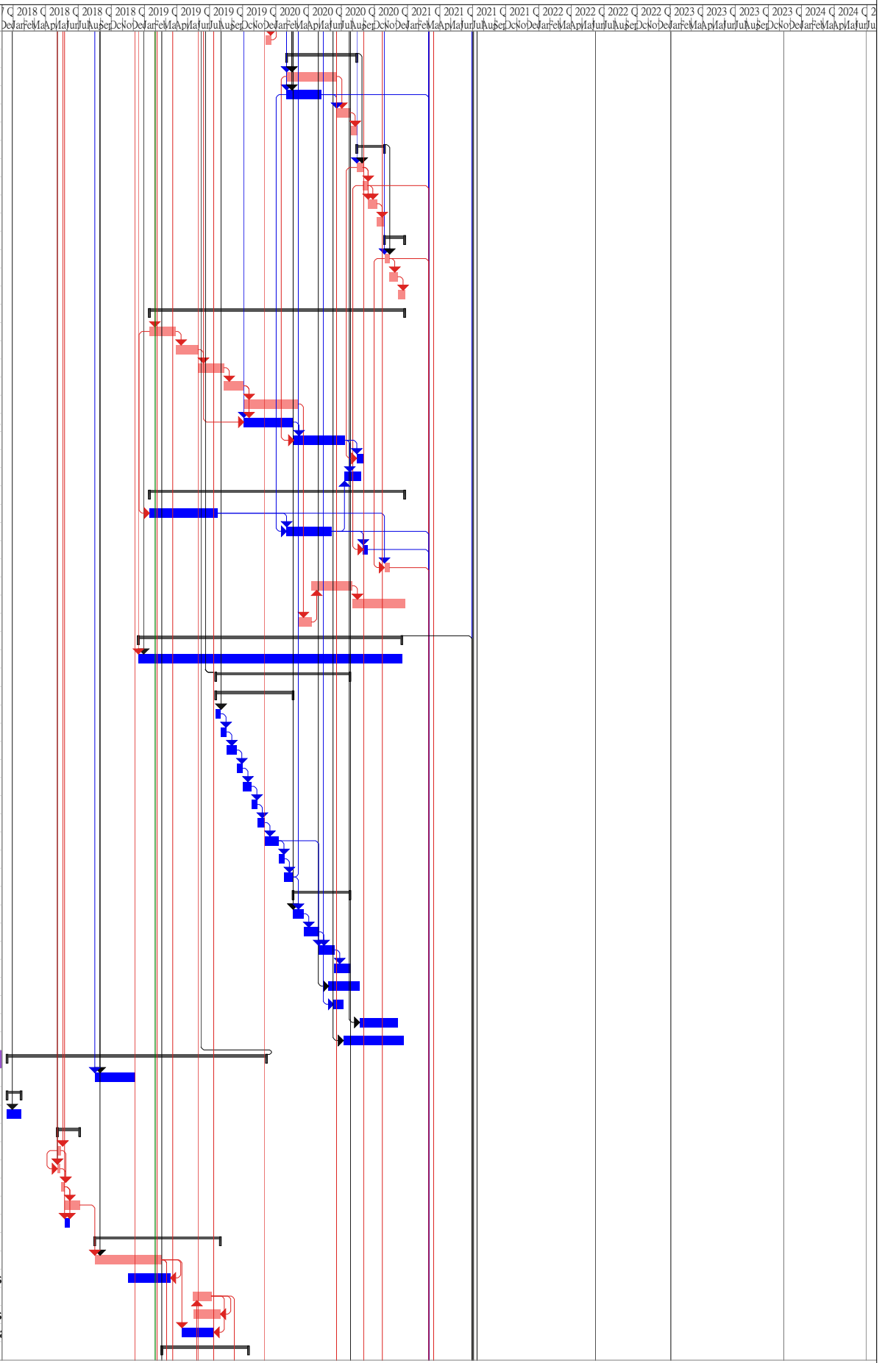


ID	Task Name	Duration	Start	Finish	Predecessors	
366	Town Gas Installation	40 days	Sat 20/11/28	Sat 21/1/16	365	
367	HKT Cable Installation	16 days	Mon 21/1/18	Thu 21/2/4	366	
368	Landscape Works	169 days	Sat 20/11/28	Mon 21/6/28		
369	Tree Planting	44 days	Thu 21/5/6	Mon 21/6/28	375FF+32 days	
370	Irrigation System and Water Points	60 days	Sat 20/11/28	Tue 21/2/9	365	
371	Roadworks	87 days	Fri 21/1/29	Thu 21/5/20		
372	Road Lighting Civil Works Provision	25 days	Fri 21/1/29	Tue 21/3/2	258,294,99,363	
373	Road Lighting E&M works, Testing and Commissioning (by others)	45 days	Wed 21/3/3	Wed 21/4/28	372,374SS	
374	Backfilling to Formation Level	30 days	Wed 21/3/3	Sat 21/4/10	363,365,366,36	
375	Carriageway, Pavement, Road Marking and Street Furniture	32 days	Mon 21/4/12	Thu 21/5/20	372,374	
376	Part B2	887 days	Fri 17/12/15	Wed 20/12/23		
377	Slope Works (CS14, FS14)	170 days	Thu 19/7/18	Thu 20/2/13		
378	Trial Pits Excavation and Preliminary Results Submission	25 days	Thu 19/7/18	Thu 19/8/15	51,19,20	
379	Final Results Submission and Verification of Design by Supervisor	42 days	Fri 19/8/16	Thu 19/9/26	378	
380	Excavation at CS14	21 days	Fri 19/9/27	Fri 19/10/25	379	
381	Backfilling at FS14 to proposed level	21 days	Fri 19/9/27	Fri 19/10/25	379	
382	Geotechnical Instrumentation Works at CS14	6 days	Sat 19/10/26	Fri 19/11/1	380	
383	Geotechnical Instrumentation Works at FS14	6 days	Sat 19/10/26	Fri 19/11/1	381	
384	Planter E2 Construction	59 days	Wed 19/9/18	Fri 19/11/29	380FF+30 days	
385	Shrubs Planting at E2	59 days	Sat 19/11/30	Thu 20/2/13	384	
386	Drainage and Maintenance Access	40 days	Tue 19/10/15	Fri 19/11/29	380FF+30 days	
387	Sha Ling Road (M001 CH +40 to +180)	602 days	Sat 18/12/1	Sat 20/12/19		
388	TTA and XP Application for Existing Sha Ling Road	180 days	Sat 18/12/1	Wed 19/7/17	19FF,20FF	
389	Noise Barrier	189 days	Tue 20/2/18	Wed 20/10/7		
