#### **Civil Engineering and Development Department**

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

### Monthly Environmental Monitoring and Audit Report for March 2020

(Version 1.0)

Certified By	Dr. Priscilla Choy
	(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

WELLAB accepts no responsibility for changes made to this report by third parties.

#### WELLAB LIMITED

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Civil Engineering and Development Department North Development Office Unit 1501, Level 15, Tower I, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T.

#### Attention: Mr. Ryan Chau

Your Reference

#### Agreement No. CE 33/2019 (EP) Independent Environmental Checker for Environmental Monitoring and Audit Works in

North New Development Areas – Investigation

Our Reference EC/TC/II/414202/L0004

3/F International Trade Tower 348 Kwun Tong Road Kowloon Hong Kong

T +852 2828 5757 F +852 2827 1823 mottmac.hk Monthly Environmental Monitoring and Audit Report No. 5 (March 2020)

9 April 2020 BY EMAIL & POST

Dear Sir,

We refer to email of 8 April 2020 attaching the Monthly Environmental Monitoring and Audit Report No. 5 prepared by the Environmental Team (ET) of the captioned.

Construction Phase for the First Phase Development of Kwu Tung North and Fanling

We would like to inform you that we have no adverse comment on the captioned submission. Therefore we write to verify the captioned submission in accordance with the Condition 3.4 of the Environmental Permit no. EP-466/2013, EP-467/2013/A, EP-468/2013/A, EP-469/2013, EP-470/2013, EP-473/2013/A, EP-475/2013/A and EP-546/2017.

Should you have any queries, please contact the undersigned or our Ms. Liz Lo at 2828 5751.

Yours faithfully, For and on behalf of the Mott MacDonald Hong Kong Limited

Ir Thomas Chan Independent Environmental Checker T +852 2828 5967 Thomas.Chan@mottmac.com

c.c. AECOM Wellab Ltd.

Mr. Chris Ho Dr. Priscilla Choy/ Ms. Ivy Tam chris.ho@aecom.com priscilla.choy@wellab.com.hk ivy.tam@wellab.com.hk

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### **EXECUTIVE SUMMARY**

### Introduction

- 1. This is the 5<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) Report under First Phase Development of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs), comprising the Advance Works and First Stage Works (the Project). This report was prepared by Wellab Limited under "Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of KTN and FLN NDAs" (hereinafter called the "Service Contract"). This report documents the findings of Environmental Monitoring and Audit (EM&A) work conducted in March 2020.
- 2. During the reporting month, the following Works Contracts were undertaken for the Project:
  - Contract No. ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation
     and Infrastructure Works
  - Contract No. ND/2019/06 Fanling North New Development Area, Phase 1: Re-provisioning of North District Temporary Wholesale Market for Agricultural Products

### **Environmental Monitoring and Audit Progress**

3. A summary of the monitoring activities in this reporting month is listed in **Table I** below:

#### Table I Summary Table for Monitoring Activities in the Reporting Month

Monitoring Activities	Date(s)		
Noise Monitoring	ND/2019/01           23 <sup>rd</sup> , 30 <sup>th</sup> March 2020           ND/2019/06           3 <sup>rd</sup> , 10 <sup>th</sup> , 16 <sup>th</sup> , 23 <sup>rd</sup> , 30 <sup>th</sup> March 2020		
Environmental Site Inspection	<u>ND/2019/01</u> 25 <sup>th</sup> March 2020 <u>ND/2019/06</u> 5 <sup>th</sup> , 11 <sup>th</sup> , 19 <sup>th</sup> , 26 <sup>th</sup> March 2020		

#### **Breaches of Action and Limit Levels**

4. Summary of the environmental exceedances of the reporting month is tabulated in Table II.

Environmental Monitoring	Parameter			Total No. of non-project related	No. of Exceedance related to the Construction Works of the Contract		Total No. of Exceedance related to the Construction	
				Exceedances	Action Level	Limit Level	Works of the Contract	
Noise	L <sub>eq(30min)</sub>	0	0	0	0	0	0	

#### Table II Summary Table for Events Recorded in the Reporting Month

### **Construction Noise**

5. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

### **Complaint Log**

6. No environmental complaint was received in the reporting month.

### Notification of Summons and Successful Prosecutions

7. No notification of summons or successful prosecutions was received in the reporting month.

### **Reporting Changes**

8. This report has been prepared in compliance with the reporting requirements for the subsequent monthly EM&A Report as required by the "Updated Environmental Monitoring and Audit Manual for Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas" (Updated EM&A Manual).

### Future Key Issues

9. The major site activities for the coming two months are shown in Table III.

Contract No.	Contract Title		Site Activities (April and May 2020)	
Contract No. ND/2019/01	D/2019/01 New Development Area, Phase 1: Site		Tree Survey, Site Clearance, Ground Investigation, Preparation Works and construction for Interim CLC in Portion 1f;	
	Formation and Infrastructure Works		(b)	Tree Survey, Application of Excavation Permit (XP), Preparation of TTA Drawings for Approval, Ground Investigation in Portion 2;
		(c)	Tree Survey, Site Clearance in Portion 3;	
		(d)	Tree Survey, Site Clearance in Portion 4;	
		(e)	Site Clearance, GI Works in Portion 5;	
		(f)	Tree Survey, Site Clearance, Demolish Abandoned Structures of Community Sports, Ground Investigation in Portion 6a;	
		(g)	Tree Survey, Site Clearance, Ground Investigation, Set up of Soil Treatment Plant in Portion 6b;	
		(h)	Tree Survey, Site Clearance, Ground Investigation in Portion 7;	
			Tree Survey, Site Clearance, Forming Access, GI Works and General Excavation in Portion 8a;	
		(j)	Tree Survey, Site Clearance in Portion 8b; and	
		(k)	Container Office in additional land next to Portion 1f.	
Contract No.	Fanling North New	(a)	Breaking up the remaining concrete surface and disposal	
ND/2019/06	Development Area,	<i>(a)</i>	of C&D material off site at Portion 1;	
	Phase 1: Re- provisioning of	(b)	Installation of road kerbs for interim stage;	
	North District Temporary Wholesale Market for Agricultural	(c)	Drainage works for interim stage including construction of U-channel and manhole for interim stage;	
		(d)	Construction of road surface for interim stage; and	
	Products	(e)	Construction of footing of lighting for interim stage; and	
		(f)	Construction of run-in/out.	
L				

#### **1 INTRODUCTION**

1.1 Wellab Limited was commissioned by Civil Engineering and Development Department (CEDD) as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) services for the Works Contracts involved in the implementation of First Phase Development of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs) Project to ensure that the environmental performance of the Works Contracts comply with the requirements specified in the Environmental Permits (EPs), Environmental Monitoring & Audit (EM&A) Manual, Environmental Impact Assessment (EIA) Report of the KTN FLN NDAs project and other relevant statutory requirements.

#### **Purpose of the report**

1.2 This is the 5<sup>th</sup> EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in March 2020.

#### Structure of the report

1.3 The structure of the report is as follows:

Section 1: Introduction - purpose and structure of the report.

Section 2: **Project Information** - summarises background and scope of the Project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting month.

Section 3: **Noise Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 4: **Environmental Site Inspection -** summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 5: Environmental Non-conformance - summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.

Section 6: **Future Key Issues -** summarises the impact forecast and monitoring schedule for the next three months.

Section 7: Conclusions and Recommendations

### **2 PROJECT INFORMATION**

### Background

- 2.1 The Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs) are one of the important sources of land and housing supply in the medium and long term. The development of the KTN and FLN NDAs will be implemented in phase for full completion by 2031. The Phase 1 of the NDAs development, comprising the Advance Works and First Stage Works, is targeted to be implemented from the second half of 2019 progressively. The Advance and First Stage Works would include site formation, engineering infrastructure works (including roads, drainage, sewerage, waterworks, landscaping works, pumping stations, and fresh water and flushing water service reservoirs), soil remediation, reprovisioning of North District Temporary Wholesale Market, development of a nature park at Long Valley and implementation of environmental mitigation measures.
- 2.2 The scope of works under the Advance and First Stage Works comprises the following:
  - a) The Advance Works (PWP item No. 7747CL-2) consist of:
    - i) site formation of land (including soil remediation) in KTN and FLN NDAs for housing, community facilities and engineering infrastructure;
    - ii) construction of roads including the eastern section of Fanling Bypass (FLBP(E)) connecting the FLN NDA to Fanling Highway and other roads with footpaths and cycle tracks, and associated junction/ road improvements;
    - iii) engineering infrastructure works including drainage. Sewerage (including two sewage pumping stations), waterworks (including a fresh water service reservoir and a flushing water service reservoir in the KTN NDA), landscape works and slopeworks;
    - iv) part expansion and upgrading of Shek Wu Hui Sewage Treatment Works (SWHSTW);
    - v) reprovisioning works; and
    - vi) implementation of environmental mitigation measures and environmental monitoring and audit (EM&A) programme for the works mentioned in (i) to (v) above.
  - b) The First Stage Works (PWP item No. 7759CL) consist of:
    - i) development of a nature park at Long Valley including provision of a visitor centre and a footbridge spanning across Sheung Yue River for connection between these two facilities;
    - ii) reprovisioning of two egretry sites in the FLN NDA and enhancement works to an existing egretry site in the KTN NDA;
    - iii) site formation of land for a village resite area and a district police station in the KTN NDA;
    - iv) engineering infrastructure works including roads, drainage, sewerage, waterbirds, and landscape works; and
    - v) implementation of environmental mitigation measures and environmental monitoring and audit (EM&A) programme for the works mentioned in (i) to (iv) above.

- 2.3 The Project which covers KTN and FLN NDAs is a designated project (DP) under Schedule 3 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499). In October 2013, the EIA Report (AEIAR-175/2013) for the Project was approved by the Director of Environmental Protection pursuant to the EIA Ordinance. The First Phase Development of the Project is governed by Environmental Permits (EPs) (EP-466/2013, EP-467/2013/A, EP-468/2013/A, EP-469/2013, EP-470/2013, EP-473/2013/A, EP-475/2013/A and EP-546/2017) under seven Contracts (Works Contracts No.: ND/2019/01, ND/2019/02, ND/2019/03, ND/2019/04, ND/2019/05, ND/2019/06 and ND/2019/07).
- 2.4 During the reporting month, the Works Contracts undertaken for First Phase Development of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs) (the Project) are shown in **Table 2.1**.

Environmental Permit	Contract No. & Title	Commencement Date of Construction (EP Condition 1.12)
EP-470/2013	Contract No. ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works	23 <sup>rd</sup> March 2020
EP-475/2013/A	Contract No. ND/2019/06 Fanling North New Development Area, Phase 1: Re-provisioning of North District Temporary Wholesale Market for Agricultural Products	29 <sup>th</sup> October 2019

 Table 2.1
 Work Contracts undertaken in the Reporting Month

- 2.5 The site layout plans for the Contract No. ND/2019/01 are shown in **Drawing no.** 60335576/C1/C00/1031A-1051D.
- 2.6 The site layout plan for the Contract No. ND/2019/06 is shown in **Drawing no.** 60335576/C6/C00/1041.

### **Project Organization**

- 2.7 Different parties with different levels of involvement in the Project organization include:
  - Project Proponent Civil Engineering and Development Department (CEDD)
  - Supervisor / Supervisor's Representative AECOM
  - Environmental Team (ET) Wellab Limited
  - Independent Environmental Checker (IEC) Mott MacDonald Hong Kong Ltd (MottMac)
- 2.8 The key personnel contact names and numbers are summarised in **Table 2.2**.

Table 2.2       Key Contacts of the Project							
Party	Role	<b>Contact Person</b>	Phone No.	Fax No.			
Civil Engineering and Development Department, HKSAR (CEDD)	Project Proponent	Mr. Stephen Leung	3152 3551	3547 1658			
Supervisor / Supervisor's Representative (AECOM)	Chief Resident Engineer	Mr. Alan Lee	6398 5982	2645 3900			
Environmental Team (Wellab Limited)	Environmental Team Leader	Dr. Priscilla Choy	2898 7388	2898 7076			
Independent Environmental Checker (MottMac)	Independent Environmental Checker	Mr. Thomas Chan	2828 5967	2827 1823			
Contract No. ND/2019/01 Contractor (Build King –	Site Agent	Mr. Ivan Leung	9640 8340				
Richwell Engineering Joint Venture.)	Environmental Officer	Mr. Daniel Sin	9777 2100				
	Site Agent	Mr. Anson Chan	9349 1320				
Contract No. ND/2019/06 Contractor (New Concepts Engineering Development	Environmental Officer	Mr. Alex Choy	9409 9608	2363 2162			
Ltd.)	Environmental Coordinator	Ms. Mildred Hung	9460 2745				

### Summary of Construction Works Undertaken During Reporting Month

2.9 The major site activities undertaken in the reporting month are shown in **Table 2.3**.

#### Table 2.3 Summary Table for Major Site Activities in the Reporting Month

Contract No.	<b>Contract</b> Title		Site Activities (March 2020)
Contract No. ND/2019/01			Tree survey and prepare tree felling and transplant report in Portion 10a in Area H, H1, H2;
	Development Area, Phase 1: Site Formation and Infrastructure	(b)	Tree survey and prepare tree felling and transplant report, Site Clearance, GI works in Portion 5 in Area C1;
	Works		Tree survey and prepare tree felling and transplant report, Site Clearance in Portion 4 in Area 1;
		(d) Site Clearance in Portion 4 in Area K;	
		(e)	Site Clearance in Portion 6a in Area A;
		(f)	Liaison with HKPF and submit proposal of protective measures for works near Lo Wu Firing Range in Portion 9b & 9d in Area A;

	Monthly EM&A Report – March 20					
Contract No.	Contract Title	Site Activities (March 2020)				
		(g)	Form site access to Flushing Water Service Reservoir in Portion 8a in Area A;			
			Tree Survey and prepare tree felling and transplant report, Site Clearance, Ground Investigation and laboratory test in Portion 6b in Area B;			
		(i)	Tree Survey and Site Clearance for existing slope feature in Portion 2 in Area N;			
		(j)	Site Clearance in Portion 6a in Area N;			
		(k)	Tree Survey and prepare tree felling and transplant report in Portion 6a in Area S2;			
		(1)	Tree Survey and prepare tree felling and transplant report in Portion 6b in Area S2;			
			Tree Survey and prepare tree felling and transplant report, Site Clearance, Ground Investigation and laboratory test in Portion 1f in Area R; and			
		(n)	Preservation and protection of tree in Portion 9c in Area S1.			
Contract No. ND/2019/06	Fanling North New	(a)	Breaking up the concrete surface and disposal of C&D material off site at Portion 1;			
	Development Area, Phase 1:	(b)	Installation of road kerbs for interim stage;			
Re-provisioning of North District Temporary Wholesale Market for Agricultural	(c)	Drainage works for interim stage including construction of U-channel and manhole for interim stage;				
		(d)	Construction of footing of lighting for interim stage;			
	Products	(e)	Ground investigation works at Trial Pit; and			
		(f)	Pavement construction for the interim stage (50% completed for 75mm thickness pavement, 60% completed for 175mm thickness pavement).			

### **Construction Programme**

2.10 A copy of Contractors' construction programme is provided in Appendix A.

### Status of Environmental Licences, Notifications and Permits

2.11 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.4**.

### Table 2.4 Status of Environmental Licenses, Notifications and Permits

Contract No.	Permit / License No.	Valid	Period	Status						
Contract No.	Permit / License No.	From	То	Status						
Environmenta	Environmental Permit (EP)									
ND/2019/01	EP-470/2013	21/11/2013	N/A	Valid						
ND/2019/06	EP-475/2013/A	13/01/2017	N/A	Valid						
<b>Construction</b>	Noise Permit (CNP)									
ND/2019/06	GW-RN0113-20	25/02/2020	24/08/2020	Valid						
Notification p	ursuant to Air Pollution	n Control (Consti	ruction Dust) Regulat	tion						
ND/2019/01	451792	11/12/2019	N/A	Valid						
ND/2019/06	449369	24/09/2019	N/A	Valid						
<b>Billing Accour</b>	it for Disposal of Const	truction Waste								
ND/2019/01	Reference Number: WFG21717			Pending						
ND/2019/06	7035473	17/10/2019	N/A	Valid						
Registration o	f Chemical Waste Prod	lucer								
ND/2019/01	5213-545-B2578-01	10/01/2020	N/A	Valid						
ND/2019/06	5213-625-N2716-01	02/10/2019	N/A	Valid						
Effluent Discharge License under Water Pollution Control Ordinance										
ND/2019/06	WT00035415-2019	20/03/2020	31/03/2025	Pending						

### **3** NOISE MONITORING

### **Monitoring Requirements**

3.1 In accordance with Updated EM&A Manual, construction noise monitoring was conducted in terms of the A-weighted equivalent continuous sound pressure level (Leq) to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

#### **Monitoring Location**

3.2 Impact noise monitoring was conducted at the monitoring stations, as shown in **Figure 2** according to Table 1.1 of Updated EM&A Manual. **Table 3.1** describes the locations of the noise monitoring stations.

Contract No.	Monitoring Station	Location
ND/2019/01	CP-KTN-NMS5	N/A
ND/2019/06	CP-FLN-NMS1	Belair Monte

Table 3.1Location of Noise Monitoring Stations

### Monitoring Equipment

3.3 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.2** summarizes the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix C**.

Table 3.2	Noise Monitoring Equipment
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Equipment	Model	Quantity
Integrating Sound Level Meter	SVAN957	2
Sound & Vibration Analyser	BSWA 801	1
Acoustical Calibrator	SV 30A	2
Acoustical Calibrator	4231	1

### Monitoring Parameters, Frequency and Duration

3.4 **Table 3.3** summarises the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

#### Table 3.3Noise Monitoring Parameters, Duration and Frequency

Contract No.	Monitoring Stations	Parameter	Duration	Frequency	Measurement
ND/2019/01	CP-KTN NMS5	L <sub>10(30 min.)</sub> dB(A) L <sub>90(30 min.)</sub> dB(A) L <sub>eq(30 min.)</sub> dB(A)	0700- 1900 hrs on normal	Once per week	Free-field <sup>[1]</sup>
ND/2019/06	CP-FLN- NMS1	(as six consecutive $L_{eq, 5min}$ readings)	weekdays		Façade

Remarks:

[1]: Correction of +3dB (A) for Free-field Measurement.

[2]: A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.

 $L_{10}$  is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above  $L_{10}$ .  $L_{90}$  is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

#### Monitoring Methodology and QA/QC Procedures

- The microphone head of the sound level meter was positioned at 1m from the exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall acted as a reflecting surface;
- The battery condition was checked to ensure the correct functioning of the meter;
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

_	frequency weighting	: A
	time weighting	: Fast
_	time measurement	: $L_{eq}(30 \text{ min.}) dB(A)$
		(as six consecutive Leq, 5min readings) during non-
		restricted hours (i.e. 0700-1900 hrs on normal weekdays)

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re- calibration or repair of the equipment;
- During the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

#### Maintenance and Calibration

3.5 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

- 3.6 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7 Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements would be accepted as valid only if the calibration levels before and after the noise measurement agreed to within 1.0 dB.

#### **Results and Observations**

3.8 The noise monitoring results are summarised in **Table 3.4**. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix E**. The weather information for the reporting month is summarized in **Appendix F**.

Contract No.	Monitoring Station	Construction Noise Level Leq (30 min), dB(A)	Baseline Level, dB(A)	Limit Level, dB(A)
ND/2019/01	CP-KTN-NMS5	54.3-56.5	57.2	75
ND/2019/06	CP-FLN-NMS1	65.9-69.5	69.9	75

 Table 3.4
 Summary Table of Noise Monitoring Results during the Reporting Month

- 3.9 All noise monitoring was conducted as scheduled in the reporting month. No complaint was received during the reporting. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix H**.
- 3.10 According to our field observations, the major noise source identified at the designated noise monitoring stations in the reporting month are as follows:

Table 3.5Observation at Noise Monitoring Stations

Contract No.	Monitoring Station	Location	Major Noise Source
ND/2019/01	CP-KTN-NMS5	N/A	Other construction site not under ND/2019/01
ND/2019/06	CP-FLN-NMS1	Belair Monte	Road Traffic at Ma Sik Road

### **Event and Action Plan**

3.11 Should any project related non-compliance of the criteria occur, action in accordance with the Action Plan in **Appendix G** shall be carried out.

#### 4 ENVIRONMENTAL SITE INSPECTION

#### Site Audits

- 4.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Contract site. The summaries of site audits are attached in **Appendix I**.
- 4.2 Site audits were conducted on 5<sup>th</sup>, 11<sup>th</sup>, 19<sup>th</sup>, 26<sup>th</sup> March 2020 by ET for the Contract No. ND/2019/06 in the reporting month. For Contract No. ND/2019/01, site audit was conducted on 25<sup>th</sup> March 2020 by ET after the commencement of Contract on 23<sup>rd</sup> March 2020. A joint site audit with the representative of the *Supervisor's* Representative, the Contractor, IEC and ET was carried out on 19<sup>th</sup> March 2020 for Contract No. ND/2019/06 while joint site audit of Contract No. ND/2019/01 was carried out on 25<sup>th</sup> March 2020. The details of observations during site audit are shown in **Table 4.1**.
- 4.3 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in Table 4.1.

Table 4.1	Monthly EM&A Report – March 2020 Observations and Recommendations of Site Audit		
Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: N	D/2019/01	1	
Water Quality	25/03/2020	To enhance the mitigation measures provided to direct the surface runoff to silt removal facilities.	Follow up action will be reported in next reporting month.
Contract No.: N	D/2019/06	1	
Water Quality	05/03/2020	Drainage system should be cleared regularly and maintained.	Improvement/ Rectification was observed during follow- up audit session on 11 March 2020.
Waste / Chemical Management	11/03/2020	Chemical waste should be packed and held in containers of suitable design so as to prevent leakage, spillage or escape of the contents under normal conditions of handlings, storage and transport. Chemical waste should be stored in designated place.	Improvement/ Rectification was observed during follow- up audit session on 19 March 2020.
Landscape & Visual Impact	05/03/2020	Retained trees should be carefully protected and construction materials should be cleared within the protection zone.	Improvement/ Rectification was observed during follow- up audit session on 11 March 2020.
	11/03/2020	For trees which haven't been undertaken tree survey should be protected and surrounded with fencing. Construction materials should also be removed from tree protection area.	Improvement/ Rectification was not observed during follow- up audit session on 19 March 2020.
	19/03/2020	Retained trees should be carefully protected.	Improvement/ Rectification was observed during follow- up audit session on 25 March 2020.
	19/03/2020	Dull green fencing should be secured with no gaps or no holes.	Improvement/ Rectification was observed during follow- up audit session on 25 March 2020.

### Implementation Status of Environmental Mitigation Measures

4.4 According to the EIA Report, EPs and the Updated EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase.

An updated summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix J**. The photographic records of measures as stipulated in EP to mitigate environmental impacts in the reporting month are presented in **Table 4.2**.





To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences have be erected around all active works areas

### Solid and Liquid Waste Management Status

- 4.5 Waste generated from Contract No. ND/2019/06 include inert construction and demolition (C&D) materials and non-inert C&D wastes. For Contract No. ND/2019/01, only general refuse had been generated during reporting month.
- 4.6 The amount of wastes generated by the construction works of the Contract No. ND/2019/01 and Contract No. ND/2019/06 during the reporting month is shown in **Appendix K**.
- 4.7 The Contractors are advised to minimize the wastes generated through the recycling or reusing. All mitigation measures stipulated in the Updated EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures are summited in **Appendix J**.

#### 5 ENVIRONMENTAL NON-CONFORMANCE

#### **Summary of Exceedances**

- 5.1 No exceedance of Action and Limit Levels of construction noise in the reporting month. The summary of exceedance record in reporting month is shown in **Appendix H**.
- 5.2 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix G** be carried out.

#### Summary of Environmental Non-Compliance

5.3 No environmental non-compliance was recorded in the reporting month.

#### **Summary of Environmental Complaint**

5.4 No environmental complaints were received in the reporting month. The Cumulative Complaint Log since the commencement of the Project is presented in **Appendix L**.

#### Summary of Environmental Summon and Successful Prosecution

5.5 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution since the commencement of the Project is presented in **Appendix M**.

#### 6 FUTURE KEY ISSUES

#### Key Issues in the Coming Two Months

6.1 The major site activities for the coming two months are shown in **Table 6.1**.

Table 6.1         Summary Table for Site Activities in the coming Two Model	onths
---	-------

Contract No.	Contract Title	Site Activities (April and May 2020)
Contract No. ND/2019/01	Kwu Tung North New Development Area, Phase 1: Site	<ul> <li>(a) Tree Survey, Site Clearance, Ground Investigation, Preparation Works and construction for Interim CLC in Portion 1f;</li> </ul>
	Formation and Infrastructure Works	(b) Tree Survey, Application of Excavation Permit (XP), Preparation of TTA Drawings for Approval, Ground Investigation in Portion 2;
		(c) Tree Survey, Site Clearance in Portion 3;
		(d) Tree Survey, Site Clearance in Portion 4;
		(e) Site Clearance, GI Works in Portion 5;
		<ul> <li>(f) Tree Survey, Site Clearance, Demolish Abandoned Structures of Community Sports, Ground Investigation in Portion 6a;</li> </ul>
		(g) Tree Survey, Site Clearance, Ground Investigation, Set up of Soil Treatment Plant in Portion 6b;
		<ul><li>(h) Tree Survey, Site Clearance, Ground Investigation in Portion 7;</li></ul>
		<ul><li>(i) Tree Survey, Site Clearance, Forming Access, GI Works and General Excavation in Portion 8a;</li></ul>
		(j) Tree Survey, Site Clearance in Portion 8b; and
		(k) Container Office in additional land next to Portion 1f.
Contract No. ND/2019/06	Fanling North New Development Area, Phase 1: Re-	<ul> <li>(a) Breaking up the remaining concrete surface and disposal of C&amp;D material off site at Portion 1;</li> </ul>
	provisioning of	(b) Installation of road kerbs for interim stage;
	North District Temporary Wholesale Market for Agricultural Products	<ul> <li>(c) Drainage works for interim stage including construction of U-channel and manhole for interim stage;</li> </ul>
		(d) Construction of road surface for interim stage; and
		(e) Construction of footing of lighting for interim stage; and
		(f) Construction of run-in/out.

### Monitoring Schedule for the Next Month

6.2 The tentative environmental monitoring schedule for the next month is shown in **Appendix D**.

#### **Construction Programme for the Next Month**

6.3 A tentative construction programme is provided in Appendix A.

#### 7 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

- 7.1 This Monthly EM&A Report presents the EM&A work undertaken in March 2020 in accordance with Updated EM&A Manual.
- 7.2 No Action/Limit Level exceedance were recorded for construction noise.

#### Contract No. ND/2019/01

7.3 Environmental site inspection was conducted on 25<sup>th</sup> March 2020 by ET in the reporting month.

#### Contract No. ND/2019/06

- 7.4 Environmental site inspections were conducted on 5<sup>th</sup>, 11<sup>th</sup>, 19<sup>th</sup>, 26<sup>th</sup> March 2020 by ET in the reporting month.
- 7.5 There was no environmental complaints, no notification of summons or successful prosecutions received in the reporting month.
- 7.6 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

#### Recommendations

7.7 According to the environmental audits performed in the reporting month, the following recommendations were made:

#### Air Quality Impact

- To enhance the dust suppression measures such as water spraying on all haul roads and expose work site area; and
- To maintain the impervious material to cover the stockpile of dusty materials; and
- To ensure all regulated machines with valid Non-road Mobile Machinery (NRMM) labels.

#### Water Impact

- To prevent any surface runoff discharge into nearby drainage or stream;
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge; and
- To ensure the drainage facilities would not be clogged with waste to avoid overflow.

#### Waste/Chemical Management

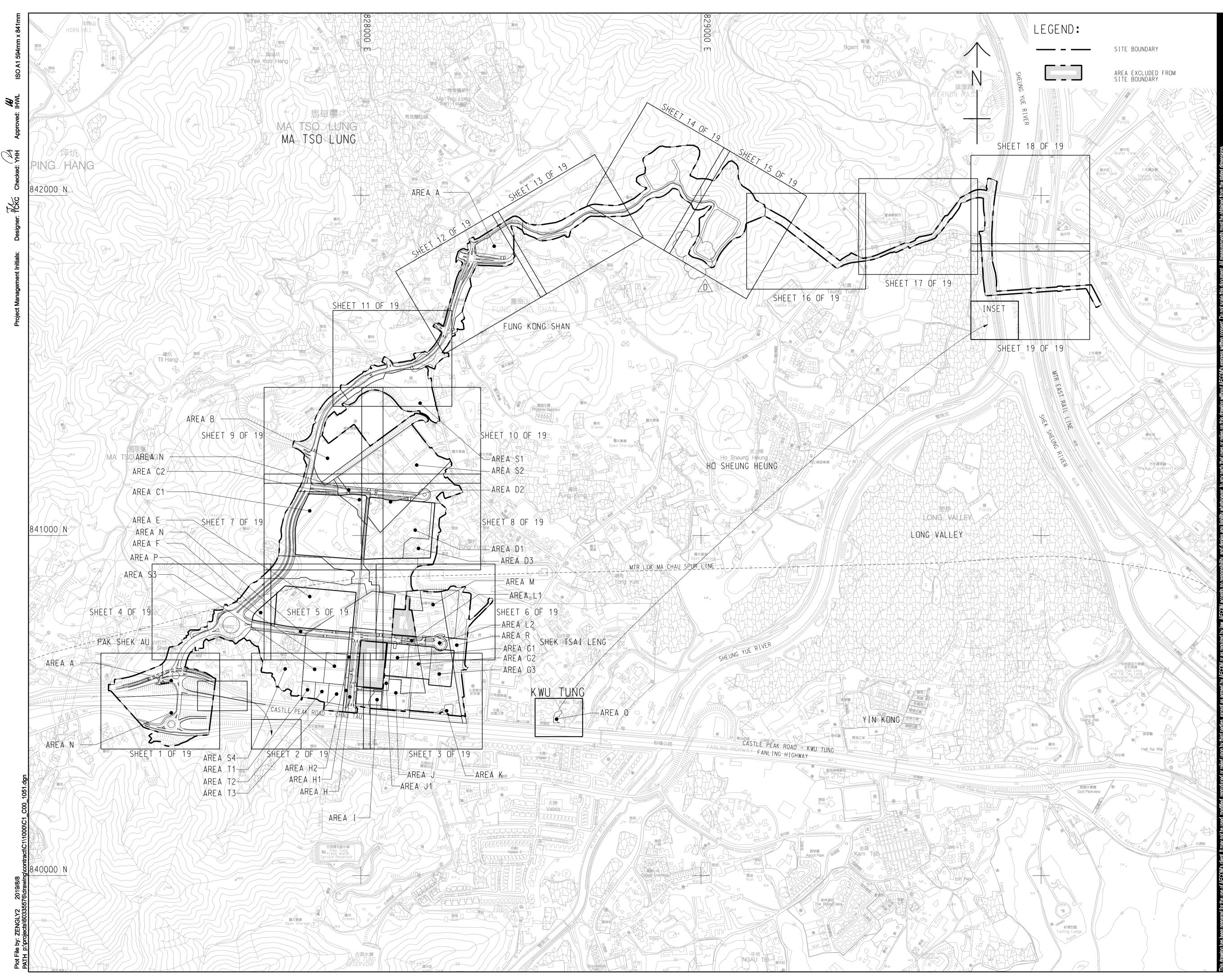
- To avoid improper handling, storage and dispose of oil drums or chemical containers on site; and
- To store chemical waste/waste oil properly in the designated place before disposal.

#### Landscape & Visual Impact

- To clear the construction materials/wastes properly within the tree protection zone.
- Retained trees should be carefully protected.
- Dull green fencing should be secured with no gaps or no holes.

DRAWING(S)

### <u>Contract No. ND/2019/01 Kwu Tung North New</u> <u>Development Area, Phase 1: Site Formation and</u> <u>Infrastructure Works</u>



2 Set Set



### PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

### CLIENT 業主

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 Development Department

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### ISSUE/REVISION 修訂

<b>I/R</b> 修訂	DATE 日期	<b>DESCRIPTION</b> 內容摘要	CHK. 複核
-	JUN-19	TENDER DRAWING	YHH
Α	JUL-19	TENDER ADDENDUM NO. 1	YHH
В	JUL-19	<b>TENDER ADDENDUM NO. 2</b>	YHH
С	AUG-19	<b>TENDER ADDENDUM NO. 3</b>	YHH
D	AUG-19	<b>TENDER ADDENDUM NO. 4</b>	YHH
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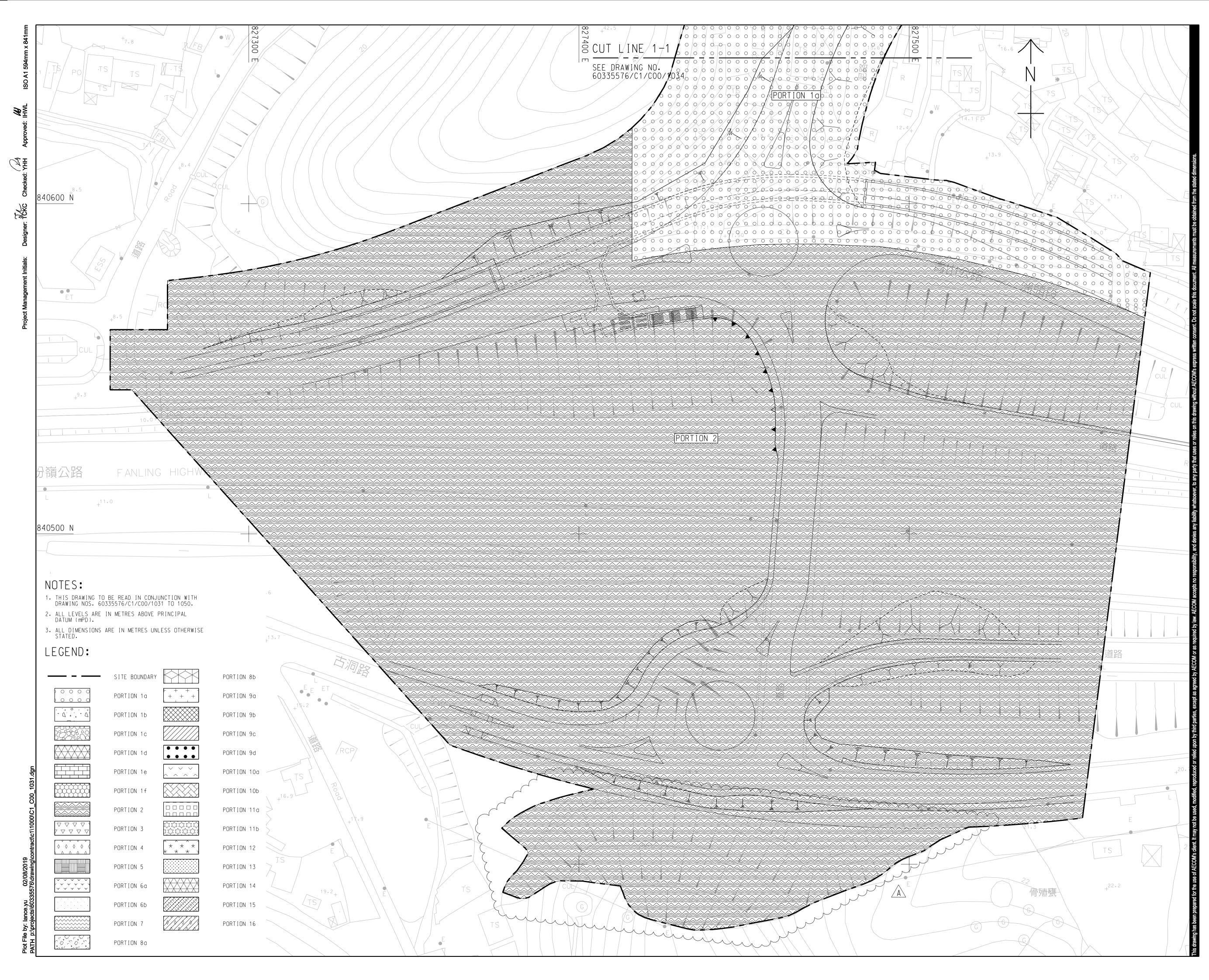
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KEY PLAN 索引圖	

### **PROJECT NO.** 項目編號 CONTRACT NO. <sup>合約編號</sup> ND/2019/01 60335576 SHEET TITLE 圖紙名稱

AREA OF THE SITE - KEY PLAN

## SHEET NUMBER 圖紙編號

60335576/C1/C00/1051D





PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

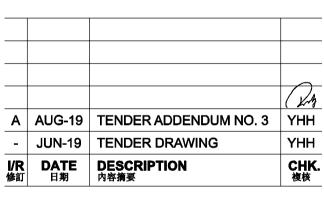
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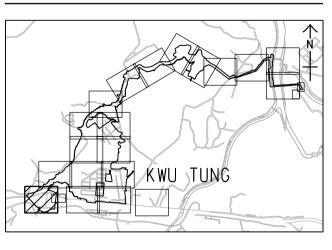
SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 家引國



## PROJECT NO. <sub>項目編號</sub>

## CONTRACT NO. <sub>合約編號</sub>

60335576

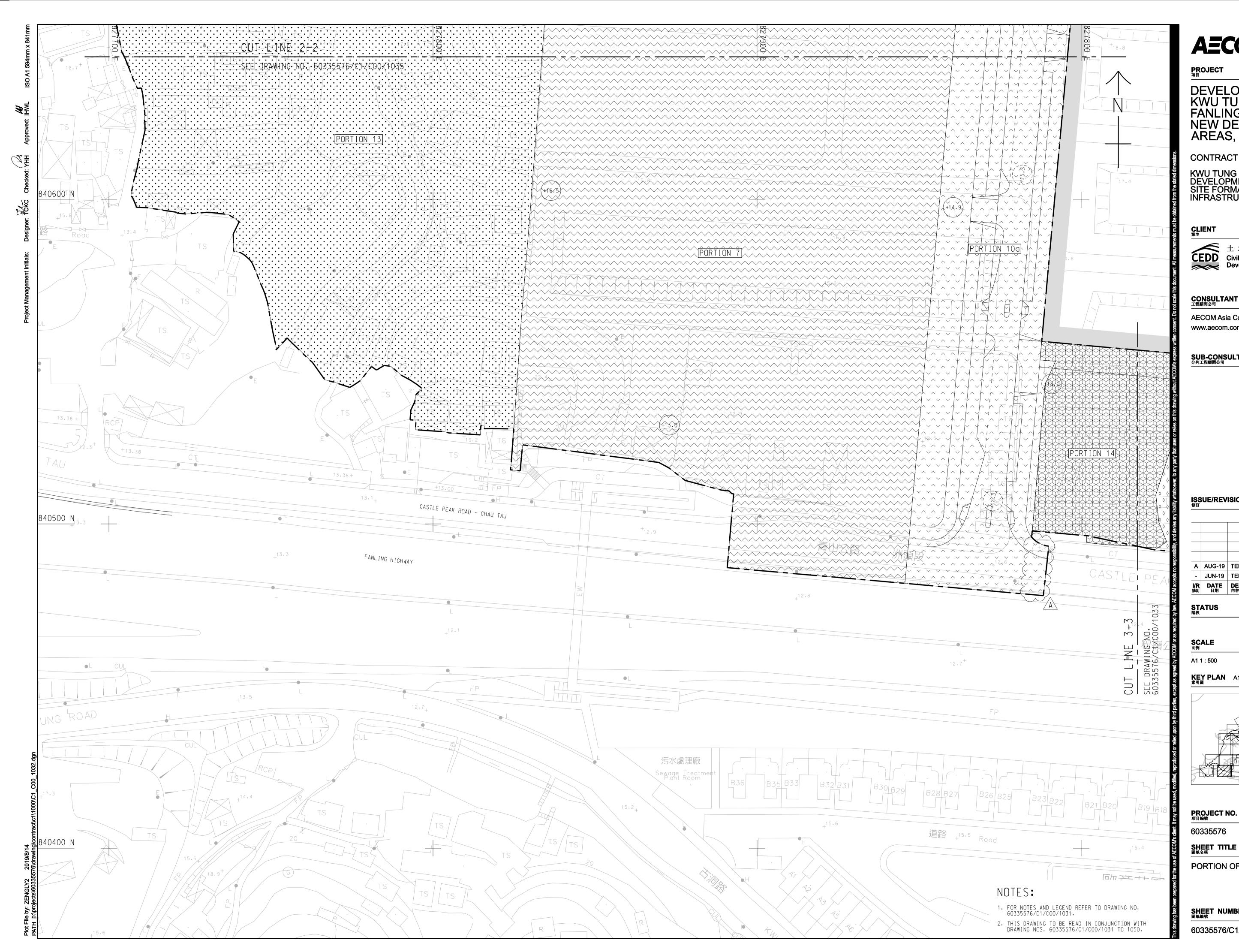
SHEET TITLE 圖紙名稱 PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

60335576/C1/C00/1031A

ND/2019/01

SHEET 1 OF 20





PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

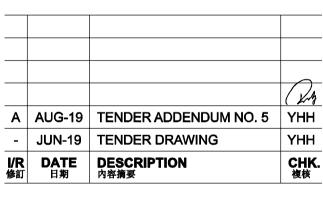
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### STATUS <sub>階段</sub>

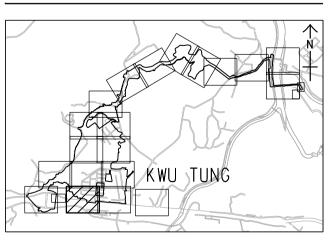
SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 家引國