390	Sub-structure of Noise Barrier Construction Bay 3 to Bay 8	69 days	Tue 20/2/18	Fri 20/5/15	381,388,485	
391	Backfilling to Road Formation Level at Noise Barrier Bay 3 to Bay 5	32 days	Fri 20/4/17	Tue 20/5/26	390SS+46 days	
392	Backfilling to Road Formation Level at Noise Barrier Bay 6 to Bay 8	32 days	Sat 20/5/16	Mon 20/6/22	390	
393	Superstructure of Noise Barrier Construction Bay 3 to Bay 8	120 days	Sat 20/5/16	Wed 20/10/7	390,86	
394	Sewerage and Drainage	72 days	Wed 20/5/27	Thu 20/8/20		
395	Drainage and Sewerage Works	72 days	Wed 20/5/27	Thu 20/8/20	392FF+36 days	
396	Utilities and Watermains Works	355 days	Thu 19/7/18	Sat 20/9/26		
397	CLP Structure Relocation (By Others)	180 days	Thu 19/7/18	Tue 20/2/25	474SS	
398	Existing HKT Pole Relocation (By Others)	180 days	Thu 19/7/18	Tue 20/2/25	474SS	
399	Watermains Works	21 days	Wed 20/6/10	Mon 20/7/6	392FF+10 days	
400	Town Gas Installation	29 days	Tue 20/7/7	Sat 20/8/8	399	
401	CLP Cable Installation	28 days	Mon 20/8/10	Thu 20/9/10	400,397	
402	HKT Cable Installation	14 days	Fri 20/9/11	Sat 20/9/26	398,401	
403	Roadworks	86 days	Fri 20/8/21	Fri 20/12/4		
404	Road Lighting Civil Works Provision	30 days	Fri 20/8/21	Thu 20/9/24	395	
405	Road Lighting E&M works, Testing and Commissioning (by others)	45 days	Fri 20/9/25	Sat 20/11/21	404	
406	Backfilling to Formation Level	30 days	Mon 20/9/28	Fri 20/11/6	404,395,397,39	
407	Carriageway, Pavement, Road Marking and Street Furniture	24 days	Sat 20/11/7	Fri 20/12/4	406	
408	Landscape Works	138 days	Tue 20/7/7	Sat 20/12/19		
409	Tree Planting	24 days	Thu 20/11/19	Wed 20/12/16	407FF+10 days	
410	Irrigation System and Water Points	36 days	Tue 20/7/7	Mon 20/8/17	399	
411	Planter Construction	16 days	Sat 20/11/7	Wed 20/11/25	406	
412	Shrubs Planting	21 days	Thu 20/11/26	Sat 20/12/19	411	
413	Man Kam To Road Bus Shelter	836 days	Fri 17/12/15	Wed 20/10/21		
414	Temporary Storage and Secondary Site Office	600 days	Fri 17/12/15	Fri 20/1/3	15	
415	Bus Shelter Drainage	56 days	Sat 20/1/4	Thu 20/3/12	414	