## PROJECT NO. <sub>項目編號</sub>

CONTRACT NO. <sub>合約編號</sub>

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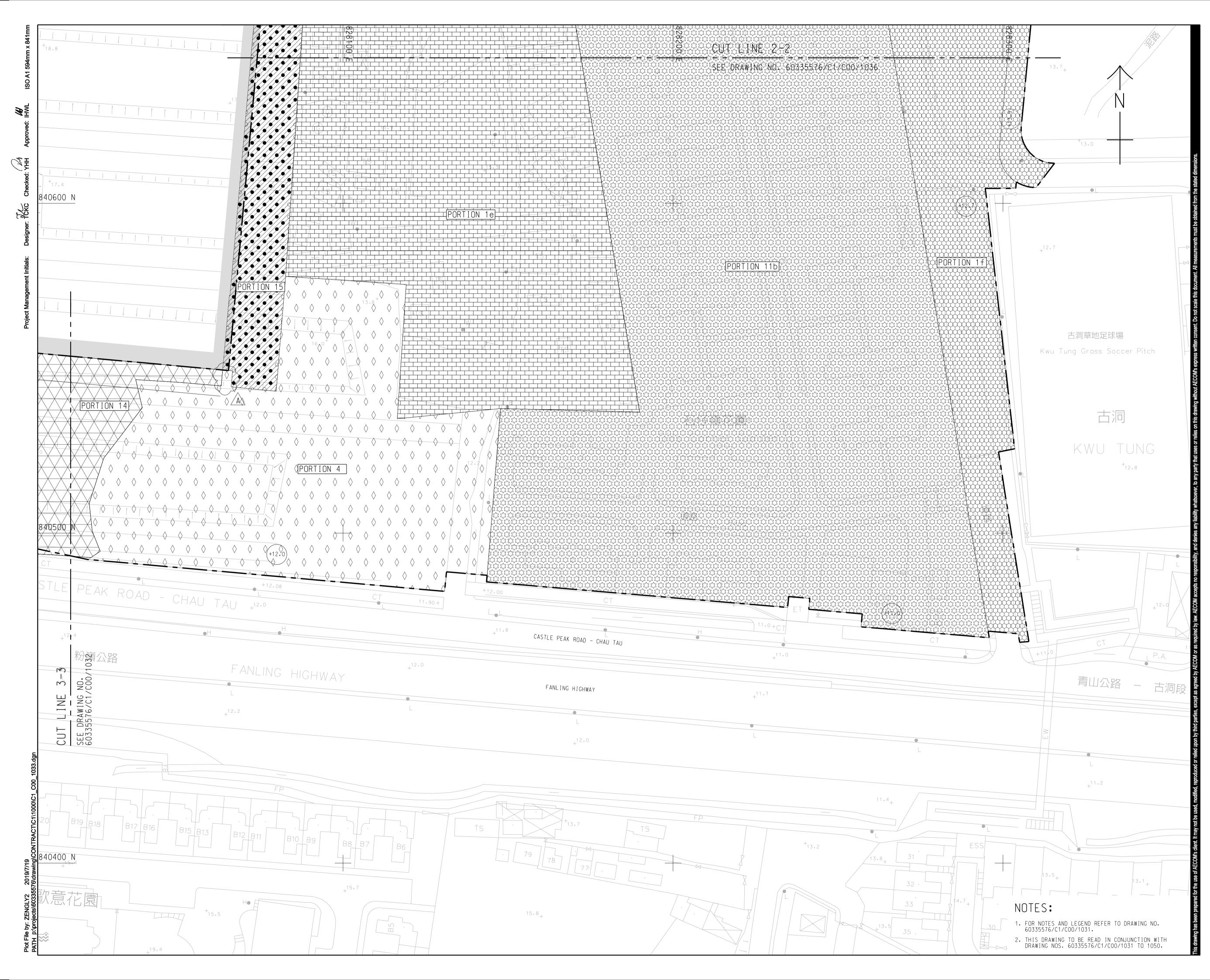
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PORTION OF THE SITE

# SHEET NUMBER 圖紙編號

SHEET 2 OF 20

## 60335576/C1/C00/1032A





### 

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

### CLIENT <sup>業主</sup>



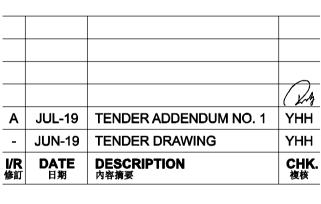
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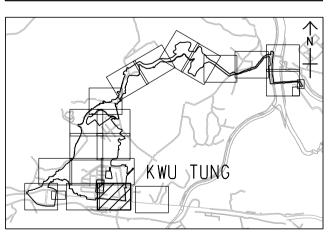
A1 1 : 500

SCALE 比例

## DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 家引國



## PROJECT NO. 項目編號

## CONTRACT NO. <sup>合約編號</sup>

60335576

SHEET TITLE 圖紙名稱

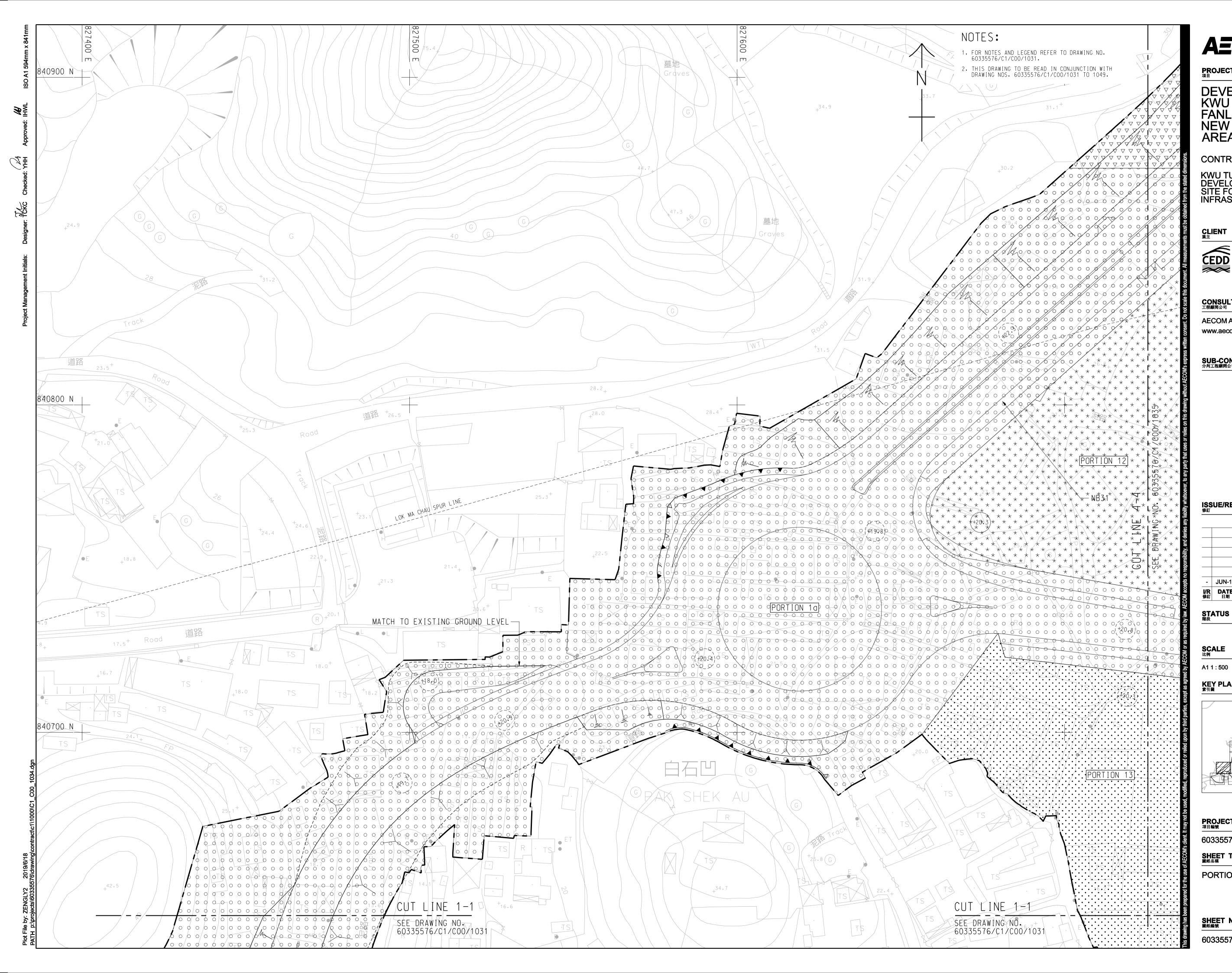
ND/2019/01

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 3 OF 20

60335576/C1/C00/1033A





PROJECT <sub>項目</sub>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sub>業主</sub>

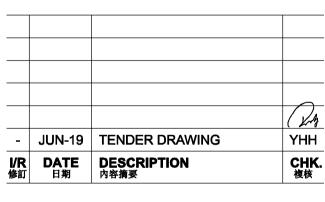
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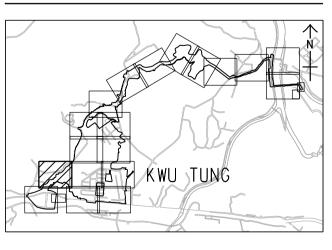
### STATUS 階段

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 家引圖



## PROJECT NO. <sub>項目編號</sub>

60335576

## CONTRACT NO. <sup>合約編號</sup>

ND/2019/01

SHEET TITLE 圖紙名稱

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 4 OF 19

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PROJECT

DEVELOPMENT OF KWU TUNG NORTH AND **FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1** 

### CONTRACT TITLE:

KWU TUNG NORTH NEW **DEVELOPMENT AREA, PHASE 1:** SITE FORMATION AND INFRASTRUCTURE WORKS

### CLIENT <sup>業主</sup>

CEDD

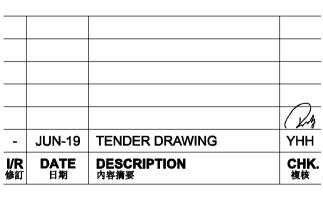
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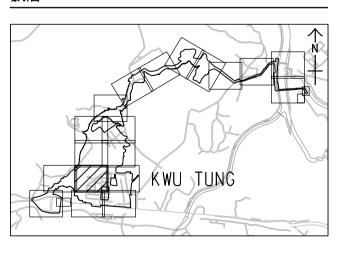
SCALE 比例

A1 1 : 500

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 家引圖



### PROJECT NO. 項目編號

60335576

SHEET TITLE 圖紙名稱

ND/2019/01

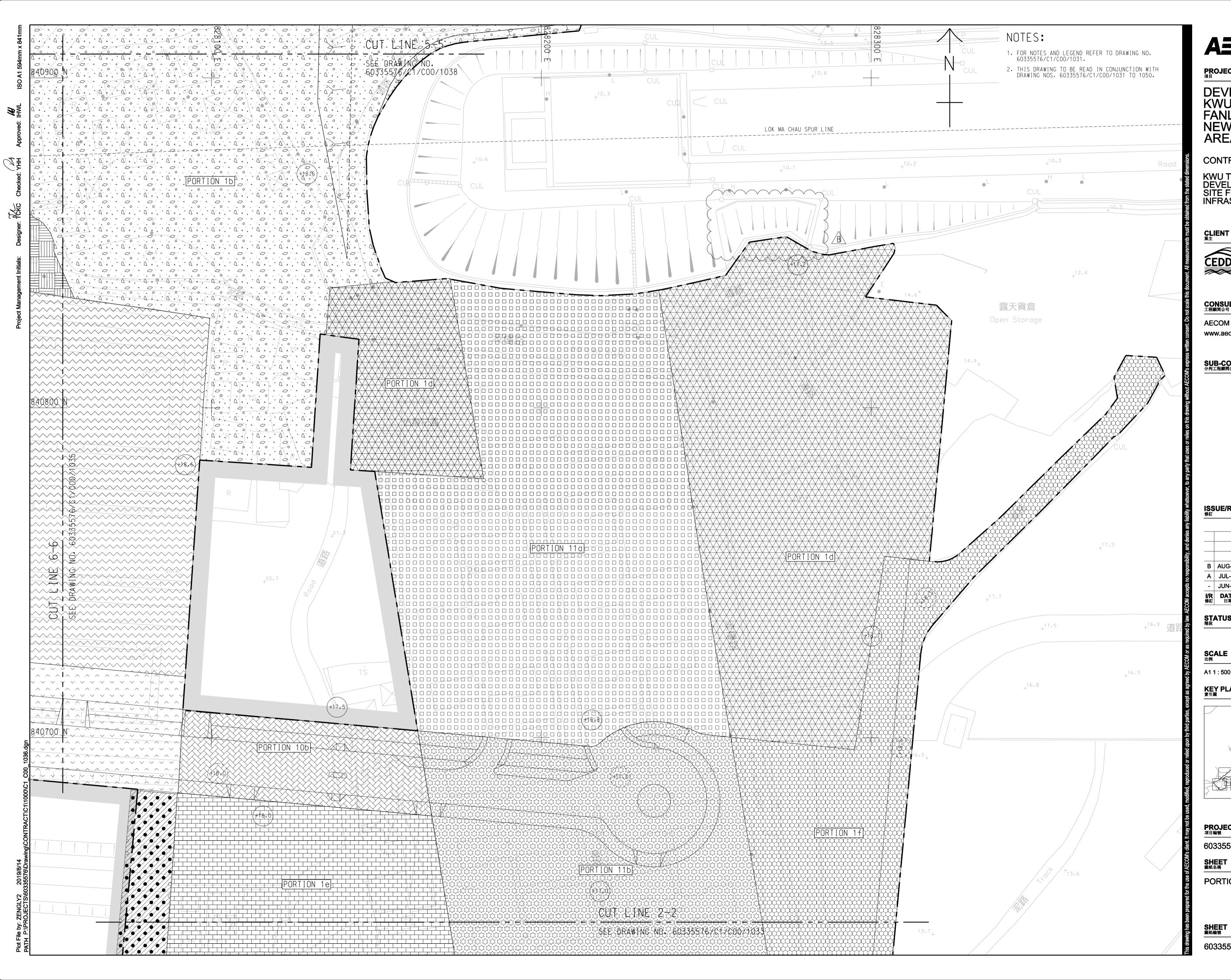
PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 5 OF 19

60335576/C1/C00/1035

CONTRACT NO. 合約編號





### PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

### CLIENT <sup>業主</sup>

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<b>/</b> / 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	JUN-19	TENDER DRAWING	YHH
Α	JUL-19	TENDER ADDENDUM NO. 1	YHH
в	AUG-19	<b>TENDER ADDENDUM NO. 5</b>	YHH
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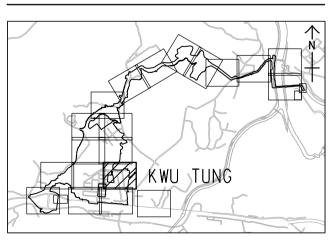
### STATUS 階段

## DIMENSION UNIT <sup>尺寸單位</sup>

### A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 家引圖



## PROJECT NO. <sub>項目編號</sub>

SHEET 6 OF 20

60335576

ND/2019/01

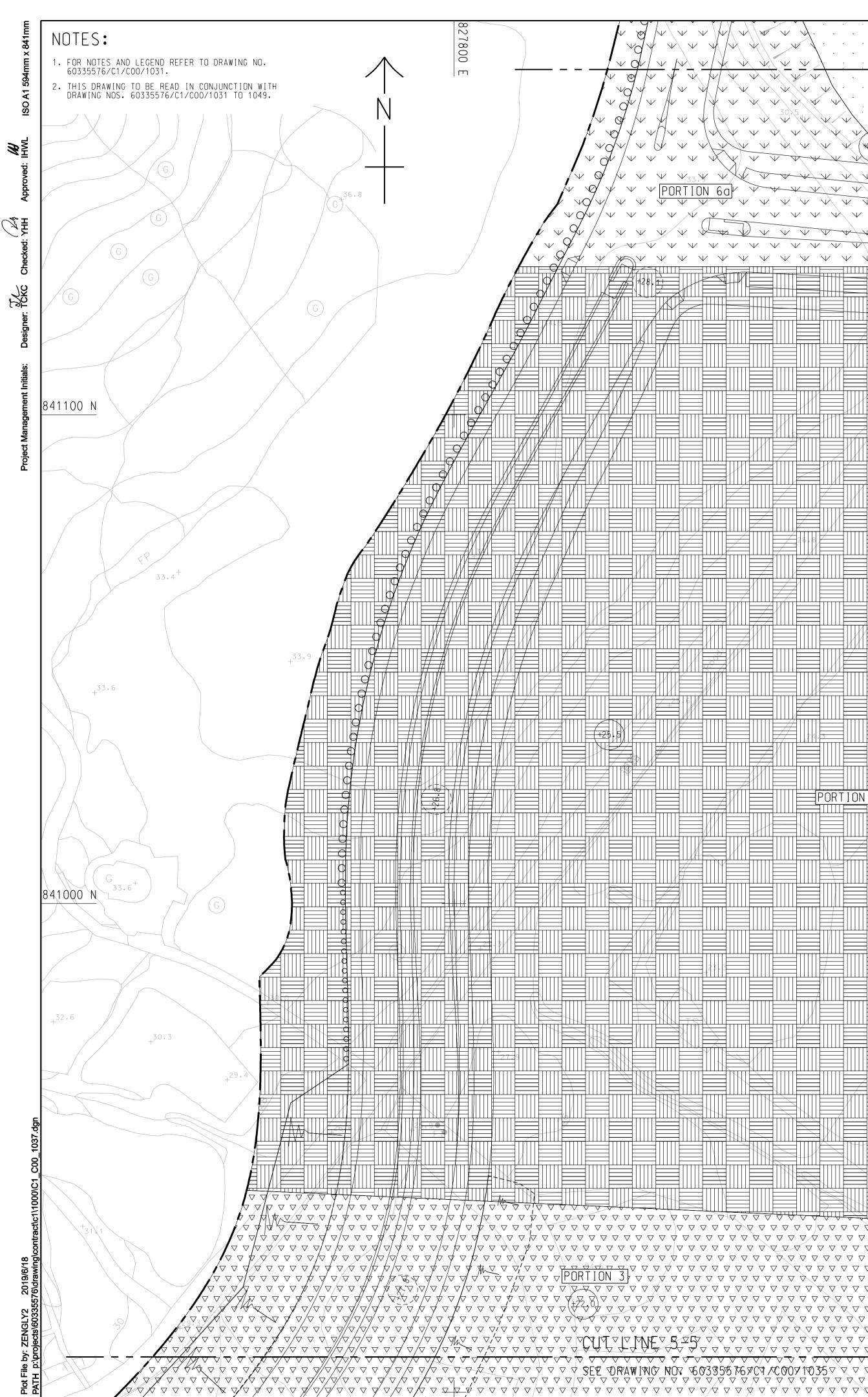
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PORTION OF THE SITE

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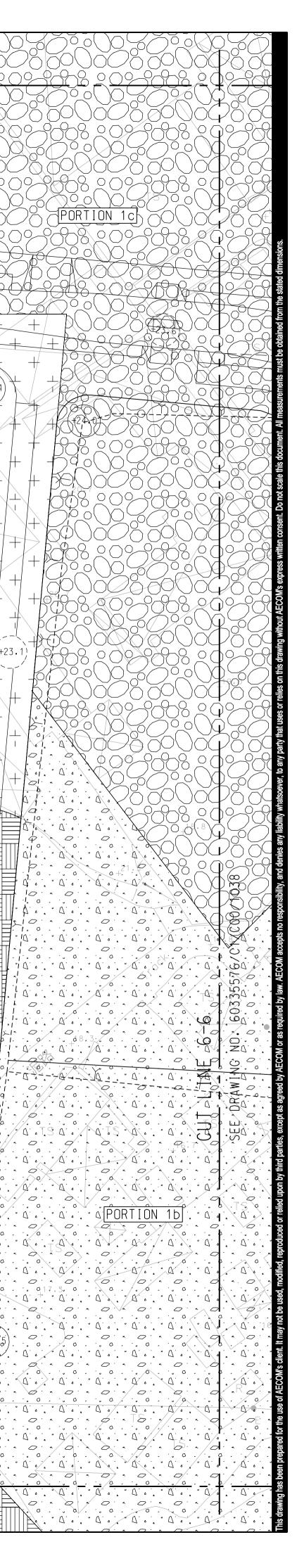
CONTRACT NO. <sup>合約編號</sup>



CUILEINE 7-0200 NX NX  $\vee$   $\vee$   $\vee$ SEE DRAWING NO. 6033557640, 19000/1039  $\vee \vee \vee$ PORTION 6D V  $\searrow$ XX  $\searrow$  $\forall \forall \vee$  $\mathbb{N}$  $\searrow$  $\vee \vee \vee \vee \vee \vee$  $\vee$  $\vee$   $\vee$  $\vee$ +26.5 (#24.4) PORTION 9a  $\overline{(2)}$ \_\_\_\_\_ PORTION (+20.0) +1**8-5**) 0.  $\mathcal{O}$  $\Delta$ , o

 $\nabla \ \nabla \ \nabla \ \nabla \ \nabla \ \nabla$ 

 $\bigtriangledown \lor \lor \lor \lor \lor \lor \lor \lor$ 



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PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

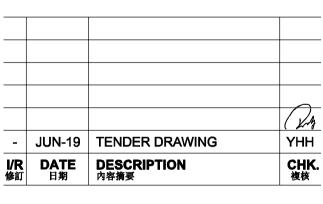
### CLIENT <sup>業主</sup>

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AECOM Asia Company Ltd. www.aecom.com

### SUB-CONSULTANTS 分判工程顧問公司

## ISSUE/REVISION 修訂



### STATUS 階段

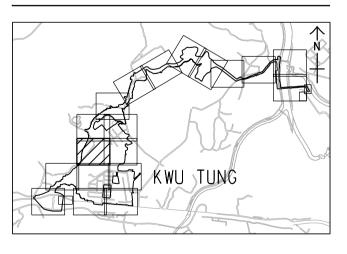
SCALE 比例

A1 1 : 500

## DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 *索*引國



## PROJECT NO. <sub>項目編號</sub>

CONTRACT NO. 合約編號 ND/2019/01

60335576

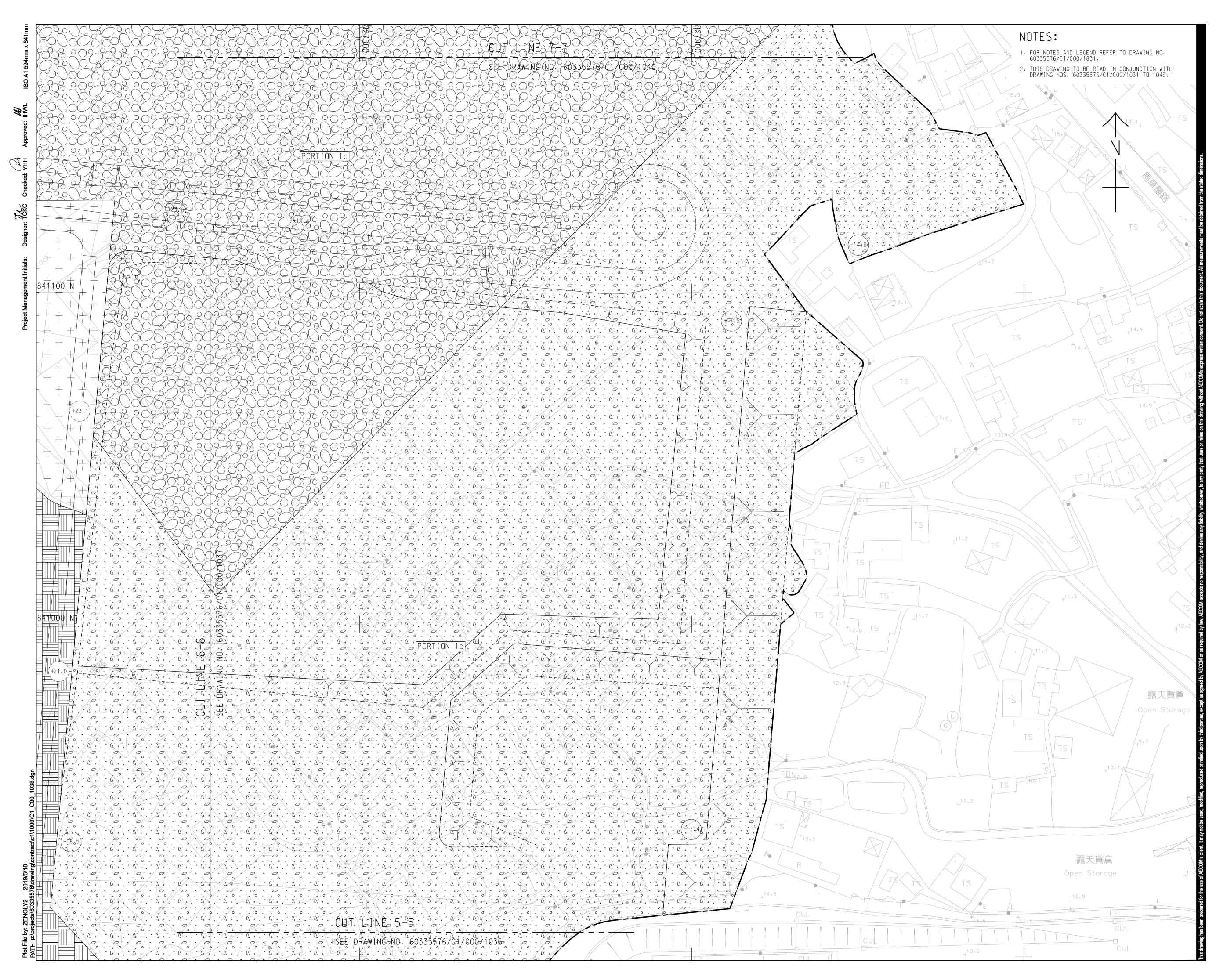
SHEET TITLE 圖紙名稱

PORTION OF THE SITE

# SHEET NUMBER 圖紙編號

SHEET 7 OF 19

60335576/C1/C00/1037





### PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

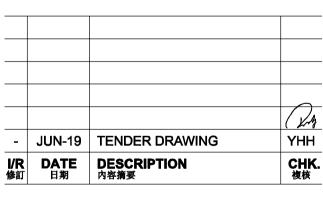
上木工程拓展署
 Civil Engineering and
 Development Department

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### **ISSUE/REVISION**



### STATUS 階段

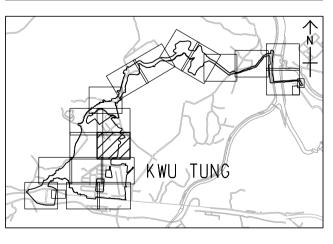
SCALE 比例

A1 1 : 500

## DIMENSION UNIT 尺寸單位

METRES

**KEY PLAN** A1 1 : 40000 家引圖



## PROJECT NO. <sub>項目編號</sub>

60335576

SHEET TITLE 圖紙名稱

ND/2019/01

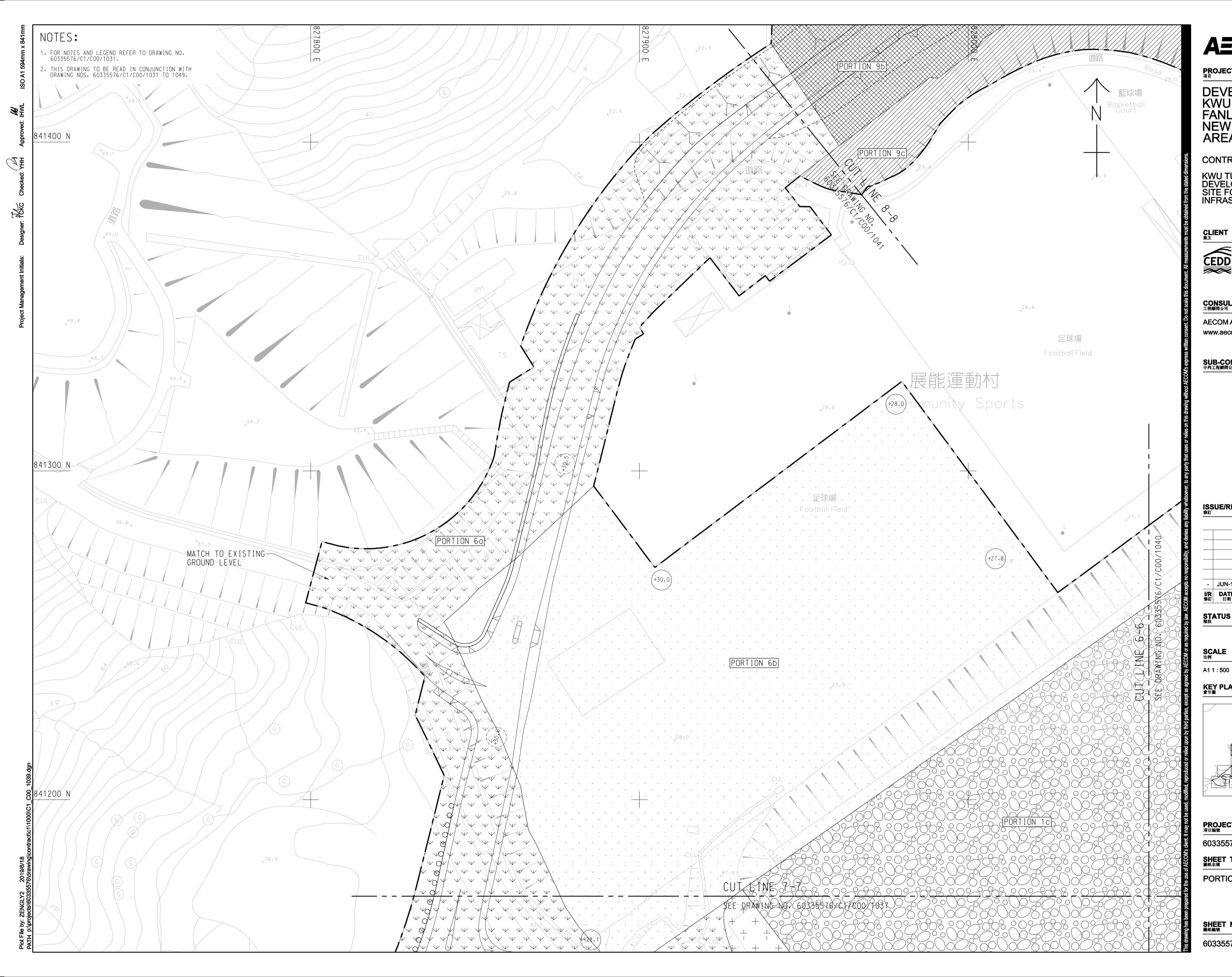
SHEET 8 OF 19

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

60335576/C1/C00/1038

CONTRACT NO 合約編號





### PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

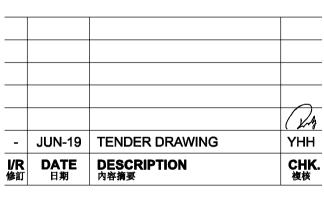
## CLIENT <sup>業主</sup>

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## ISSUE/REVISION 修訂



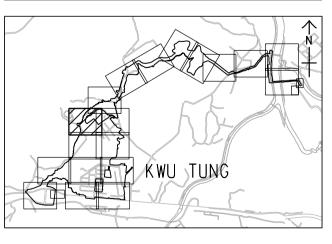
## STATUS 階段

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 家引國



## PROJECT NO. <sub>項目編號</sub>

SHEET 9 OF 19

60335576

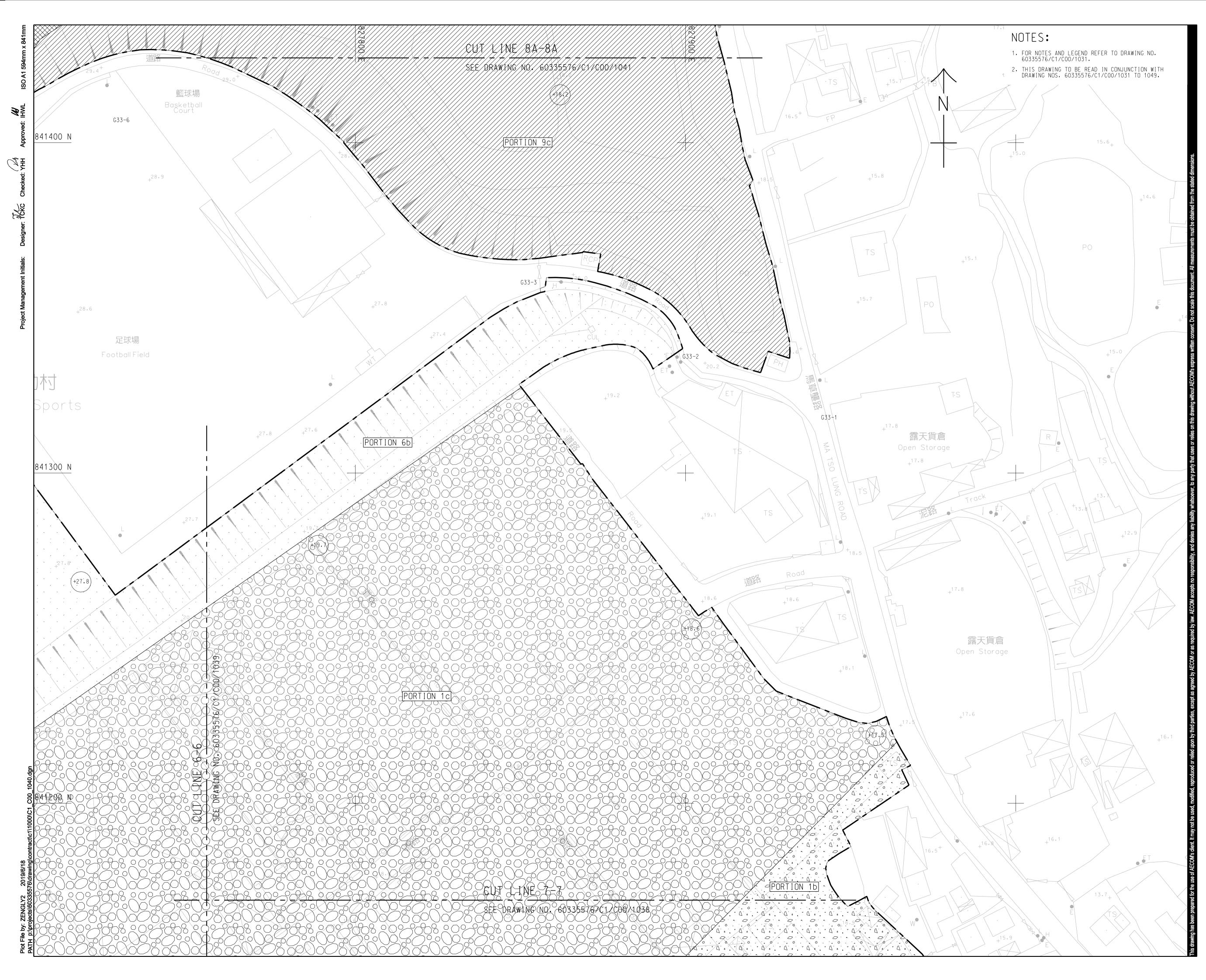
ND/2019/01

SHEET TITLE 圖紙名稱 PORTION OF THE SITE

# SHEET NUMBER 圖紙編號

60335576/C1/C00/1039

## CONTRACT NO. <sup>合約編號</sup>





DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

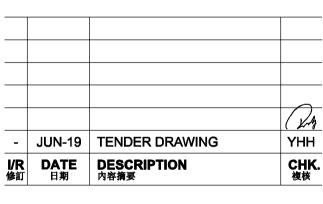
た木工程拓展署
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## ISSUE/REVISION 修訂



## STATUS <sub>階段</sub>

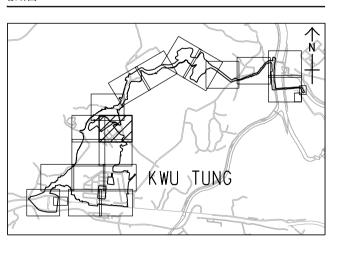
SCALE 比例

A1 1 : 500

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 *索*引國



## PROJECT NO. <sub>項目編號</sub>

60335576

## CONTRACT NO. <sup>合約編號</sup>

ND/2019/01

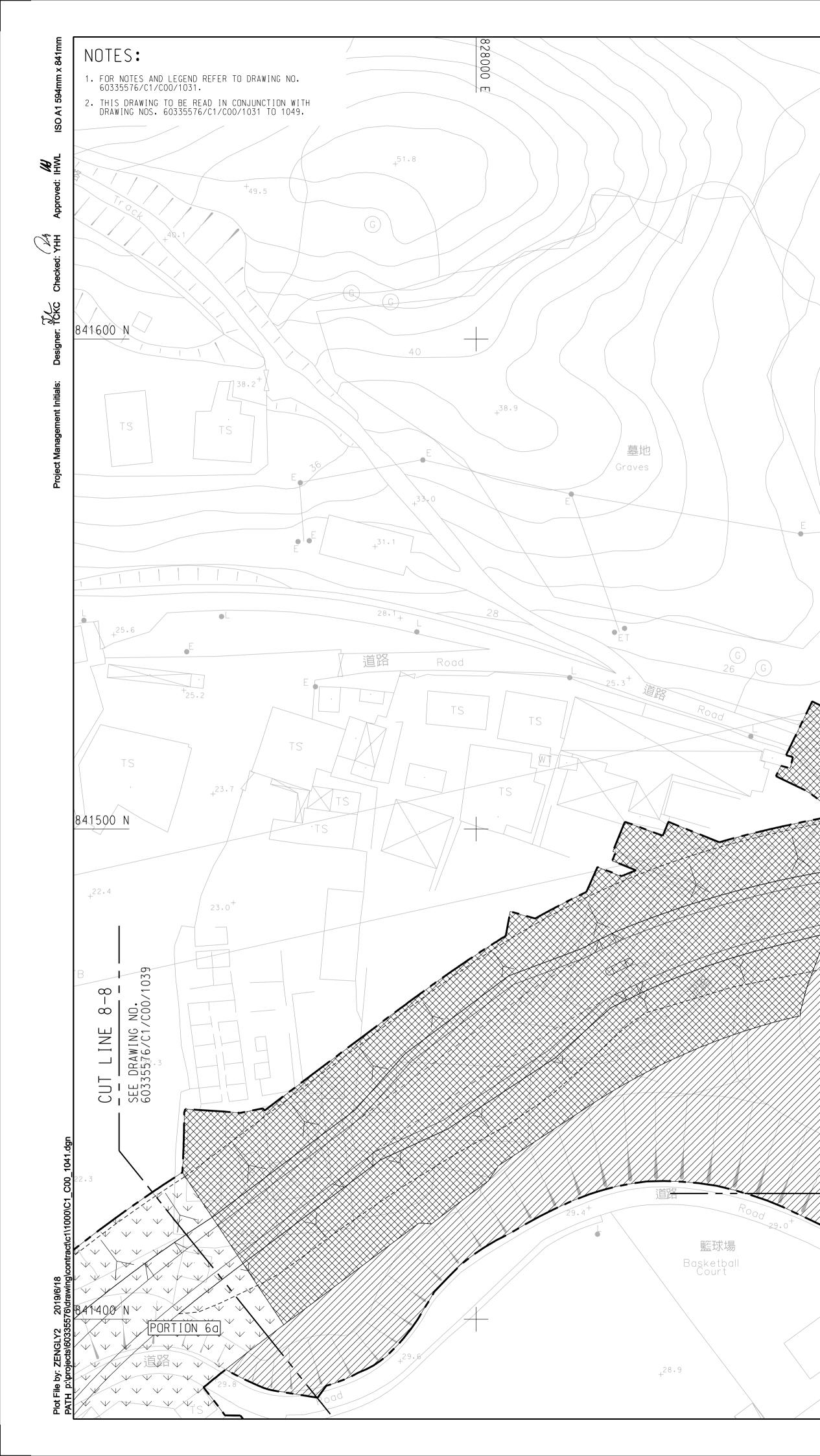
SHEET TITLE 圖紙名稱

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 10 OF 19

60335576/C1/C00/1040



CUT LINE 8A-8A SEE DRAWING NO. 60335576101100011040

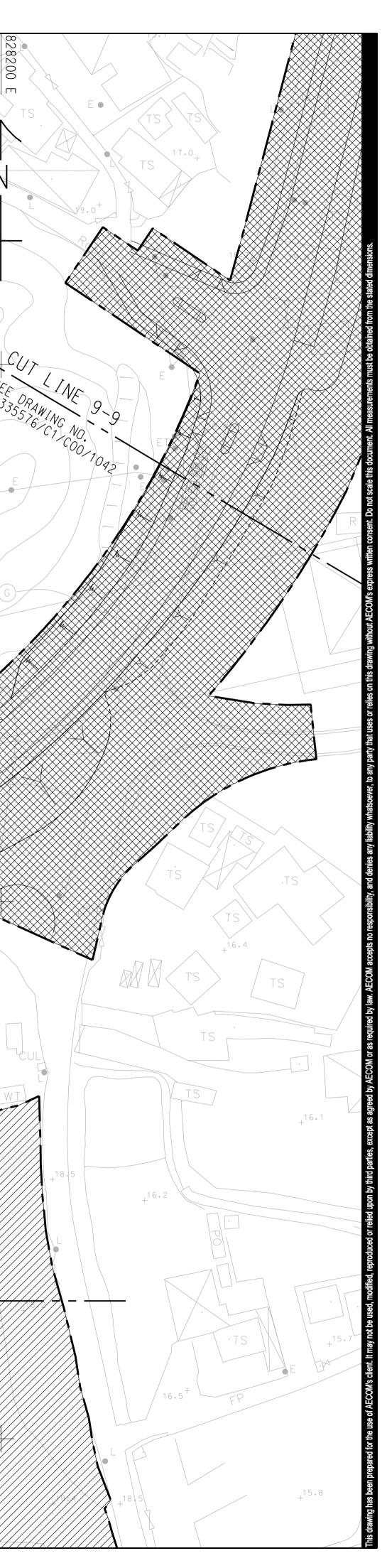
PORTION 9c

ORTION 96

24.3

828100

21.1



828200

NT.