416	Road Lighting Civil Works Provision	25 days	Fri 20/3/13	Thu 20/4/16	415	
417	Road Lighting E&M works, Testing and Commissioning (by others)	45 days	Fri 20/4/17	Wed 20/6/10	416	
418	Backfilling to Formation Level	30 days	Fri 20/4/17	Sat 20/5/23	415,416,435	
419	Carriageway, Pavement, Road Marking and Street Furniture	65 days	Mon 20/5/25	Mon 20/8/10	418	
420	Tree Planting	75 days	Fri 20/7/24	Wed 20/10/21	419FF+60 days	
421	Sha Ling Road (M001 CH+0 to +40), Man Kam To Road Drainage, Sewerage, Watermains and Other	749 days	Fri 18/6/8	Wed 20/12/23		
422	TTA and XP Application at Man Kam To Road	270 days	Fri 18/6/8	Sat 19/5/11	35	
423	Works at Existing Sha Ling Road	298 days	Thu 19/12/19	Wed 20/12/23		
424	Sub-structure of Noise Barrier Construction Bay 1 to Bay 2	150 days	Thu 19/12/19	Fri 20/6/26	422,439	
425	Backfilling to Road Formation Level at Noise Barrier Bay 1 to Bay 2	45 days	Sat 20/6/27	Wed 20/8/19	86,424	
426	Superstructure of Noise Barrier Construction Bay 1 to Bay 2	40 days	Sat 20/6/27	Thu 20/8/13	424	
427	Drainage Works	15 days	Thu 20/8/20	Sat 20/9/5	425	
428	Town Gas Installation	17 days	Mon 20/9/7	Fri 20/9/25	427	
429	CLP Cable Installation	17 days	Sat 20/9/26	Sat 20/10/17	428	
430	HKT Cable Installation	10 days	Mon 20/10/19	Mon 20/11/2	429	
431	Backfill to Formation Level	30 days	Tue 20/11/3	Mon 20/12/7	427,428,429,43	
432	Carriageway, Pavement, Road Marking and Street Furniture	14 days	Tue 20/12/8	Wed 20/12/23	431	
433	TTA Stage 1 - Future Sha Ling Road Run-in	173 days	Sat 19/6/29	Thu 20/1/30		
434	Drainage and Sewerage Works	98 days	Sat 19/6/29	Mon 19/10/28	422,94	
435	Road Lighting Civil Works Provision	35 days	Sat 19/6/29	Fri 19/8/9	422,94	
436	Road Lighting E&M works, Testing and Commissioning (by others)	45 days	Tue 19/12/3	Thu 20/1/30	435,438	
437	Watermains Works	76 days	Sat 19/6/29	Fri 19/9/27	422,94	
438	Backfill to Formation Level	30 days	Tue 19/10/29	Mon 19/12/2	434,437,435	