18.5

\_30.5



**PROJECT** <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

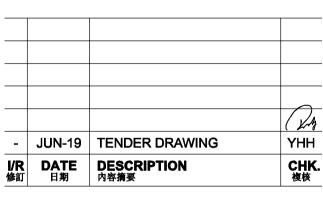
た木工程拓展署
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## ISSUE/REVISION 修訂



## STATUS 階段

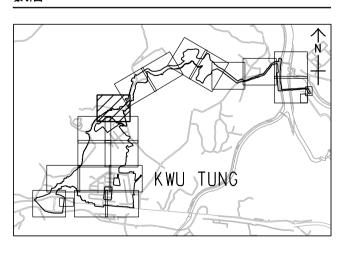
SCALE 比例

A1 1 : 500

## DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 *索*引國



## PROJECT NO. <sub>項目編號</sub>

60335576

SHEET TITLE 圖紙名稱

CONTRACT NO. <sup>合約編號</sup>

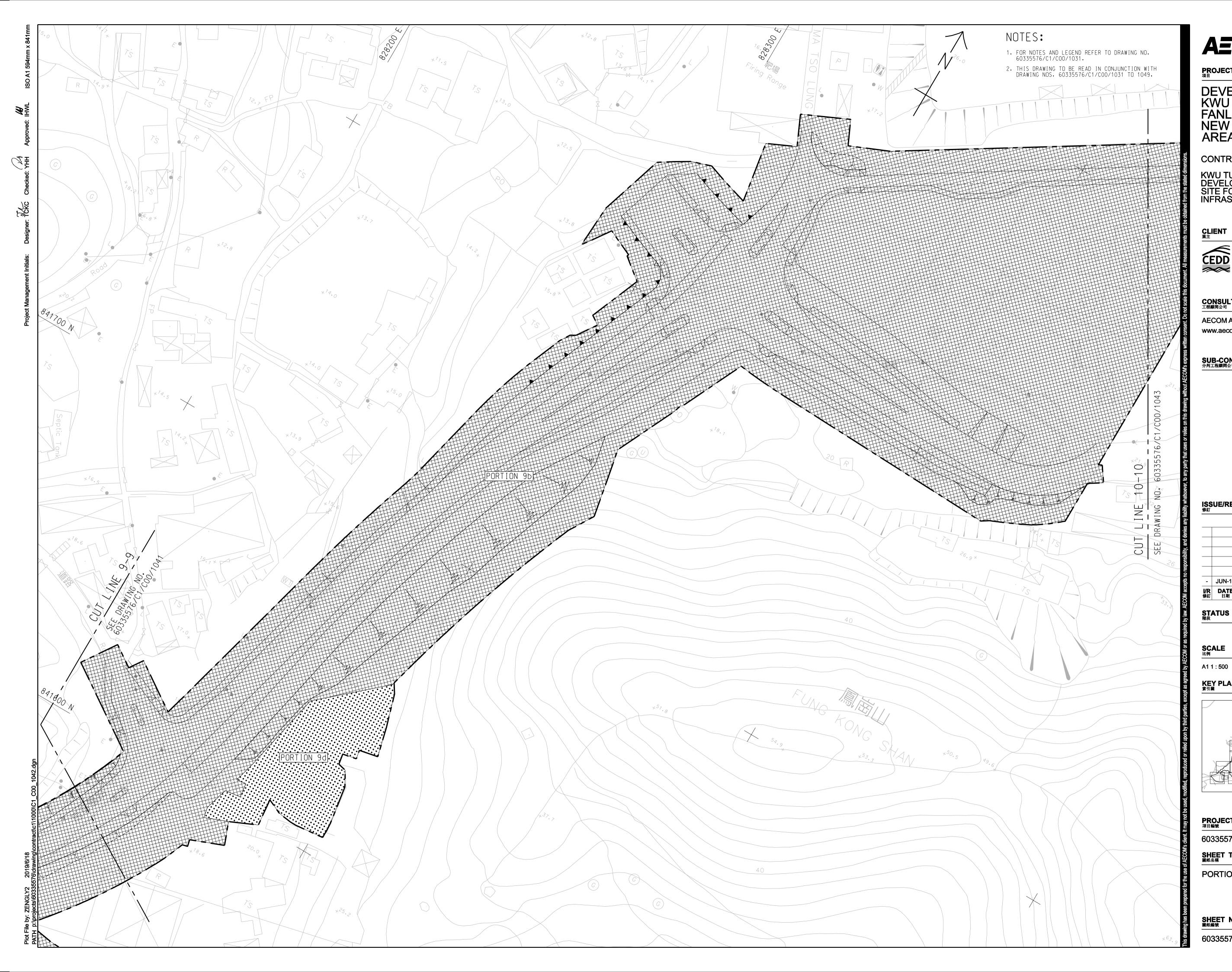
SHEET 11 OF 19

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

60335576/C1/C00/1041

ND/2019/01





PROJECT <sub>項目</sub>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

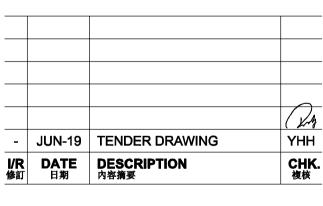
た木工程拓展署
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## SUB-CONSULTANTS 分判工程顧問公司

## ISSUE/REVISION 修訂



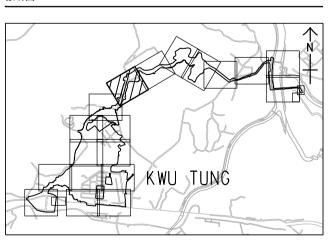
## STATUS 階段

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 *索*引圖



## PROJECT NO. <sub>項目編</sub>號

CONTRACT NO. <sup>合約編號</sup>

60335576

ND/2019/01

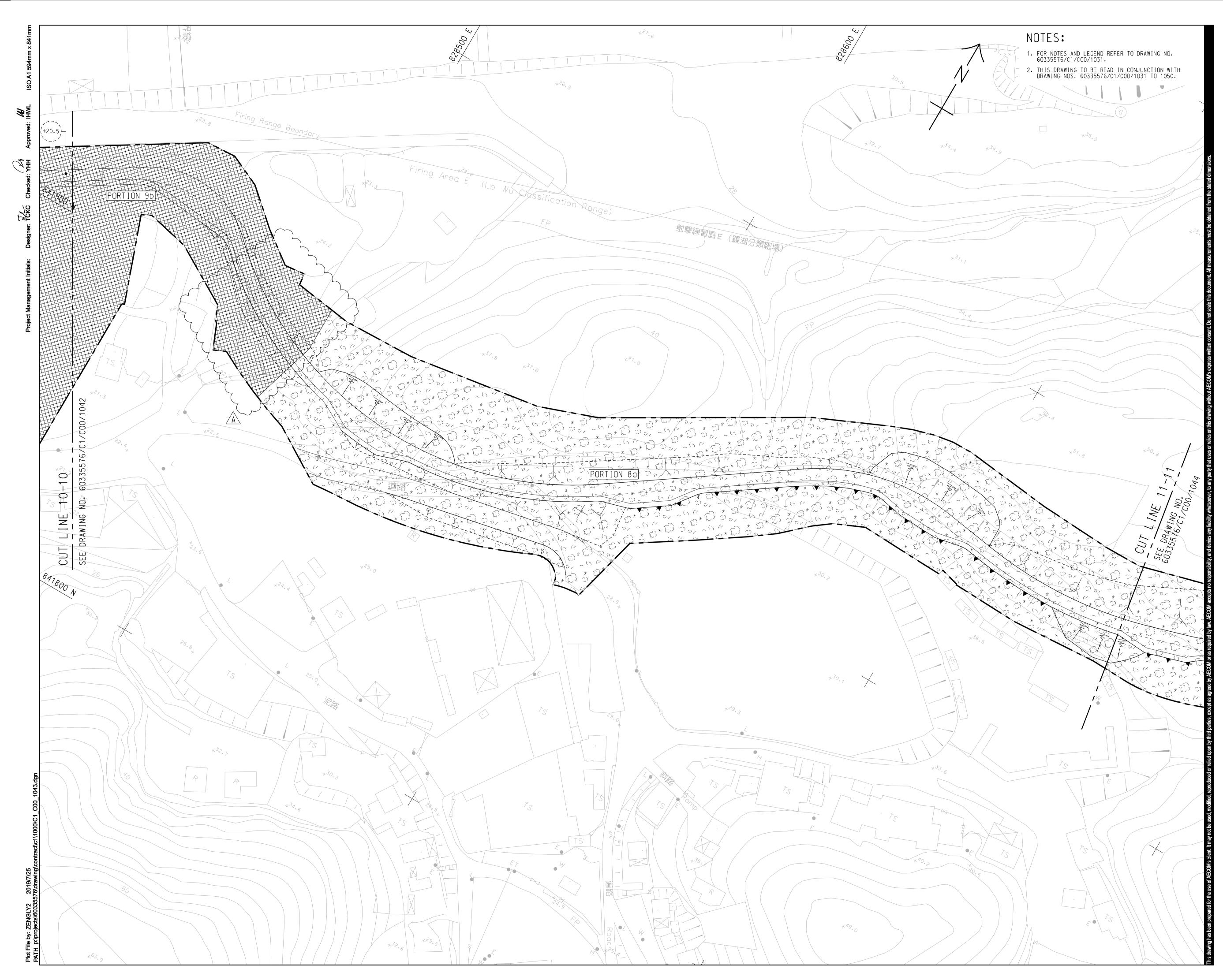
SHEET TITLE 圖紙名稱

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 12 OF 19

60335576/C1/C00/1042





DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT 業主

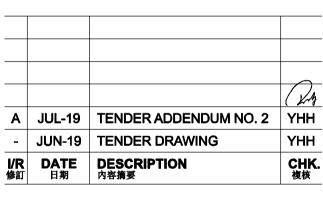
上木工程拓展署
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 Development Department

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## SUB-CONSULTANTS 分判工程顧問公司

## ISSUE/REVISION 修訂



### STATUS <sub>階段</sub>

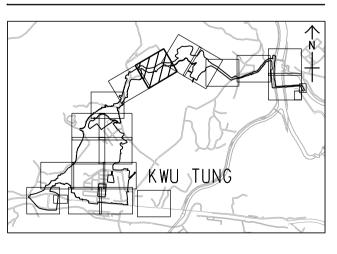
SCALE <sup>比例</sup>

## DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 *索*引國



## PROJECT NO. <sub>項目編</sub>號

CONTRACT NO. <sub>合約編號</sub>

60335576

ND/2019/01

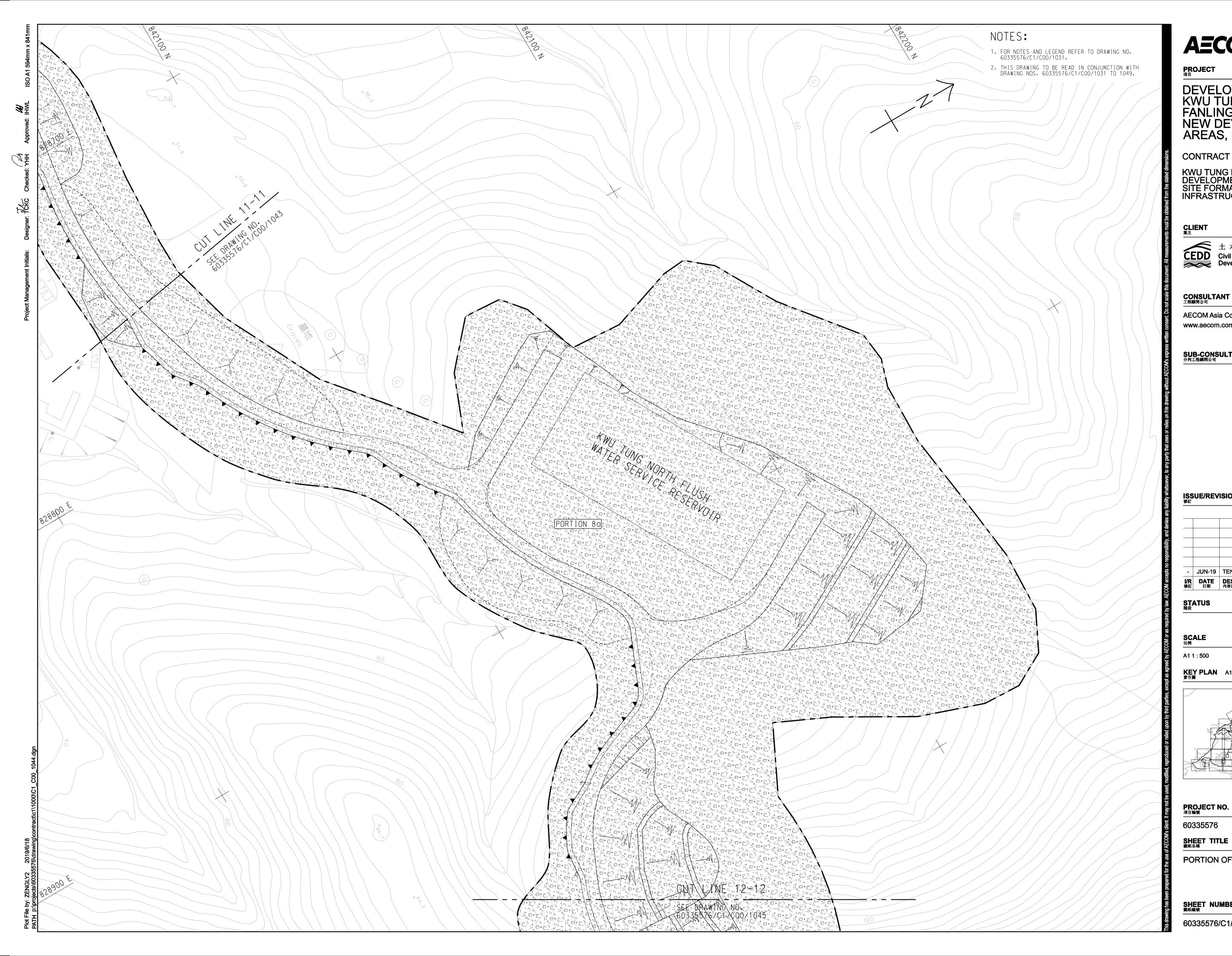
PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 13 OF 20

60335576/C1/C00/1043A

SHEET TITLE 圖紙名稱





DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

#### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

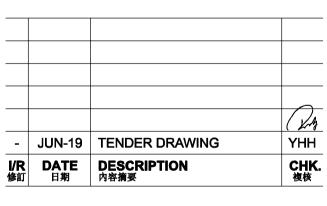
上木工程拓展署
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AECOM Asia Company Ltd. www.aecom.com

## SUB-CONSULTANTS 分判工程顧問公司

## ISSUE/REVISION 修訂



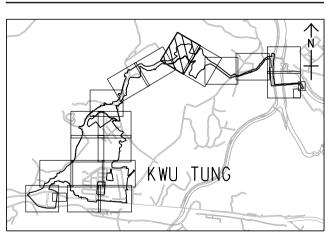
## STATUS <sub>階段</sub>

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 家引圖



## PROJECT NO. <sub>項目編號</sub>

CONTRACT NO. <sup>合約編號</sup>

60335576

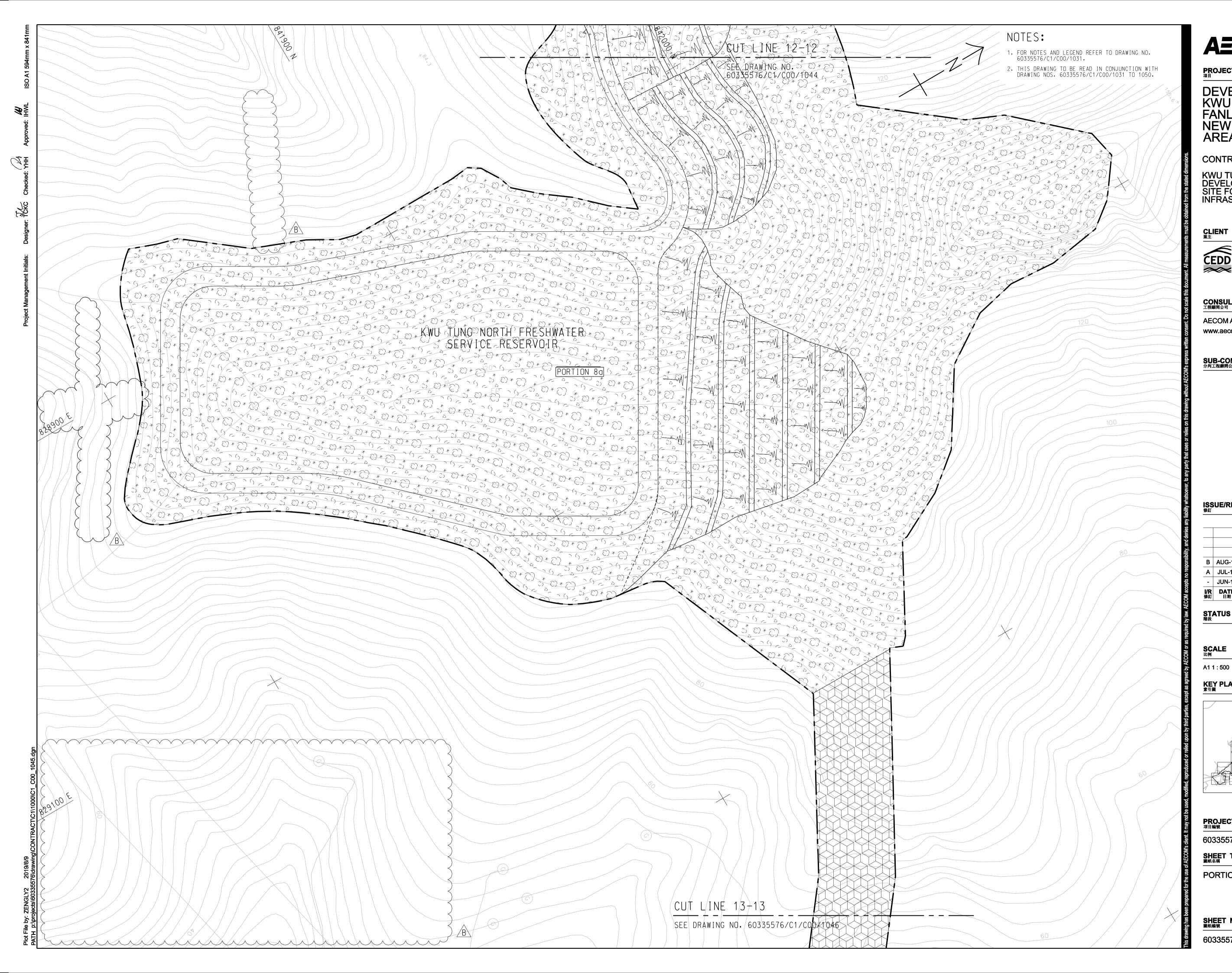
ND/2019/01

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 14 OF 19

### 60335576/C1/C00/1044





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DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

### CLIENT 業主

住 木 工 程 拓 展 署
 Civil Engineering and
 Development Department

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## ISSUE/REVISION 修訂

<b>I/R</b> 修訂	DATE 日期	<b>DESCRIPTION</b> 內容摘要	CHK. 複核
-	JUN-19	TENDER DRAWING	YHH
Α	JUL-19	<b>TENDER ADDENDUM NO. 2</b>	YHH
в	AUG-19	<b>TENDER ADDENDUM NO. 4</b>	YHH
			(In

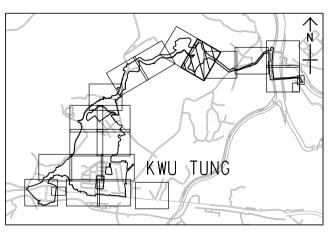
## STATUS 階段

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 家引圖



## PROJECT NO. <sub>項目編號</sub>

SHEET 15 OF 20

60335576

ND/2019/01

SHEET TITLE 圖紙名稱

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

60335576/C1/C00/1045B







DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

#### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

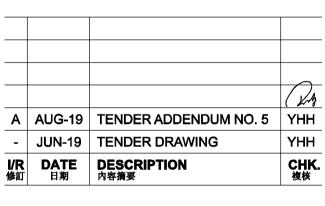
た木工程拓展署
 Civil Engineering and
 Development Department

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## SUB-CONSULTANTS 分判工程顧問公司

## ISSUE/REVISION 修訂



## STATUS 階段

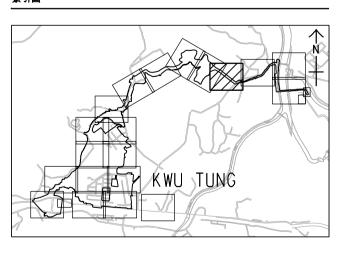
SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 *索*引圖



## PROJECT NO. <sub>項目編</sub>號

CONTRACT NO. <sup>合約編號</sup>

60335576

SHEET TITLE 圖紙名稱

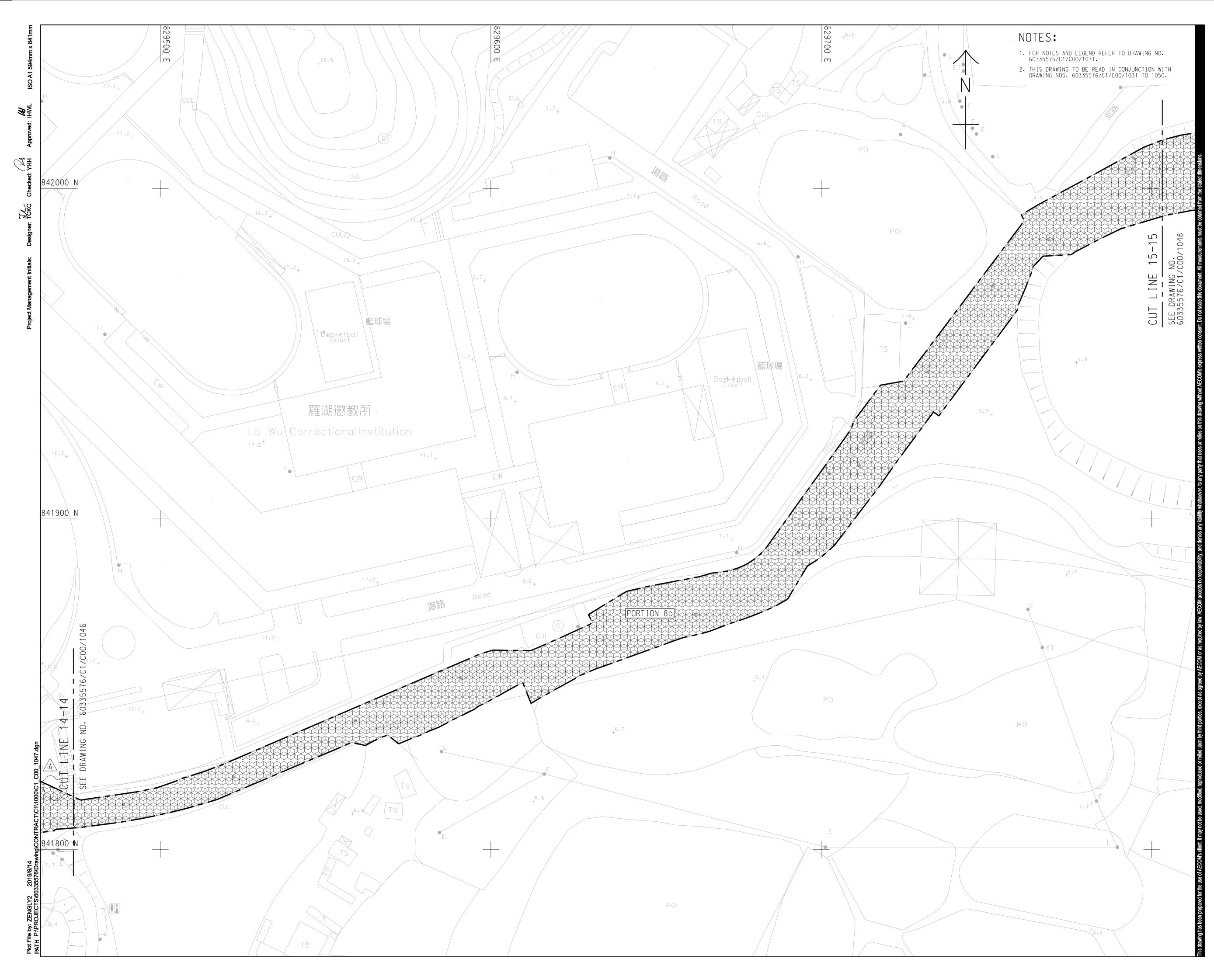
PORTION OF THE SITE

# SHEET NUMBER 圖紙編號

SHEET 16 OF 20

## 60335576/C1/C00/1046A

ND/2019/01





## PROJECT <sub>項目</sub>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

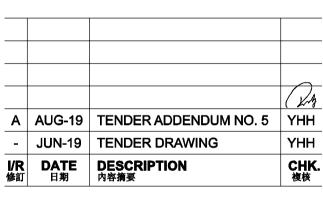
た木工程拓展署
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 Development Department

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## ISSUE/REVISION 修訂



## STATUS <sub>階段</sub>

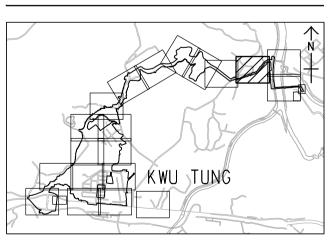
SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 *案*引圖



## PROJECT NO. <sub>項目編號</sub>

60335576

ND/2019/01

SHEET TITLE 圖紙名稱

PORTION OF THE SITE

# SHEET NUMBER 圖紙編號

60335576/C1/C00/1047A

CONTRACT NO. <sup>合約編號</sup>

SHEET 17 OF 20





DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

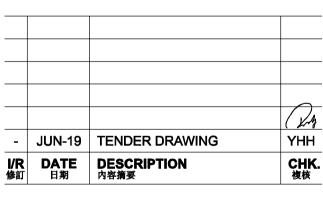


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## ISSUE/REVISION 修訂



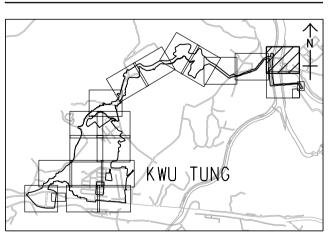
## STATUS <sub>階段</sub>

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



## PROJECT NO. <sup>項目編號</sup>

60335576

CONTRACT NO. <sup>合約編號</sup>

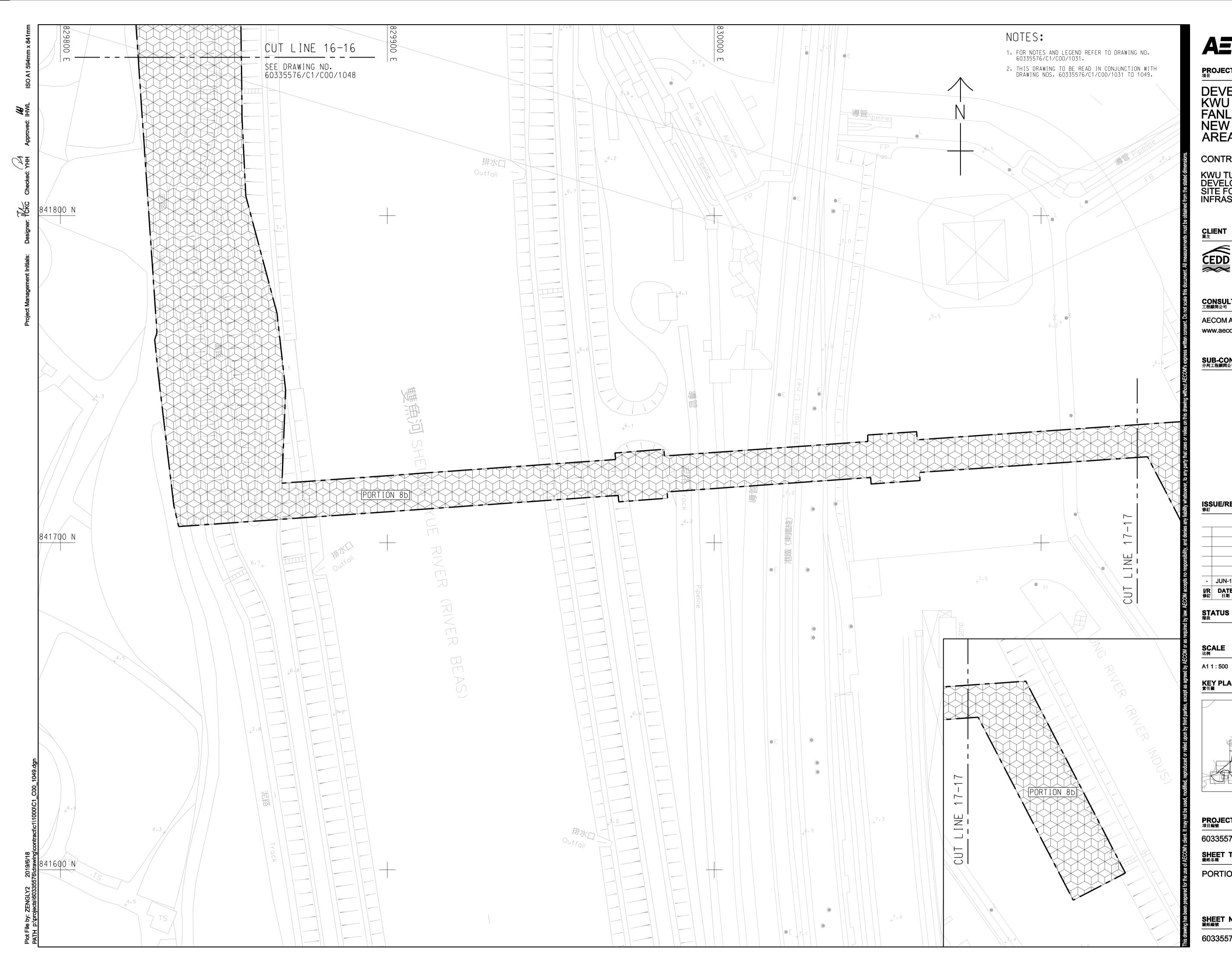
ND/2019/01

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 18 OF 19

60335576/C1/C00/1048





DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

## CLIENT <sup>業主</sup>

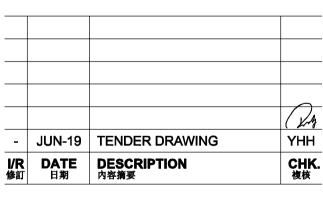
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## ISSUE/REVISION 修訂



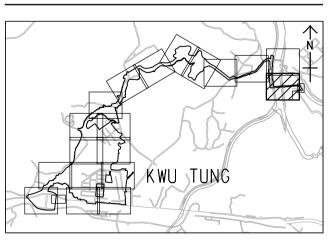
## STATUS 階段

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 *索*引圖



## PROJECT NO. <sub>項目編號</sub>

CONTRACT NO. <sup>合約編號</sup>

60335576

ND/2019/01

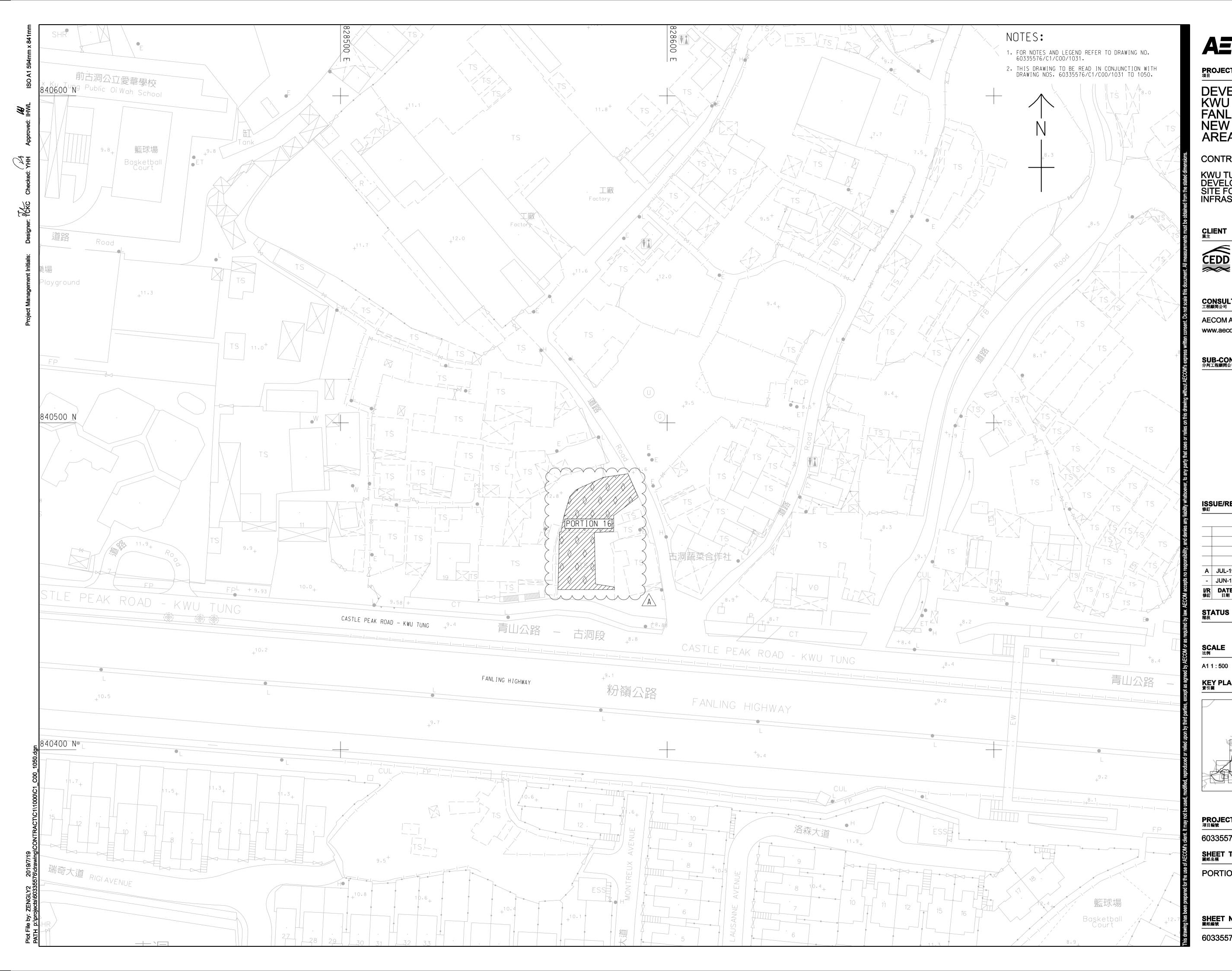
SHEET TITLE 圖紙名稱

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

SHEET 19 OF 19

60335576/C1/C00/1049





DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

### CONTRACT TITLE:

KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

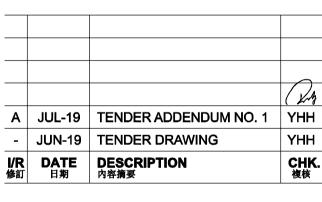
## CLIENT 業主

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## SUB-CONSULTANTS 分判工程顧問公司

## ISSUE/REVISION 修訂



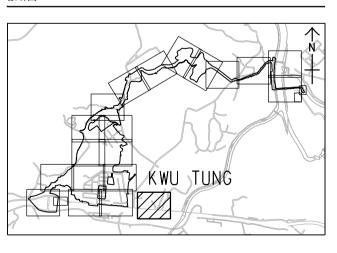
## STATUS 階段

SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 *索*引圖



## PROJECT NO. <sub>項目編號</sub>

## CONTRACT NO. <sup>合約編號</sup>

60335576

ND/2019/01

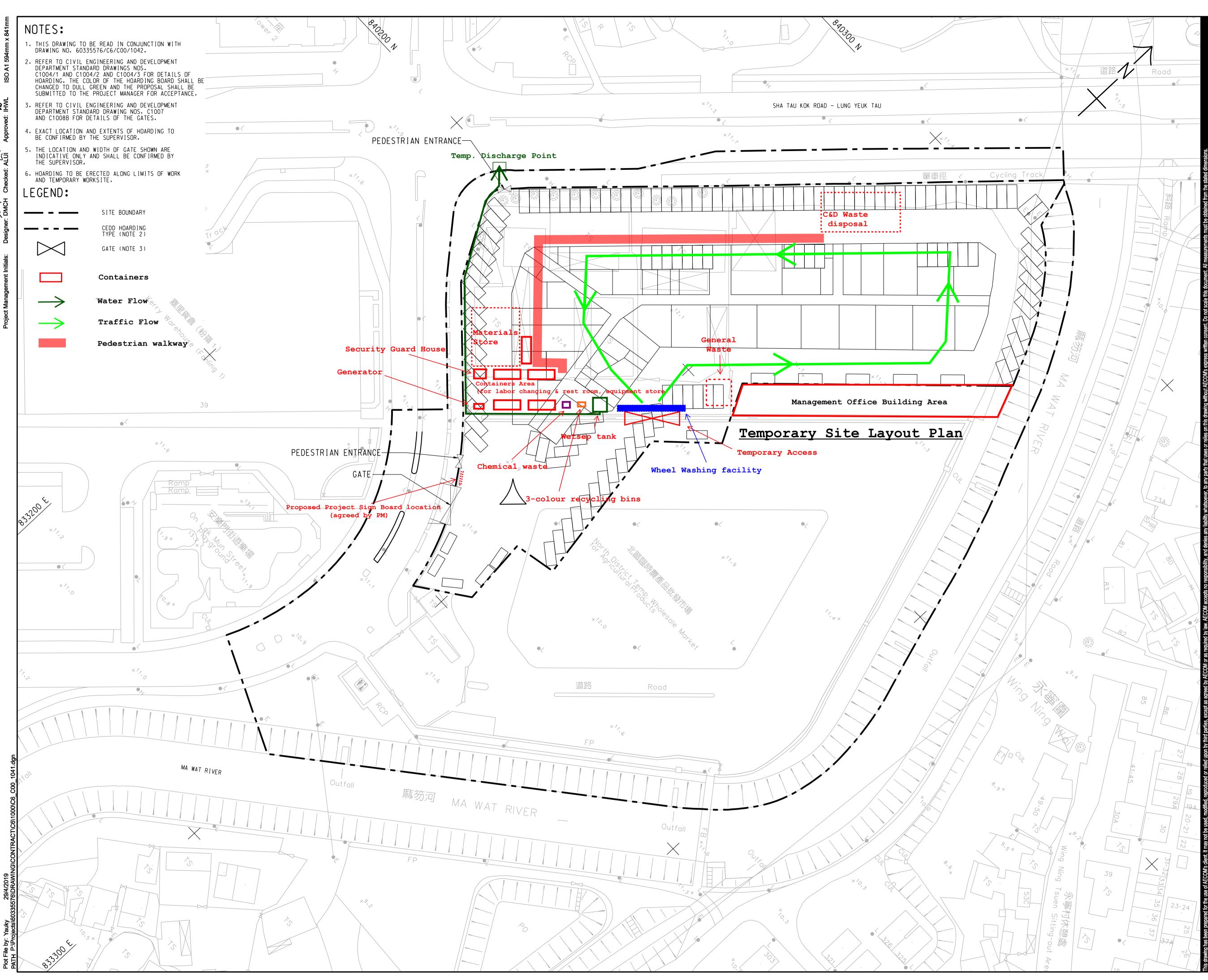
SHEET TITLE 圖紙名稱

PORTION OF THE SITE

## SHEET NUMBER 圖紙編號

60335576/C1/C00/1050A

SHEET 20 OF 20



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#### PROJECT <sup>項目</sup>

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

#### CONTRACT TITLE:

FANLING NORTH NEW DEVELOPMENT AREA, PHASE 1: REPROVISIONING OF NORTH DISTRICT TEMPORARY WHOLESALE MARKET FOR AGRICULTURAL PRODUCTS

### CLIENT <sup>業主</sup>



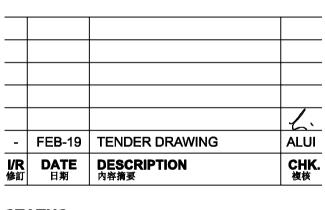
🖌 土木工程拓展署 CEDD Civil Engineering and Development Department

### CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

### SUB-CONSULTANTS 分判工程顧問公司

## ISSUE/REVISION 修訂



### STATUS <sub>階段</sub>

SCALE 比例	DIMENSION UNIT <sub>尺寸單位</sub>
A1 1 : 500	METRES

**KEY PLAN** 索引圖

## PROJECT NO. <sub>項目編號</sub>

## CONTRACT NO. <sub>合約編號</sub>

60335576

ND/2019/06

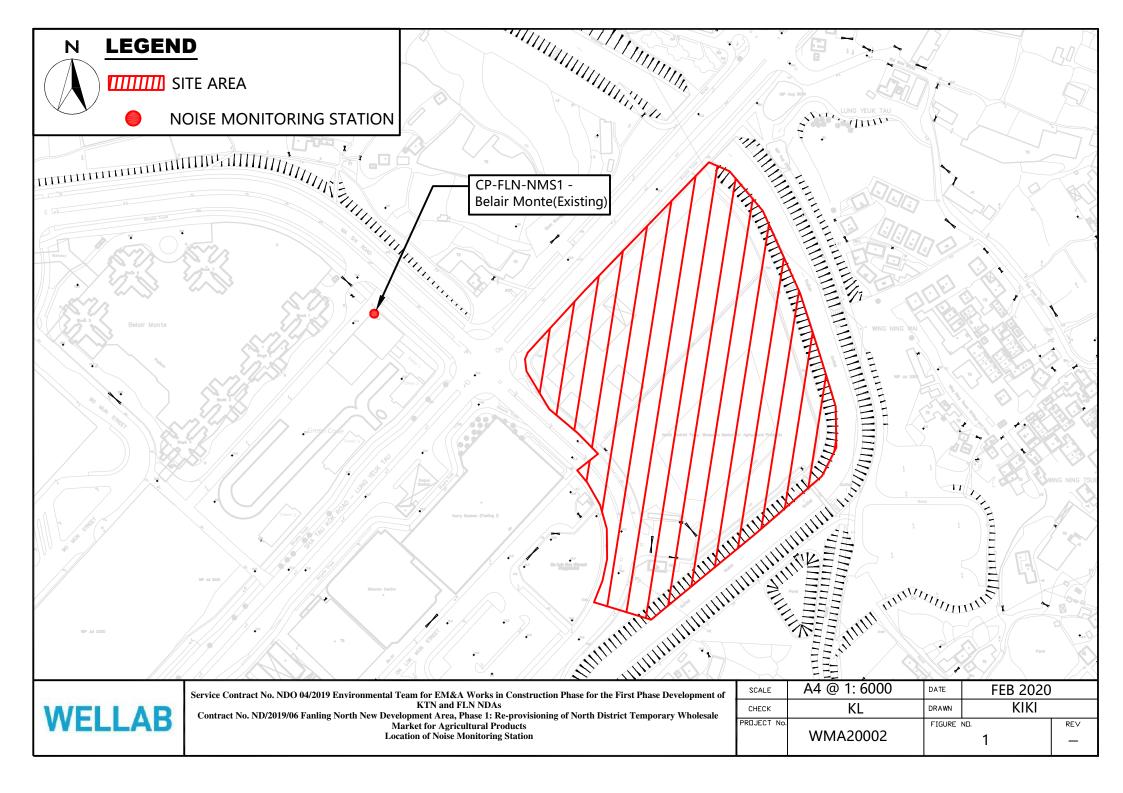
SHEET TITLE 圖紙名稱

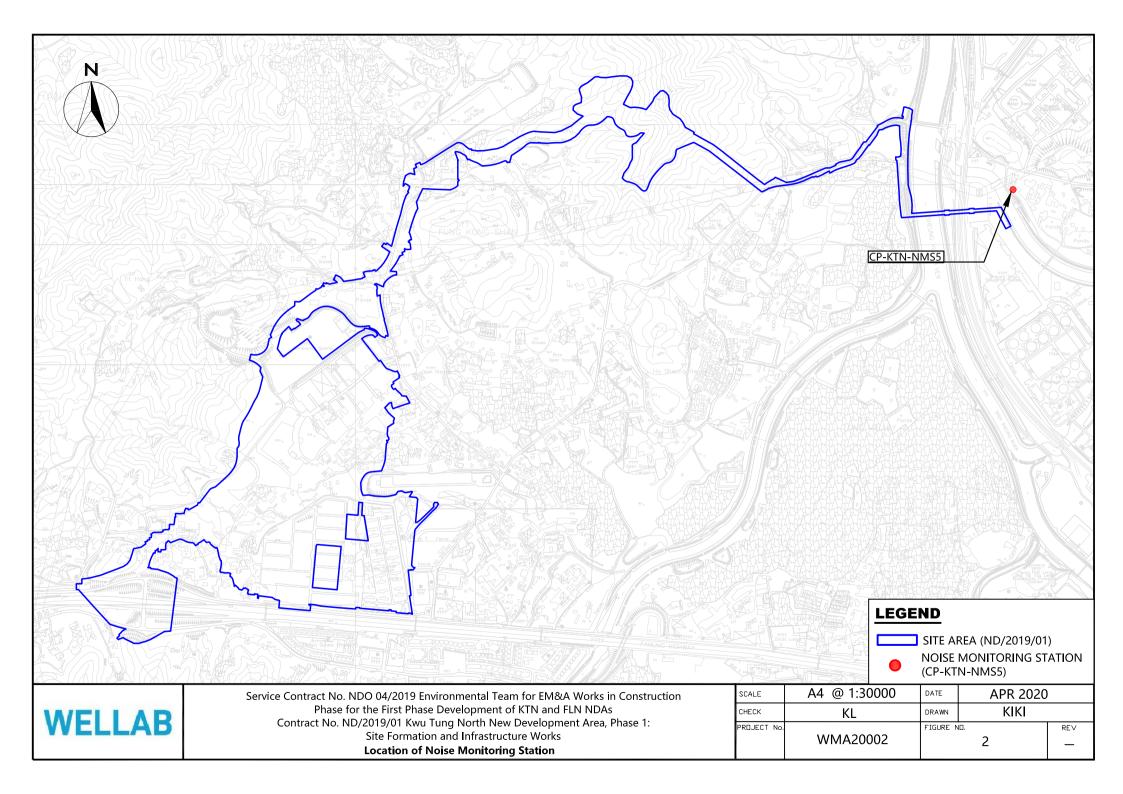
Site Layout Plan (INTERIM STAGE)

## SHEET NUMBER 圖紙編號

60335576/C6/C00/1041

FIGURE(S)



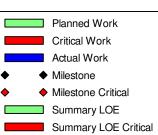


APPENDIX A CONSTRUCTION PROGRAMME

ctivity ID	Activity Name	Predecessors	Successors	Remaining Start Duration	Finish	Total Calendar Float	February 2020 02 09 16 23	March 2020 01 08 15 22	29 05
	Rolling Programme			2504 28-Nov-19 A	06-Jan-27	0			
1.0 - Contract				393 28-Nov-19 A	06-Jan-27	0 CD (7d)			
CD-1000	Contract Date		CD-1010, GS			CD (7d)			
CD-1010	Starting date	CD-1000	SC-1000, SC-	0 06-Dec-19 A		CD (7d)			
CD-1020	Contract Completion Date	SC-1000, SC-	CD-1030	0	06-Jan-26*	0 CD (7d)			
CD-1030	Contract Completion Date (with Establishment)	CD-1020		0	06-Jan-27*	0 CD (7d)			
CD-1040	Planned Completion Date (Exclude Establishment)	S16-1010, S2	CD-1020	0	10-Dec-25	28 CD (7d)			
2.0 - Site Acce				1370 23-Dec-19 A	06-Jan-24	0 CD (7d)			
AD-1000	Poriton 1a	CD-1010	S3P1a-1010,	0 06-Jul-21*		0 CD (7d)			
AD-1010	Portion 1b	CD-1010	S4AP1b-101(	0 06-Jul-21*		0 CD (7d)			
AD-1020	Portion 1c	CD-1010	S4BP1c-1010	0 06-Jan-22*		0 CD (7d)			
AD-1030	Portion 1d	CD-1010	S21P1d-1010	0 06-Jul-20*		0 CD (7d)			
AD-1040	Portion 1e - (Minor Area Handovered on 20 Feb 2020)	CD-1010	S6AP1e-101(	0 06-Apr-21*		0 CD (7d)			
AD-1050	Poriton 1f	CD-1010	S14P1f-1010	0 23-Dec-19 A		CD (7d)			
AD-1060	Portion 2	CD-1010	S8P2-1010, S			CD (7d)			
AD-1070	Portion 3	CD-1010	S8P3-1010	0 06-Apr-20*		0 CD (7d)			<ul> <li>Portio</li> </ul>
AD-1080	Portion 4 - (Major Area Handovered on 20 Feb 2020)	CD-1010	S5P4-1010, S			CD (7d)	Portion 4	- (Major Area Handovered on 20 Feb 2020)	
AD-1090	Portion 5 - (Major Area Handovered on 23 Dec 2019)	CD-1010	S2AP5-1010,	0 23-Dec-19 A		CD (7d)			
AD-1100	Poriton 6a	CD-1010	S8P6a-1010,	0 23-Dec-19 A		CD (7d)			
AD-1110	Poriton 6b	CD-1010	S11P6b-1010	0 20-Feb-20 A		CD (7d)	<ul> <li>Poriton 6</li> </ul>	0	A De de
AD-1120	Portion 7 - (Part of Area Handovered on 20 Feb 2020)	CD-1010	S3P7-1010, S	· · ·		0 CD (7d)			<ul> <li>Portio</li> </ul>
AD-1130	Portion 8a - (Major Area Handovered on 24 Dec 2019)	CD-1010	S8P8a-1010	0 24-Dec-19 A		CD (7d)			
AD-1140	Portion 8b	CD-1010	S8P8b-1010	0 24-Dec-19 A		CD (7d)			
AD-1150	Portion 9a	CD-1010	S2BP9a-101(	0 06-Jan-22*		0 CD (7d)			
AD-1160	Poriton 9b	CD-1010	S8P9b-1010,	0 06-Jul-20*		0 CD (7d)			A Division
AD-1170	Poriton 9c	CD-1010	S14P9c-1010	0 06-Apr-20*		0 CD (7d)			<ul> <li>Porito</li> </ul>
AD-1180	Poriton 9d	CD-1010	S8P9b-1010	0 06-Jul-20*		0 CD (7d)			
AD-1190	Poriotn 10a - (Major Area Handovered on 20 Feb 2020)	CD-1010	S1P10a-1040	0 06-Apr-20*		0 CD (7d)			<ul> <li>Poriot</li> </ul>
AD-1200	Poriton 10b - (Part of Area Handovered on 20 Feb 2020)	CD-1010	S12P10b-101	0 06-Jul-20*		0 CD (7d)			
AD-1210	Protion 11a	CD-1010	S21P11a-1010			0 CD (7d)			
AD-1220	Protion 11b	CD-1010	S6BP11b-101	0 06-Jan-24*		0 CD (7d)			
AD-1230	Poriton 12	CD-1010	S9P12-1010,	0 06-Jul-21*		0 CD (7d)			
AD-1240	Poriton 13	CD-1010	S14P13-1010	0 06-Jan-22*		0 CD (7d)			
AD-1250	Portion 14	CD-1010	S5P14-1010,	0 07-Dec-20*		0 CD (7d)			
AD-1260	Portion 15	CD-1010	S6AP15-101(	0 06-Jan-23*		0 CD (7d)			
AD-1270	Portion 16	CD-1010	S14P16-1010	0 02-Aug-20*		0 CD (7d)			
	Completion Date			2160 06-Feb-21	06-Jan-27	0 CD (7d)			
SC-1000	Section 1 - all works Area H except landscape works and District Cooling System related works	CD-1010, S1-		0	06-Oct-22*	0 CD (7d)			
SC-1010	Section 2A - all works in Area C1	CD-1010, S2A	CD-1020	0	06-Feb-22*	0 CD (7d)			
SC-1020	Section 2B - all works in Area C2	CD-1010, S2E		0	06-May-23*	0 CD (7d)			
SC-1030	Section 3 - all works in Area E	CD-1010, S3-	CD-1020	0	21-Feb-22*	0 CD (7d)			
SC-1040	Section 4A - all works in Area D1	CD-1010, S4-		0	06-May-23*	0 CD (7d)			
SC-1050	Section 4B - all works in Area D2	CD-1010, S14		0	21-Oct-23*	0 CD (7d)			
SC-1060	Section 4C - all works in Area D3	CD-1010, S40		0	06-Feb-23*	0 CD (7d)			
SC-1070	Section 5 - all works in Area I	CD-1010, S5-	CD-1020	0	06-Feb-21*	0 CD (7d)			
SC-1080	Section 6A - all works in Area G1	CD-1010, S6A	CD-1020	0	06-Jul-23*	0 CD (7d)			
SC-1090	Section 6B - all works in Area G2	CD-1010, S6E		0	06-Jul-25*	0 CD (7d)			
SC-1100	Section 6C - all works in Area G3	S6C-1000, CE	CD-1020	0	06-Jan-26*	0 CD (7d)			
SC-1110	Section 7 - all works in Area K	CD-1010, S7-	CD-1020	0	06-Mar-23*	0 CD (7d)			
SC-1120	Section 8 - all works in Area A except works under Section 18 and landscape works	CD-1010, S8-	CD-1020	0	21-Jun-24*	0 CD (7d)			
SC-1130	Section 9 - all works in Area F	CD-1010, S9-	CD-1020	0	06-Sep-22*	0 CD (7d)			
SC-1140	Section 10A - all works in Area J	CD-1010, S10	CD-1020	0	06-Jul-22*	0 CD (7d)			
SC-1150	Section 10B - all works in Area J1	CD-1010, S10	CD-1020	0	06-Apr-23*	0 CD (7d)			
SC-1160	Section 11 - all works in Area B	CD-1010, S11	CD-1020	0	06-Jan-26*	0 CD (7d)			
SC-1170	Section 12A - all works in L1 except landscape works and District Cooling System related works	CD-1010, S12	CD-1020	0	06-Oct-24*	0 CD (7d)			
SC-1180	Section 12B - all works in L2 except landscape works and District Cooling System related works	CD-1010, S12	CD-1020	0	06-Jan-26*	0 CD (7d)			
SC-1190	Section 13 - all works in Area N except landscape works	CD-1010, S13		0	06-Jan-26*	0 CD (7d)			
SC-1200	Section 14 - all remaining works not included in other section of works	CD-1010, S14	CD-1020	0	06-Jan-26*	0 CD (7d)			
SC-1210	Section 15 - preservation and protection of trees	CD-1010, S15	CD-1020	0	06-Jan-26*	0 CD (7d)			
SC-1220	Section 16 - landscape works	CD-1010, S16	CD-1020	0	06-Jan-26*	0 CD (7d)			



Joint Venture



#### ND/2019/01 - Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

Project ID: ND201901-F Lauyout: ND201901-F3N Page 1 of 5

	April 202	0				May 20	20			2020
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ortion	3									
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rtion	7 - (Part	of Area Handove	red on	20 Feb	2020)					
	(				,					
riton	9c									
riotn	10a - (Ma	ajor Area Handov	/ered o	n 20 Fe	b 202	0)				
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' MR		Date		Rev	ision		Chec	ked	Appr	oved
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tivity ID	Activity Name	Predecessors	Successors	Remaining Start Duration	Finish	Total Float		Februa 02 09	ry 2020 16	23	01	Marc 08	h 2020 15	22	29	05
SC-1230	Section 17 - establishment works	CD-1010, S17	CD-1020	0	06-Jan-27*		CD (7d)	03	10	23		00	10	22		0
SC-1240	Section 18 - the 700mm diameter water mains laying works and associated ancillary structures	CD-1010, S18	-	0	21-Jun-24*		CD (7d)									
SC-1250	Section 19A - 3x1200mm water pipes within Road L1 under Area H for District Cooling System and and	CD-1010, S19	CD-1020	0	06-Jul-22*	0	CD (7d)									
SC-1260	Section 19B - 3x1200mm water pipes within Road L1 under Area L1 for District Cooling System and an	CD-1010, S19	CD-1020	0	06-Jul-24*	0	CD (7d)									
SC-1270	Section 19C - 3x1200mm water pipes within Road L2 under Area L2 for District Cooling System and an	CD-1010, S19	CD-1020	0	06-Oct-25*	0	CD (7d)									
SC-1280	Section 20 - the consturciton of Pak Shek Au Pedestrian Subway Cum Cycle Track	CD-1010, S20	CD-1020	0	06-Jan-26*	0	CD (7d)									
SC-1290	Section 21 - all works in Area M	CD-1010, S21	CD-1020	0	06-Jan-26*	0	CD (7d)									
4.0 - Key Date				1293 06-Oct-20	21-Apr-24	0	CD (7d)									
KD-1000	KD1 609 days after starting date	CD-1010, S1k		0	06-Aug-21*	0	CD (7d)									
KD-1010	KD2 655 days after starting date	CD-1010, S7k		0	21-Sep-21*	0	CD (7d)									
KD-1020	KD3 320 days after starting date	CD-1010, S14		0	21-Oct-20*	0	CD (7d)									
KD-1030	KD4 366 days after starting date	CD-1010, S11		0	06-Dec-20*	0	CD (7d)									
KD-1040	KD5 305 days after starting date	CD-1010, S14		0	06-Oct-20*	0	CD (7d)									
KD-1050	KD6 351 days after starting date	CD-1010, S14		0	21-Nov-20*	0	CD (7d)									
KD-1060	KD7 517 days after starting date	CD-1010, S14		0	06-May-21*	0	CD (7d)									
KD-1070	KD8 1598 days after starting date	CD-1010, S8k		0	21-Apr-24*	0	CD (7d)									
KD-1080	KD9 1230 days after starting date	CD-1010, S14		0	19-Apr-23*	0	CD (7d)									
5.0 - Ordering Da	te			397 04-Mar-20	05-Apr-21	0	CD (7d)									
OD-1000	Order for Section 7 (subject to excision, within 90 days from starting date inclusive)	CD-1010	S7P14-1010,	0	04-Mar-20*	0	CD (7d)				<ul> <li>Ord</li> </ul>	ler for Section	on 7 (subje	ect to excis	sion, withi	n 90 days f
OD-1010	Order for Section 18 (subject to excision, within 487 days from starting date inclusive)	CD-1010	S18-1000, S1	0	05-Apr-21*		CD (7d)									
OD-1020	Order for Section 19A (subject to excision, within 244 days from starting date inclusive)	CD-1010	S19A-1000, S	0	05-Aug-20*	0	CD (7d)									
OD-1030	Order for Section 19B (subject to excision, within 244 days from starting date inclusive)	CD-1010	S19B-1000, S	0	05-Aug-20*	0	CD (7d)									
OD-1040	Order for Section 19C (subject to excision, within 244 days from starting date inclusive)	CD-1010	S19C-1000, §	0	05-Aug-20*	0	CD (7d)									
OD-1050	Order for Section 20 (subject to excision, within 365 days from starting date inclusive)	CD-1010	S20S1-1010	0	04-Dec-20*	0	CD (7d)									
OD-1060	Order for Section 21 (subject to excision, within 487 days from starting date inclusive)	CD-1010	S21P1b-1010	0	05-Apr-21*	0	CD (7d)									
6.0 - Preliminarie	s and General Requirements			192 28-Nov-19 A	07-Sep-20	2312	2									
6.1 - Preliminarie	9S			125 28-Nov-19 A	02-Jul-20	2379	3									
PRE-1020	Baseline Ecological Monitoring Works (by ET) (from 3/7/19 to 2/7/20)	CD-1000		125 28-Nov-19 A	02-Jul-20	2379	CD (7d)								<u> </u>	
PRE-1030	Provision of Waste Water Treatment Facilities	CD-1010	S1P10a-1040	0 01-Feb-20 A	10-Feb-20 A		CD (7d)									
PRE-1040	Erection of Interim Contractor's Site Accommodation in Additional Land near Portion 1f			0 08-Jan-20 A	21-Jan-20 A		WD (6d)									
6.2 - General Su	bmission			125 28-Nov-19 A	02-Jul-20	2379	B CD (7d)									
GS-1000	Submission of Organization Chart	CD-1010		0 06-Dec-19 A	19-Dec-19 A		CD (7d)									
GS-1010	Submission of the First Programme	CD-1000	GS-1020	0 28-Nov-19 A	11-Dec-19 A		CD (7d)									
GS-1020	Acceptance of the First Programme / Revision of First Programme	GS-1010		11 12-Dec-19 A	10-Mar-20*	5	CD (7d)									
GS-1030	Submission / Acceptance of the First Three Month Rolling Programme			11 14-Feb-20 A	10-Mar-20*	21	CD (7d)									
GS-1040	Submission of Draft Construction Health and Safety Plan	CD-1000		0 28-Nov-19 A	06-Dec-19 A		CD (7d)									
GS-1050	Submission of Construction Health and Safety Plan	CD-1000		31 07-Dec-19 A	30-Mar-20*	1	CD (7d)								-	
GS-1060	Submission of Draft Environmental Management Plan	CD-1000		0 28-Nov-19 A	06-Dec-19 A		CD (7d)									
GS-1070	Submission of Environmental Management Plan	CD-1000		0 28-Nov-19 A	31-Dec-19 A		CD (7d)									
GS-1080	Submission of Site Traffic Safety Management Plan	CD-1010		31 06-Dec-19 A	30-Mar-20*	1	CD (7d)								<b>—</b>	
GS-1100	Submission of Interface Management Plan	CD-1010	GS-1120	21 05-Mar-20*	25-Mar-20		CD (7d)									
GS-1120	Acceptance of Interface Management Plan	GS-1100	GS-1130	21 26-Mar-20	15-Apr-20	454	CD (7d)								<u> </u>	
GS-1130	Submission of Detailed Interface Document	GS-1120	GS-1140	21 16-Apr-20	06-May-20	454	CD (7d)									
GS-1140	Acceptance of Detailed Interface Document	GS-1130	S2AP5-3030,	21 07-May-20	27-May-20		CD (7d)									
GS-1150	Submission of Proposal for Security System for the site	CD-1000, SP-	PRE-1010, S	14 26-May-20	08-Jun-20	112	CD (7d)									
GS-1160	Submission of Subcontractor Management Plan	CD-1000		0 28-Nov-19 A	06-Dec-19 A		CD (7d)									
GS-1170	Submission of Site Hoarding Plan	CD-1010		0 06-Dec-19 A	27-Dec-19 A		CD (7d)									
GS-1180	Submission of Emergency Unit	CD-1010		0 06-Dec-19 A	17-Dec-19 A		CD (7d)									
GS-1190	Submission of Details for Project Manager's Site Accommodation	CD-1000, SP-	GS-1200	28 06-May-20	02-Jun-20	22	CD (7d)									
GS-1210	Submission of Subcontracting Procedure	CD-1000	GS-1220	0 28-Nov-19 A	06-Dec-19 A		CD (7d)									
GS-1220	Acceptance of Subcontracting Procedure	GS-1210	SP-1010, SP-	0 07-Dec-19 A	27-Dec-19 A		CD (7d)									
GS-1230	Submission of Major Method Statements	CD-1010		32 06-Dec-19 A	31-Mar-20*	44	CD (7d)								-	
GS-1240	Temporary Traffic Management Scheme and XP application	CD-1010, SP-	S13P2-3060,	125 04-Feb-20 A	02-Jul-20		CD (7d)									
6.3 - Subletting I	Package			192 16-Jan-20 A	07-Sep-20	510	CD (7d)									
SP-1010	Project Manager's Site Accommodation	GS-1220	PRE-1010, G	50 17-Mar-20	05-May-20	22	CD (7d)									
SP-1020	Site Hoarding	GS-1220	S14P7S3-201	67 05-Mar-20	10-May-20		CD (7d)									
SP-1030	Independent Checking Engineer Services	GS-1220	S7P14-2010,	67 14-Feb-20 A	05-May-20		CD (7d)									
SP-1040	Security System for the site	GS-1220	GS-1150	70 17-Mar-20	25-May-20	112	CD (7d)									
SP-1060	Tree Survey	GS-1220	S1P10a-1010	12 20-Jan-20 A	11-Mar-20	0	CD (7d)									
31-1000							· · /			•						



Joint Venture

Planned Work Critical Work Actual Work Milestone Milestone Critical • Summary LOE Summary LOE Critical

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#### ND/2019/01 - Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

Project ID: ND201901-FI Lauyout: ND201901-F3N Page 2 of 5

	An	ril 2020	)			May	2020		2020
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vity ID	Activity Name	Predecessors	Successors	Remaining Start Duration	Finish	Total Calendar Float	Februar	y 2020 16 23	01	Marc 08	ch 2020 15	22	29	05
SP-1080	Site Formation Works	GS-1220	S1K1-1010, S	57 16-Jan-20 A	25-Apr-20	46 CD (7d)	00				·• ]			
SP-1090	Piling Works	GS-1220	S8P5-2010, S	60 06-Apr-20	04-Jun-20	99 CD (7d)								
SP-1110	Structural Works for Retaining Wall	GS-1220	S8P2-3030, S	120 06-May-20	02-Sep-20	85 CD (7d)								
SP-1130	Drainage, Sewerage and Watermain Laying Works	GS-1220	S14K5-2010,	90 26-Apr-20	24-Jul-20	11 CD (7d)								
SP-1160	E&M works for Temporary Sewage Pumping Station	GS-1220	S7P14-2010	70 07-Mar-20	15-May-20	7 CD (7d)							_	
SP-1190	Design, Supply and Construct Community Liaison Centre by MiC Method	GS-1220	S14P16-3010	90 16-May-20	13-Aug-20	6 CD (7d)								
SP-1200	Slope Works - Soil Nailing	GS-1220	S13P2-3010,	120 11-May-20	07-Sep-20	510 CD (7d)								
SP-1240	Traffic Consultant	GS-1220	GS-1240	50 14-Feb-20 A	18-Apr-20	12 CD (7d)							<u> </u>	
SP-1250	Interim Community Liaison Centre	GS-1220	S14P1f-2010	32 22-Feb-20 A	31-Mar-20	1 CD (7d)								
SP-1260	Condition Survey	GS-1220	S1K1-1010	60 22-Feb-20 A	28-Apr-20	43 CD (7d)							<u> </u>	
7.0 - CONSTRUC	TION			1740 06-Dec-19 A	03-Dec-24	764								
Section 1				91 12-Mar-20	10-Jun-20	0								
	Area H, H1, H2 (Soil Treatment & Provision of Site Access & EVA to MV	NSC)		91 12-Mar-20	10-Jun-20	0								
	k/Tree Survey/Site Clearance/Gl	100)		91 12-Mar-20	10-Jun-20	0								
S1P10a-1010	Tree survey and prepare tree felling and transplant report	CD-1010, SP-	S1P10a 1020	30 12-Mar-20	20-Apr-20	0 WD (6d)								
S1P10a-1010	Submit and acceptance of tree felling application		S1P10a-1020	30 21-Apr-20	20-Api-20 20-May-20	0 VVD (0d) 0 CD (7d)			•					
S1P10a-1020	Tree felling, transplant and protection	S1P10a-1010 S1P10a-1020		18 21-Api-20	10-Jun-20	0 WD (6d)								
S1P10a-1040	Site clearance	AD-1190, PRE		10 06-Apr-20	20-Apr-20	0 WD (6d)								
S1P10a-1040	Ground investigation and laboratory test (7 no. Gis / 7 teams)		S1P10a-1050	· ·	05-May-20	0 WD (6d)								
S1P10a-1050 S1P10a-1060			S1P10a-1000 S1P10a-1070	11 21-Apr-20		0 WD (6d)								
	Prepare Arsenic Assessment Report			15 06-May-20	22-May-20	,								
S1P10a-1070	Arsenic Treatment Plan		S1K1-1010, S	16 23-May-20	10-Jun-20	0 WD (6d)								
S1P10a-1080	Install monitoring points withins the MWSC Site prior to the excavation works	S1P10a-1040	STK1-1010	3 21-Apr-20	23-Apr-20	39 WD (6d)								
Section 2A				161 10-Feb-20 A	07-Aug-20	2343								
	a C1 (Soil Treatment & Interface with HD's Contractors)			161 10-Feb-20 A	07-Aug-20	2343								
· ·	rk/Tree Survey/Site Clearance/GI			130 26-Feb-20 A	07-Aug-20	258 WD (6d)				·····				
S2AP5-1010	Tree survey and prepare tree felling and transplant report	AD-1090, SP-		60 12-Mar-20	27-May-20	318 WD (6d)		_						_
S2AP5-1020	Site Clearance	AD-1090	S2AP5-1030	130 26-Feb-20 A	07-Aug-20	258 WD (6d)								
	D's Contractor to carry out GI		1	93 10-Feb-20 A	31-May-20	2411 CD (7d)								
S2AP5-3010	HD's Contractor to carry out GI in Area C1 (Stage 1)	AD-1090		93 10-Feb-20 A	31-May-20	2411 CD (7d)								-
S2AP5-3020	HD's Contractor to carry out GI in Area C1 (Stage 1A/2/2A)	AD-1090	S2AP5-3030,	93 10-Feb-20 A	31-May-20	526 CD (7d)								
Section 3				60 06-Apr-20	19-Jun-20	219 WD (6d)								
Portion 7 in Are	a E (Soil Treatment & Interface with HKHS's Contractors)			60 06-Apr-20	19-Jun-20	219 WD (6d)								
Preparation wor	rk/Tree Survey/Site Clearance/GI			60 06-Apr-20	19-Jun-20	219 WD (6d)								
S3P7-1010	Tree survey and prepare tree felling and transplant report	AD-1120, SP-	S3P7-1030, S	60 06-Apr-20	19-Jun-20	219 WD (6d)								
Section 5				84 05-Mar-20	17-Jun-20	0 WD (6d)								
Portion 4 in Are	a I (Soil Treatment & Complete Temp. Noise Barriers along Castle Pea	ak Road)		84 05-Mar-20	17-Jun-20	0 WD (6d)								
Preparation wor	k/Tree Survey/Site Clearance/GI			84 05-Mar-20	17-Jun-20	0 WD (6d)								
S5P4-1010	Tree survey and prepare tree felling and transplant report	AD-1080, SP-	S5P4-1030	60 12-Mar-20	27-May-20	0 WD (6d)							_	ļ
S5P4-1020	Site Clearance	AD-1080	S5P4-1030	60 05-Mar-20	20-May-20	6 WD (6d)							<u> </u>	
S5P4-1030	Ground investigation and laboratory test (2 GI)	S5P4-1020, S		18 28-May-20	17-Jun-20	0 WD (6d)								
Section 7 (Subje				162 05-Mar-20	13-Aug-20	42								
	ea K (Complete TSPS with Associated Sewerage)			90 16-May-20	13-Aug-20	7 CD (7d)								
	Temporary Sewage Pumping Station and associated rising mains and sewe	and connect		90 16-May-20	13-Aug-20	7 CD (7d)								
Design and Civ		and connect		90 16-May-20	13-Aug-20	7 CD (7d)								
S7P14-2010	Design and approval of Temporary Sewage Pumping Station (TSPS)	OD-1000, AD-	S7P1/ 2020	90 16-May-20	13-Aug-20	7 CD (7d)								
	a K (Complete Temp. Noise Barriers along Castle Peak Road)	OD-1000, AD-	37714-2020,	48 05-Mar-20	06-May-20	119 WD (6d)								
Preparation wor		15 (000 05	0754 0040	48 05-Mar-20	06-May-20	119 WD (6d)								
S7P4-1010	Site Clearance	AD-1080, OD-	S7P4-2010	48 05-Mar-20	06-May-20	119 WD (6d)								
Section 8				798 06-Jan-20 A	06-May-22	126								
Portion 2 in Are	a A (Soil Treatment & Construction of Pak Shek Au Junction)			30 21-May-20	24-Jun-20	23 WD (6d)								
Preparation wor	k/Tree Survey/Site Clearance/GI			30 21-May-20	24-Jun-20	23 WD (6d)								
S8P2-0010	Tree Survey and prepare tree felling and transplant report	SP-1060	S8P2-1010	30 21-May-20	24-Jun-20	23 WD (6d)			1					
Portion 3 in Are	a A (Soil Treatment, Drainage & Roadwork)			60 06-Apr-20	19-Jun-20	661 WD (6d)			1					
Preparation wor	rk/Tree Survey/Site Clearance/GI			60 06-Apr-20	19-Jun-20	661 WD (6d)			1					
S8P3-1010	Site clearance	AD-1070	S8P3-1020	60 06-Apr-20	19-Jun-20	661 WD (6d)			1					
0010 1010	a A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)	1.		72 06-Apr-20	06-Jul-20	67 WD (6d)								
	a A (Soli fieathen, boled File wall, brainage & fioadwork)													
Portion 5 in Are	k/Tree Survey/Site Clearance/Gl			72 06-Apr-20	06-Jul-20	67 WD (6d)								
Portion 5 in Are		AD-1090	S8P5-2010, S	·	06-Jul-20 08-May-20	67 WD (6d) 67 WD (6d)								



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#### ND/2019/01 - Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

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April 20	20			Mav	2020		2020
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vity ID	Activity Name	Predecessors	Successors	Remaining Duration	Start	Finish	Total C Float	alendar	Februar 02 09	y 2020 16	23	01	March 08	12020 15 22	29 05
Portion 6a in A	rea A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)				15-Feb-20 A	06-Jul-20	28 W	/D (6d)							
Preparation wo	ork/Tree Survey/Site Clearance/GI			102	15-Feb-20 A	06-Jul-20	28 W	/D (6d)							
S8P6a-1010	Site clearance	AD-1100	S8P6a-2010,	45	15-Feb-20 A	25-Apr-20	28 W	/D (6d)							
S8P6a-1020	Site investigation	AD-1100, S8F	S8P6a-2010,	57	27-Apr-20*	06-Jul-20	28 W	/D (6d)							
Portion 9b & 9	d in Area A (Soil Treatment, Slope, Retaining Wall, Drainage & Roadwork)			117	10-Feb-20 A	24-Jun-20	707 0	D (7d)							
Preparation wo	ork/Tree Survey/Site Clearance/GI			117	10-Feb-20 A	24-Jun-20	707 0	D (7d)							
S8P9b-0010	Liasion with HKPF and submit proposal of protective measures for works near Lo Wu Firing Range	CD-1000	S8P9b-0020	87	10-Feb-20 A	25-May-20	707 C	D (7d)							
S8P9b-0020	Acceptance of protective measures for works near Lo Wu Firing Range	S8P9b-0010	S8P9b-0030	30	26-May-20	24-Jun-20	707 C	D (7d)							
Portion 8a in A	Area A (Soil Treatment, Reservoirs, Slope, Drainage & Roadwork)			646	06-Jan-20 A	06-May-22	41 W	/D (6d)							
Preparation wo	ork/Tree Survey/Site Clearance/Gl			646	06-Jan-20 A	06-May-22	41 W	/D (6d)							
S8P8a-1010	Form site access to Flushing Water Service Reservoir	AD-1130	S8P8a-1020,	46	06-Jan-20 A	27-Apr-20	11 W	/D (6d)							
S8P8a-1015	Site clearance	S8P8a-1010	S8K8-1010	90	28-Apr-20	14-Aug-20	41 W	/D (6d)							
S8P8a-1020	General excavation (352230m3, 4 gang with 4 20T backhoes)	S8P8a-1010,	S8P8a-3010,	600	28-Apr-20	06-May-22	41 W	/D (6d)							
S8P8a-1030	Form haul road to Flesh Water Service Reservoir	S8P8a-1010	S8K8-3010, S	150	28-Apr-20	27-Oct-20	11 W	/D (6d)							
S8P8a-1040	Ground investigation and laboratory test (6 GI)	S8P8a-1010,	S8P8a-1050	45	28-Apr-20	20-Jun-20	165 W	/D (6d)							
Portion 8b in A	Area A (Soil Treatment & Install Watermains by Trenchless / Open Trench Me	thod)		37	22-Apr-20	05-Jun-20	36 W	/D (6d)							
Preparation wo	ork/Tree Survey/Site Clearance/GI			37	22-Apr-20	05-Jun-20	36 W	/D (6d)							
S8P8b-1010	Site Clearance	AD-1140	S8P8b-4010,		22-Apr-20*	05-Jun-20	36 W	. ,							
Section 11					10-Mar-20	10-Jul-20	1386 W	. ,							
	Area B (Soil Treatment & Operation of HAC Soil Treatment Plant)				10-Mar-20	10-Jul-20	1386 W								
	ork/Tree Survey/Site Clearance/GI				10-Mar-20	10-Jun-20	1410 W	. ,							
	Tree survey and prepare tree felling and transplant report	AD-1110 SP-	S11P6b-2010		12-Mar-20	09-Apr-20	124 W	· · ·							
S11P6b-1020	Site Clearance	AD-1110, 01 -	S11P6b-1030		10-Mar-20*	09-Apr-20	124 W								
S11P6b-1030	Ground investigation and laboratory test (2 GI)		S11P6b-1040		17-Mar-20	09-Apr-20	124 W								
S11P6b-1040	Prepare Arsenic Assessment Report		S11P6b-1050		14-Apr-20	13-May-20	1410 W	. ,							
S11P6b-1050	Arsenic Treatment Plan		S11P6b-4010		14-May-20	10-Jun-20	1410 W	· · /							
	up and T&C of the High Arsenic-containing Soil Treatment Plant	311F00-1040	311100-4010		14-May-20	10-Jul-20	124 W	. ,							
S11P6b-2010	Set up, testing and commissioning high arsenic-containing soil treatment plant (KD4)	SP-1020 S11	S11P6b-1000		14-Apr-20	10-Jul-20	124 W								
Section 13		01-1020, 011	0111 00-1000		15-Feb-20 A	12-Apr-21	451 W	. ,							
	ea N (Soil Treatment, Slope, Drainage & Pak Shek Au Junction)				12-Mar-20	12-Apr-21	451 W								
	ork/Tree Survey/Site Clearance/Gl						451 W	. ,							
S13P2-1010		AD-1060, SP-	C12D2 2005		12-Mar-20 12-Mar-20	27-May-20 27-May-20	451 W								
Civil Work	Tree Survey & Site clearance for existing slope feature 2SE-B/CR148	AD-1000, SP-	513P2-3005		28-May-20	12-Apr-21	451 W	. ,							
S13P2-3005	Slopeworks for existing feature 2SE-B/CR148 (with about 450 nos. of soil nails)	AD-1060, S13	S12D2 2010		28-May-20	12-Apr-21	451 W								
	ea N (Soil Treatment, Drainage & Roadwork)	AD-1000, 313	31312-3010	_	06-Apr-20	12-Apr-21	664 W	( )							
						19-Jun-20	664 W								
S13P7-1010	ork/Tree Survey/Site Clearance/Gl Site clearance	AD-1120	S13P7-1020		06-Apr-20		_	· · ·							
		AD-1120	513P7-1020		06-Apr-20	19-Jun-20	664 W	. ,							
	Area N (Soil Treatment, Noise Barrier, Drainage & Roadwork)				15-Feb-20 A	02-Jul-20	607 W	· · ·							
-	ork/Tree Survey/Site Clearance/Gl	45.4400	04050 4000		15-Feb-20 A	02-Jul-20	607 W								
S13P6a-1010	Site clearance	AD-1100	S13P6a-1020		15-Feb-20 A	29-Apr-20	607 W		•						
S13P6a-1020	Ground investigation and laboratory test (1 Gl)		S13P6a-1030		02-May-20	19-May-20	607 W								
S13P6a-1030	Prepare Arsenic Assessment Report	S13P6a-1020	S13P6a-1040		20-May-20	02-Jul-20	607 W	/D (6d)							
Section 14					06-Jan-20 A	09-May-21	1569								
	ea P (Soil Treatment & KD3 - Tree Felling, General Site Clearance)			88	06-Apr-20	24-Jul-20	74 W								
KD3 - Tree felli	ng, general site clearance (including the berm removal / levelling and general site				06-Apr-20	24-Jul-20	74 W	. ,							
Preparation w					06-Apr-20	24-Jul-20	74 W	· · · ·							
S14P7P-1010	General site clearance for Area P (KD3)	AD-1120	S14P7P-100(		06-Apr-20	24-Jul-20	74 W								
Portion 7 in Ar	ea S3 (Soil Treatment & Operation of HAC Soil Treatment Plant)			48	06-Apr-20	05-Jun-20	24 W								
Preparation wo	ork/Tree Survey/Site Clearance/Gl			48	06-Apr-20	05-Jun-20	24 W	/D (6d)							
S14P7S3-1010	Tree survey and prepare tree felling and transplant report	AD-1120, SP-	S14P7S3-1030	) 24	06-Apr-20	08-May-20	24 W	/D (6d)							
S14P7S3-1020	Site Clearance	AD-1120	S14P7S3-1030	) 24	06-Apr-20	08-May-20	24 W	/D (6d)							
S14P7S3-1030	Ground investigation and laboratory test (6 GI)	S14P7S3-102	S14P7S3-104	24	09-May-20	05-Jun-20	24 W	/D (6d)							
Portion 7 in Ar	ea T1, T2, T3 (Soil Treatment & Temp. Noise Barrier along Castle Peak Road	i)		60	06-Apr-20	19-Jun-20	361 W	/D (6d)							
Preparation wo	ork/Tree Survey/Site Clearance/Gl			60	06-Apr-20	19-Jun-20	361 W	/D (6d)							
S14P7T-1010	Tree survey and prepare tree felling and transplant report	AD-1120, SP-	S14P7T-1020	60	06-Apr-20	19-Jun-20	361 W	/D (6d)							
Portion 6a in A	Area S2 (Soil Treatment)			96	12-Mar-20	10-Jul-20	1352 W	/D (6d)							
	ork/Tree Survey/Site Clearance/GI			96	12-Mar-20	10-Jul-20	1352 W	/D (6d)							
S14P6a-1010	Tree survey and prepare tree felling and transplant report	AD-1100, SP-	S14P6a-1020		12-Mar-20	13-May-20	1352 W								
S14P0a-1010															



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#### ND/2019/01 - Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