Master Programme Rev.1b
Date: Jan 2019

Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

ID	Task Name	Duration	Start	Finish	Predecessors
439	Carraigeway, Pavement, Road Marking and Street Furniture	14 days	Tue 19/12/3	Wed 19/12/18	438
440	TTA Stage 2 - Man Kam To Road Eastbound Slow Lane	158 days	Fri 20/1/31	Wed 20/8/12	
441	Drainage and Sewerage Connections	112 days	Fri 20/1/31	Wed 20/6/17	422,433
442	Watermains Works	76 days	Fri 20/1/31	Wed 20/5/6	422,433
443	Backfill to Formation Level	30 days	Thu 20/6/18	Fri 20/7/24	441,442
444	Carraigeway Reinstatement, Road Marking and Preparation Works for Change of TTA	16 days	Sat 20/7/25	Wed 20/8/12	443
445	TTA Stage 3 - Man Kam To Road Eastbound Fast Lane	62 days	Thu 20/8/13	Wed 20/10/28	
446	Sewerage Works	15 days	Thu 20/8/13	Sat 20/8/29	422,440
447	Watermains Works	11 days	Mon 20/8/31	Fri 20/9/11	446
448	Backfill to Formation Level	20 days	Sat 20/9/12	Wed 20/10/7	446,447
449	Carraigeway Reinstatement, Road Marking and Preparation Works for Change of TTA	16 days	Thu 20/10/8	Wed 20/10/28	448
450	TTA Stage 4 - Man Kam To Road Westbound	47 days	Thu 20/10/29	Wed 20/12/23	
451	Watermains Works	11 days	Thu 20/10/29	Wed 20/11/11	422,445
452	Backfill to Formation Level	20 days	Thu 20/11/12	Fri 20/12/4	451
453	Carraigeway Reinstatement, Road Marking	16 days	Sat 20/12/5	Wed 20/12/23	452
454	Part C	570 days	Tue 19/1/15	Wed 20/12/23	
455	Installation of Temporary Works	60 days	Tue 19/1/15	Thu 19/3/28	90
456	Excavation to Formation Level and Blinding Layer	45 days	Fri 19/3/29	Wed 19/5/29	455
457	R.C. Structure Up to Ground Floor	60 days	Thu 19/5/30	Fri 19/8/9	456
458	R.C. Structure up to Roof	45 days	Sat 19/8/10	Thu 19/10/3	457
459	ABWF Works	120 days	Fri 19/10/4	Mon 20/3/2	458
460	Drainage and Sewerage Works and Connections TTA Stage 1	110 days	Fri 19/10/4	Wed 20/2/19	458,422,434SS
461	Drainage and Sewerage Works and Connections TTA Stage 2	112 days	Thu 20/2/20	Thu 20/7/9	460,441SS
462	Sewerage Works and Connections TTA Stage 3	15 days	Thu 20/8/13	Sat 20/8/29	461,446SS
463	Paving Works	40 days	Fri 20/7/10	Tue 20/8/25	461,466
464	E&M and Waterworks	570 days	Tue 19/1/15	Wed 20/12/23	
465	Water Meter Application	150 days	Tue 19/1/15	Tue 19/7/23	455SS
466	Watermain Works and Connection TTA Stage 2	100 days	Fri 20/1/31	Wed 20/6/3	442SS,465
467	Watermain Works and Connection TTA Stage 3	11 days	Mon 20/8/31	Fri 20/9/11	466,447SS
468	Watermain Works and Connection TTA Stage 4	11 days	Thu 20/10/29	Wed 20/11/11	451SS,465
469	CLP Meter Application	90 days	Thu 20/4/9	Thu 20/7/30	471
470	CLP Cabling Works	120 days	Fri 20/7/31	Wed 20/12/23	469
471	Electrial and Lighting Works	30 days	Tue 20/3/3	Wed 20/4/8	459
472	Part D	586 days	Sat 18/12/15	Tue 20/12/15	
473	Woodland Planting	586 days	Sat 18/12/15	Tue 20/12/15	17,57
474	Parts G1 and G2	300 days	Thu 19/7/18	Fri 20/7/24	
475	Land Decontamination Works	173 days	Thu 19/7/18	Mon 20/2/17	
476	Re-appraisal and Contamination Assessment Plan (CAP) Submission to EPD	12 days	Thu 19/7/18	Wed 19/7/31	19,20