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tivity ID	Activity Name	Predecessors	Successors	Remaining Start	Finish	Total Calendar		February					March 2020			
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	rea S2 (Soil Treatment)			96 12-Mar-20	10-Jul-20	1352 WD (6d)										
· ·	rk/Tree Survey/Site Clearance/GI			96 12-Mar-20	10-Jul-20	1352 WD (6d)										
S14P6b-1010	Tree survey and prepare tree felling and transplant report	-, -	S14P6b-1020	48 12-Mar-20	13-May-20	1352 WD (6d)										
S14P6b-1020	Site Clearance	S14P6b-1010	S14P6b-1030	48 14-May-20	10-Jul-20	1352 WD (6d)										
Portion 1f in Ar	ea R (Soil Treatment & Construction of Interim CLC)			436 06-Jan-20 A	09-May-21	1569										
Preparation wo	rk/Tree Survey/Site Clearance/Gl			103 06-Jan-20 A	07-Jul-20	1523 WD (6d)										
S14P1f-1010	Tree survey and prepare tree felling and transplant report	AD-1050, SP-	S14P1f-2020	24 12-Mar-20	09-Apr-20	3 WD (6d)										
S14P1f-1020	Site Clearance	AD-1050	S14P1f-1030	16 06-Jan-20 A	18-Mar-20	6 WD (6d)										
S14P1f-1030	Ground investigation and laboratory test (1 Gl)	SP-1070, S14	S14P1f-1040	15 19-Mar-20	06-Apr-20	6 WD (6d)										
S14P1f-1040	Prepare Arsenic Assessment Report	S14P1f-1030	S14P1f-1050	36 07-Apr-20	23-May-20	1523 WD (6d)										
S14P1f-1050	Arsenic Treatment Plan	S14P1f-1040	S14P1f-3010	36 25-May-20	07-Jul-20	1523 WD (6d)										
Interim Commu	nity Liaison Centre (CLC)			404 01-Apr-20	09-May-21	1484										
S14P1f-2010	Submissions and approval for proposed interim CLC	CD-1010, SP-	S14P1f-2020	10 01-Apr-20	10-Apr-20	1 CD (7d)										
S14P1f-2015	Supply and delivery for proposed interim CLC	S14P1f-2010	S14P1f-2020	20 11-Apr-20	30-Apr-20	1 CD (7d)										
S14P1f-2020	Construction of interim CLC	S14P1f-2010,	S14P1f-2040	30 16-Apr-20	22-May-20	1 WD (6d)										
S14P1f-2030	Occupation of interim CLC	S14P1f-2020	S14P1f-2040	352 23-May-20	09-May-21	1484 CD (7d)										
Portion 9c in Ar	rea S1 (Soil Treatment)			60 06-Apr-20	19-Jun-20	1304 WD (6d)										
Preparation wo	rk/Tree Survey/Site Clearance/GI			60 06-Apr-20	19-Jun-20	1304 WD (6d)										
S14P9c-1010	Tree survey and prepare tree felling and transplant report	AD-1170, SP-	S14P9c-1020	60 06-Apr-20	19-Jun-20	1304 WD (6d)										
Section 15				1740 06-Dec-19 A	03-Dec-24	399 CD (7d)										
S15-1000	Presevation and protection of tree	CD-1010	S15-1010	1740 06-Dec-19 A	03-Dec-24	399 CD (7d)										
Section 21 (Sub	ject to excision)			12 23-May-20	05-Jun-20	1 WD (6d)										
Portion 1d in A	rea M (Soil Treatment & Demolition of Existing CLC)			12 23-May-20	05-Jun-20	1 WD (6d)										
Preparation wo				12 23-May-20	05-Jun-20	1 WD (6d)										
S21P1d-0010	Demolition of existing Community Liaison Centre (CLC)	S14P1f-2020		12 23-May-20	05-Jun-20*	1 WD (6d)										
8.0 - Works due t	o PMI / CE			0 20-Jan-20 A	18-Feb-20 A	WD (6d)										
PC-1010	Remove the existing un-wanted vegetation in Area 1.2 within Portion 7 (PMI No. 001, CE No. 001)			0 20-Jan-20 A	12-Feb-20 A	WD (6d)										
PC-1020	Remove the existing un-wanted vegetation in Area 1.3 within Portion 7 (PMI No. 001, CE No. 001)			0 15-Feb-20 A	18-Feb-20 A	WD (6d)										
PC-1030	Remove the existing un-wanted vegetation in Area 2 within Portion 10a (PMI No. 001, CE No. 001)			0 03-Feb-20 A	12-Feb-20 A	WD (6d)										
PC-1040	Remove the existing un-wanted vegetation in Area 3 within Portion 4 (PMI No. 001, CE No. 001)			0 05-Feb-20 A	12-Feb-20 A	WD (6d)										

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Duration 944 days 0 days & 6 0 days 0 days 0 days 0 days	Start           Fri 27 Sep '19           Fri 27 Sep '19           Fri 27 Sep '19           Thu 27 Feb '20	Finish Wed 27 Apr '22 Fri 27 Sep '19 Fri 27 Sep '19	Float O days O days		llf 1, 2020   Half 2,  F  M   A   M   J   J   A   S	2020   Half 1, 2021   Half 2, 2021   Half 3 3   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F
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o days	Sun 29 Mar '20	Sun 29 Mar '20	0 days		◆ 29/03	
0 days	Tue 27 Apr '21	Tue 27 Apr '21	0 days			27/04
365 days	Wed 28 Apr '21	Wed 27 Apr '22	0 days			*
579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	0		1
579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	0		1
0 days	Sun 29 Mar '20	Sun 29 Mar '20	0 days		<b>₩</b> 29/03	
395 days	Sun 29 Mar '20	Tue 27 Apr '21	0 days		•	
0 days	Tue 27 Apr '21	Tue 27 Apr '21	0 days			← 27/04
0 days	Fri 27 Sep '19	Fri 27 Sep '19	0 days	▶ 27/09		
365 days	Fri 27 Sep '19	Fri 25 Sep '20	0 days			
0 days	Fri 25 Sep '20	Fri 25 Sep '20	214 days			25/09
579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	0		1
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184 days	Fri 27 Sep '19	Sat 28 Mar '20	0 days	0		
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184 days	Fri 27 Sep '19	Sat 28 Mar '20	0 days	•		
0 days	Sat 28 Mar '20	Sat 28 Mar '20	0 days		<b>4</b> 28/03	
0 days	Thu 27 Feb '20	Thu 27 Feb '20	0 days		▶ 27/02	
31 days	Thu 27 Feb '20	Sat 28 Mar '20	0 days		<b>&gt;</b>	
0 days	Sat 28 Mar '20	Sat 28 Mar '20	0 days		₹ 28/03	
579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	<b>₩</b>		
60 days	Fri 27 Sep '19	Mon 25 Nov '19	0 days	<b></b>		
3 4 5 1	365 days           579 days           579 days           0 days           395 days           395 days           0 days           395 days           0 days           365 days           0 days           365 days           0 days           365 days           365 days           365 days           365 days           0 days           365 days           0 days           365 days           0 days           365 days           0 days           395 days           0 days           395 days           5           0 days           395 days           5           0 days           5           0 days           1           0 days	365 days       Wed 28 Apr '21         579 days       Fri 27 Sep '19         579 days       Fri 27 Sep '19         0 days       Sun 29 Mar '20         395 days       Sun 29 Mar '20         395 days       Sun 29 Mar '20         395 days       Sun 29 Mar '20         30       0 days       Tue 27 Apr '21         0 days       Fri 27 Sep '19         365 days       Fri 27 Sep '19 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urances - Third Party Liability urances - PII for Works pointment of Key Personnel pointment of Project Core Team (ACC Section D) oject Safety Plan vironmental Management Plan oject Quality Plan o-contractors Management Plan blic Relations Plan oject Webpage with Updating erface Management Plan e Monitoring Plan e Layout Plan including site access <b>amme</b> st programme submission view of first programme	Duration 30 days 60 days 14 days 60 days <b>579 days</b> 30 days 30 days 30 days 30 days 30 days 30 days 30 days 30 days <b>579 days</b> 30 days <b>579 days</b> <b>30 days</b> <b>579 days</b> <b>30 days</b> <b>579 days</b> <b>30 days</b>	Start         Fri 27 Sep '19         Fri 27 Sep '19	Finish         Sat 26 Oct '19         Mon 25 Nov '19         Thu 10 Oct '19         Mon 25 Nov '19 <b>Tue 27 Apr '21</b> Sat 26 Oct '19         Sat 26 Oct '19	Float O days O d		Half 1, 2020 J   F   M   A	Half 2, M   J   J   A   S	2020   Half 1, 20 S   O   N   D   J   F   M	021   Half 2, 2021  A   M   J   J   A   S   O   N   1	Half 1, 2022 D   J   F   M   A
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amme st programme submission	579 days	Fri 27 Sep '19		0 days						
st programme submission	579 days		Sat 26 Oct '19	0 days						
		Fri 27 Sep '19	Tue 27 Apr '21	0 days		+				
view of first programme	14 days	Fri 27 Sep '19	Thu 10 Oct '19	0 days						
	21 days	Fri 11 Oct '19	Thu 31 Oct '19	0 days	1					
submission of first programme	14 days	Fri 01 Nov '19	Thu 14 Nov '19	0 days						
proval of first programme	21 days	Fri 15 Nov '19	Thu 05 Dec '19	0 days	1					
pgramme updating and approval	509 days	Fri 06 Dec '19	Tue 27 Apr '21	0 days					-	
nonths rolling programme (first submission)	14 days	Fri 15 Nov '19	Thu 28 Nov '19	0 days						
nonths rolling programme (updating)	516 days	Fri 29 Nov '19	Tue 27 Apr '21	0 days					▰┦	
it, Licence and Notification	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days		+++			<b></b>	
tification to LD, EPD, PCFB, CIC & UU	14 days	Fri 27 Sep '19	Thu 10 Oct '19	0 days						
ply and approval for EPD discharge license, construction ste disposal & CNP	30 days	Fri 27 Sep '19	Sat 26 Oct '19	0 days						
intain & update discharge license, construction waste posal & CNP	549 days	Sun 27 Oct '19	Tue 27 Apr '21	0 days						
epare XP application with TTM	30 days	Fri 27 Sep '19	Sat 26 Oct '19	0 days	1					
proval of XP with TTM	90 days	Sun 27 Oct '19	Fri 24 Jan '20	0 days	1 🛛 🛨 📥					
Works	609 days	Fri 27 Sep '19	Thu 27 May '21	0 days		+++				
	nonths rolling programme (updating) it, Licence and Notification tification to LD, EPD, PCFB, CIC & UU ply and approval for EPD discharge license, construction ste disposal & CNP intain & update discharge license, construction waste posal & CNP epare XP application with TTM proval of XP with TTM	nonths rolling programme (updating)516 daysit, Licence and Notification579 daystification to LD, EPD, PCFB, CIC & UU14 daysply and approval for EPD discharge license, construction ste disposal & CNP30 daysste disposal & CNP549 daysposal & CNP30 daysspare XP application with TTM30 daysproval of XP with TTM90 days	nonths rolling programme (updating)516 daysFri 29 Nov '19it, Licence and Notification579 daysFri 27 Sep '19tification to LD, EPD, PCFB, CIC & UU14 daysFri 27 Sep '19ply and approval for EPD discharge license, construction ste disposal & CNP30 daysFri 27 Sep '19sintain & update discharge license, construction waste posal & CNP549 daysSun 27 Oct '19spare XP application with TTM30 daysFri 27 Sep '19proval of XP with TTM90 daysSun 27 Oct '19	Nonths rolling programme (updating)516 daysFri 29 Nov '19Tue 27 Apr '21it, Licence and Notification579 daysFri 27 Sep '19Tue 27 Apr '21tification to LD, EPD, PCFB, CIC & UU14 daysFri 27 Sep '19Thu 10 Oct '19ply and approval for EPD discharge license, construction ste disposal & CNP30 daysFri 27 Sep '19Sat 26 Oct '19intain & update discharge license, construction waste posal & CNP549 daysSun 27 Oct '19Tue 27 Apr '21intain & update discharge license, construction waste posal & CNP549 daysSun 27 Oct '19Tue 27 Apr '21ipproval of XP with TTM30 daysFri 27 Sep '19Sat 26 Oct '19proval of XP with TTM90 daysSun 27 Oct '19Fri 24 Jan '20	Nonths rolling programme (updating)516 daysFri 29 Nov '19Tue 27 Apr '210 daysit, Licence and Notification579 daysFri 27 Sep '19Tue 27 Apr '210 daystification to LD, EPD, PCFB, CIC & UU14 daysFri 27 Sep '19Thu 10 Oct '190 daysply and approval for EPD discharge license, construction ste disposal & CNP30 daysFri 27 Sep '19Sat 26 Oct '190 daysste disposal & CNPSat 26 Oct '190 days549 daysSun 27 Oct '19Tue 27 Apr '210 daysspare XP application with TTM30 daysFri 27 Sep '19Sat 26 Oct '190 daysproval of XP with TTM90 daysSun 27 Oct '19Fri 24 Jan '200 days	Nonths rolling programme (updating)516 daysFri 29 Nov '19Tue 27 Apr '210 daysit, Licence and Notification579 daysFri 27 Sep '19Tue 27 Apr '210 daystification to LD, EPD, PCFB, CIC & UU14 daysFri 27 Sep '19Thu 10 Oct '190 daysply and approval for EPD discharge license, construction ste disposal & CNP30 daysFri 27 Sep '19Sat 26 Oct '190 daysinitain & update discharge license, construction waste posal & CNP549 daysSun 27 Oct '19Tue 27 Apr '210 daysspare XP application with TTM30 daysFri 27 Sep '19Sat 26 Oct '190 daysproval of XP with TTM90 daysSun 27 Oct '19Fri 24 Jan '200 days	Nonths rolling programme (updating)516 daysFri 29 Nov '19Tue 27 Apr '210 daysit, Licence and Notification579 daysFri 27 Sep '19Tue 27 Apr '210 daystification to LD, EPD, PCFB, CIC & UU14 daysFri 27 Sep '19Thu 10 Oct '190 daysply and approval for EPD discharge license, construction ste disposal & CNP30 daysFri 27 Sep '19Sat 26 Oct '190 daysinitain & update discharge license, construction waste posal & CNP549 daysSun 27 Oct '19Tue 27 Apr '210 daysepare XP application with TTM30 daysFri 27 Sep '19Sat 26 Oct '190 daysproval of XP with TTM90 daysSun 27 Oct '19Fri 24 Jan '200 days	nonths rolling programme (updating) 516 days Fri 29 Nov '19 Tue 27 Apr '21 0 days it, Licence and Notification 579 days Fri 27 Sep '19 Tue 27 Apr '21 0 days tification to LD, EPD, PCFB, CIC & UU 14 days Fri 27 Sep '19 Thu 10 Oct '19 0 days ply and approval for EPD discharge license, construction 30 days Fri 27 Sep '19 Sat 26 Oct '19 0 days ste disposal & CNP intain & update discharge license, construction waste 549 days Sun 27 Oct '19 Tue 27 Apr '21 0 days posal & CNP posal & CNP proval of XP with TTM 90 days Sun 27 Oct '19 Fri 24 Jan '20 0 days	nonths rolling programme (updating) it, Licence and Notification 579 days it, Licence and Notification 579 days 579 days Fri 27 Sep '19 Tue 27 Apr '21 0 days 0 days	nonths rolling programme (updating) it, Licence and Notification 579 days 579 days 571 27 Sep '19 5at 26 Oct '19 5at 26

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				Detailed P	rogramme		
	WBS	Activities	Duration	Start	Finish	Float	if 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2 A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M
52	4.1	Set up PM and Contractor site accomodation including securit and trip ticket system	y 75 days	Fri 27 Sep '19	Tue 10 Dec '19	504 days	
3	4.2	Initial survey	21 days	Fri 27 Sep '19	Thu 17 Oct '19	0 days	
ł	4.3	Tree survey	21 days	Fri 27 Sep '19	Thu 17 Oct '19	0 days	
5	4.4	Condition survey	21 days	Fri 27 Sep '19	Thu 17 Oct '19	0 days	
5	4.5	Ground investigation borehole & installation of geotechnical instrumentation	30 days	Sun 27 Oct '19	Mon 25 Nov '19	124 days	GI fig=
7	4.6	Site monitoring	558 days	Fri 18 Oct '19	Tue 27 Apr '21	0 days	
3	4.7	As-built record	30 days	Wed 28 Apr '21	Thu 27 May '21	0 days	
)	4.8	Coordination with CLP	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	
)	4.9	Coordination with TBE company	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	
	4.10	Coordination with interface contractor	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	
2	4.11	Final hoarding removal	30 days	Wed 28 Apr '21	Thu 27 May '21	0 days	
3	5	Portion 1	184 days	Fri 27 Sep '19	Sat 28 Mar '20	0 days	│ ┡ <mark>╓─┼──┼┤</mark> ┓│
ł	5.1	Submission	114 days	Fri 27 Sep '19	Sat 18 Jan '20	0 days	
i	5.1.1	Generic material submission	114 days	Fri 27 Sep '19	Sat 18 Jan '20	0 days	
	5.1.2	Hoarding for Portion 1	30 days	Fri 27 Sep '19	Sat 26 Oct '19	0 days	
	5.1.3	Temporary drainage diversion	60 days	Fri 27 Sep '19	Mon 25 Nov '19	124 days	
3	5.1.4	ELS in Portion 1	90 days	Fri 27 Sep '19	Wed 25 Dec '19	0 days	
)	5.1.5	Temporary lighting submission	90 days	Fri 27 Sep '19	Wed 25 Dec '19	0 days	
)	5.1.6	Drain laying submission	90 days	Fri 27 Sep '19	Wed 25 Dec '19	0 days	
l	5.1.7	Road paving submission	90 days	Fri 27 Sep '19	Wed 25 Dec '19	0 days	
2	5.2	Construction	184 days	Fri 27 Sep '19	Sat 28 Mar '20	0 days	
	5.2.1	Mobilization and site setup	30 days	Fri 27 Sep '19	Sat 26 Oct '19	0 days	
1	5.2.2	Hoarding for Portion 1	60 days	Sun 27 Oct '19	Wed 25 Dec '19	94 days	╽╷╷╷┿━┿┿╉╸┤
i	5.2.3	General site clearance	35 days	Sat 26 Oct '19	Fri 29 Nov '19	0 days	
5	5.2.4	Tree felling	10 days	Sat 30 Nov '19	Mon 09 Dec '19	46 days	
7	5.2.5	Removal of hard paving	70 days	Sat 16 Nov '19	Fri 24 Jan '20	0 days	Excavator with breaker
3	5.2.6	Underground pipelaying for drainage/sewerage & watermain	35 days	Thu 26 Dec '19	Wed 29 Jan '20	0 days	
)	5.2.6.1	Excavation	21 days	Thu 26 Dec '19	Wed 15 Jan '20	0 days	
)	5.2.6.2	Manhole construction	21 days	Sun 29 Dec '19	Sat 18 Jan '20	0 days	
ľ	劑業集團(J New Concepts	Critical Split Task 보版)有限公司 Holdings Limited	Milest	one 🔶	Summary	Critical	Slack
ma	arks: Healt	th and safety requirements has all been included in this prog	ramme				Date: 10 March 2 Page 3 o

			Detailed P	rogramme		
WBS	Activities	Duration	Start	Finish	Float	lif 2, 2019   Half 1, 2020   Half 2, 2020   Half 1, 2021   Half 2, 2021   Half 1, 20 A   S   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F   M
<sup>91</sup> <b>5.2.6.3</b>	Pipe laying	21 days	Fri 03 Jan '20	Thu 23 Jan '20	0 days	
<sup>92</sup> 5.2.6.4	Backfilling	21 days	Mon 06 Jan '20	Sun 26 Jan '20	0 days	
<sup>93</sup> 5.2.6.5	Testing including CCTV inspection	3 days	Mon 27 Jan '20	Wed 29 Jan '20	0 days	
<sup>94</sup> <b>5.2.7</b>	Underground cable duct laying	58 days	Mon 16 Dec '19	Tue 11 Feb '20	0 days	
<sup>95</sup> 5.2.7.1	Excavation	42 days	Mon 16 Dec '19	Sun 26 Jan '20	0 days	
<sup>96</sup> 5.2.7.2	Draw pit construction	42 days	Fri 20 Dec '19	Thu 30 Jan '20	0 days	
<sup>97</sup> 5.2.7.3	Duct laying	42 days	Fri 27 Dec '19	Thu 06 Feb '20	0 days	
<sup>98</sup> 5.2.7.4	Backfilling	42 days	Wed 01 Jan '20	Tue 11 Feb '20	0 days	
<sup>99</sup> <b>5.2.8</b>	Temporary lighting and water pipe installation	104 days	Mon 16 Dec '19	Sat 28 Mar '20	0 days	
00 5.2.8.1	Excavation	42 days	Mon 16 Dec '19	Sun 26 Jan '20	0 days	
<sup>01</sup> 5.2.8.2	Footing construction	49 days	Sat 11 Jan '20	Fri 28 Feb '20	0 days	
<sup>02</sup> 5.2.8.3	Drawpit construction and cable duct / water pipe laying	49 days	Sat 11 Jan '20	Fri 28 Feb '20	0 days	
<sup>03</sup> <b>5.2.8.4</b>	Water pipe laying	49 days	Sat 11 Jan '20	Fri 28 Feb '20	0 days	
<sup>04</sup> 5.2.8.5	Temporary Lamp post erection	21 days	Sat 29 Feb '20	Fri 20 Mar '20	0 days	
<sup>05</sup> 5.2.8.6	Temporary lighting and other cable laying	7 days	Thu 19 Mar '20	Wed 25 Mar '20	0 days	
<sup>06</sup> 5.2.8.7	Testing & commissioning on temporary lighting	3 days	Thu 26 Mar '20	Sat 28 Mar '20	0 days	
<sup>07</sup> 5.2.9	Hard paving works and road marking	55 days	Mon 03 Feb '20	Sat 28 Mar '20	0 days	Ť=+-
<sup>.08</sup> 5.2.9.1	Site formation works to hard paving and U-channel	40 days	Mon 03 Feb '20	Fri 13 Mar '20	0 days	
<sup>09</sup> 5.2.9.2	Hard paving works and road kerb	40 days	Thu 13 Feb '20	Mon 23 Mar '20	0 days	
<sup>10</sup> 5.2.9.3	Water point installation	5 days	Thu 19 Mar '20	Mon 23 Mar '20	5 days	
<sup>11</sup> <b>5.2.9.4</b>	Road marking	5 days	Tue 24 Mar '20	Sat 28 Mar '20	0 days	
<sup>12</sup> 6	Portion 2	184 days	Fri 27 Sep '19	Sat 28 Mar '20	0 days	
<sup>13</sup> 6.1	Submission	120 days	Fri 27 Sep '19	Fri 24 Jan '20	33 days	
<sup>14</sup> 6.1.1	Submission (completed in Portion 1)	120 days	Fri 27 Sep '19	Fri 24 Jan '20	33 days	
<sup>15</sup> 6.2	Construction	31 days	Thu 27 Feb '20	Sat 28 Mar '20	0 days	
<sup>16</sup> 6.2.1	Temporary lighting and water pipe installation	31 days	Thu 27 Feb '20	Sat 28 Mar '20	0 days	
<sup>17</sup> 6.2.1.1	Excavation	10 days	Thu 27 Feb '20	Sat 07 Mar '20	0 days	
<sup>18</sup> 6.2.1.2	Footing construction	12 days	Tue 03 Mar '20	Sat 14 Mar '20	0 days	
<sup>19</sup> 6.2.1.3	Drawpit construction and cable duct / water pipe laying	12 days	Tue 03 Mar '20	Sat 14 Mar '20	0 days	
<sup>20</sup> 6.2.1.4	Temporary Lamp post erection	7 days	Sun 15 Mar '20	Sat 21 Mar '20	0 days	
New Concepts	た 成) 有 限 会 司 S Holdings Limited	Milesto	one III III III III III III III III III I	Summary	Critical	ical Slack Date: 10 March 20 Page 4 of

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			Detailed P	rogramme		
BS	Activities	Duration	Start	Finish	Float	If 2, 2019         Half 1, 2020         Half 2, 2020         Half 1, 2021         Half 2, 2021         Half 1, 2021           A   S   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   M   M   J   J   A   S   O   N   D   J   F   M   M   M   M   M   M   M   M   M
.2.1.5	Temporary lighting and other cable laying	4 days	Sun 22 Mar '20	Wed 25 Mar '20	0 days	
.2.1.6	Testing & commissioning on temporary lighting	3 days	Thu 26 Mar '20	Sat 28 Mar '20	0 days	
.2.2	Hard paving works and road marking	18 days	Wed 11 Mar '20	Sat 28 Mar '20	0 days	
.2.2.1	Site formation works to hard paving and U-channel	12 days	Wed 11 Mar '20	Sun 22 Mar '20	0 days	
.2.2.2	Hard paving works and road kerb	12 days	Sat 14 Mar '20	Wed 25 Mar '20	0 days	
.2.2.3	Water point installation	5 days	Sat 21 Mar '20	Wed 25 Mar '20	3 days	
.2.2.4	Road marking	3 days	Thu 26 Mar '20	Sat 28 Mar '20	0 days	
.2.3	Other works	18 days	Wed 11 Mar '20	Sat 28 Mar '20	0 days	
.2.3.1	Temporary office and notice board erection	18 days	Wed 11 Mar '20	Sat 28 Mar '20	0 days	
.2.3.2	Guard booth erection	18 days	Wed 11 Mar '20	Sat 28 Mar '20	0 days	
.2.3.3	Drop bar system installation	15 days	Wed 11 Mar '20	Wed 25 Mar '20	0 days	
.2.3.4	Drop bar system testing & commissioning	-	Thu 26 Mar '20	Sat 28 Mar '20	0 days	
	Portion 3	609 days	Fri 27 Sep '19		-	
.1	Submission	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	
.1.1	Material submission & testing	60 days	Fri 27 Sep '19	Mon 25 Nov '19	124 days	
.1.2	BIM execution plan with team leader	90 days	Fri 27 Sep '19	Wed 25 Dec '19	0 days	
.1.3	CSD & CBWD submission	60 days	Fri 27 Sep '19	Mon 25 Nov '19	30 days	
.1.4	Shop drawing for steel structure	90 days	Fri 27 Sep '19	Wed 25 Dec '19	30 days	
.1.5	Method statement for mini-pile	30 days	Fri 05 Jun '20	Sat 04 Jul '20	0 days	
.1.6	Method statement for piled retaining wall	30 days	Tue 01 Dec '20	Wed 30 Dec '20	0 days	
.1.7	Method statement for soil retaining wall	30 days	Fri 02 Oct '20	Sat 31 Oct '20	0 days	
.1.8		30 days	Fri 02 Oct '20	Sat 31 Oct '20	0 days	
.1.9	BIM model submission	-	Thu 26 Dec '19	Mon 09 Mar '20	0 days	
.1.10	Final BIM model submission	75 days	Fri 12 Feb '21	Tue 27 Apr '21	0 days	
.2	Construction	425 days	Sun 29 Mar '20	Thu 27 May '21	0 days	
.2.1	Site clearance	30 days	Sun 29 Mar '20	Mon 27 Apr '20	0 days	
.2.2	Hoarding for Portion 3	30 days	Sun 29 Mar '20	Mon 27 Apr '20	0 days	
.2.3	Project signboard		Sun 29 Mar '20	Mon 27 Apr '20	0 days	
.2.4	Removal of refuse collection point	53 days	Fri 01 May '20	Mon 22 Jun '20	0 days	
.2.5	Fabrication of steel structure	210 days	Sun 29 Mar '20	Sat 24 Oct '20	0 days	
.2.6	Ground investigation borehole (3 nos.)	35 days	Sun 29 Mar '20	Sat 02 May '20	0 days	→ GI rīg
.2.7	Excavation for plate load test	1 day	Sun 29 Mar '20	Mon 27 Apr '20	0 days	
22 22 22 22 22 22 22 22 22 22 22 22 21 11 1	2.1.6 2.2.1 2.2.2 2.2.3 2.2.4 2.3 2.3.1 2.3.2 2.3.3 2.3.4 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10 2.1 2.2 2.3 2.4 2.3	2.1.6Testing & commissioning on temporary lighting2.2.1Testing & commissioning on temporary lighting2.2.1Site formation works and road marking2.2.2Hard paving works and road kerb2.2.3Water point installation2.2.4Road marking2.3Other works2.3.1Temporary office and notice board erection2.3.2Guard booth erection2.3.3Drop bar system installation2.3.4Drop bar system installation2.3.5Portion 33Submission1.1Material submission & testing1.2BIM execution plan with team leader1.3CSD & CBWD submission1.4Shop drawing for steel structure1.5Method statement for mini-pile1.6Method statement for soil retaining wall1.7Method statement for soil retaining wall1.8ELS design for soil retaining wall1.9BIM model submission2.1Site clearance2.2Hoarding for Portion 32.3Project signboard2.4Removal of refuse collection point2.5Fabrication of steel structure	21.6Testing & commissioning on temporary lighting3 days2.2Hard paving works and road marking18 days2.2.1Site formation works to hard paving and U-channel12 days2.2.2Hard paving works and road kerb12 days2.2.3Water point installation5 days2.2.4Road marking3 days2.3Other works18 days2.3.1Temporary office and notice board erection18 days2.3.2Guard boath erection18 days2.3.3Drop bar system installation15 days2.3.4Drop bar system installation15 days2.3.3Drop bar system installation15 days2.3.4Drop bar system testing & commissioning3 days2.3.4Drop bar system testing & commissioning60 days2.3.4Submission & testing60 days1.1Material submission & testing60 days1.2BIM execution plan with team leader90 days1.3CSD & CBWD submission60 days1.4Shop drawing for steel structure90 days1.5Method statement for mini-pile30 days1.6Method statement for soil retaining wall30 days1.7Method statement for soil retaining wall30 days1.8ELS design for soil retaining wall30 days1.9BIM model submission75 days2.1Site clearance30 days2.2Hoarding for Portion 330 days2.3Project signboard30 days<	2.1.6Testing & commissioning on temporary lighting3 daysThu 26 Mar '202.2Hard paving works and road marking18 daysWed 11 Mar '202.2.1Site formation works to hard paving and U-channel12 daysSat 14 Mar '202.2.2Hard paving works and road kerb12 daysSat 14 Mar '202.2.3Water point installation5 daysSat 21 Mar '202.2.4Road marking3 daysThu 26 Mar '202.3.3Other works18 daysWed 11 Mar '202.3.4Road marking18 daysWed 11 Mar '202.3.5Guard booth erection18 daysWed 11 Mar '202.3.6Guard booth erection18 daysWed 11 Mar '202.3.1Temporary office and notice board erection18 daysWed 11 Mar '202.3.3Drop bar system installation15 daysWed 11 Mar '202.3.4Drop bar system testing & commissioning3 daysThu 26 Mar '202.3.4Drop bar system testing & commissioning3 daysFri 27 Sep '191.1Material submission & testing60 daysFri 27 Sep '191.2BIM execution plan with team leader90 daysFri 27 Sep '191.3CSD & CBWD submission60 daysFri 27 Sep '191.4Shop drawing for steel structure90 daysFri 02 Jur '201.5Method statement for piled retaining wall30 daysFri 02 Oct '201.6Method statement for soil retaining wall30 daysFri 02 Oct '201.7Method statem	Parting & commissioning on temporary lighting3 daysThu 26 Mar '20Sat 28 Mar '202.2Hard paving works and road marking18 daysWed 11 Mar '20Sat 28 Mar '202.2.1Site formation works to hard paving and U-channel12 daysWed 11 Mar '20Sup 22 Mar '202.2.2Hard paving works and road kerb12 daysSat 14 Mar '20Wed 25 Mar '202.2.3Water point installation5 daysSat 21 Mar '20Wed 25 Mar '202.2.4Road marking3 daysThu 26 Mar '20Sat 28 Mar '202.3Other works18 daysWed 11 Mar '20Sat 28 Mar '202.3.4Temporary office and notice board erection18 daysWed 11 Mar '20Sat 28 Mar '202.3.3Drop bar system installation15 daysWed 11 Mar '20Sat 28 Mar '202.3.4Drop bar system installation15 daysWed 11 Mar '20Sat 28 Mar '202.3.3Drop bar system installation15 daysFri 27 Sep '19Thu 27 May '211.4Submission509 daysFri 27 Sep '19Thu 27 May '211.1Material submission & testing60 daysFri 27 Sep '19Mon 25 Nov '191.2BIM execution plan with team leader90 daysFri 27 Sep '19Mon 25 Nov '191.3CSD & CBWD submission60 daysFri 27 Sep '19Mon 25 Nov '191.4Shop drawing for steel structure90 daysFri 27 Sep '19Mon 25 Nov '191.5Method statement for piled retaining wall30 daysFri 02 Cut '20	PartialThu 2 f Mar '20Sat 28 Mar '200 days2.2.1Testing & commissioning on temporary lighting3 daysThu 2 f Mar '20Sat 28 Mar '200 days2.2.2Hard paving works and road marking12 daysWed 11 Mar '20Sat 28 Mar '200 days2.2.2Hard paving works and road kerb12 daysSat 11 Mar '20Wed 25 Mar '200 days2.2.3Water point installation5 daysSat 21 Mar '20Wed 25 Mar '200 days2.2.4Road marking3 daysThu 26 Mar '20Sat 28 Mar '200 days2.2.4Road marking3 daysThu 26 Mar '20Sat 28 Mar '200 days2.3.1Temporary office and notice board erection18 daysWed 11 Mar '20Sat 28 Mar '200 days2.3.2Guard booth erection18 daysWed 11 Mar '20Sat 28 Mar '200 days2.3.3Drop bar system installation15 daysWed 11 Mar '20Sat 28 Mar '200 days2.3.4Drop bar system installation15 daysWed 11 Mar '20Sat 28 Mar '200 days2.3.4Drop bar system testing & commissioning3 daysThu 26 Mar '20Sat 28 Mar '200 days2.3.4Drop bar system testing & commissioning60 daysFri 27 Sep '19Thu 27 May '210 days1.4Submission & testing60 daysFri 27 Sep '19Mon 25 Nor '1912 days1.2BlM execution plan with team leader90 daysFri 27 Sep '19Mon 25 Nor '1930 days1.3CS

**Detailed Programme** WBS Finish Float lf 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022 ID Activities Duration Start A S O N D J F M A M J J A S O N D J F M A M J J A S O N D M A M J J A S O N D J F M A M 153 7.2.8 Plate load test for canopy footings 30 days Fri 03 Apr '20 Sat 02 May '20 0 days Crane lorry <sup>154</sup> 7.2.9 30 days Underground pipelaying for drainage/sewerage Wed 17 Jun '20 Thu 16 Jul '20 0 days 155 7.2.9.1 20 days Wed 17 Jun '20 Mon 06 Jul '20 Excavation 0 days <sup>156</sup> 7.2.9.2 Manhole construction 20 days Sat 20 Jun '20 Thu 09 Jul '20 0 days <sup>157</sup> 7.2.9.3 Pipe laying 20 days Thu 25 Jun '20 Tue 14 Jul '20 0 days <sup>158</sup> 7.2.9.4 Sun 28 Jun '20 Backfilling 19 days Thu 16 Jul '20 0 days 159 7.2.10 Underground cable duct and water pipe laying Excavator 30 days Wed 17 Jun '20 Thu 16 Jul '20 0 days 녹 Crane lorry 160 7.2.11 Construction of canopy footing 35 days Sun 03 May '20 Sat 06 Jun '20 0 days <sup>161</sup> **7.2.12** Hard paving works 30 days Fri 17 Jul '20 Sat 15 Aug '20 0 days <sup>162</sup> 7.2.12.1 Site formation works for hard paving 25 days Fri 17 Jul '20 Mon 10 Aug '20 0 days 163 7.2.12.2 Paving works for steel canopy 25 days Wed 22 Jul '20 Sat 15 Aug '20 0 days 164 7.2.13 Steel canopy 315 days Fri 17 Jul '20 Thu 27 May '21 0 days 165 7.2.13.1 Delivery of steel structure 150 days Fri 17 Jul '20 Sun 13 Dec '20 0 days <sup>166</sup> 7.2.13.2 Erection of steel structure (column) 150 days Sat 01 Aug '20 Mon 28 Dec '20 0 days Mobile crane <sup>167</sup> 7.2.13.3 Mobile crane Erection of steel structure (roof) 120 days Wed 30 Sep '20 Wed 27 Jan '21 0 davs <sup>168</sup> 7.2.13.4 Application of FRP paint Sun 29 Nov '20 Tue 12 Jan '21 45 days 0 davs <sup>169</sup> 7.2.13.5 Erection of roof deck and skylight 140 days Sat 14 Nov '20 Fri 02 Apr '21 0 days <sup>170</sup> **7.2.13.6** Tue 27 Apr '21 Installation of solar panel 105 days Wed 13 Jan '21 0 days <sup>171</sup> 7.2.13.7 Testing and commissioning on solar panel 30 days Wed 28 Apr '21 Thu 27 May '21 0 days <sup>172</sup> 7.2.14 **Piled retaining wall** 279 days Sun 05 Jul '20 Fri 09 Apr '21 0 days <sup>173</sup> 7.2.14.1 GI rig Predrilling 10 davs Sun 05 Jul '20 Tue 14 Jul '20 0 davs <sup>174</sup> 7.2.14.2 Minipile rig Wed 15 Jul '20 Mini-pile (40 nos.) 80 davs Fri 02 Oct '20 0 davs <sup>175</sup> 7.2.14.3 Proof drilling 20 days Wed 23 Sep '20 Mon 12 Oct '20 0 davs Crane lorry <sup>176</sup> 7.2.14.4 Load testing for mini-pile 20 days Tue 13 Oct '20 Sun 01 Nov '20 0 davs <sup>177</sup> 7.2.14.5 Retaining wall structure 69 days Thu 31 Dec '20 Tue 09 Mar '21 0 days Mobile crane <sup>178</sup> 7.2.14.6 Road formation works Fri 05 Mar '21 Fri 19 Mar '21 Excavator,Roller 15 davs 0 davs <sup>179</sup> 7.2.14.7 Hard paving works Tue 06 Apr '21 18 davs Sat 20 Mar '21 0 davs 180 7.2.14.8 Road marking 3 days Wed 07 Apr '21 Fri 09 Apr '21 0 davs <sup>181</sup> **7.2.15** Soil Retaining wall 178 days Sun 01 Nov '20 Tue 27 Apr '21 0 days <sup>182</sup> 7.2.15.1 Excavation to formation level 60 days Sun 01 Nov '20 Wed 30 Dec '20 0 days <sup>183</sup> 7.2.15.2 Drainage temporary diversion 60 days Sun 01 Nov '20 Wed 30 Dec '20 0 days <sup>184</sup> **7.2.15.3** Backfilling to foundation level 60 days Tue 01 Dec '20 Fri 29 Jan '21 0 days Critical Split Task Milestone 🔶 Critical Slack Summary 創業集團(控股)有限公司 New Commune II-11 New Concepts Holdings Limited

Remarks: Health and safety requirements has all been included in this programme

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			Detailed P	rogramme		
WBS	Activities	Duration	Start	Finish	Float	lif 2, 2019         Half 1, 2020         Half 2, 2020         Half 1, 2021         Half 2, 2021         Half 1, 2           A         S         O         N         D         J         F         M         A         S         O         N         D         J         F         M         A         S         O         N         D         J         F         M         A         M         J         J         A         S         O         N         D         J         F         M         A         M         J         J         A         S         O         N         D         J         F         M         A         M         J         J         A         S         O         N         D         J         F         M         A         M         J         J         A         S         O         N         D         J         F         M         J         J         A         S         O         N         D         J         F         M         J         J         J         D         J         F         M         J         J         A         S         O         N         D         J
5 7.2.15.4	Retaining wall structure	60 days	Thu 31 Dec '20	Sun 28 Feb '21	0 days	
<sup>6</sup> 7.2.15.5	Backfilling to road formation level	30 days	Sun 14 Feb '21	Mon 15 Mar '21	0 days	Excavator
7 7.2.15.6	Paving works for roadwork and footpath with chainlink fence	43 days	Tue 16 Mar '21	Tue 27 Apr '21	0 days	Excavator
<sup>8</sup> 7.2.16	Road marking	5 days	Mon 05 Apr '21	Fri 09 Apr '21	0 days	
<sup>9</sup> 7.2.17	MEP installation	340 days	Mon 04 May '20	Thu 08 Apr '21	1 day	
) 7.2.17.1	first fixing	270 days	Mon 04 May '20	Thu 28 Jan '21	0 days	
<sup>1</sup> 7.2.17.2	final fixing	80 days	Thu 31 Dec '20	Sat 20 Mar '21	0 days	
<sup>2</sup> 7.2.17.3	Testing & commissioning	30 days	Sun 21 Mar '21	Thu 08 Apr '21	1 day	
<sup>3</sup> 8	Portion 4	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	
4 <b>8.1</b>	Submission	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	
5 8.1.1	Generic material submission	150 days	Fri 27 Sep '19	Sun 23 Feb '20	104 days	
<sup>6</sup> 8.1.2	ELS for management office building	90 days	Fri 27 Sep '19	Wed 25 Dec '19	0 days	
7 8.1.3	CSD, CBWD and staircase submission	60 days	Thu 26 Dec '19	Sun 23 Feb '20	0 days	
8 8.1.4	BIM model submission	60 days	Mon 24 Feb '20	Thu 23 Apr '20	44 days	
<sup>9</sup> 8.1.5	Final BIM model submission	75 days	Fri 12 Feb '21	Tue 27 Apr '21	0 days	
0 <b>8.2</b>	Construction	476 days	Sat 21 Dec '19	Fri 09 Apr '21	0 days	
<sup>1</sup> 8.2.1	Site formation for management office building	30 days	Sat 21 Dec '19	Sun 19 Jan '20	0 days	
<sup>2</sup> 8.2.2	Carcass of management office building	139 days	Mon 20 Jan '20	Sat 06 Jun '20	0 days	
<sup>3</sup> 8.2.2.1	Raft foundation	33 days	Mon 20 Jan '20	Fri 21 Feb '20	0 days	
4 8.2.2.2	Foundation to ground level	23 days	Sat 22 Feb '20	Sun 15 Mar '20	0 days	
<sup>5</sup> 8.2.2.3	Ground level to roof level	23 days	Mon 16 Mar '20	Tue 07 Apr '20	0 days	
6 8.2.2.4	Water tanks	38 days	Wed 08 Apr '20	Fri 15 May '20	12 days	
7 8.2.2.5	Roof level to upper roof level	60 days	Wed 08 Apr '20	Sat 06 Jun '20	0 days	
<sup>8</sup> 8.2.3	Fitout works for tranformer and generator room	150 days	Sun 07 Jun '20	Tue 03 Nov '20	0 days	
9 8.2.3.1	Door frame	30 days	Sun 07 Jun '20	Mon 06 Jul '20	0 days	
0 8.2.3.2	Minor steelwork for chequer plate	30 days	Sun 07 Jun '20	Mon 06 Jul '20	0 days	
<sup>1</sup> 8.2.3.3	Screeding	30 days	Tue 07 Jul '20	Wed 05 Aug '20	0 days	
<sup>2</sup> 8.2.3.4	Wall rendering	25 days	Thu 06 Aug '20	Sun 30 Aug '20	0 days	
<sup>3</sup> 8.2.3.5	Painting	30 days	Mon 31 Aug '20	Tue 29 Sep '20	0 days	
<sup>4</sup> 8.2.3.6	Door & ironmongery	30 days	Wed 30 Sep '20	Thu 29 Oct '20	0 days	
5 8.2.3.7	Signage	5 days	Fri 30 Oct '20	Tue 03 Nov '20	0 days	
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**Detailed Programme** 

V	WBS	Activities	Duration	Start	Finish	Float	lf 2, 2019 Half 1, 1	2020 [ A M ]	Half 2, 202	0 Ha	lf 1, 2021 F M A N	Half 2, 2021 Half 1, 202 J J A S O N D J F M A
216 8	3.2.3.8	Chequer plate installation	5 days	Fri 30 Oct '20	Tue 03 Nov '20	0 days				R		
217 <b>8</b>	3.2.4	Fitout works of management office building	240 days	Sun 07 Jun '20	Mon 01 Feb '21	0 days		1		-		
<sup>218</sup> 8	3.2.4.1	Steelwork staircase	90 days	Sun 07 Jun '20	Fri 04 Sep '20	0 days						
<sup>219</sup> 8	3.2.4.2	Door frame	30 days	Sun 07 Jun '20	Mon 06 Jul '20	0 days						
220 <b>8</b>	3.2.4.3	Screeding	30 days	Tue 07 Jul '20	Wed 05 Aug '20	0 days						
221 8	3.2.4.4	Wall rendering	25 days	Thu 06 Aug '20	Sun 30 Aug '20	5 days						
22 8	3.2.4.5	Painting	30 days	Sat 05 Sep '20	Sun 04 Oct '20	0 days						
23 8	3.2.4.6	Floor tiling	30 days	Mon 05 Oct '20	Tue 03 Nov '20	0 days						
24 8	3.2.4.7	Door & ironmongery	30 days	Wed 04 Nov '20	Thu 03 Dec '20	0 days				<b>*</b>		
25 <b>8</b>	3.2.4.8	Minor steelwork installation	60 days	Fri 04 Dec '20	Mon 01 Feb '21	0 days						
26 <b>8</b>	3.2.5	Transformer installation	15 days	Wed 04 Nov '20	Wed 18 Nov '20	0 days				<b>–</b>		
27 <b>8</b>	3.2.6	Generator installation	15 days	Thu 19 Nov '20	Thu 03 Dec '20	0 days				<b>T</b>		
28 <b>8</b>	3.2.7	MEP installation	446 days	Mon 20 Jan '20	Fri 09 Apr '21	0 days	l l l		_			
29 <b>8</b>	3.2.7.1	first fixing	200 days	Mon 20 Jan '20	Thu 06 Aug '20	0 days						
30 8	3.2.7.2	final fixing for CLP transformer installation	45 days	Sun 20 Sep '20	Tue 03 Nov '20	0 days						
31 8	3.2.7.3	final fixing	105 days	Fri 04 Dec '20	Thu 18 Mar '21	0 days				*		
32 <b>8</b>	3.2.7.4	Testing & commissioning	22 days	Fri 19 Mar '21	Fri 09 Apr '21	0 days					<b>i</b>	
33 g	)	Portion 5	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days	0	_			1	
34 g	9.1	Submission	120 days	Fri 27 Sep '19	Fri 24 Jan '20	0 days	I I I I I I I I I I I I I I I I I I I					
35 g	9.1.1	Demolition Plan	120 days	Fri 27 Sep '19	Fri 24 Jan '20	0 days						
36 g	9.2	Construction	377 days	Thu 16 Apr '20	Tue 27 Apr '21	0 days		<b>≯</b>  —	_		1	
37 g	9.2.1	Provision of temporary toilet and refuse collection point	15 days	Thu 16 Apr '20	Thu 30 Apr '20	0 days						
38 g	9.2.2	Demolition of public toilet	53 days	Fri 01 May '20	Mon 22 Jun '20	0 days			Excavato	r with bro	aker	
39 g	9.2.3	Backfilling to ground level	17 days	Tue 23 Jun '20	Thu 09 Jul '20	0 days			Excava	tor		
40 g	9.2.4	Hard paving works and road marking	36 days	Fri 05 Mar '21	Fri 09 Apr '21	0 days						
41 g	9.2.4.1	Road formation works	18 days	Fri 05 Mar '21	Mon 22 Mar '21	0 days					﴾∎_	
42 g	9.2.4.2	Hard paving works	18 days	Sat 20 Mar '21	Tue 06 Apr '21	0 days						
43 g	9.2.4.3	Road marking	3 days	Wed 07 Apr '21	Fri 09 Apr '21	0 days					I I	
44 g	9.2.5	Landscape works	88 days	Sat 30 Jan '21	Tue 27 Apr '21	0 days				Ì		
45 1	LO	Portion 6	579 days?	Fri 27 Sep '19	Tue 27 Apr '21	0 days?		-				
46 1	L0.1	Submission	579 days	Fri 27 Sep '19	Tue 27 Apr '21	0 days		-				
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**Detailed Programme** WBS Finish Float lf 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022 ID Activities Duration Start A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M 247 10.1.1 Tree surveying report 60 days Fri 27 Sep '19 Mon 25 Nov '19 160 days 248 10.1.2 Method statement for tree felling 75 days Fri 27 Sep '19 Tue 10 Dec '19 145 days 249 10.1.3 Method statement for trial pits at revetment 90 days Fri 27 Sep '19 Wed 25 Dec '19 0 days 250 10.1.4 Consent from DSD on trial pits 30 days Thu 26 Dec '19 Fri 24 Jan '20 0 days 251 10.1.5 Method statement for soil replacement at revetment 105 days Fri 27 Sep '19 Thu 09 Jan '20 0 days 252 10.1.6 Consent from DSD on soil replacement 30 days Fri 10 Jan '20 Sat 08 Feb '20 0 days 253 10.1.7 Final BIM model submission 75 days Fri 12 Feb '21 Tue 27 Apr '21 0 days 254 10.2 Construction 468 days? Thu 26 Dec '19 Tue 06 Apr '21 1 day? 255 10.2.1 Ground investigation (trial pits 7 nos.) 30 days Thu 26 Dec '19 Fri 24 Jan '20 1 day 256 10.2.2 Tree felling 45 days Mon 04 May '20 Wed 17 Jun '20 0 days 257 10.2.3 Temporary entrance for interim stage 64 days Sat 25 Jan '20 Sat 28 Mar '20 0 days 258 Excavator.Roller 10.2.4 Soil replacement at river revetment next to Portions 1 & 4 Fri 10 Jan '20 Thu 13 Feb '20 0 days 35 days 259 10.2.5 Landscape works at river revetment next to Portions 1 & 4 30 davs Fri 14 Feb '20 Sat 14 Mar '20 14 days 260 10.2.6 Excavator.Roller Soil replacement at river revetment next to Portion 3 105 davs Sun 01 Nov '20 Sat 13 Feb '21 0 davs 261 10.2.7 Reinstatement of U-channel 1 day? Sun 14 Feb '21 Sun 14 Feb '21 0 davs? 262 10.2.8 Landscape works at river revetment next to Portion 3 30 days Sun 14 Feb '21 Mon 15 Mar '21 0 days 263 Excavator.Roller 10.2.9 Reinstatement of hard pavement / footpath 52 days Sun 14 Feb '21 Tue 06 Apr '21 3 days 264 11 Statutory Submissions / Requirements 330 days Mon 01 Jun '20 Tue 27 Apr '21 0 days 265 11.1 ♦ 02/11 Water supplies connection 0 davs Mon 02 Nov '20 Mon 02 Nov '20 0 davs 266 11.2 ♦ 02/11 Power energization 0 days Mon 02 Nov '20 Mon 02 Nov '20 0 days 267 11.3 Fire Services Installation 243 days Mon 01 Jun '20 Sat 30 Jan '21 0 days 268 • 01/06 11.3.1 Form WWO46 - Part I & II Submission 0 days Mon 01 Jun '20 Mon 01 Jun '20 0 days 269 11.3.2 Form WWO46 - Part III Endorsement by WSD 0 days Wed 01 Jul '20 Wed 01 Jul '20 0 days • 01/07 270 11.3.3 **Direct Link Application** Tue 01 Sep '20 Tue 01 Sep '20 • 01/09 0 davs 0 days 271 01/09 11.3.4 FS Plumbing Drawings Final Amendment Submission to WSD 0 days Tue 01 Sep '20 Tue 01 Sep '20 0 days 272 11.3.5 WSD's endorsement on FS Plumbing Drawings Final • 02/10 0 davs Fri 02 Oct '20 Fri 02 Oct '20 0 davs Amendment 273 11.3.6 • 02/11 Form WWO46 - Part IV Submission 0 days Mon 02 Nov '20 Mon 02 Nov '20 0 days <sup>274</sup> **11.3.7** ♦ 15/12 WSD Inspection 0 davs Tue 15 Dec '20 Tue 15 Dec '20 0 davs Critical Split Task Milestone ۲ Summary Critical Slack 創業集團(控股)有限公司 New Commune II-11 New Concepts Holdings Limited Remarks: Health and safety requirements has all been included in this programme Date: 10 March 2020

.1.3.8 .1.3.9	Activities Water sampling	Duration	Start	Finish	E1+	lf 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022
1.3.9	Water sampling			1 IIIISII	Float	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
		0 days	Tue 22 Dec '20	Tue 22 Dec '20	0 days	◆ 22/12
	Submission of lab test report to WSD	0 days	Sat 02 Jan '21	Sat 02 Jan '21	0 days	♦ 02/01
1.3.10	WWO46 - Part V Endorsed by WSD	0 days	Sat 30 Jan '21	Sat 30 Jan '21	0 days	♦ 30/0
1.4	MVAC Installation	198 days	Sat 01 Aug '20	Mon 15 Feb '21	0 days	
1.4.1	FSI314 VAC drawing Submission to FSD	0 days	Sat 01 Aug '20	Sat 01 Aug '20	0 days	♦ 01/08
1.4.2	FSI314 VAC drawing Submission approved by FSD	0 days	Fri 02 Oct '20	Fri 02 Oct '20	0 days	♦ 02/10
1.4.3	FSI/314 & 501 Submission (VAC System)	0 days	Mon 15 Feb '21	Mon 15 Feb '21	0 days	♦ 15/02
1.5	Plumbing Installation	259 days	Mon 01 Jun '20	Mon 15 Feb '21	0 days	
1.5.1	Form WWO46 - Part I & II Submission	0 days	Mon 01 Jun '20	Mon 01 Jun '20	0 days	♦ 01/06
1.5.2	Form WWO46 - Part III Endorsement by WSD	0 days	Thu 02 Jul '20	Thu 02 Jul '20	0 days	♦ 02/07
1.5.3	Plumbing Drawings Final Amendment Submission to WSD	0 days	Tue 01 Sep '20	Tue 01 Sep '20	0 days	♦ 01/09
.1.5.4	WSD's endorsement on Plumbing Drawings Final Amendment	0 days	Fri 02 Oct '20	Fri 02 Oct '20	0 days	♦ 02/10
1.5.5	Form WWO46 - Part IV Submission	0 days	Fri 02 Oct '20	Fri 02 Oct '20	0 days	♦ 02/10
1.5.6	WSD Inspection	0 days	Tue 01 Dec '20	Tue 01 Dec '20	0 days	♦ 01/12
1.5.7	WWO46 - Part V(a) Endorsed by WSD	0 days	Tue 15 Dec '20	Tue 15 Dec '20	0 days	♦ 15/12
1.5.8	Water sampling	0 days	Tue 15 Dec '20	Tue 15 Dec '20	0 days	♦ 15/12
1.5.9	Submission of lab test report to WSD	0 days	Sat 02 Jan '21	Sat 02 Jan '21	0 days	♦ 02/01
1.5.10	WWO46 - Part V(b) Endorsed by WSD	0 days	Sat 30 Jan '21	Sat 30 Jan '21	0 days	♦ 30/0
1.5.11	WWO1005 issuance	0 days	Mon 15 Feb '21	Mon 15 Feb '21	0 days	♦ 15/02
1.6	Drainage	89 days	Tue 01 Dec '20	Sun 28 Feb '21	0 days	
1.6.1	Drainage plan final amendment	0 days	Tue 01 Dec '20	Tue 01 Dec '20	0 days	♦ 01/12
1.6.2	Approval	0 days	Sun 28 Feb '21	Sun 28 Feb '21	0 days	♦ 28/02
.1.7	Form FS314A with FS251 - Fire Services Installation Plans	7 days	Sat 03 Apr '21	Fri 09 Apr '21	0 days	ŀ
1.8	FSD inspection	14 days	Sat 10 Apr '21	Fri 23 Apr '21	0 days	
.1.9	FSD acknowledgement	4 days	Sat 24 Apr '21	Tue 27 Apr '21	0 days	Ť
.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.5 .5.1 .5.2 .5.3 .5.4 .5.5 .5.6 .5.7 .5.8 .5.9 .5.10 .5.11 .6 .6.1 .6.2 .7 .8	.5Plumbing Installation.5.1Form WWO46 - Part I & II Submission.5.2Form WWO46 - Part III Endorsement by WSD.5.3Plumbing Drawings Final Amendment Submission to WSD.5.4WSD's endorsement on Plumbing Drawings Final Amendment.5.5Form WWO46 - Part IV Submission.5.6WSD Inspection.5.7WWO46 - Part V(a) Endorsed by WSD.5.8Water sampling.5.9Submission of lab test report to WSD.5.10WWO46 - Part V(b) Endorsed by WSD.5.11WWO1005 issuance.6Drainage.6.1Drainage plan final amendment.6.2Approval.7Form FS314A with FS251 - Fire Services Installation Plans.8FSD inspection	.5Plumbing Installation259 days.5.1Form WWO46 - Part I & II Submission0 days.5.2Form WWO46 - Part III Endorsement by WSD0 days.5.3Plumbing Drawings Final Amendment Submission to WSD0 days.5.4WSD's endorsement on Plumbing Drawings Final Amendment0 days.5.5Form WWO46 - Part IV Submission0 days.5.6WSD Inspection0 days.5.7WWO46 - Part V(a) Endorsed by WSD0 days.5.8Water sampling0 days.5.9Submission of lab test report to WSD0 days.5.10WWO46 - Part V(b) Endorsed by WSD0 days.5.11WWO1005 issuance0 days.6Drainage89 days.6.1Drainage plan final amendment0 days.7Form FS314A with FS251 - Fire Services Installation Plans7 days.8FSD inspection14 days	.5Plumbing Installation259 daysMon 01 Jun '20.5.1Form WWO46 - Part I & II Submission0 daysMon 01 Jun '20.5.2Form WWO46 - Part III Endorsement by WSD0 daysThu 02 Jul '20.5.3Plumbing Drawings Final Amendment Submission to WSD0 daysTue 01 Sep '20.5.4WSD's endorsement on Plumbing Drawings Final0 daysFri 02 Oct '20.5.5Form WWO46 - Part IV Submission0 daysFri 02 Oct '20.5.6WSD Inspection0 daysTue 01 Dec '20.5.7WWO46 - Part V(a) Endorsed by WSD0 daysTue 15 Dec '20.5.8Water sampling0 daysTue 15 Dec '20.5.9Submission of lab test report to WSD0 daysSat 02 Jan '21.5.10WWO46 - Part V(b) Endorsed by WSD0 daysSat 30 Jan '21.5.11WWO1005 issuance0 daysTue 01 Dec '20.6.1Drainage89 daysTue 01 Dec '20.6.2Approval0 daysTue 01 Dec '20.6.3Form S314A with FS251 - Fire Services Installation Plans7 days.8FSD inspection14 daysSat 10 Apr '21	Final SectionSectionSectionMon 01 Jun '20Mon 15 Feb '215.1Form WW046 - Part I & II Submission0 daysMon 01 Jun '20Mon 01 Jun '205.2Form WW046 - Part I II Endorsement by WSD0 daysThu 02 Jul '20Thu 02 Jul '205.3Plumbing Drawings Final Amendment Submission to WSD0 daysTue 01 Sep '20Tue 01 Sep '205.4WSD's endorsement on Plumbing Drawings Final Amendment0 daysFri 02 Oct '20Fri 02 Oct '205.5Form WW046 - Part IV Submission0 daysFri 02 Oct '20Fri 02 Oct '205.6WSD Inspection0 daysTue 01 Dec '20Tue 01 Dec '205.7WW046 - Part V(a) Endorsed by WSD0 daysTue 15 Dec '20Tue 15 Dec '205.8Water sampling0 daysTue 15 Dec '20Tue 15 Dec '205.9Submission of lab test report to WSD0 daysSat 02 Jan '21Sat 02 Jan '215.11WW01005 issuance0 daysTue 01 Dec '20Sun 28 Feb '216DrainageIfinal amendment0 daysTue 01 Dec '20Sun 28 Feb '216.1Drainage plan final amendment0 daysTue 01 Dec '20Sun 28 Feb '216.2Approval0 daysSat 03 Apr '21Fri 09 Apr '217Form FS314A with FS251 - Fire Services Installation Plans7 daysSat 10 Apr '21Fri 23 Apr '21	FindPlumbing Installation259 daysMon 01 Jun '20Mon 15 Feb '210 days5.1Form WW046 - Part I & II Submission0 daysMon 01 Jun '20Mon 01 Jun '200 days5.2Form WW046 - Part III Endorsement by WSD0 daysThu 02 Jul '20Thu 02 Jul '200 days5.3Plumbing Drawings Final Amendment Submission to WSD0 daysTue 01 Sep '20Tue 01 Sep '200 days5.4WSD's endorsement on Plumbing Drawings Final Amendment0 daysFri 02 Oct '20Fri 02 Oct '200 days5.5Form WW046 - Part IV Submission0 daysFri 02 Oct '20Fri 02 Oct '200 days5.5Form WW046 - Part V(a) Endorsed by WSD0 daysTue 01 Dec '20Tue 01 Dec '200 days5.5Submission of lab test report to WSD0 daysTue 15 Dec '20Tue 15 Dec '200 days5.9Submission of lab test report to WSD0 daysSat 02 Jan '21Sat 02 Jan '210 days5.10WW046 - Part V(b) Endorsed by WSD0 daysSat 02 Jan '21Sat 03 Jan '210 days5.10WW046 - Part V(b) Endorsed by WSD0 daysSat 02 Jan '21Sat 03 Jan '210 days5.11WW01005 issuance0 daysTue 01 Dec '20Sun 28 Feb '210 days6.1DrainageDrainage plan final amendment0 daysTue 01 Dec '20Sun 28 Feb '210 days6.2Approval0 daysSun 28 Feb '210 daysSat 03 Apr '21Fin 09 Apr '210 days6.3Drainage

Summary

Critical Split Task

Milestone 🔶

Critical

Slack

創業集團(控股)有限公司 New Concepts Holdings Limited

Remarks: Health and safety requirements has all been included in this programme

Date: 10 March 2020

APPENDIX B ACTION AND LIMIT LEVELS Civil Engineering and Development Department

#### **Appendix B - Action and Limit Levels**

#### Table B-1 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) *

Noted:

If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

(\*) reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

APPENDIX C COPIES OF CALIBRATION CERTIFCATES



WELLAB LIMITED Rms 1214, 1502, 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

#### TEST REPORT Test Report No.: APPLICANT: Wellab Limited 31950 Date of Issue: 2019-08-14 (EM&A Department) Room 1701, Technology Park, Date Received: 2019-08-12 18 On Lai Street, Date Tested: 2019-08-12 2019-08-14 Shatin, NT, Hong Kong Date Completed: Next Due Date: 2020-08-13 Page: 1 of 1 ATTN: Mr. W. K. Tang **Certificate of Calibration Item for Calibration:** Description : 'SVANTEK' Integrating Sound Level Meter Manufacturer : SVANTEK Model No. : SVAN 957 Serial No. :21459 Microphone No. : 43676 Equipment No. : N-08-08 **Test Conditions:** Room Temperatre : 17-22 degree Celsius **Relative Humidity** :40-70% **Test Specifications** Performance checking at 94 and 114 dB Methodology: In-house method, according to manufacturer instruction manual **Results:**

Reference Set Point, dB	Instrument Reading, dB
94	94.0
114	114.0

\*\*\*\*\*

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



#### TEST REPORT Test Report No.: 31950A **APPLICANT:** Wellab Limited Date of Issue: 2019-08-14 (EM&A Department) Room 1701, Technology Park, Date Received: 2019-08-12 18 On Lai Street, Date Tested: 2019-08-12 Shatin, NT, Hong Kong Date Completed: 2019-08-14 Next Due Date: 2020-08-13 Page: 1 of 1 **ATTN:** Mr. W. K. Tang **Certificate of Calibration** Item for Calibration: Description : 'SVANTEK' Integrating Sound Level Meter Manufacturer : SVANTEK Model No. : SVAN 957 Serial No. :21460 Microphone No. : 43679 Equipment No. : N-08-09 **Test Conditions:** Room Temperatre : 17-22 degree Celsius **Relative Humidity** : 40-70% **Test Specifications** Performance checking at 94 and 114 dB Methodology: In-house method, according to manufacturer instruction manual **Results:**

Reference Set Point, dB	Instrument Reading, dB
94	94.0
114	114.0

\*\*\*\*\*\*\*\*\*\*\*\*\*

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



# **TEST REPORT**

# APPLICANT: Wellab Limited (EM&A Department) Room 1701, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	32667B
Date of Issue:	2019-12-06
Date Received:	2019-12-04
Date Tested:	2019-12-04
Date Completed:	2019-12-06
Next Due Date:	2020-12-05
Page:	1 of 1

ATTN: Mr. W. K. Tang

# **Certificate of Calibration**

#### Item for calibration:

Description	
Manufacturer	
Model No.	
Serial No.	
Equipment No.	

# : Sound & Vibration Analyser : BSWA : BSWA 801 : 35927 : N-13-03

#### **Test conditions:**

Room Temperatre Relative Humidity : 17-22 degree Celsius : 40-70%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE General Manager



# **TEST REPORT**

# APPLICANT: Wellab Limited (EM&A Department) Room 1701, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	32243
Date of Issue:	2019-09-30
Date Received:	2019-09-27
Date Tested:	2019-09-27
Date Completed:	2019-09-30
Next Due Date:	2020-09-29
Page:	1 of 1

ATTN:

Mr. W. K. Tang

# **Certificate of Calibration**

#### Item for calibration:

Description
Manufacturer
Model No.
Serial No.
Equipment No.

#### **Test conditions:**

Room Temperatre Relative Humidity : Acoustical Calibrator : SVANTEK : SV30A : 24803 : N-09-03

: 17-22 degree Celsius : 40-70%

#### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### **Results:**

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE

General Manager

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# **TEST REPORT**

# APPLICANT: Wellab Limited (EM&A Department) Room 1701, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	32243A
Date of Issue:	2019-09-30
Date Received:	2019-09-27
Date Tested:	2019-09-27
Date Completed:	2019-09-30
Next Due Date:	2020-09-29
Page:	1 of 1

ATTN: M

Mr. W. K. Tang

# **Certificate of Calibration**

# Item for calibration:

Description
Manufacturer
Model No.
Serial No.
Equipment No.

#### **Test conditions:**

Room Temperatre Relative Humidity : Acoustical Calibrator : SVANTEK : SV30A : 24780 : N-09-05

: 17-22 degree Celsius : 40-70%

#### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### **Results:**

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

P TRICK TSE

General Manager

ELLAB 進 ting & Research

WELLAB LIMITED Rms 1214, 1502, 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

# **TEST REPORT**

#### Wellab Limited APPLICANT: (EM&A Department) Room 1701, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No .:	31951-V1
Date of Issue:	2020-04-07
Date Received:	2019-08-16
Date Tested:	2019-08-16
Date Completed:	2019-08-20
Next Due Date:	2020-08-19
Page:	1 of 1

#### **ATTN:**

Mr. W. K. Tang

#### **Certificate of Calibration**

#### Item for Calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2412367
Equipment No.	: N-02-03
s:	
Room Temperatre	: 17-22 degree Celsius
Relative Humidity	: 40-70%

#### Methodology:

**Test Conditions:** 

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

**Results:** Sound Pressure Level (1kHz) Measured SPL Tolerance  $94.0 \pm 0.1$ dB 94.0 At 94 dB SPL 114.0  $114.0 \pm 0.1$ dB At 114 dB SPL

Remark: This report supersedes the one dated 2019-08-20 with certificate number 31951.

 $i\mathcal{Q}$ 

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager

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APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

#### Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Impact Noise Monitoring for March 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar
		<u>Noise</u> CP-FLN-NMS1				
8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar
		<u>Noise</u> CP-FLN-NMS1				
15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar
	<u>Noise</u> CP-FLN-NMS1					
22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar
	<u>Noise</u> CP-FLN-NMS1 CP-KTN-NMS5					
29-Mar	30-Mar	31-Mar				
	<u>Noise</u> CP-FLN-NMS1 CP-KTN-NMS5					

EP-475/2013/A: ND/2019/06 - Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products

Noise Monitoring Station

CP-FLN-NMS1 Belair Monte (Existing)

EP-470/2013: ND/2019/01 - Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

**Noise Monitoring Station** CP-KTN-NMS5 N/A (Existing)

#### Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Tentative Noise Monitoring for April 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Apr	2-Apr	3-Apr	4-Apr
5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr
	<u>Noise</u> CP-FLN-NMS1 CP-KTN-NMS5					
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
		<u>Noise</u> CP-FLN-NMS1 CP-KTN-NMS5				
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
		<u>Noise</u> CP-FLN-NMS1 CP-KTN-NMS5				
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		
	<u>Noise</u> CP-FLN-NMS1 CP-KTN-NMS5					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

EP-475/2013/A: ND/2019/06 - Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products

Noise Monitoring Station

CP-FLN-NMS1 Belair Monte (Existing)

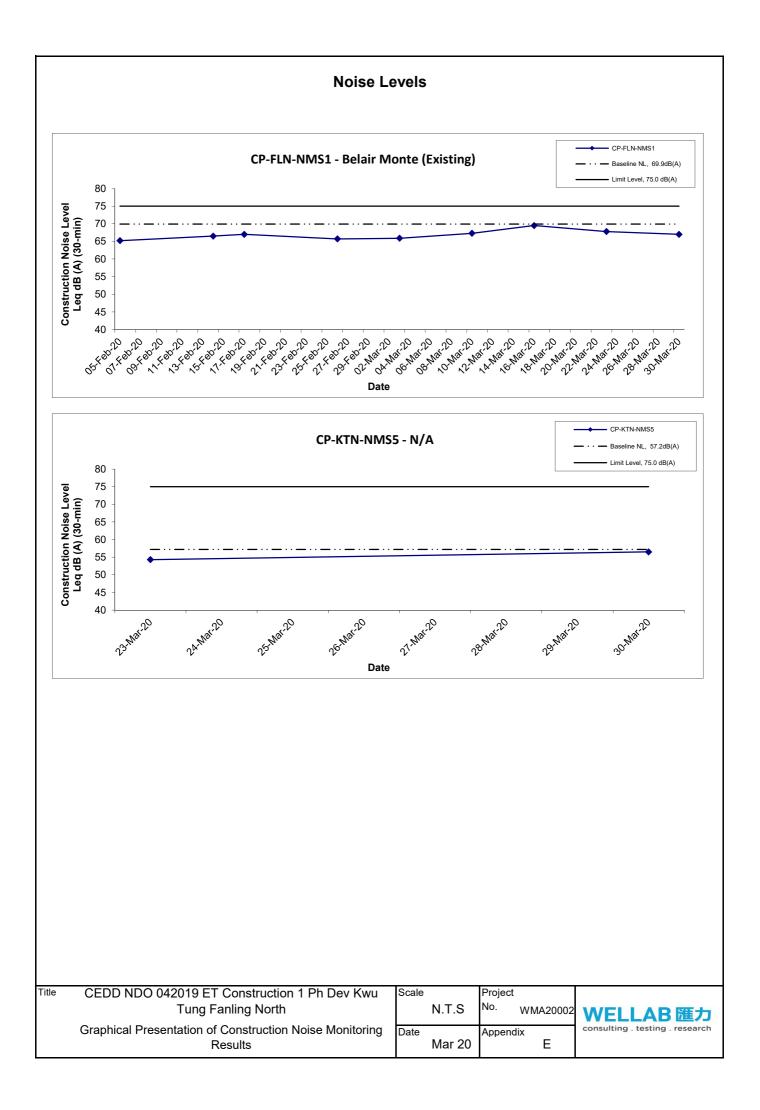
EP-470/2013: ND/2019/01 - Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works Noise Monitoring Station CP-KTN-NMS5 N/A (Existing)

APPENDIX E NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

#### Appendix E - Noise Monitoring Results

Date Weather		her Time	Unit: dB (A) (5-min)		Average	Baseline Level	Construction Noise Level	
			L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>	L <sub>eq</sub>
		8:45	66.7	70.4	56.7			
		8:50	66.9	70.1	56.4			
3-Mar-20	Cloudy	8:55	66.4	69.8	56.2	65.9		65.9 Measured≦ Baseline
3-1VIAI-20	Cloudy	9:00	64.9	68.8	56.9	05.9		
		9:05	64.9	68.8	56.9			
		9:10	64.9	68.7	56.8			
		15:50	66.3	70.0	56.4			
		15:55	68.1	70.3	56.7			
10-Mar-20	Sunny	16:00	65.4	68.6	57.3	67.3		67.3 Measured≤ Baseline
10-10101-20	Sunny	16:05	66.9	70.6	57.6	07.5		
		16:10	68.3	71.1	59.8			
		16:15	68.1	71.6	58.2			
		9:55	68.7	72.9	65.2	69.5		
		10:00	68.5	71.7	66.0			
16-Mar-20	Cloudy	10:05	70.2	73.8	64.4		69.9	69.5 Measured≤ Baseline
10-101a1-20	Cloudy	10:10	69.6	73.5	65.9			
		10:15	71.2	75.0	66.9			
		10:20	68.3	71.4	66.1			
		9:30	68.6	72.2	55.1			
		9:35	68.0	71.8	56.9			
23-Mar-20	Sunny	9:40	67.8	71.7	55.0	67.8		67.8 Measured≤ Baseline
20-iviai-20	Sunny	9:45	65.5	70.6	54.2	07.0		
		9:50	68.1	71.5	55.0			
		9:55	67.9	71.9	56.7			
		9:15	67.7	71.1	57.0		1 [	
		9:20	66.7	70.6	58.5			
20 Mar 20	Claudy	9:25	66.0	70.3	56.6	67.0		67.0 Managurad Province
30-Mar-20	Cloudy	9:30	67.4	71.2	57.5	67.0		67.0 Measured≦ Baseline
		9:35	68.0	71.1	58.7			
		9:40	65.7	69.2	58.4			

Location CP-KTN-NMS5 - N/A								
Date	Weather	ather Time	Unit: dB (A) (5-min)		Average	Baseline Level	Construction Noise Level	
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	L <sub>eq</sub>
		10:30	56.3	56.4	47.4			
		10:35	50.4	52.5	46.1			
23-Mar-20	Cloudy	10:40	51.5	54.8	48.4	54.3		54.3 Measured≤ Baseline
23-IVIAI-20	Cloudy	10:45	53.9	53.9	49.6			54.5 Measureu≧ baseime
		10:50	51.9	53.3	48.4			
		10:55	57.2	56.6	45.5		57.0	
		10:00	56.1	57.9	53.5		57.2	
		10:05	57.4	58.5	53.3			
20 Mar 00	Claudu	10:10	54.4	55.4	53.2			
30-Mar-20	Cloudy	10:15	56.5	58.3	53.1	56.5		56.5 Measured $\leq$ Baseline
		10:20	56.8	58.9	54.2			
1		10:25	57.1	55.4	50.0			



APPENDIX F WEATHER CONDITION

# APPENDIX F – GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 March 2020	22.8	82	-
2 March 2020	20.1	84	trace
3 March 2020	19.4	81	trace
4 March 2020	19.9	84	3.1
5 March 2020	18.2	85	0.4
6 March 2020	18.3	80	trace
7 March 2020	20.6	88	trace
8 March 2020	22.1	92	trace
9 March 2020	23.4	89	trace
10 March 2020	23.4	67	trace
11 March 2020	19.2	72	trace
12 March 2020	19.2	89	trace
13 March 2020	21.4	91	-
14 March 2020	21.6	78	0.4
15 March 2020	20.2	70	-

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs Monthly EM&A Report – March 2020

		Monthly EM&A Report – March 202			
Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)		
16 March 2020	20.3	75	-		
17 March 2020	20.3	79	-		
18 March 2020	20.5	86	10.7		
19 March 2020	21.1	88	0.8		
20 March 2020	21.2	87	0.4		
21 March 2020	21.2	94	0.2		
22 March 2020	24.2	84	-		
23 March 2020	24.6	81	-		
24 March 2020	22.8	82	trace		
25 March 2020	22.8	83	trace		
26 March 2020	23.3	90	1.0		
27 March 2020	24.4	86	trace		
28 March 2020	22.8	91	9.8		
29 March 2020	20.2	91	2.2		
30 March 2020	20.4	95	6.5		
31 March 2020	20.3	95	5.8		

\* The above information was extracted from the daily weather summary by Hong Kong Observatory.

APPENDIX G EVENT ACTION PLANS

EVENT	ndix G: Event / Action Pla	ACTIO		
	ЕТ	IEC	ER	CONTRACTOR
Action Level	<ol> <li>Notify IEC, ER and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss jointly with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review the monitoring data submitted by the ET;</li> <li>Review the construction methods and proposed remedial measures by the Contractor, and advise the ET and ER if the proposed remedial measures would be sufficient;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify the Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures are properly implemented</li> </ol>	<ol> <li>Submit noise mitigation proposals to ER and copy to the IEC and ET;</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol> <li>Identify source;</li> <li>Inform IEC, ER and Contractor;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase the monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures with the ER and Contractor to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and Contractor the causes and actions taken for</li> </ol>	<ol> <li>Discuss amongst the ER, ET, and Contractor on the potential remedial actions;</li> <li>Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify the Contractor;</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures are properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to the ER and copy to the ET and IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problems still not under control;</li> <li>Stop the relevant</li> </ol>

## Appendix G: Event / Action Plan for Construction Noise

WMA20002\App G - Event Action Plan

EVENT	ACTION					
	ЕТ	IEC	ER	CONTRACTOR		
	the exceedances;		and instruct the	portion of works as		
	7. Assess effectiveness of		Contractor to stop that	determined by the		
	Contractor's remedial		portion of work until	ER until		
	actions and keep IEC		the exceedance is	the exceedance is		
	informed of the results;		abated.	abated.		
	8. If exceedance stops, cease					
	additional monitoring.					

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

APPENDIX H SUMMARY OF EXCEEDANCE

# **Appendix H: Exceedance Report**

# (A) Exceedance Report for Construction Noise

Environmental	Parameter		n-project kceedance	No. of Exceedance related to the Construction Activities of this Contract		
Monitoring		Action Level	Limit Level	Action Level	Limit Level	
Noise	L <sub>eq(30 min.)</sub> dB(A)	0	0	0	0	

APPENDIX I SITE AUDIT SUMMARY

# Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

*ND/2019/01 – Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Work* 

Checklist Reference Number	200325
Date	25 March 2020 (Wednesday)
Time	9:30-10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
200325-R01	• To enhance the mitigation measures provided to direct the surface runoff to silt removal facilities.	D3
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	J. Ecology	
	No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	L. Others	
	No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam	Try	25 March 2020
Checked by	Dr. Priscilla Choy	WF	25 March 2020

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas ND/2019/06 – Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products

Weekly Site Inspection Record Summary

Checklist Reference Number	200305	
Date	5 March 2020 (Thursday)	
Time	10:00-10:45	

D.C.N.	New Orean linear	Related
Ref. No.	Non-Compliance	Item No.
	None identified	0
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
200305-R02	Drainage system should be cleared regularly and maintained.	D6
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
200305-R01	• Retained trees should be carefully protected and construction materials should be cleared	F1
	within the protection zone.	ГІ
	G. Ecology	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.:200227), all identified environmental	
	deficiency was observed improved/rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Kimmy Lui	lis	5 March 2020
Checked by	Dr. Priscilla Choy	WI	5 March 2020

1

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas ND/2019/06 – Fanling North New Development Area, Phase 1: Reprovisioning of North

District Temporary Wholesale Market for Agricultural Products

Checklist Reference Number	200311	
Date	11 March 2020 (Wednesday)	
Time	14:00-14:45	

Ref. No.	Nan Compliance	Related Item No.
Rel. No.	Non-Compliance None identified	Item 140.
- Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
200311-R02	• Chemical waste should be packed and held in containers of suitable design so as to prevent leakage, spillage or escape of the contents under normal conditions of handling, storage and transport. Chemical waste should be stored in designated place.	E2
	F. Landscape and Visual	
200311-R01	• For trees which haven't been undertaken tree survey should be protected and surrounded with fencing. Construction materials should also be removed from tree protection area.	F1
	G. Ecology	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.:200305), all identified environmental deficiency was observed improved/rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Kimmy Lui	tr	11 March 2020
Checked by	Dr. Priscilla Choy	WI	11 March 2020

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas ND/2019/06 – Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products

Checklist Reference Number	200319	
Date	19 March 2020 (Thursday)	
Time	10:00-11:00	

		Related
Ref. No.	Non-Compliance	Item No.
1220	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	2) 2)
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
200319-R01	Retained trees should be carefully protected.	F1
200319-R01 200319-R02	<ul> <li>Dull green fencing should be secured with no gap or no holes.</li> </ul>	F2
200319-K02	• Duil green tencing should be secured with no gap of no noies.	ГZ
	G. Ecology	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.:200311), item 200311-R01 was remarked as 200319-R01. Follow-up action is needed to be reviewed	

	Name	Signature	Date
Recorded by	Kimmy Lui	in	20 March 2020
Checked by	Dr. Priscilla Choy	WIL	20 March 2020

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas ND/2019/06 – Fanling North New Development Area, Phase 1: Reprovisioning of North

District Temporary Wholesale Market for Agricultural Products

Checklist Reference Number	200326	
Date	26 March 2020 (Thursday)	
Time	10:00-10:40	

Ref. No.	Non Compliance	Related
Kel. INO.	Non-Compliance	Item No
-	None identified	·
D 4 M		Related
Ref. No.	Remarks/Observations	Item No
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	G. Ecology	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.:200319), all identified environmental deficiency was observed improved/rectified by the Contractor.	
	deneroney was observed improved/rectified by the Contractor.	