477	EPD Review and Acceptance for CAP	14 days	Thu 19/8/1	Fri 19/8/16	476
478	Environmental SI for Determination of Decontamination and SI Testing	24 days	Sat 19/8/17	Fri 19/9/13	477
479	Contamination Assessment Report (CAR) Submission to EPD	13 days	Mon 19/9/16	Mon 19/9/30	478
480	EPD Review and Acceptance for CAR	18 days	Wed 19/10/2	Fri 19/10/25	479
481	Remedial Action Plan (RAP) Submission to EPD	13 days	Sat 19/10/26	Sat 19/11/9	480
482	EPD Review and Acceptance for RAP	18 days	Mon 19/11/11	Sat 19/11/30	481
483	Land Decontamination Works	30 days	Mon 19/12/2	Wed 20/1/8	482
484	Remediation Report (RR) Submission to EPD	13 days	Thu 20/1/9	Thu 20/1/23	483
485	EPD Review and Acceptance for RR	18 days	Fri 20/1/24	Mon 20/2/17	484
486	Fill Slope FS13	127 days	Tue 20/2/18	Fri 20/7/24	
487	Trial Pits Excavation and Preliminary Results Submission	25 days	Tue 20/2/18	Tue 20/3/17	51,19,20,485
488	Final Results Submission and Verification of Design by Supervisor	42 days	Wed 20/3/18	Tue 20/4/28	487
489	Backfill to Proposed Ground Level (Max. 2.5m)	36 days	Wed 20/4/29	Thu 20/6/11	483,488
490	Drainage and Maintenance Access	35 days	Fri 20/6/12	Fri 20/7/24	489
491	Sewerage and Drainage	72 days	Wed 20/5/27	Thu 20/8/20	394SS
492	Utilities and Watermains Works	21 days	Wed 20/6/10	Mon 20/7/6	399SS
493	Roadworks	86 days	Fri 20/8/21	Fri 20/12/4	403SS
494	Landscape Works	138 days	Tue 20/7/7	Sat 20/12/19	408SS
495	Section 3 of the Works (Part E)	721 days	Fri 17/12/15	Thu 19/12/5	
496	Temporary Drainage Works	90 days	Thu 18/8/16	Tue 18/12/4	84,51
497	Utilities Diversion/Protection Works	30 days	Fri 17/12/15	Mon 18/1/22	
498	Enquiries of As-built Record from UU Companies	30 days	Fri 17/12/15	Mon 18/1/22	2
499	Ground Investigation and Geotechnical Instrumentation for Commencement of Slopework	50 days	Fri 18/5/4	Wed 18/7/4	
500	Site Clearance for Verification Drillholes (2 Nos., VDH4-5)	8 days	Fri 18/5/4	Sat 18/5/12	53,59
501	Mobilization of GI Rig and Preparation of Works	7 days	Fri 18/5/4	Fri 18/5/11	31,500SS,18
502	Verification Drillholes (2 Nos., VDH4-5) and Preliminary Results Submission	8 days	Mon 18/5/14	Wed 18/5/23	500,501
503	Formal Report Submission and Verification of the Design of Cut and Fill Slope by PM	42 days	Thu 18/5/24	Wed 18/7/4	502
504	Geotechnical Instrumentation Required for Commencement of Slope Works	12 days	Thu 18/5/24	Wed 18/6/6	32,502
505	Fill Slope FS3	278 days	Thu 18/8/16	Tue 19/7/30	
506	Backfilling Stage 1 (~11m, up to +27 mPD at Section 17) + Filter Blanket from +16mPD to 27mPD	148 days	Thu 18/8/16	Sat 19/2/16	503,51
507	Drainage, Maintenance Access after Backfilling Stage 1	94 days	Sat 18/11/17	Wed 19/3/13	506FF+21 days
508	Backfilling Stage 2 (~4m, up to Proposed Ground)+ filter blanket 1.6m depth	44 days	Tue 19/5/14	Fri 19/7/5	514
509	Drainage, Maintenance Access after Backfilling Stage 2	62 days	Fri 19/5/17	Tue 19/7/30	508FF+21 days
510	Geotechnical Instrumentation Works	70 days	Mon 19/4/15	Fri 19/7/12	506,508FF+6 d
511	Retaining Wall RW4	192 days	Mon 19/2/18	Wed 19/10/16	

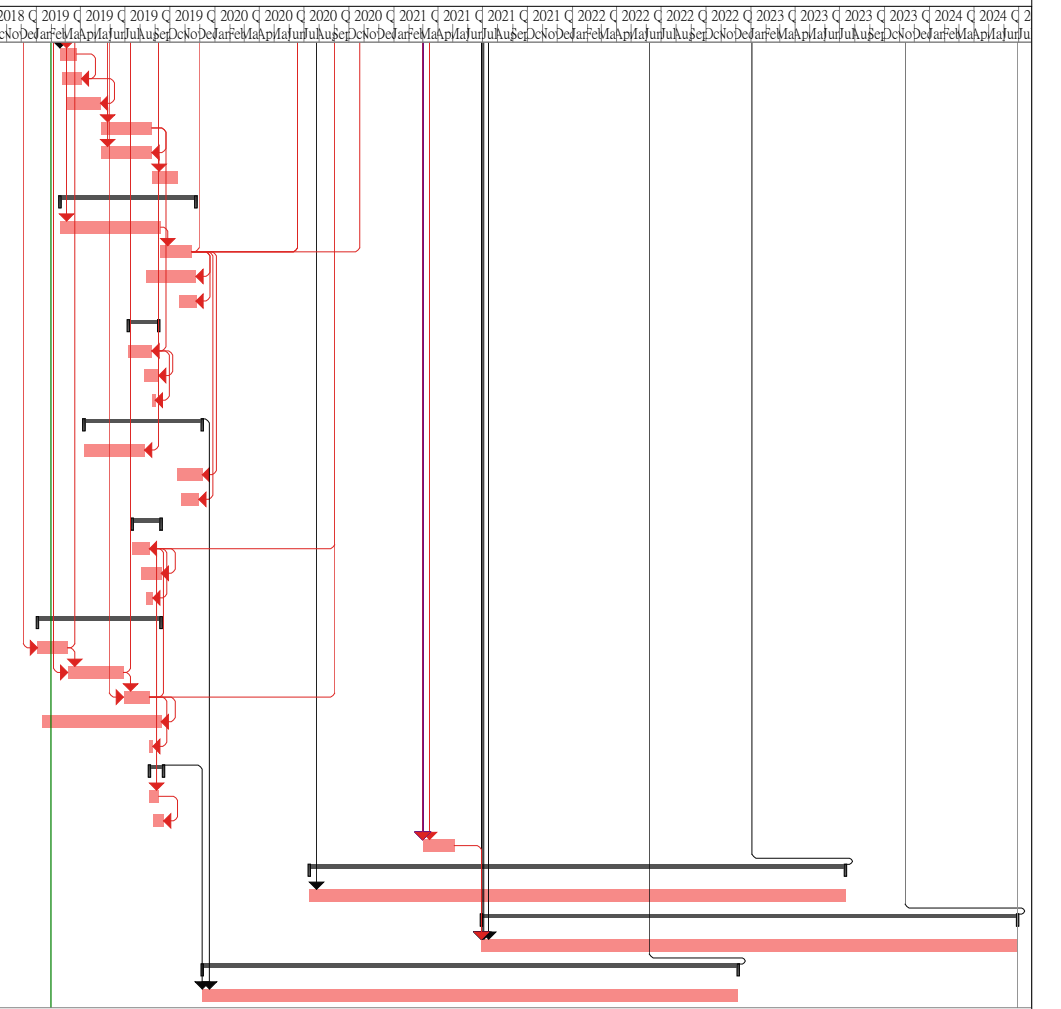


Master Programme Rev.1b

Date: Jan 2019

Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

ID	Task Name	Duration	Start	Finish	Predecessors	2018	2019	2020	2021	2022	2023	2024
512	Backfilling to Formation Level, Plate Load Test, Blinding Layer	30 days	Mon 19/2/18	Sat 19/3/23	51,506							
513	Base Slab of Retaining Wall RW4 Bay 1-8	32 days	Sat 19/2/23	Tue 19/4/2	512FF+7 days							
514	Wall Stem of Retaining Wall RW4 Bay 1-8	52 days	Tue 19/3/5	Sat 19/5/11	513FF+28 days							
515	Backfilling behind RW4 (~8m up to +36 mPD)	87 days	Tue 19/5/14	Sat 19/8/24	514							
516	Filter Layer behind RW4	87 days	Tue 19/5/14	Sat 19/8/24	514,515FF							
517	Drainage and Maintenance Access	40 days	Mon 19/8/26	Wed 19/10/16	516							
518	Fill Slope FS2	224 days	Mon 19/2/18	Fri 19/11/22								
519	Backfilling Stage 1 (~16m, up to Maintenance Berm +43 mPD) + filter Blanket from +27mPD to 35mPD on	167 days	Mon 19/2/18	Wed 19/9/11	506							
520	Backfilling Stage 2 (~4m, up to Proposed Ground) + 2.5m depth filter blanket 3m below berm surface	50 days	Thu 19/9/12	Thu 19/11/14	519							
521	Drainage, Sewerage and Maintenance Access	82 days	Wed 19/8/14	Fri 19/11/22	520FF+7 days							
522	Geotechnical Instrumentation Works	30 days	Sat 19/10/19	Fri 19/11/22	520FF+7 days							
523	Fill Slope FS4	54 days	Mon 19/7/8	Sat 19/9/7								
524	Backfilling (~3.5m up to Proposed Ground)	42 days	Mon 19/7/8	Sat 19/8/24	515FF							
525	Drainage, Maintenance Access after Backfilling	25 days	Sat 19/8/10	Sat 19/9/7	524FF+12 days							
526	Geotechnical Instrumentation Works	6 days	Mon 19/8/26	Sat 19/8/31	524FF+6 days							
527	Landscape Works at Fill Slopes FS2, FS3 and FS4	196 days	Mon 19/4/8	Thu 19/12/5								
528	Whips and shrubs planting at FS3	100 days	Mon 19/4/8	Fri 19/8/9	508FF+30 days							
529	Whips and shrubs planting FS2	45 days	Tue 19/10/15	Thu 19/12/5	520FF+18 days							
530	Hydroseeding	30 days	Fri 19/10/25	Thu 19/11/28	520FF+12 days							
531	Cut Slope CS18	51 days	Tue 19/7/16	Thu 19/9/12								
532	Excavate to proposed roadwork level and raking drains (11 Nos. of Raking Drain)	30 days	Tue 19/7/16	Mon 19/8/19	538FF							
533	Drainage and Maintenance Access	35 days	Sat 19/8/3	Thu 19/9/12	532FF+21 days							
534	Geotechnical Instrumentation Works	12 days	Tue 19/8/13	Mon 19/8/26	532FF+6 days							
535	Cut Slope CS19	204 days	Thu 19/1/3	Thu 19/9/12								