Signature	Date
cin	26 March 2020
10	26 March 2020
	in hit

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation		
	Log		recommended	implement	measures	Implement the	Status		
	Ref		Measures & Main	the		measures?			
			Concerns to address	measures?					
Construc	Construction Dust Impact								
S3.8	D1	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 92.1%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.7 L/m2 to achieve the respective dust removal efficiencies	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	*		
S3.8	D2	The Contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	*		
S3.8	D3	<ul> <li>Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction Phase</li> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;</li> <li>The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> <li>Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible</li> </ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	* * ^ *		

 			1	
	or designated vehicle exit point. The area where vehicle			
	washing takes place and the road section between the			
	washing facilities and the exit point should be paved with			
	concrete, bituminous materials or hardcores;			٨
•	When there are open excavation and reinstatement works,			
	hoarding of not less than 2.4m high should be provided as			
	far as practicable along the site boundary with provision			
	for public crossing. Good site practice shall also be			
	adopted by the Contractor to ensure the conditions of the			
	hoardings are properly maintained throughout the			
	construction period.			
•	The portion of any road leading only to construction site			٨
	that is within 30m of a vehicle entrance or exit should be			
	kept clear of dusty materials;			
•	Surfaces where any pneumatic or power-driven drilling,			٨
	cutting, polishing or other mechanical breaking operation			
	takes place should be sprayed with water or a dust			
	suppression chemical continuously;			
•	Any area that involves demolition activities should be			٨
	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;			
•	Where a scaffolding is erected around the perimeter of a			
	building under construction, effective dust screens,			٨
	sheeting or netting should be provided to enclose the			
	scaffolding from the ground floor level of the building, or a			
	canopy should be provided from the first floor level up to			
	the highest level of the scaffolding;			N/A
•	Any skip hoist for material transport should be totally			11/7 (
	enclosed by impervious sheeting;			
•	Every stock of more than 20 bags of cement or dry			N/A
	pulverised fuel ash (PFA) should be covered entirely by			11/7 (
	impervious sheeting or placed in an area sheltered on the			
	top and the 3 sides;			N/A
•	Cement or dry PFA delivered in bulk should be stored in a			1 1// 1
	closed silo fitted with an audible high level alarm which is			
	interlocked with the material filling line and no overfilling is			
	allowed;			
•	Loading, unloading, transfer, handling or storage of bulk			N/A
	cement or dry PFA should be carried out in a totally			
	enclosed system or facility, and any vent or exhaust		 	

		<ul> <li>should be fitted with an effective fabric filter or equivalent air pollution control system; and</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> </ul>					N/A
S3.8	D4	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected representative dust monitoring station	Construction phase	Λ
Noise Im	ipact (Con:	struction Phase)					
S4.9	N1	<ul> <li>Implement the following good site management practices:</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise	Contractor	All construction sites	Construction phase	л л л л
S4.9	N2	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through	Contractor	All construction sites where practicable	Construction phase	٨

			partial screening.				
S4.9	N3	Install movable noise barriers and full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction	Contractor	All construction sites where	Construction phase	^
			sites		practicable		
S4.9	N4	Use of "Quiet" Plant and Working Methods	Reduce the noise levels of	Contractor	All construction	Construction	N/A
			plant items		sites where	phase	
					practicable		
S4.9	N5	Sequencing operation of construction plants where practicable.	Operate sequentially within	Contractor	All construction	Construction	^
			the same work site to reduce		sites where	phase	
			the construction airborne		practicable		
			noise				
S4.9	N6	Implement a noise monitoring under EM&A programme.	Monitor the construction	Contractor	Selected	Construction	۸
			noise levels at the selected		representative	phase	
			representative locations		noise monitoring		
					stations		
Water Qu	ality Impac	t (Construction Phase)					
S5.7	W1	Construction Runoff and Site Drainage In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection	Control construction runoff	Contractor	All construction sites	Construction phase	
		Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures should be provided and the Storm Water Pollution Control Plan is given below.					
		where appropriate, should include the following: Stormwater Pollution Control Plan					
		At the start of site establishment, perimeter cut-off drains					*
		to direct off-site water around the site should be					
		constructed with internal drainage works and erosion and					
		sedimentation control facilities implemented. Channels					
		(both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be					
		provided on site to direct stormwater to silt removal					

		facilities. The design of the temporary on-site drainage			
		system will be undertaken by the Contractor prior to the			
		commencement of construction.			
	•	Diversion of natural stormwater should be provided as far			Λ
		as possible. The design of temporary on-site drainage			
		should prevent runoff going through site surface,			
		construction machinery and equipments in order to avoid			
		or minimize polluted runoff. Sedimentation tanks with			
		sufficient capacity, constructed from pre-formed individual			
		cells of approximately 6 to 8m3 capacities, are			
		recommended as a general mitigation measure which			
		can be used for settling surface runoff prior to disposal.			
		The system capacity shall be flexible and able to handle			
		multiple inputs from a variety of sources and suited to			
		applications where the influent is pumped.			
	•	The dikes or embankments for flood protection should be			٨
		implemented around the boundaries of earthwork areas.			
		Temporary ditches should be provided to facilitate the			
		runoff discharge into an appropriate watercourse, through			
		a silt/sediment trap. The silt/sediment traps should be			
		incorporated in the permanent drainage channels to			
		enhance deposition rates.			
	•	The design of efficient silt removal facilities should be			٨
		based on the guidelines in Appendix A1 of ProPECC PN			
		1/94. The detailed design of the sand/silt traps should be			
		undertaken by the contractor prior to the commencement			
		of construction.			
	•	Construction works should be programmed to minimize			N/A
		surface excavation works during the rainy seasons (April			
		to September). All exposed earth areas should be			
		completed and vegetated as soon as possible after			
		earthworks have been completed. If excavation of soil			
		cannot be avoided during the rainy season, or at			
		any time of year when rainstorms are likely, exposed			
		slope surfaces should be covered by tarpaulin or other			

		means.			
	•	All drainage facilities and erosion and sediment control			٨
		structures should be regularly inspected and maintained			
		to ensure proper and efficient operation at all times and			
		particularly following rainstorms. Deposited silt and grit			
		should be removed regularly and disposed of by			
		spreading evenly over stable, vegetated areas.			
	•	Measures should be taken to minimise the ingress of site			
		drainage into excavations. If the excavation of trenches in			۸
		wet periods is necessary, it should be dug and backfilled			
		in short sections wherever practicable. Water pumped out			
		from trenches or foundation excavations should be			
		discharged into storm drains via silt removal facilities.			
	•	All open stockpiles of construction materials (for example,			
		aggregates, sand and fill material) of more than 50m3			*
		should be covered with tarpaulin or similar fabric during			
		rainstorms. Measures should be taken to prevent the			
		washing away of construction materials, soil, silt or debris			
		into any drainage system.			
	•	Manholes (including newly constructed ones) should			٨
		always be adequately covered and temporarily sealed so			
		as to prevent silt, construction materials or debris being			
		washed into the drainage system and storm runoff being			
		directed into foul sewers.			
	•	Precautions to be taken at any time of year when			٨
		rainstorms are likely, actions to be taken when a			
		rainstorm is imminent or forecasted, and actions to be			
		taken during or after rainstorms are summarized in			
		Appendix A2 of ProPECC PN 1/94. Particular attention			
		should be paid to the control of silty surface runoff during			
		storm events.			
	•	All vehicles and plant should be cleaned before leaving a			
		construction site to ensure no earth, mud, debris and the			٨
		like is deposited by them on roads. An adequately			
		designed and sited wheel washing facilities should be			

Wash-water should	nstruction site exit where practicable. have sand and silt settled out and a weekly basis to ensure the					
removed at least on	a weekly basis to ensure the					
	5					
continued efficiency	of the process. The section of					
access road leading	to, and exiting from, the wheel-wash					
bay to the public roa	d should be paved with sufficient					
backfall toward the	wheel-wash bay to prevent vehicle					
tracking of soil and s	silty water to public roads and drains.					
Oil interceptors should	uld be provided in the drainage					
system downstream	of any oil/fuel pollution sources. The					N/A
oil interceptors shou	ld be emptied and cleaned regularly					
to prevent the releas	se of oil and grease into the storm					
water drainage syst <sup>r</sup>	em after accidental spillage. A bypass					
should be provided	for the oil interceptors to prevent					
flushing during heav	y rain.					
Construction solid w	aste, debris and rubbish on site					^
should be collected,	handled and disposed of properly to					X
avoid water quality i	mpacts.					
All fuel tanks and str	orage areas should be provided with					٨
locks and sited on s	ealed areas, within bunds of a					
capacity equal to 11	0% of the storage capacity of the					
largest tank to preve	ent spilled fuel oils from reaching					
water sensitive rece	ivers nearby.					
Regular environmer	tal audit on the construction site					
should be carried ou	it in order to prevent any					
malpractices. Notice	s should be posted at conspicuous					۸
locations to remind	he workers not to discharge any					
sewage or wastewa	ter into the meander, wetlands and					
fish ponds.						
S5.7 W2 <u>Stream Diversion</u>		Minimize water quality	Contractor	All streams that	Construction	
In order to prevent se	diment transport during riverbank	impact due to stream		required diversion	phase	N/A
works, deployment of	silt curtain should be implemented,	diversion				

	<u> </u>	·			·	T	·
		especially when construction works encroach or occur in	1	'			
		close distance to water body. It is recommended to carry	1	'			
		out all the riverbank works and diversion works within a	1	1			
		cofferdam or diaphragm wall and the work areas on	1	'			
		riverbed should be kept in dry condition.	ا ۱	'			
S5.7	W3	Groundwater from Contaminated Area	Minimize water quality	Contractor	All identified	Construction	
		For other inaccessible sites, site investigation is required	impact due to potential	1	groundwater-	phase	N/A
		when they are resumed and handed over to the Project	groundwater from	1	contaminated		
		Proponent to identify if contaminated groundwater is	contaminated area		areas		
		found.	1				
		If the investigation results indicated that the groundwater	1				N/A
		to be generated from construction works would be	1				
		contaminated, the contaminated groundwater should be	1				
		either discharged into recharged wells, or properly treated	1				
		in compliance with the requirements of Technical	1				
		Memorandum on Standards for Effluents Discharged into	1				
		Drainage on Sewerage Systems, Inland and Coastal	1				
		Waters.	1				
		If recharged well method were used, the groundwater	1				N/A
		quality in the recharged well should not be affected by	1				
		recharging operation, i.e. the pollution levels of the	1				
		recharged groundwater should not be higher than that in	1				
		the recharging wells.	1				
		If treatment and discharge method were used, the design	1				N/A
		of wastewater treatment facilities, such as active carbon	1				
		and petrol interceptor, should be submitted to the EPD and	1				
		a discharge license should be obtained under the WPCO	۱	'			
		•					·

		through the Regional Offices of EPD.					
S5.7	W4	Sewage from Workforce	Handling of site sewage	Contractor	All construction	Construction	
		Portable chemical toilets and sewage holding tanks should be			sites	Phase	
		provided for handling the construction sewage generated by the					۸
		workforce. A licensed Contractor should be employed to provide					
		appropriate and adequate portable toilets and be responsible for					
		appropriate disposal and maintenance.					
		Notices should be posted at conspicuous locations to remind the					
		workers not to discharge any sewage or wastewater into the					
		nearby environment during the construction phase of the Project.					
		Regular environmental audit on the construction site should be					
		conducted in order to provide an effective control of any					
		malpractices and achieve continual improvement of					
		environmental performance on site. It is anticipated that sewage					
		generation during the construction phase of the Project would not					
		cause water quality impact after undertaking all required					
		measures.					
Waste Ma	nagement	t (Construction Waste)					
S7.6	WM1	Waste Reduction Measures	Reduce waste generation	Contractor	All construction	Prior to the	
		Waste reduction is best achieved at the planning and design			sites where	commencement of	
		phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to			practicable	construction	
		achieve reduction:					
		segregate and store different types of waste in different					^
		containers, skip or stockpiles to enhance reuse or recycling					

		proper storage and site practices to minimize the potential					^
		for damage and contamination of construction materials;					
		plan and stock construction materials carefully to minimize					
		amount of waste generated and avoid unnecessary					
		generation of waste;					
		sort out demolition debris and excavated materials from					۸
		demolition works to recover reusable/recyclable portions					
		(i.e. soil, broken concrete, metal etc);					
		provide training to workers on the importance of appropriate					
		waste management procedures, including waste reduction,					N/A
		reuse and recycling.					
							۸
S7.6	WM2	Prepare Waste Management Plan and submit to the Engineer	Minimize waste generation	Contractor	All construction	Construction	N/A
		for approval	during construction		sites	phase	
S7.6	WM3	Good Site Practice	Minimize waste generation	Contractor	All construction	Construction	
		The following good site practices are recommended throughout the construction activities:	during construction		sites	phase	
		Nomination of an approved personnel, such as a site					•
		manager, to be responsible for the implementation of good					
		site practices, arrangements for collection and effective					
		disposal to an appropriate facility, of all wastes generated					
		at the site;					
		Training of site personnel in site cleanliness, appropriate					٨
		waste management procedures and concepts of waste					
		reduction, reuse and recycling;					
		Provision of sufficient waste disposal points and regular					۸

		<ul> <li>collection for disposal;</li> <li>Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> </ul>					Λ Λ
S7.6	WM4	<ul> <li><u>Storage of Waste</u></li> <li>The following recommendation should be implemented to minimize the impacts: <ul> <li>Waste such as soil should be handled and stored well to ensure</li> <li>secure containment;</li> <li>Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away;</li> <li>Different locations should be designated to stockpile each material to enhance reuse;</li> </ul> </li> </ul>	Minimize waste impacts from storage	Contractor	All construction sites	Construction phase	Λ Λ
S7.6	WM5	<ul> <li><u>Collection and Transportation of Waste</u></li> <li>The following recommendation should be implemented to minimize the impacts: <ul> <li>Remove waste in timely manner;</li> <li>Employ the trucks with cover or enclosed containers for waste transportation;</li> </ul> </li> </ul>	Minimize waste impact from storage	Contractor	All construction sites	Construction phase	Λ Λ

		Obtain relevant waste disposal permits from the appropriate authorities; and					٨
		Disposal of waste should be done at licensed waste					
		disposal facilities.					
S7.6			N 41:	O antra at a r	All	Quantum time	
57.0	WM6	<u>Excavated and C&amp;D Material</u> Wherever practicable, C&D materials should be segregated from	Minimize waste impacts	Contractor	All construction	Construction	٨
		other wastes to avoid contamination and ensure acceptability at	from excavated and C&D		sites	phase	, A
		Public Fill Reception Facilities areas or reclamation sites. The	material				
		following mitigation measures should be implemented in handling the excavated and C&D materials:					
		Tanuling the excavated and C&D materials.					
		Maintain temporary stockpiles and reuse excavated fill					۸
		material for backfilling;					
		Carry out on-site sorting;					N/A
		Deliver surplus artificial hard materials to Tuen Mun Area					N/A
		38 recycling plant or its successor for recycling into					
		subsequent useful products;					
		Make provisions in the Contract documents to allow and					N/A
		promote the use of recycled aggregates where					
		appropriate; and					
		Implement a recording system for the amount of waste					۸
		generated, recycled and disposed of for checking;					
		Standard formwork should be used as far as practicable in order					N/A
		to minimize the arising of C&D waste. The use of more durable					
		formwork (e.g. metal hoarding) or plastic facing should be					
		encouraged in order to enhance the possibility of recycling. The					
		purchasing of construction materials should be carefully planned					
		in order to avoid over ordering and wastage.					
		······································					

		Wheel wash facilities have to be provided at the site entrance					
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		before the trucks leaving the works area.	<b>_</b>	-			<u>л</u>
S7.6	WM7	Contaminated Soil	Remediate contaminated	Contractor	All construction	Construction	
		As a precaution, it is recommended that standard good site	soil		sites where	phase	^
		practice should be implemented during the construction phase			applicable		
		to minimize any potential exposure to contaminated soils or					
		groundwater. The details of mitigation measures to minimize					
		the potential environmental implications arising from the					
		handling of contaminated materials refer to Land					
		Contamination Section.					
S7.6	WM8	Chemical Waste	Control the chemical waste	Contractor	All construction	Construction	
		If chemical wastes are produced at the construction site, the	and ensure proper storage,		sites	phase	*
		Contractors should register with EPD as chemical waste	handling and disposal				
		producers. Chemical wastes should be stored in appropriate					
		containers and collected by a licensed chemical waste					
		Contractor. Chemical wastes (e.g. spent lubricant oil) should be					
		recycled at an appropriate facility as far as possible, while the					
		chemical waste that cannot be recycled should be disposed of					
		at either the Chemical Waste Treatment Centre, or another					
		licensed facility, in accordance with the Waste Disposal					
		(Chemical Waste) (General) Regulation.					
S7.6	WM9	General Waste	Minimize production of the	Contractor	All construction	Construction	
		General refuse should be stored in enclosed bins	general refuse and avoid		sites	phase	N/A
		separately from construction and chemical wastes.	odour, pest and litter impacts				
		Recycling bins should also be placed to encourage					
		recycling.					
		Preferably enclosed and covered areas should be					^
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		provided for general refuse collection and routine cleaning					
		for these areas should also be implemented to keep areas					
		clean.					
		A reputable waste collector should be employed to remove					N/A
		general refuse on a daily basis.					
S7.6	WM10	<u>Sewage</u>	Minimize production of	Contractor	All construction	Construction	
		The WMP should document the locations and number of	sewage impacts		sites	phase	N/A
		portable chemical toilets depending on the number of					
		workers, land availability, site condition and activities.					
		Regularly collection by licensed collectors should be					N/A
l		arranged to minimize potential environmental impacts.					
S7.6	WM11	Topsoil reuse – Topsoil, where identified, should be stripped and	Good site practice	Contractor/	Onsite	Construction	N/A
l		stored for re-use in the construction of the soft landscape works,		Project		phase	
I		where practical. This is considered a general measure for good		Proponent			
I		site practice.					
Cultural H	leritage (P	re-construction Phase)			L		
S11.6.1	CH1	Undertaking Further Archaeological Survey to Cover the	To confirm and verify the	Project	In the not-yet-	After land	N/A
l		Outstanding Areas	findings of the EIA	Proponent/	surveyed-areas	resumption but	
l		Further archaeological surveys to cover the outstanding areas of		Contractor/	with medium	before construction	
l		the not-yet-surveyed-area with medium archaeological potential		Qualified	archaeological		
l		located in the areas with proposed development as presented in		Archaeologist	potential located		
l		Figure 11.9 should be implemented after land resumption to			in the areas within		
I		confirm and verify the findings of the EIA. The survey should			Areas D1-11, A3-		
I		be conducted by a professional archaeologist and prior to			5, A3-6, B1-1, and		
l		fieldwork commencement, the archaeologist should obtain a			B1-7,		
l		Licence to Excavate and Search for Antiquities from the					
l		Authority under the AM Ordinance. It should be noted that the					

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		scope of further archaeological survey is based on the current					
		proposed alignment. Any additional works areas which have					
		not been covered by the current archaeological impact					
		assessment should be covered as soon as possible. Subject					
		to the findings of the archaeological survey to be conducted after					
		land resumption, additional mitigation measures would be					
		designed and implemented before the commencement of					
		construction works to mitigate the adverse impact.					
S11.6.1	CH2	Undertaking Survey-cum-Rescue Excavation	To define the precise	Project	In KTN NDA, for	After land	N/A
		A Survey-cum-Rescue Excavation should be conducted after	archaeological deposits	Proponent/	Site 3 and In FLN	resumption but	
		land resumption and before the commencement of construction	extent and to preserve the	Contractor/	NDA for Site 5.	before construction	
		works to define the precise archaeological deposits extent and to	archaeological resources as	Qualified		commencement	
		preserve the archaeological resources by record. The	far as possible	Archaeologist		of the zone	
		excavation should be conducted by a professional archaeologist					
		and prior to fieldwork commencement, the archaeologist should					
		obtain a Licence to Excavate and Search for Antiquities from the					
		Authority under the AM Ordinance.					
S11.6.1	СНЗ	Undertaking Preservation in-situ for Site 7	To preserve the	Project	Site 7 in FLN NDA	After land	N/A
		Preservation in-situ of the cultivation deposits in Site 7 is	archaeological resources as	Proponent/		resumption prior to	
		proposed. If disturbance to the site by the design of the Central	far as possible.	Contractor/		preconstruction	
		Park is unavoidable, further archaeological survey should be		Qualified		stage of the	
		conducted after land resumption prior to the pre-construction		Archaeologist		proposed Central	
		stage to assess the feasibility to incorporate Site 7 into the				Park (Area C2-8,	
		design of the development plan of the proposed zone.				Zoning O)	
		Appropriate followup actions, including preservation of the					
		significant archaeological deposits in-situ in the Central Park,					
		would then be considered with the consent of AMO.					
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S11.6.1	CH4	The recommended mitigation measure of preservation in-situ with further archaeological survey should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance.	To preserve the	Project	Spots A, D, F to	Before the	N/A
		Induction training should be provided to the construction	archaeological resources as	Proponent/	Н	commencement of	
		Contractor before the commencement of the excavation works in	far as possible	Contractor/		the excavation	
		Spots A, D, F to H. An induction will be conducted as part of		Qualified		works and before	
		the environmental health and safety induction programme to all		Archaeologist		site staff are	
		site staff before they are deployed on site. The induction will				deployed on site	
		include an introduction on the historical development of the Site,					
		the possible archaeological remains that may be encountered					
		during ground excavation works as well as the reporting					
		procedures in case suspected archaeological remains are					
		identified. A set of the presentation material (in the form of					
		power point presentation) with content details will be prepared					
		by an archaeologist and submitted to AMO for reference and					
		record purpose. The first induction briefing will be video recorded					
		and it will be used as induction briefing material for new site					
		staff.					
S11.6.1	CH5	Undertaking Archaeological Impact Assessment before	To define the precise	Project	Area B1-8 and	After land	N/A
		Construction at A1	archaeological deposits	Proponent/	B1-9 zoned as R4	resumption but	
			extent and to preserve the	Contractor/	and R3 in A1	before construction	
		It is recommended that an Archaeological Impact Assessment to	archaeological resources as	Qualified			

		be conducted in the impacted area in Area B1-8 and B1-9 at A1	far as possible	Archaeologist			
		(Sheung Shui Wa Shan Site of Archaeological Interest) after land	, , , , , , , , , , , , , , , , , , ,	5			
		resumption and before construction when detail construction					
		work information is available to determine the need for further					
		archaeological follow up actions.					
S11.6.1	CH6	Undertaking Archaeological Impact Assessment before	To define the precise	Project	Area within A1	After land	N/A
		Construction within A1 but except Area B1-8 and B1-9	archaeological deposits	Proponent/	except Area B1-8	resumption but	
		Should there be any development work within the Sheung Shui	extent and to preserve the	Contractor/	and B1-9 in R4	before construction	
		Wa Shan Site of Archaeological Interest, it is recommended that	archaeological resources as	Qualified	&R3 zoning		
		an Archaeological Impact Assessment is required after land	far as possible.	Archaeologist			
		resumption and before construction when detail construction					
		work information is available to determine the need for further					
		archaeological follow up actions.					
S11.6.2	CH7	Undertaking baseline condition survey and baseline vibration	To minimize the vibration	Project	G303 and G308	Preconstruction	N/A
		impact assessment	impacts during	Proponent/		stage before	
		In case any potential vibration impact on any nearby built	preconstruction stage on	Contractor		commencement of	
		heritage features are identified during the pre-construction stage	any identified potential			construction works	
		of the Project, prior to commencement of construction works, a	vibration impacted built			during Schedule 3	
		baseline condition survey and baseline vibration impact	heritage features			study	
		assessment should be conducted by a qualified building					
		surveyor or a qualified structural engineer to define the vibration					
		limit (a vibration limit at 7.5mm/s could be adopted for graded					
		historic buildings) and to evaluate if construction vibration					
		monitoring and structural strengthening measures are required					
		during construction phase so as to ensure the construction					
		performance meets with the vibration standard stated in the EIA					

		report. The condition survey of graded historic building should					
		be submitted to AMO for information.					
S11.6.2	CH8	Undertaking baseline condition survey and baseline vibration	To minimize the vibration	Project	KT57, FL05,	Preconstruction	N/A
		impact assessment	impacts during	Proponent/	FL18, and FL2	stage before	
		In case any potential vibration impact on any nearby built	preconstruction stage on	Contractor		commenceme nt of	
		heritage features are identified during the pre-construction stage	any identified potential			construction works	
		of the Project, prior to commencement of construction works, a	vibration impacted built				
		baseline condition survey and baseline vibration impact	heritage features				
		assessment should be conducted by a qualified building					
		surveyor or a qualified structural engineer to define the vibration					
		limit (a vibration limit at 7.5mm/s and 15mm/s could be adopted					
		for graded historic buildings and historic buildings respectively)					
		and to evaluate if construction vibration monitoring and structural					
		strengthening measures are required during construction phase					
		so as to ensure the construction performance meets with the					
		vibration standard stated in the EIA report. The condition					
		survey of graded historic building should be submitted to AMO					
		for information.					
S11.6.2	CH9	Conducting Photographic and Cartographic Records Prior to	To preserve the directly	Project	Ancillary	Prior to Removal /	N/A
		Removal/Relocation of Impacted Built Heritages	impacted sites by record	Proponent/	structures of	Relocation of	
		Prior to removal/relocation of the directly impacted historical	prior to their removal /	Contractor	G303, HKT01,	features before	
		buildings and cultural/historical landscape features, photographic	relocation		HKT02, Entrance	commenceme nt of	
		and cartographic records should be conducted to preserve them			Gate of HKT03,	construction works	
		by record. Liaison with and obtaining agreement from the			HKT04, KT01 to	during Schedule 3	
		descendants of these features will be carried out the Project			KT10, KT13,	study	

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		Proponent.			KT36, KT39,		1
			1		KT40, KT41,		1
			1		KT43, KT45,		1
ĺ			1		KT47, KT50,		1
			1		KT54, KT62 to		1
			1		KT63, KT69,		1
			1		FL01, FL16, and		1
			1		FL35		
S11.6.2	CH10	Conducting Photographic and Cartographic Records Prior to	To preserve the directly	Project	KT12 and KT61	Prior to Removal /	N/A
		Removal/Relocation of Impacted Built Heritages	impacted sites by record	Proponent/	1	Relocation of	1
		Prior to removal/relocation of the directly impacted historical	prior to their removal /	Contractor	ĺ	features before	1
		buildings and cultural/historical landscape features, photographic	relocation		1	commencement of	1
		and cartographic records should be conducted to preserve them	1		1	construction works	1
		by record. Liaison with and obtaining agreement from the			1		1
		descendants of these features will be carried out by the Project			1		
		Proponent.			1		
S11.6.2	CH11	Relocation of Built Heritages Relocation of built heritages to a	To preserve the directly	Project	НКТ01, НКТ02,	After the	N/A
		reasonable location nearby may be required.	impacted sites by relocation	Proponent/	Entrance Gate of	photographic and	1
			1	Contractor	НКТ03	cartographic	
			1		1	records and before	
			1		1	commencement of	1
					1	construction works	
S11.6.2	CH12	Drainage System and Access Route Design For the retained	To prevent the persevered	Contractor	The retained built	Pre-construction	N/A
		built heritage items in developable area, drainage system and	flooding and maintain the	/Detailed Design	heritage items	phase	1
		access route would be designed to prevent the persevered	accessibility to the built	consultant	i i		1
		flooding and maintain the accessibility to the built heritage.	heritage		1		1
Cultural F	leritage (C	Construction Phase)		μ		L 1	-
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S11.6.1	CH13	Inform Upon Archaeological Discovery	Special attention should be	Contractor	All soil excavation	Immediately upon	
		Pursuant to the Antiquities and Monuments Ordinance, the	given to areas evaluated to		works	discovery during	N/A
		construction Contractor should inform the AMO immediately in	have archaeological			excavation works	
		case of discovery of antiquities or supposed antiquities in the	potential or significance.				
		course of excavation works in construction phase.					
S11.6.2	CH14	Watertable Monitoring	To minimize the potential	Contractor	Within NDAs	Construction	
		Since the construction works and development activities may	impacts to the built heritage			phase	N/A
		induce change in the watertable. It is recommended the	items by the change of				
		Contractor should ensure that the change of watertable induced	watertable induced by the				
		by the construction works and development activities will not	works during the				
		result in settlement of built heritage.	Construction phase				
S11.6.2	CH15	Conducting Construction Vibration Monitoring and Structural	To minimize the potential	Contractor	Identified potential	Construction	
		Strengthening Measures	impacts during Construction		vibration impacted	phase, with details	N/A
		Construction vibration monitoring and structural strengthening	phase on any identified		built heritage	specified in	
		measures should be conducted during Construction phase based	potential vibration impacted		features	baseline condition	
		on the assessment result of baseline condition survey and	built heritage features			survey and	
		baseline vibration impact assessment, so as to ensure the				baseline vibration	
		construction performance meets with the vibration standard				impact	
		stated in the EIA report.				assessment	
Landscap	e and Visu	ual Impact (Detailed Design, Prior to Construction, Construction	and Operation Phases)	•			
S.12.9	LV1	General Good Practice Measures - For areas unavoidably		Detailed design	Throughout	Prior to	
		disturbed by the Project on a short term basis e.g. works areas,		consultant/	NDAs,	Construction,	
		the general principle to try and restore these to their former state		Contractor		Construction & for	N/A
		to suit future land use, should be adhered to.				all planting, this	
		With regard to topsoil, where identified, it should be stripped,				should be installed	
		treated appropriately, and where suitable and practical stored for				as the areas	
		re-use in the construction of the soft landscape works such as				become available,	

		roadside amenity strips, and open space sites.				to achieve early	
						establishment	
S.12.9	LV2	Minimum Topographical Change -To minimize landscape and	Reduce topographical	Government /	Throughout	Prior to	N/A
MM1		visual impacts, the footprint and elevation of such elements	changes and minimize land	Detailed Design	NDAs, particularly	Construction	
		should be optimized to reduce topographical/ landform changes,	resumption	Consultant/	for reservoirs		
		as well as reduce land take and interference with natural terrain.		Contractor			
		Where there is a need to significantly cut into the existing					
		landform, retaining walls should be considered as well as cut					
		slopes, to minimize landform changes and land resumption, while					
		also considering visual amenity. Earthworks and engineered					
		slopes should be designed to be a visually interesting landform,					
		compatible with the surrounding landscape and to mimic the					
		natural contouring and terrain e.g. introduction and continuation					
		of natural features such as spurs and ridges where appropriate,					
		to support assimilation with the hillside setting.					
S.12.9	LV3	Detailed Design (Visual) -The footprint and massing of	Improve visual amenity of	Detailed Design	Throughout NDAs	Prior to	N/A
MM2		development components and the works area should also be	the new buildings, NDAs in	Consultant		Construction	
		kept to a practical minimum and the detailed design of	general and integrate as				
		development components for Construction phase should	best possible into the				
		follow the Sustainable Building Design Guidelines. The	surrounding landscape				
		form, textures, finishes and colours of the proposed					
		development components should aim to be compatible with					
		the existing surroundings. To improve visual amenity					
		designs should be aesthetically pleasing and treatment of					
		structures also improve visual amenity. For example,					
		natural building materials such as stone and timber, should					
		be considered for architectural features, and light earthy tone					

		colours such as shades of green, shades of grey, shades of					
		brown and off-white should also be considered to reduce the					
		visibility of the development components, including all					
		roadwork, buildings and noise barriers. In addition, the					
		design of structures should consider green roofs were					
		feasible, following stated guidelines. All Noise barriers,					
		particularly noise barriers but also any barriers proposed for					
		ecological impact mitigation, should be kept to a practical					
		minimum, and be of such a designed as to integrate as well					
		as possible into the surrounding visual context and be as low					
		as practical to minimize blocking views. Noise barrier					
		design, including vertical, cantilever or curved, and noise					
		enclosures including semi-enclosure and full enclosure, at					
		grade and/ or elevated, should follow the guidelines stated.					
		Construction time frame should also be considered and					
		designs seek to keep it to a practical minimum.					
S12.9	LV 4	Avoid affecting Watercourses - In the detailed design,	Avoid direct impacts to	Detailed Design	All watercourses,	Prior to	N/A
MM14.4		consideration should be made of watercourses, to minimize	watercourses	Consultant/	particularly the	Construction and	
		any impacts e.g. at new bridge crossings, viaducts, road		Contractor	stream at Siu	Construction	
		alignment etc. Guidelines stated should be followed.			Hang San Tsuen	Phase	
		For example, for the stream at Siu Hang San Tsuen in FLN			that will flow under		
		NDA, much of the stream is located underneath the viaduct			the Fanling		
		for the proposed Fanling Bypass. In order to avoid impacts to			Bypass Eastern		
		the stream, the detailed final design of the viaduct should			Section		
		follow guidelines and ensure that no viaduct footings or other					
		structures are placed in the stream.					
		Bridges and box culverts should also be used to minimize the					

		necessity of watercourse modification and protect the					
Landsca	ne and Vis	watercourses where necessary.  sual (Construction)		<u> </u>		<u> </u>	
S.12.9	LV5	Open Space Provision - the principles adopted in the RODP	Reprovision of open space.	Government	Onsite as	Prior to	N/A
MM3	-	planning ensure that public open space systems are	Enhance visual amenity of	Developer/	stipulated in the	Construction and	1
		incorporated. All requirements for open space areas	the area and improve the	Detailed Design	planning	Construction Phas	1
		stipulated in the planning documents for the formulation of	overall landscape character	Consultant/	documents for the		1
		the Preliminary Layout Plan should be adhered to.		Contractor/	formulation of the		1
				Contractory	Preliminary		1
				1	Layout Plan		1
			'	<b></b> `	Layout i an	ļļ	<b> </b>
S.12.9	LV6	Tree Protection & Preservation – Exiting trees to be retained	Protect and Preserve Trees	Government /	Onsite	Prior to	N/A
MM4		within the Project Site should be carefully protected during		Detailed Design		Construction and	1
		construction. In particular OVTs will be preserved according		Consultant/		Construction	1
ı		to ETWB Technical Circular (Works) No. 29/2004. Detailed		Contractor		Phase	1
ı		Tree Protection Specification shall be provided in the					1
		Contract Specification. Under this specification, the					1
		Contractor shall be required to submit, for approval, a					1
ı		detailed working method statement for the protection of trees					1
ı		prior to undertaking any works adjacent to all retained trees,					1
ı		including trees in Contractor's works areas.		1			1
ı		A detailed tree survey will be carried out for the Tree Removal		1			1
1		Application (TRA) process which will be carried out at the		1			1
ı		later detailed design stage of the Project. The detailed tree		1			1
1		survey will propose which trees should be retained,		1			1
1		transplanted or felled and will include details of tree		1	·   ·		1
ı		protection measures for those trees to be retained					1

S.12.9 LV7 Tree Transplantation - Trees unavoidably affected by the Transplant Trees where Government / Onsite where Prior to N/A MM5 Project works should be transplanted where practical. Trees suitable for transplantation **Detailed Design** possible. Construction, should be transplanted straight to their final receptor site and Consultant/ Otherwise Construction not held in a temporary nursery as far as possible. Contractor consider offsite Phase & locations Maintenance in A detailed Tree Transplanting Specification shall be provided **Operation Phase** in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to. LV8 N/A S.12.9 Slope Landscaping – Site formation should be reduced as far To avoid substantial slope Government / Onsite Prior to MM6 as possible. Seeding of modified slopes should be done as cutting and fill slopes. **Detailed Design** Construction, soon as grading works are completed to prevent erosion and To prevent erosion and Consultant/ Construction subsequent loss of landscape resources and character. subsequent loss of Contractor Phase & Woodland tree seedlings and/ or shrubs should be planted landscape resources and Maintenance in where slope gradient and site conditions allow. **Operation Phase** character. To ensure man-made slopes

		In addition, landscape planting should be provided for the	are as visually amenable as				
		retaining structures associated with modified slopes where	possible.				
		conditions allow. All slope landscaping works should comply					
		with GEO Publication No. 1/2011-Technical Guidelines on					
		Landscape Treatment for Slopes.					
S.12.9	LV9	Compensatory Planting – Compensatory tree planting for	Compensate for trees and	Government /	Onsite where	Prior to	N/A
MM7		felled trees shall be provided to the satisfaction of relevant	shrubs lost due to the	Detailed Design	possible.	Construction,	
		Government departments. Required numbers and locations	Project.	Consultant/	Otherwise	Construction	
		of compensatory trees shall be determined and agreed		Contractor	consider offsite	Phase &	
		separately with Government during the Tree Removal			locations	Maintenance in	
		Application process under ETWBTC 3/2006.				Operation Phase	
		Compensatory planting is proposed at the potential open					
		areas such as open spaces, amenity areas, open areas of the					
		streetscapes, as well as the open areas within development					
		lots.					
		Compensatory planting for shrubs should be considered in					
		suitable locations. Native species such as Melastoma					
		malabathricum, Diospyros vaccinioides, Gardenia					
		jasminoides, Ixora chinensis, Ligustrum sinense, Litsea					
		rotundifolia, Melastoma dodecandrum, Atalantia buxifolia,					
		Rhodomyrtus tomentosa, Rhaphiolepis indica, and					
		Rhododendron simsii are suggested.					
L	L	1	1	1		1	1

S.12.9	LV10	Woodland Compensatory Planting –Specific Woodland			N/A
MM8		compensatory planting is proposed for any areas of quality			
		woodland that are unavoidably affected by the Project. The			
		location and design of the woodland compensatory planting			
		will principally be within habitats of lower value such as upland			
		grassland. The proposed locations are identified, for example,			
		on the foothills of Tai Shek Mo, and on the higher ground of			
		Fung Kong Shan in KTN NDA; along Fanling Bypass; and a			
		small area in the northern FLN NDA.			
		The intention of the compensatory woodland will be to			
		recreate areas of quality woodland, not necessarily to			
		compensate for loss of trees on a like for like basis (See E18			
		& E27 also).			
		Native tree species are suggested for planting in the			
		appropriate locations, including Ailanthus fordii, Bischofia			
		javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum			
		burmannii, Cinnamomum camphora, Xanthoxlyum			
		avicennaeHibiscus tiliaceus, Liquidambar formosana,			
		Sapium discolor, Schefflera heptaphylla and llex rotunda. In			
		addition some understory vegetation may be planted			
		including shrubs such as Atalantia buxifolia, Diospyros			
		vaccinioides, Gardenia jasminoides, Ixora chinensis,			
		Ligustrum sinense, Litsea rotundifolia, Melastoma			
		malabathricum, Melastoma dodecandrum, Rhodomyrtus			
		tomentosa, Rhaphiolepis indica, and Rhododendron simsii.			

		The area allocated for compensatory woodland planting					
		allows in part for the fact that it will take some time for the					
		compensatory planting to achieve the landscape and					
		ecological function and value of the area to be lost. In addition,					
		it allows for the fact that not all of the areas identified for					
		planting will prove to be plantable, by virtue of topography and					
		ground conditions and, especially, because though the areas					
		identified are largely grassland it is inevitable that these areas					
		will already support some patches of trees and shrubs which					
		would be inappropriate for further planting.					
S.12.9	LV11	Vertical Greening – Planting of climbers to grow up vertical	Soften hard surfaces and	Government /	On appropriate	Prior to	N/A
MM9		surfaces were appropriate (e.g. building edges, piers).	facilities	Developer/	structures	Construction,	
				Detailed Design		Construction	
				Consultant/		Phase &	
				Contractor		Maintenance in	
						Operation Phase	
S.12.9	LV12	Green Roof – Roof greening where appropriate should be	Reduce exposure to	Government /	On appropriate	Prior to	N/A
MM10		established on proposed buildings as per the guidelines	untreated concrete surfaces	Developer/	buildings	Construction,	
		stated. These guidelines provide further details including	and particularly mitigate	Detailed Design		Construction	
		information regarding structural loading, design,	visual impact to VSRs at	Consultant/		Phase &	
		maintenance, etc. considerations as well as providing	high levels. Provide	Contractor		Maintenance in	
		information on what types of plants might be suitable.	greening.			Operation Phase	

S.12.9	LV13	Screen Planting – Tall screen/buffer trees and shrubs should be	To screen proposed	Government /	Along roads,	Prior to	N/A
MM11		planted. This measure may additionally form part of the	structures such as roads	Detailed Design	around suitable	Construction,	
		compensatory planting.	and buildings. Improve	Consultant/	built structures, or	Construction	
			compatibility with the	Contractor	around VSRs to	Phase &	
			surrounding environment		contain their view	Maintenance in	
			and create a pleasant		out to the NDA	Operation Phase	
			pedestrian environment		structures.		
S.12.9	LV14	Road Greening –For viaducts, soft landscaping should be	To soften the hard, straight	Government /	On viaducts or	Prior to	N/A
MM12		provided to soften the hard, straight edges (for climbers used to	edges and provide greening	Developer/	along roads	Construction,	
		cover the vertical, hard surfaces of the piers – see MM9 Vertical	along roads.	Detailed Design		Construction	
		Greening) and shade tolerant plants should be planted, where		Consultant/		Phase &	
		light is sufficient, to improve aesthetic value of areas under		Contractor		Maintenance in	
		viaducts. Both at grade planting and use of elevated planters				Operation Phase	
		should be considered for the soft landscaping of viaducts, taking					
		into account the preference to minimize the overall viaduct bulk					
		and integrate architectural forms and textural finishes which					
		improve aesthetics.					
		For at grade roads, planting should be considered along central					
		dividers and on road islands e.g. in the middle of roundabouts.					
		(Roadside planting i.e. at the road edge and not in the central					
		divider or road island, is considered part of Screen Planting)					

S.12.9	LV15	Marsh/Wetland Compensation – The proposed Long Valley	Compensate for Marsh/	Project	Onsite where	Prior to	N/A
MM13 &		Nature Park (LVNP) will be designed and implemented to	Wetland lost due to the	Proponent/	possible.	Construction,	
EIA Annex		enhance on- wetland areas within the LVNP. (See E4,E15 and	Project.	Detailed Design	Otherwise	Construction	
13		E25 also)		Consultant/	consider offsite	Phase &	
		Also see LV16, LV17, and LV18 as wetland planting should be		Contractor/	locations	Maintenance in	
		provided along the embankments and beds of modified/		Maintenance		Operation Phase	
		reprovisioned watercourses.		Authority			
S.12.9	LV16	Reprovision of Natural Stream – Where natural streams are	Achieve a natural stream,	Government /	Streams and	Prior to	N/A
MM14.1		unavoidably affected along some of their length, they can be	similar to existing, including	Developer/	channelized	Construction,	
		diverted to avoid the proposed new developments and retain the	wetland planting provision	Detailed Design	watercourses	Construction	
		integrity of the whole stream. Detailed design of any stream	for embankments	Consultant/	e.g. a Ma Tso	Phase &	
		diversion should follow the Guidelines in ETWB Technical		Contractor	Lung and Siu Han	Maintenance in	
		Circular (Works) No. 5/2005 (Protection of natural streams/rivers			San Tsuen	Operation Phase	
		from adverse impacts arising from construction works) and					
		appropriate construction methods should be used.					
		Two short stretches of the Ma Tso Lung Stream will be affected					
		by Project in the KTN NDA; by the LMC Eastern Connection					
		Road on the western border of Site F1-3 and further upstream					
		by Site E-2.					
		At both these locations, the stream will be reprovisioned and					
		maintain the flow between unaffected sections of the stream.					

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	vegetation will be retained and enhanced and human activities				1	
	will be limited in order to avoid direct impacts to the stream bed				1	
'	and to minimize potential indirect impacts to the stream and					
	riparian corridor. (See E3 also)	1				
LV18	Enhancement Planting along Embankment - For channelized	Minimize the necessity of	Government /	Channelized	Prior to	N/A
'	watercourses, if these are modified, the Drainage Services	watercourse modification,	Developer/	watercourse,	Construction,	
'	Department Practice Note No.1/2005 – Guidelines on	protect watercourses where	Detailed Design	particularly the Ma	Construction	
'	Environmental Considerations for River Channel Design, should	possible and enhance	Consultant/	Wat River	Phase &	
'	be considered and appropriate mitigation measures included	channelized watercourses	Contractor	Channel Diversion	Maintenance in	
'	ensuring the new watercourses match the existing as far as				Operation Phase	
'	possible. Measures can include enhancement planting to				1	
'	upgrade the channels as appropriate, including consideration of				1	
'	wetland planting along embankments where appropriate; as well	[			1	
'	as consideration of the best materials for the channel lining (e.g.				1	
'	gabion). All measures must also ensure any necessary				1	
'	maintenance work can be carried out and that the channel	[			1	
	meets all its requirements for water flow, etc.					
	1					
	For example, a stretch of the Ma Wat River Channel in the south				1	
	of FLN NDA will have to be diverted for the construction of the				1	
	Fanling Bypass Eastern Section. This measure will be				1	
<u> </u>	particularly relevant in this area.	<u> </u>		′	1	
	LV18	<ul> <li>will be limited in order to avoid direct impacts to the stream bed and to minimize potential indirect impacts to the stream and riparian corridor. (See E3 also)</li> <li>LV18 Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc.</li> <li>For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be</li> </ul>	will be limited in order to avoid direct impacts to the stream bed and to minimize potential indirect impacts to the stream and riparian corridor. (See E3 also)Minimize the necessity of watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel meets all its requirements for water flow, etc.Minimize the necessity of watercoursesFor example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will beMinimize the necessity of watercourses	will be limited in order to avoid direct impacts to the stream bed and to minimize potential indirect impacts to the stream and riparian corridor. (See E3 also)Minimize the necessity of watercourses diffication, protect watercourses where possible and enhanceGovernment / Developer/ Detailed Design Consultant/ be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel meets all its requirements for water flow, etc.Minimize the necessity watercourses possible and enhance consultant/ channelized watercoursesContractorFor example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will beMinimize the necessity of watercourses where possible and enhance consultant/ channelized watercoursesContractor	will be limited in order to avoid direct impacts to the stream and riparian corridor. (See E3 also)Minimize the secssity of watercourses, if these are modified, the Drainage Services pertent Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel meets all its requirements for water flow, etc.Minimize the necessity of watercourses possible and enhance channelized watercourses consultant/ ContractorChannelized watercourse consultant/ Consultant/ consultant/ consultant/ consultant/ consultant/ consultant/ consultant/ co	will be limited in order to avoid direct impacts to the stream and riparian corridor. (See E3 also)will be limited in order to avoid direct impacts to the stream and riparian corridor. (See E3 also)Minimize the necessity of watercourse modification, protect watercourses where possible and enhanceGovernment / Developer/Channelized watercourse, Construction, DevalperLV18Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel meets all its requirements for water flow, etc.Minimize the necessity of maintenance work can be carried out and that the channel meets all its requirements for water flow, etc.Government / Monitor Channel in the south of FLN NDA will have to be diverted for the construction of the Faning Bypass Eastern Section. This measure will beMinimize the necessity of maintenance work can be carried out and that the channel measure will beGovernment / Minimize the necessary maintenance work can be diverted for the construction of the Faning Bypass Eastern Section. This measure will beMinimize the necessity of maintenance work can be diverted for the construction of the Faning Bypass Eastern Section. This measure will beMinimize the necessity of maintenanceChannelized Minintenance Minimize the necessity of Minim

S12.9	LV19	Pond Replacement –Principles adopted in the design of the	Reprovision for ponds lost	Project	E1-7 and C1-9	Prior to	N/A
MM15		NDAs ensure that they incorporate ponds within the RODPs.	due to the Project.	Proponent/	(LVNP) in KNT	Construction,	
				Detailed Design	NDA and	Construction	
		All requirements for ponds stipulated in the planning documents		Consultant/	generally	Phase	
		for the formulation of the Preliminary Layout Plan (e.g. at Fung		Contractor/	throughout NDA	Maintenance in	
		Kong Shan Park in E1-7 of KNT ND) should be adhered to.		Maintenance		Operation Phase	
				Authority			
S.12.9	LV20	Screen Hoarding –Screen hoarding shall be erected along areas	To screen undesirable views	Contractor	Throughout NDAs	Construction	N/A
MM16		of the construction works site boundary where the works site	of the works site.			Phase	
		borders publically accessible routes and/or is close to visually					
		sensitive receivers (VSRs). It is proposed that the screening be					
		compatible with the surrounding environment and where					
		possible, non- reflective, recessive colours be used.					
		Any works areas near the ecological sensitive areas should					
		erect 2m high dull green site boundary fence. Details can refer to					
		the ecological impact assessment (Chapter 13 of the EIA report).					
S.12.9	LV21	Light Control – Construction day and night time lighting should	To minimize glare impact to	Government /	Throughout NDAs	Construction and	N/A
MM17		be controlled to minimize glare impact to adjacent VSRs during	adjacent VSRs	Developer/		Operation Phases	
		the Construction phase.		Contractor			
		Street and night time lighting shall also be controlled to minimize					
		glare impact to adjacent VSRs during the operation phase.					
Ecology	(Prior to C	Construction Phase or throughout the project)	1	1	1	1	

S. 13.9	E1	Egretry Habitat Creation & Management Plan (EHCMP) and	Compensate for loss of Man	Project	FLN area A1-7	Detailed design	N/A
5. 13.9	EI			-		-	N/A
		Woodland Planting and Management Plan (WPMP)	Kam To Road egretry.	Proponent/	(egretry	phase	
			Compensate for loss of	Detailed Design	compensation).		
			secondary woodland and	Consultant	KTN areas E1-8		
			hillside plantation of	(EHCMP and	and G1-3		
			ecological significance.	WPMP).	(woodland		
					compensation).		
S. 13.9	E2	Detailed design of development along lower reaches of Ma Tso	Minimize impacts on Ma Tso	Project	KTN areas F1-2	Detailed design	N/A
0. 10.0		Lung Stream and Ma Tso Lung San Tsuen Stream in OU zones	Lung Stream and Ma Tso	Proponent/	and F1-3 and	and construction	
		F1-2 and F1-3 and detailed design of LMC Loop Eastern	Lung San Tsuen Stream and		LMC Loop		
				Detailed Design		phases.	
		Connection Road with restoration of diverted stream and riparian	riparian corridor of	Consultant.	Eastern		
		corridor, permanent barrier and underpass on the at-grade	importance to species of	(design of Ma	Connection Road.		
		section	conservation significance.	Tso Lung			
				Stream diversion			
		Compensation for the loss of seasonally wet grassland at Ma		and buffer zone			
		Tso Lung by habitat restoration and enhancement along diverted		habitat			
		section of Ma Tso Lung Stream		restoration			
				measures)			
S13.9	E3	Detailed design, implementation and management of Siu Hang	Minimize impacts on Siu	PlanD, Project	FLN area D1-3.	Detailed design,	N/A
		San Tsuen Stream to have 10m wide vegetated buffer in Open	Hang San Tsuen Stream and	Proponent/		construction and	
		Space zone D1-3, Fanling Bypass to cross stream on viaduct.	stream fauna.	Detailed Design		operation phases.	
				Consultant/			
				Contractor/			
				Maintenance			

				Authority			
S.13.9	E4	Long Valley Nature Park (LVNP) designation, design and	Compensate for wetland	Project	Long Valley KTN	Detailed design	N/A
		implementation.	loss arising from the project	Proponent/	area C1-9 and	phase	
			and protection of Long	Detailed Design	any suitable areas		
			Valley from adverse	Consultant	to be identified		
		Enhancement of non-wetland habitats in LVNP. Planning for the	ecological impacts including	(Long Valley	during the		
		advanced provision of alternative foraging habitat along main	provision of	Nature Park	planning stage		
		river channels for large waterbirds.	additional/alternative habitat	Habitat Creation			
			for large waterbirds using Ng	& Management			
			Tung, Sheung Yue and Shek	Plan)			
			Sheung River channels.				
S13.9	E5	Stringent planning control requirements in Long Valley north and	Protect these wetland areas	PlanD.	KTN areas C2-1	Detailed design	N/A
		west of Sheung Yue River, including Ho Sheung Heung egretry.	from indirect impacts to		and C2-2 , Ho	phase	
			habitats and fauna		Sheung Heung		
			especially breeding ardeids		egretry and areas		
			foraging in these areas and		north of Long		
			utilizing flight-lines from Ho		Valley along the		
			Sheung Heung egretry.		Ng Tung River to		
					the Shenzhen		
			Avoid habitat loss and		River		
			disturbance to fauna of				
			conservation significance,				
			especially nesting ardeids				
			Maintenance of ecological				
			linkages with Deep Bay				
			ecosystem and avoidance of				

. <u> </u>	- <u>F</u>		Т		1		1
l			severance of these linkages,	'		'	
			especially for waterbirds				
S13.9	E6	Planning for creation of Green Corridors along the Sheung Yue,	Minimize disturbance to	Project	Area along Ng	Detailed design,	N/A
		Ng Tung and Shek Sheung Rivers, retention and provision of	large waterbirds using Ng	Proponent/	Tung, Sheung Yue	construction and	
		screen plantings where feasible; and detailed design of Open	Tung, Sheung Yue and Shek	Detailed Design	and Shek Sheung	operational	
		Space areas and development areas along river corridors.	Sheung River channels.	Consultant/	River	phases.	
				Contractor/		'	
l			Maintain ecological linkages	Maintenance		'	
l			within NDA Project Area and	Authority		'	
l			between Project Area and	1		'	
ł			Deep Bay ecosystem,	1		'	
1			especially for Long Valley	1	'	'	
1			and waterbirds.		'	1	
S13.9	E7	Building setback and mounding in locations near Long Valley.	Minimization of disturbance	PlanD	KTN area B3-12	Detailed design	N/A
1			impacts to fauna using Long	1	(30m setback	phase	
I		KTN area B3-12 (30m setback from road D3) and KTN area C1-	Valley.	'	from road D3) and	1	
I		1 (15m setback and mounding along northern and northeastern	'	'	KTN area C1-1	1	
I		boundaries).	'		(15m setback and	'	
I			'		mounding along	1	
I			'	'	northern and	1	
I			'		northeastern	1	
I					boundaries.	'	
S13.9	E8	Preparation and implementation of Guidelines for building design	Minimize mortality and	PlanD/ Project	Near Long Valley	Detailed design	N/A
1		measures to minimize mortality and light and glare impacts to	disturbance impacts on	Proponent/		phase	
1		fauna. Guidelines to address the following measures:	fauna, especially mammals	Developer/	'	'	
I		Use opaque, non-transparent, non-reflective noise barriers for all	and birds.	Detailed Design	!	1	
1		developments associated with the Project.		Consultant		'	
			//	·		,,	<u> </u>

[						
	<ul> <li>Measures to include the following:</li> <li>Fritting, or the placement of ceramic lines or dots on glass, which creates a visual barrier to birds and reduces air conditioning loads by lowering heat gain, while still allowing light transmission for interior spaces. It is most successful when the frits are applied on the outside surface. Frosted glass has similar effects;</li> <li>Angled glass to be used only for smaller panes in buildings with a limited amount of glass;</li> <li>The use of glass that reflects UV light (primarily visible to birds, but not to humans) to reduce collisions;</li> <li>Film and art treatment allow glass surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability;</li> <li>Lightweight external screens can be added to windows or become a façade element of larger buildings, and are suitable where non-operable windows are prevalent, which is often the case in modern buildings in HK</li> </ul>					
E9	Not used					N/A
E10	Review development footprint and layout of proposed	Minimize loss of secondary	Project	KTN areas D1-	Detailed design	N/A
	developments in KTN areas D1-11a and G1-5 to avoid/minimize	woodland and shrubland of	Proponent/Detail	11a and G1-5 to	phase	
	direct and indirect impacts on secondary woodland at Ho	ecological value.	ed Design	avoid/minimize		
	Sheung Heung and shrubland at Crest Hill.		Consultant	direct and indirect		
				impacts on		
		<ul> <li>Fritting, or the placement of ceramic lines or dots on glass, which creates a visual barrier to birds and reduces air conditioning loads by lowering heat gain, while still allowing light transmission for interior spaces. It is most successful when the frits are applied on the outside surface. Frosted glass has similar effects;</li> <li>Angled glass to be used only for smaller panes in buildings with a limited amount of glass;</li> <li>The use of glass that reflects UV light (primarily visible to birds, but not to humans) to reduce collisions;</li> <li>Film and art treatment allow glass surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability;</li> <li>Lightweight external screens can be added to windows or become a façade element of larger buildings, and are suitable where non-operable windows are prevalent, which is often the case in modern buildings in HK</li> <li>E9 Not used</li> <li>E10 Review development footprint and layout of proposed developments in KTN areas D1-11a and G1-5 to avoid/minimize direct and indirect impacts on secondary woodland at Ho</li> </ul>	•Fritting, or the placement of ceramic lines or dots on glass, which creates a visual barrier to birds and reduces air conditioning loads by lowering heat gain, while still allowing light transmission for interior spaces. 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					secondary		
					woodland at Ho		
					Sheung Heung		
					and		
					Crest Hill		
S13.9	E11	No construction during ardeid breeding season (1 March to 31	Minimize disturbance	Project	Along and within	Detailed design/	N/A
		July) along Sheung Yue River north or east of KTN D1-5 and	impacts (including	Proponent/Detail	Sheung Yue and	construction	
		east of D1-9 and C2-3, construction hours restricted to 09.00 to	cumulative impacts with	ed Design	Ng Tung Rivers,	phase.	
		17.30 during 1 March to 31 July on new pedestrian bridge over	cycle track project) to	Consultant.Contr	Long Valley, Long		
		the Sheung Yue River, new pedestrian bridge over the tidal	flightlines of breeding	actor	Valley and		
		section of the Ng Tung River and existing bridge between KTN	ardeids		watercourse		
		areas C2-2 and C1-8.			upstream areas		
					including KTN		
		Review Design and construction methods for all bridges			area B3-12		
		especially those on the Sheung Yue and tidal Ng Tung Rivers					
		and adopt methods which minimize impacts on Long Valley and					
		the rivers, and disturbance and fragmentation impacts on fauna.					
		No overlap in construction of bridges over main river channels.					
		Measures to ensure no hydrological disruption to Long Valley					
		Watercourse and water supply to Long Valley to be designed at					
		the detailed design stage for the rechannelisation of the Long					
		Valley Watercourse and the development of areas through which					
		it passes, including KTN area B3-12. Contingency plan to					
		address any disruption to be included in LVNP HCMP. Avoid					
		removal or interference with screen planting undertaken under					
		the Construction of Cycle Tracks and Associated Supporting					

		Facilities from Sha Po Tsuen to Shek Sheung project.					
Ecology	(Construct	ion Phase)	L	1		1	
S13.9	E12	Compensatory egretry habitat provision and establishment.	Compensate for loss of Man	Project	FLN area A1-7	Construction	N/A
			Kam To Road egretry	Proponent/	500m from Man	phase.	
		Review condition and location of egretries before	habitat.	Detailed Design	Kam To Road		
		commencement of works. Formulate and implement additional		Consultant/	Egretry.		
		mitigation measures as appropriate.	Avoid mortality of breeding	Contractor			
			egrets				
		Phasing of works near and within Man Kam To Road Egretry					
		outside breeding season					
S13.9	E13	Review design and construction methods for bridges, especially	Minimize impacts on rivers	Project	Along and within	Detailed design	N/A
		those on the Sheung Yue and tidal Ng Tung Rivers, and adopt	and disturbance and	Proponent/	the Sheung Yue,	and construction	
		measures which minimize impacts on rivers and disturbance and	fragmentation impacts on	Detailed Design	Ng Tung and	phases	
		fragmentation impacts on fauna.	fauna	Consultant/	Shek Sheung		
				Contractor	Rivers		
		No construction during ardeid breeding season (1 March to 31					
		July) along Sheung Yue River north and east of KTN area D1-5					
		and east of D1-9 and C2-3 and restriction of working hours on					
		new pedestrian bridges over the Sheung Yue River and tidal Ng					
		Tung River to 09.00 to 17.30 during the ardeid breeding season					
		(1 March to 31 July)					
		Provision of alternative foraging habitat along main river					
		channels for large waterbirds.					

	1		I		Γ		I
S13.9	E14	Buffer zone of 15-30m as appropriate on both sides (not less	Minimize impacts direct and	PlanD/ Project	KTN areas H1-1,	Detailed design	N/A
		than 45m total width) of Ma Tso Lung Stream north of the point	indirect impacts of habitat	Proponent/	F12 and F1-3 and	and construction	
		where it is crossed by the LMC Loop Eastern Connection Road,	loss, disturbance, pollution	Developer/	Lok Ma Chau	phases.	
		and Ma Tso Lung Stream diversion during construction of the	and fragmentation on Ma	Detailed Design	Loop Eastern		
		LMC Loop Eastern Connection Road; development along lower	Tso Lung Stream and marsh	Consultant/	Connection Road.		
		reaches of Ma Tso Lung Stream and Ma Tso Lung San Tsuen	and riparian corridor of	Contractor.			
		Stream in OU zones in KTN areas F1-2 and F1-3 to be set back	importance to species of	(Design of Ma			
		beyond buffer.	conservation significance.	Tso Lung			
				Stream diversion			
		Construction and maintenance of permanent 1.2m high solid		and buffer zone			
		faunal barrier at all at-grade sections of LMC Loop eastern		habitat			
		connection Road north of junction with road D4 within 15-30m as		restoration			
		appropriate of Ma Tso Lung Stream buffer and construction of		measures)			
		faunal underpass beneath road.					
		Compensation for the loss of seasonally wet grassland at Ma					
		Tso Lung by habitat restoration and enhancement along diverted					
		section of Ma Tso Lung Stream.					
S.13.9	E15	Creation and enhancement of proposed Long Valley Nature Park	Compensate for wetland	Project	Long Valley, (KTN	Construction	N/A
		and creation and enhancement of wetland and buffer planting	loss arising from the project	Proponent/	area C1-9).	phase.	
		within LVNP.		Contractor			
				(LVNP Detailed			
				Habitat Creation			
				& Management			
				Plan)			

Creation of Green Corridors along the Sheung Yue, Ng Tung S13.9 E16 Minimize disturbance to Detailed Design Ng Tung, Sheung Detailed design N/A and Shek Sheung Rivers, retention and provision of screen waterbirds using Ng Tung, Consultant/ Yue and Shek and Construction Sheung Yue and Shek plantings where feasible; provision of Open Space areas and Contractor Sheung Rivers phases. development areas along river corridors; Sheung River channels. Design and erection of 2m high solid dull green site barrier fence between river channel and any active works area along or adjacent to Ng Tung, Sheung Yue and Shek Sheung Rivers. Ng Tung, Sheung Yue and Shek Sheung Rivers screen planting. E17 N/A S13.9 Design and erection of 2m high solid dull green site barrier fence Minimize dust, disturbance, Contractor Interface Construction between active works areas and all areas/habitats of ecological mortality and other adverse between phase. importance on edge of development areas, including along any ecological impacts on areas/habitats/ roads adjacent to or penetrating into areas/habitats of ecological habitats, flora and fauna. fauna/ flora of importance. Measures to minimize flightecological line impacts to birds, importance (e.g. Erection of a 2m high dull green site barrier fence at the edge of especially breeding ardeids. KTN areas B1-3, the works area or 30m from Ma Tso Lung Stream and tributaries, C1-5, C1-6, C1whichever distance is the greater. 9, C2-2, C2-4, C2-5, D1-8, E1-8, G1-3, H1-1, Ma Tso Lung Stream and tributaries; FLN areas A1-3, A1-7 and A1-9) and works areas; and around any

			1				
					works areas north		
					of the Fanling		
					Bypass and north		
					of the Ng Tung		
					River west of the		
					western terminus		
					of the Fanling		
					Bypass.		
					Riparian corridor		
					of Ma Tso Lung		
					Stream and		
					tributaries.		
S13.9	E18	Compensatory woodland planting, management and	Compensate for loss of	Project	KTN areas E1-8	Construction	N/A
		maintenance.	secondary woodland and	Proponent/	and G1-3.	phase.	
			hillside plantation of	Contractor			
			ecological significance.				
S13.9	E19	Use opaque, non-transparent, non-reflective noise barriers for all	Minimize mortality impacts	Contractor	All construction	Construction	N/A
		construction sites.	on birds.		sites	phase.	
		Unnecessary lighting should be avoided.					
S13.9	E20	Pre-site clearance check for presence of flora or fauna of	Minimize impacts to flora	Government/	All construction	Prior to clearance	N/A
		conservation significance and bat roosts. If any are found,	and fauna of conservation	Developer/	sites.	of vegetation and	
		measures should be proposed and implemented to avoid,	significance. Minimize	Contractor/		structures.	
		minimize and/or compensate for impacts; including adjustments	impacts to protected fauna	Ecologist			
		to design, timing of works, transplantation and translocation.	and flora species. Formulate				
		Seek agreement of relevant authorities including AFCD in	and implement mitigation				

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		respect of proposed measures, then implement.	measures to avoid, minimize				
			and/or compensate for				
		Pre-site clearance check on all construction sites and pre –	impacts; including				
		works commencement check on watercourses to be physically	adjustments to design,				
		and/or hydrologically impacted by construction activities for	timing of works,				
		presence of protected plant species/specimens of conservation	transplantation and				
		significance. If any are found consider adjustments to avoid,	translocation.				
		minimize and/or compensate for impacts; including adjustments					
		to design, timing of works,					
		Pre-site clearance of construction sites in Crest Hill area, KTN					
		areas D1-7, D1-11 and G1-5 (where Eurasian Hobby was					
		recorded) and on Cheung Po Tau, FLN area A3-1 (where Grey					
		Nightjar was recorded) for presence of any breeding					
		birds/breeding sites. If any are found consider adjustments to					
		avoid, minimize and/or compensate for impacts; including					
		adjustments to design, timing of works, transplantation and					
		translocation. Seek agreement of relevant authorities including					
		AFCD in respect of proposed measures, then implement.					
		Pre-site clearance check on all construction sites for presence of					
		Chinese Bullfrog, translocation to suitable areas including LVNP.					
S13.9	E21	Pre-works commencement check on watercourses to be	Minimize impacts to flora	Government/	All construction	Prior to clearance	N/A
		physically and/or hydrologically impacted by construction	and fauna of conservation	Developer/	sites.	of vegetation and	
		activities for presence of flora or fauna of conservation	significance. Minimize	Contractor/		structures.	
		significance and bat roosts. If any are found consider	impacts to protected fauna	Ecologist			
		adjustments to avoid, minimize and/or compensate for impacts;	and flora species. Consider				
		including adjustments to design, timing of works, transplantation	and implement adjustments				

							<u> </u>
		and translocation. Seek agreement of relevant authorities	to avoid, minimize or		1		
		including AFCD in respect of proposed measures, then	compensate for impacts;		1	1	
		implement.	including adjustments to		1	1	
			design, timing of works,		1	1	
		Pre-site clearance check on all construction sites for presence of	transplantation and		1	1	
		reptile species of conservation significance, capture and	translocation		1	1	
		translocate to receptor site; review translocation options in		1	1	1	
		respect to species in Ma Tso Lung area and determine whether		1	1	1	
		release locally or elsewhere is appropriate. Seek agreement of		1	1	1	
		relevant authorities including AFCD in respect of proposed		1	1	1	
		measures then implement			1	1	
				1	1	1	
		Pre-works commencement check on watercourses to be		1	1	1	
		physically and/or hydrologically impacted by construction		1	1	1	
		activities for presence of Small Snakehead and		1	1	1	
		Sommaniathelphusa zanklon. Capture any Sommaniathelphusa		1	1	1	
		zanklon found and translocate to Ma Tso Lung Stream/ other		1	1	1	
		suitable areas including LVNP					
S13.9	E22	Prevention of dust, run-off and pollutants impacting Deep Bay	Avoid increase to pollution	Contractor	All construction	Construction	N/A
		catchment area and areas of ecological importance.	entering ecologically	1	sites.	1	
			sensitive Deep Bay	1	1	1	
			ecosystem.				
	_ <b>_</b>	Specific Mitigation	on Measures for Designated	d Projects			
		DP7-Utilization of Treated Sewage Effluent	: (TSE) from Shek Wu Hui S	ewage Treatmen	t Works (SWHSTV	0	
Landsca	pe and Vis	ual (Construction Phase and Operational Phase)					
S.12.9	LV1-	Tree Protection & Preservation – Exiting trees to be retained	Protect and Preserve Trees	Government /	<u>Onsite</u>	Prior to	N/A

MM4       DP7       within the Project Site should be carefully protected during       Detailed       Construction         iconstruction. In particular OVTs will be preserved according to       Design       and         ETWB Technical Circular (Works) No. 29/2004. Detailed Tree       Consultant/       Construction         Protection Specification shall be provided in the Contract       Contractor       Phase         Specification. Under this specification, the Contractor shall be       required to submit, for approval, a detailed working method       Fatement for the protection of trees prior to undertaking any       Works adjacent to all retained trees, including trees in       Contractor's works areas.       A detailed tree survey will be carried out for the Tree Removal       Ether	
ETWB Technical Circular (Works) No. 29/2004. Detailed TreeConsultant/Consultant/ConstructionProtection Specification shall be provided in the ContractContractorPhaseSpecification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas.Consultant/Consultant/	
Protection Specification shall be provided in the Contract       Contractor       Phase         Specification. Under this specification, the Contractor shall be       required to submit, for approval, a detailed working method       Image: Contractor         statement for the protection of trees prior to undertaking any       works adjacent to all retained trees, including trees in       Image: Contractor's works areas.       Image: Contractor's works areas.	
Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas.	
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works adjacent to all retained trees, including trees in Contractor's works areas.	
Contractor's works areas.	
A detailed tree survey will be carried out for the Tree Removal	
Application (TRA) process which will be carried out at the later	
detailed design stage of the Project. The detailed tree survey will	
propose which trees should be retained, transplanted or felled	
and will include details of tree protection measures for those	
trees to be retained.	
S.12.9 LV2- Vertical Greening – Planting of climbers to grow up vertical Soften hard surfaces and Government / On appropriate Prior to	N/A
MM9     DP7     surfaces were appropriate (e.g. building edges, piers).     facilities     Detailed     structures     Construction,	
Design Construction	
Consultant/ Phase &	
Contractor Maintenance	
in Operation	
Phase	
S.12.9       LV3-       Green Roof – Roof greening where appropriate should be       Reduce exposure to       Government /       On appropriate       Prior to	N/A
MM10 DP7 established on proposed buildings as per the guidelines stated. untreated concrete surfaces Detailed <u>buildings</u> Construction,	
These guidelines provide further details including information and particularly mitigate Design Construction	
regarding structural loading, design, maintenance, etc. visual impact to VSRs at Consultant/ Phase &	
considerations as well as providing information on what types of high levels. Provide Contractor Maintenance	

		plants might be suitable.	greening.			in Operation	
						Phase	
		DP12-Reprovision of	f temporary wholesale mark	ket in FLN NDA			
Landscar	ce and Visi	ual (Detailed Design, Prior to Construction, Construction and Op	perational Phases)				
S.12.D9	LV1-	General Good Practice Measures - For areas unavoidably		Detailed design	Throughout	Prior to	N/A
	DP12	disturbed by the Project on a short term basis e.g. works areas,		consultant/	NDAs,	Construction,	1
		the general principle to try and restore these to their former state		Contractor		Construction & for	1
l		to suit future land use, should be adhered to.				all planting, this	1
l		With regard to topsoil, where identified, it should be stripped,				should be installed	1
1		treated appropriately, and where suitable and practical stored for				as soon as the	1
l		re-use in the construction of the soft landscape works such as				areas become	1
1		roadside amenity strips, and open space sites.				available, to	1
1		(	1			achieve early	1
			۱ <sup>۱</sup>			establishment	
S.12.D9	LV2-	Minimum Topographical Change –To minimize landscape and	Reduce topographical	Government /	Throughout	Prior to	N/A
MM1	DP12	visual impacts, the footprint and elevation of such elements	changes and minimize land	Detailed Design	NDAs, particularly	Construction	1
1		should be optimized to reduce topographical/ landform changes,	resumption	Consultant/	for reservoirs		1
1		as well as reduce land take and interference with natural terrain.	1	Contractor			1
		Where there is a need to significantly cut into the existing	1				1
		landform, retaining walls should be considered as well as cut	1				1
1		slopes, to minimize landform changes and land resumption,	1				1
1		while also considering visual amenity. Earthworks and	1				1
1		engineered slopes should be designed to be a visually	1				1
1		interesting landform, compatible with the surrounding landscape	1				1
1		and to mimic the natural contouring and terrain e.g. introduction					1
1		and continuation of natural features such as spurs and ridges	1				1
		where appropriate, to support assimilation with the hillside					1

		setting.					
S.12.D9	LV3-	Detailed Design (Visual) –The footprint and massing of	Improve visual amenity of	Detailed Design	Throughout NDAs	Prior to	N/A
MM2	DP12	development components and the works area should also be	the new buildings, NDAs in	Consultant		Construction	
		kept to a practical minimum and the detailed design of	general and integrate as				
		development components for Construction phase should follow	best possible into the				
		the Sustainable Building Design Guidelines. The form,	surrounding landscape				
		textures, finishes and colours of the proposed development					
		components should aim to be compatible with the existing					
		surroundings. To improve visual amenity designs should be					
		aesthetically pleasing and treatment of structures also improve					
		visual amenity. For example, natural building materials such as					
		stone and timber, should be considered for architectural					
		features, and light earthy tone colours such as shades of green,					
		shades of grey, shades of brown and off-white should also be					
		considered to reduce the visibility of the development					
		components, including all roadwork, buildings and noise barriers.					
		In addition, the design of structures should consider green roofs					
		were feasible, following stated guidelines.					
		All Noise barriers, particularly noise barriers but also any barriers					
		proposed for ecological impact mitigation, should be kept to a					
		practical minimum, and be of such a designed as to integrate					
		as well as possible into the surrounding visual context and be as					
		low as practical to minimize blocking views. Noise barrier					
		design, including vertical, cantilever or curved, and noise					

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		enclosures including semi-enclosure and full enclosure, at grade					
		and/ or elevated, should follow the guidelines stated.					
		Construction time frame should also be considered and designs					
		seek to keep it to a practical minimum.					
S.12.D9	LV4-	Tree Protection & Preservation – Exiting trees to be retained	Protect and Preserve Trees	Government /	Onsite	Prior to	N/A
MM4	DP12	within the Project Site should be carefully protected during		Detailed Design		Construction and	
		construction. In particular OVTs will be preserved according to		Consultant/		Construction	
		ETWB Technical Circular (Works) No. 29/2004. Detailed Tree		Contractor		Phase	
		Protection Specification shall be provided in the Contract					
		Specification. Under this specification, the Contractor shall be					
		required to submit, for approval, a detailed working method					
		statement for the protection of trees prior to undertaking any					
		works adjacent to all retained trees, including trees in					
		Contractor's works areas.					
		A detailed tree survey will be carried out for the Tree Removal					
		Application (TRA) process which will be carried out at the later					
		detailed design stage of the Project. The detailed tree survey					
		will propose which trees should be retained, transplanted or					
		felled and will include details of tree protection measures for					
		those trees to be retained.					
S.12.D9	LV5-	Tree Transplantation – Trees unavoidably affected by the Project	Transplant Trees where	Government /	Onsite where	Prior to	N/A
MM5	DP12	works should be transplanted where practical. Trees should be	suitable for transplantation	Detailed Design	possible.	Construction,	
		transplanted straight to their final receptor site and not held in a		Consultant/	Otherwise	Construction	
		temporary nursery as far as possible. A detailed Tree		Contractor	consider offsite	Phase &	
		Transplanting Specification shall be provided in the Contract			locations	Maintenance in	

	-		<u></u>	1	Г	1	<u></u>
		Specification, where applicable. Sufficient time for necessary				Operation Phase	
		tree root and crown preparation periods shall be allowed in the					
		project programme.					
		A detailed transplanting proposal will be submitted to relevant					
		government departments for approval in accordance with					
		ETWBTC 2/2004 and 3/2006 and final locations of transplanted					
		trees should be agreed prior to commencement of the work.					
		For trees associated with highways e.g. roadside planting along					
		highways, that are unavoidably affected and should be					
		transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree					
		Transplanting Works under Highways Department's Vegetation					
		Maintenance Ambit' should be referred to.					
S.12.D9	LV6-	Slope Landscaping – Site formation should be reduced as far as	To avoid substantial slope	Government /	Onsite	Prior to	N/A
MM6	DP12	possible. Seeding of modified slopes should be done as soon	cutting and fill slopes.	Detailed Design		Construction,	
		as grading works are completed to prevent erosion and	To prevent erosion and	Consultant/		Construction	
		subsequent loss of landscape resources and character.	subsequent loss of	Contractor		Phase &	
		Woodland tree seedlings and/ or shrubs should be planted	landscape resources and			Maintenance in	
		where slope gradient and site conditions allow.	character.			Operation Phase	
			To ensure man-made slopes				
		In addition, landscape planting should be provided for the	are as visually amenable as				
		retaining structures associated with modified slopes where	possible.				
		conditions allow. All slope landscaping works should comply					
		with GEO Publication No. 1/2011-Technical Guidelines on					
		Landscape Treatment for Slopes.					
S.12.D9	LV7-	Compensatory Planting – Compensatory tree planting for felled	Compensate for trees and	Government /	Onsite where	Prior to	N/A
			<u></u>				· · · · · · · · · · · · · · · · · · ·

MM7	DP12	the second state of the state of the second st	a hanada a da anta abaran ta atla a	Dataila d Daaian		Quantum	
	DP12	trees shall be provided to the satisfaction of relevant	shrubs lost due to the	Detailed Design	possible.	Construction,	
		Government departments. Required numbers and locations of	Project.	Consultant/	Otherwise	Construction	
		compensatory trees shall be determined and agreed separately		Contractor	consider offsite	Phase &	
		with Government during the Tree Removal Application process			locations	Maintenance in	
		under ETWBTC 3/2006.				Operation Phase	
		Compensatory planting is proposed at the potential open areas					
		such as open spaces, amenity areas, open areas of the					
		streetscapes, as well as the open areas within development lots.					
		Compensatory planting for shrubs should be considered in					
		suitable locations. Native species such as Melastoma					
		malabathricum, Diospyros vaccinioides, Gardenia jasminoides,					
		Ixora chinensis, Ligustrum sinense, Litsea rotundifolia,					
		Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus					
		tomentosa, Rhaphiolepis indica, and Rhododendron simsii are					
		suggested.					
S.12.D9	LV8-	Screen Planting – Tall screen/buffer trees and shrubs should be	To screen proposed	Government /	Along roads,	Prior to	N/A
MM11	DP12	planted. This measure may additionally form part of the	structures such as roads	Detailed Design	around suitable	Construction,	
		compensatory planting	and buildings. Improve	Consultant/	built structures, or	Construction	
			compatibility with the	Contractor	around VSRs to	Phase &	
			surrounding environment		contain their view	Maintenance in	
			and create a pleasant		out to the NDA	Operation Phase	
			pedestrian environment		structures.		
Landscap	e and Visu	al (Construction)					

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S.12.D9	LV9-	Screen Hoarding –Screen hoarding shall be erected along areas	To screen undesirable views	Contractor	Throughout NDAs	Construction	N/A
MM16	DP12	of the construction works site boundary where the works site	of the works site.			Phase	
		borders publically accessible routes and/or is close to visually					
		sensitive receivers (VSRs). It is proposed that the screening be					
		compatible with the surrounding environment and where					
		possible, nonreflective, recessive colours be used.					
		Any works areas near the ecological sensitive areas should					
		erect 2m high dull green site boundary fence. Details can refer					
		to the ecological impact assessment (Chapter 13 of the EIA					
		report).					
S.12.D9	LV10-	Light Control – Construction day and night time lighting should	To minimize glare impact to	Government /	Throughout NDAs	Construction and	N/A
S.12.D9 MM17	LV10- DP12	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during	To minimize glare impact to adjacent VSRs	Government / Contractor	Throughout NDAs	Construction and Operation Phases	N/A
					Throughout NDAs		N/A
		be controlled to minimize glare impact to adjacent VSRs during			Throughout NDAs		N/A
		be controlled to minimize glare impact to adjacent VSRs during			Throughout NDAs		N/A
		be controlled to minimize glare impact to adjacent VSRs during the Construction phase.			Throughout NDAs		N/A
		be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize			Throughout NDAs		N/A
		be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize			Throughout NDAs		N/A
		be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize			Throughout NDAs		N/A
		be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize			Throughout NDAs		N/A

Implementation status: ^

- Mitigation measure was fully implemented
- \* Observation/reminder was made during site audit but improved/rectified by the contractor
- # Observation/reminder was made during site audit but not yet improved/rectified by the contractor
- X Non-compliance of mitigation measure
- Non-compliance but rectified by the contractor

N/A Not Applicable at this stage as no such site activities were conducted in the reporting period

APPENDIX K WASTE GENERATION IN THE REPORTING MONTH Contract No. ND/2019/01 Particular Specification Appendix 1.34

Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

Name of Department: Civil Engineering and Development Department

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual	Quantities of	C&D Wastes	Generated	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065
April											
May											
June											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065
July											
August											
September											
October											
November											
December											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065

## Monthly Summary Waste Flow Table for 2020

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )	
1,310.619	300.000	1,010.619	0.000	0.000	0.000	20.000	10.000	20.000	0.500	10.000	

Notes: (1) The performance target are given in PS Clause 1.115(14)

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m<sup>3</sup>.

(5) Conversion factors for reporting purpose:

in-situ: rock = 2.5 tonnes/m<sup>3</sup>; soil = 2.0 tonnes/m<sup>3</sup> excavated: rock = 2.0 tonnes/m<sup>3</sup>; soil = 1.8 tonnes/m<sup>3</sup> broken concrete and bitumen = 2.4 tonnes/m<sup>3</sup> C&D Waste = 0.9 tonnes/m<sup>3</sup>

(6) Numbers are rounded off to the nearest three decimal places

\* Forecast figure for the entire contract period

#### Monthly Summary Waste Flow Table (PS Clauses 1.101 & 1.102)

### Name of Department: CEDD

### Contract No.:ND/2019/06

### Monthly Summary Waste Flow Table for 2019 (year)

	Act	ual Quantities	of Inert C&D Mat	erials Generate	ed Monthly		Actu	al Quantities	of C&D Wastes	Generated N	fonthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in the other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastic (see Note 3)	Chemical Waste	Others, e.g. general refuse
	in '000m3	in '000m3	in '000m3	in '000m3	in '000m3	in '000m3	in '000kg	in '000kg	in '000kg	in '000kg	in '000m3
Jan											
Feb											
Mar											
Apr											
May											
June											
Sub-											
total											
July											
Aug											
Sept											
Oct											
Nov	0	0	0	0		0		-	-	0	
Dec	0	0	0	0	0.428	0	0	0	0	0	0.071
Total	0	0	0	0	1.355	0	0	0	0	0	0.079

#### Monthly Summary Waste Flow Table for 2020 (year)

	Act	ual Quantities	of Inert C&D Mate	erials Generate	ed Monthly		Actu	al Quantities	of C&D Wastes	Generated N	Ionthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in the other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastic (see Note 3)	Chemical Waste	Others, e.g. general refuse
	in '000m3	in '000m3	in '000m3	in '000m3	in '000m3	in '000m3	in '000kg	in '000kg	in '000kg	in '000kg	in '000m3
Jan	0	0	0	0	1.558	0	0	0	0	0	0.038
Feb	0	0	0	0	0.548	0	0	0	0	0	0.011
Mar	0	0	0	0	0.145	0	0	0	0	0	0.022
Apr											
May											
June											
Sub- total											
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	0.0	0.0	0.0	0.0	2,250	0.0	0.0	0.0	0.0	0.0	0.071

Notes: (1) The performance targets are given in PS Clause 1.102(14).

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

\*(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the works is equal to or exceeding 50,000m3. [Delete Note (4) and the table above on the forecast, where inapplicable].

Note:  $volume(m^3) = \frac{weight(kg)}{density(kg/m^3)}$ density of inert materials:  $2000kg/m^3$ density of general refuse:  $1000kg/m^3$ 

APPENDIX L COMPLAINT LOG

## Appendix L - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status

APPENDIX M SUMMARY OF SUCCESSFUL PROSECUTION

## Appendix M - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up