536	Excavate to +54.5 mPD	50 days	Thu 19/1/3	Tue 19/3/5	285SS							
537	Excavate to +47mPD, Soil Nails and Raking Drains (17 nos. of Soil Nail, 13 Nos. of Raking Drain)	89 days	Wed 19/3/6	Thu 19/6/27	536,286SS							
538	Excavate to +41mPD, Soil Nails, Raking Drains and Excavate to Toe Level (4 Nos. of Soil Nail, 7 Nos. of	44 days	Fri 19/6/28	Mon 19/8/19	537,287SS							
539	Drainage and Maintenance Access	196 days	Sat 19/1/12	Thu 19/9/12	538FF+21 days							
540	Geotechnical Instrumentation Works	6 days	Tue 19/8/20	Mon 19/8/26	538FF+6 days							
541	Landscape Works at Cut Slopes C18, CS19	24 days	Tue 19/8/20	Tue 19/9/17								
542	Planter W2 Construction	17 days	Tue 19/8/20	Sat 19/9/7	532							
543	Shrubs Planting at Planter W2	18 days	Tue 19/8/27	Tue 19/9/17	542FF+7 days							
544	Water Connections for Watermains (by Interfacing Contract)	50 days	Mon 21/3/1	Mon 21/5/3	155,177,319,32							
545	Section 4 of the Works	1096 days	Sun 20/7/12	Wed 23/7/12								
546	Establishment Works of Parts A1, A2 & A3	1096 days	Sun 20/7/12	Wed 23/7/12	170							
547	Section 5 of the Works	1096 days	Tue 21/6/29	Fri 24/6/28								
548	Establishment Works of Parts B1, B2, C, D, F, G1 & G2	1096 days	Tue 21/6/29	Fri 24/6/28	206,233,262,27							
549	Section 6 of the Works	1096 days	Fri 19/12/6	Mon 22/12/5								
550	Establishment Works of Part E	1096 days	Fri 19/12/6	Mon 22/12/5	527,541							



Master Programme Rev.1b Date: Jan 2019	Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
	Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
	Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

Appendix L

Environmental Site Inspection Checklist

Environmental Team –Site Inspection and Environmental Audit Checklist

Project:	Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery	Checklist No: CE-32/2010-(CE)-_____
Contract No.:	CEDD Contract No. CV/2016/10	Inspected by:
Environmental Permit No.:	FEP-01/534/2017	IEC _____
Date:		RE CEDD _____
Time:		ET AUES _____
		EO/Contractor Hsin Chong Tsun Yip JV _____

PART A: GENERAL INFORMATION

<u>Weather:</u>	Sunny <input type="checkbox"/>	Fine <input type="checkbox"/>	Cloudy <input type="checkbox"/>	Rainy <input type="checkbox"/>	Temperature: _____ °C
<u>Humidity:</u>	High <input type="checkbox"/>	Moderate <input type="checkbox"/>	Low <input type="checkbox"/>		
<u>Wind:</u>	Strong <input type="checkbox"/>	Breeze <input type="checkbox"/>	Light <input type="checkbox"/>	Calm <input type="checkbox"/>	

PART B: SITE AUDIT

Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/Remarks
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Section 1: Water Quality

1.01	Is effluent discharge licence for the Contract obtained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.02	Is the discharge of turbid water avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.03	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.04	Are there channels, earth bunds or sand bag barriers provided to direct surface run-off to silt removal facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.05	Are there any perimeter cut-off drains provided at site boundaries to intercept storm runoff from crossing the site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.06	Is drainage system well maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.07	Are dikes or embankments for flood protection implemented around the boundaries of earthwork areas; Are temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.08	Are earthworks final surfaces or exposed slope surface well compacted or protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.09	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.10	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.11	Are there any wheel washing facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.12	Are there wheel washing facilities well maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.13	Is runoff from wheel washing facilities avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.14	Are there toilets provided on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15	Are toilets properly maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.16	Are there any vehicles and plant within the site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.17	Is the oil leakage or spillage from vehicle or plant avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.18	Are fuel tanks and storage areas provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.19	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.21	Are mobile toilets provided on site and located away from the stream course?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.22	Is licensed collector employed for handling the waste generated from mobile toilet?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.23	Are construction solid waste, debris and rubbish on site collected, handled and disposed of properly to avoid water quality impacts?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.24	Are notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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<u>Barging point at Siu Lam</u>							
1.25	Are all barges fitted with tight bottom seals to prevent leakage of materials during transport?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.26	Are barges or hoppers not be filled to a level that will cause overflow of materials or polluted water during loading or transportation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.27	Are all vessels sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.28	Is loading of barges and hoppers controlled to prevent splashing of material into the surrounding water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>Section 2: Air Quality</u>							
2.01	Are active works area provided with dust suspension measures, such as waster spraying?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.02	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.03	Is excavated or stockpile of dusty material covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.04	Are dusty materials remaining after a stockpile removed maintained in wet with water and cleared from the surface of roads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.05	Is stockpile of dusty material not be extended beyond the pedestrian barriers, fencing or traffic cones?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.06	Are the load of dusty materials on a vehicle leaving a construction site covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.07	Are vehicle wheel washing facilities provided at each construction site exit and every vehicle washed to remove any dusty materials from its body and wheels immediately before leaving the construction site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.08	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.09	Is the portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit kept clear of dusty materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10	Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place sprayed with water or a dust suppression chemical continuously?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11	Is any area that involves demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Is any skip hoist for material transport totally enclosed by impervious sheeting?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.13	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14	Is every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.15	Is exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.16	Are site vehicles travelling within the speed limit not more than 10km/hour?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.17	Is dark smoke emission from plant/equipment avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.18	Is open burning avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.19	All non-road mobile machinery (NRMM) using on site are granted and displayed with the approval/ exemption labels under the regulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>Barging point at Siu Lam</u>							
2.20	Is road surface within the barging facilities paved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.21	Are dust enclosures provided for the loading ramp, installation of 3-sided screen with top cover and the provision of water sprays at the discharge point provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.22	Are vehicles required to pass through designated wheel wash facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.23	Is continuous water spray provided at the loading point?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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Section 3: Noise

3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.02	Is silenced equipment adopted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.03	Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.04	Are all plant and equipment well maintained and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.09	Are Construction Noise Permit(s) applied for percussive piling works or construction activities out of restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Section 4: Waste/Chemical Management

4.01	Is Waste Management Plan submitted to Engineer for approval?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.03	Is general refuse sorting or recycling implemented?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.08	Is the chemical waste storage area properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.10	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.11	Are the chemical wastes disposed of by licensed collectors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.13	Are chemical/fuel storage areas bunded?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.15	Are construction wastes sorted (inert and non-inert) on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.16	Are construction wastes reused?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.17	Is construction waste disposed of properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.20	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Section 5: Landscape & Visual

5.01	Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02	Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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5.03	Are surgery works carried out for the damaged trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04	Is damage to trees outside site boundary due to construction activities avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 6: Others							
6.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.02	Is stagnant water accumulated in works area avoided to prevent mosquito breeding?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Follow-up of last site inspection (Dated: _____)

Observation

General Reminder/ Advice

*IEC's
representative*

*RE's
representative*

*ET's
representative*

*Contractor's
representative*

Name:

Name:

Name:

Name:

Date:

Date:

Date:

Date: