

**AUES JOB NO.: TCS01230/21** 

TUEN MUN - CHEK LAP KOK LINK **CONTRACT NO. HY/2021/13-**PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN - CHEK LAP KOK LINK PROJECT

**4**<sup>TH</sup> MONTHLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) REPORT-SEPTEMBER 2022

PREPARED FOR

WING HO YUEN LANDSCAPING CO., LTD

**Prepared By Certified By Date** Reference No.

10 October 2022 TCS01230/21/600/R0036v1

Martin Li

Ben Tam (Environmental Consultant) (Environmental Team Leader)

Version	Date	Remarks
1	10 October 2022	First Submission



Our Ref: TCS01230/21/300/L0038

**AECOM** 

8/F Grand Central Plaza Tower 2, 138 Shatin Rural Committee Road Shatin

Attn: Mr. K P Wong

1 November 2022

By Email

Dear Sir.

Re: Contract No. HY/2021/13

Provision of Remaining Compensation Tree Planting for the Tuen Mun - Chek Lap Kok

Link Project

Environmental Permit No.: EP-354/2009/D

4th Monthly Environmental Monitoring and Audit (EM&A) Report – September 2022

We write to certify the 4<sup>th</sup> Monthly Environmental Monitoring and Audit (EM&A) Report –September 2022 (TCS01230/21/600/R0036v1) in accordance with Condition 4.4 of the Environmental Permit no. EP-354/2009/D.

Should you have any queries or require further information, please feel free to contact us or the undersigned at Tel: 2959-6059 or Fax: 2959-6079.

Yours sincerely, For and on Behalf of

**Action-United Environmental Services & Consulting (AUES)** 

Ben Tam

Environmental Team Leader

Ramboll (IEC) c.c.

Mr. Brian Tam

By email

Wing Ho Yuen Landscaping Co., Ltd Mr. Joe Fung

(Contractor)

By email



Tel Fax

(852) 2959-6059 (852) 2959-6079 Email info@fordbusiness.com





Ref.: HYDHZMBEEM00 0 8891L.22

31 October 2022

By Fax (2293 6300) and By Post

AECOM Asia Co. Ltd. Supervising Officer Representative's Office No. 8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Mr. K P Wong

Dear Sir,

Re: Agreement No. CE 48/2011 (EP)

**Environmental Project Office for the** 

HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and

Tuen Mun-Chek Lap Kok Link - Investigation

Contract No. HY/2021/13

Provision of Remaining Compensation Tree Planting for the Tuen Mun - Chek Lap

**Kok Link Project** 

Monthly EM&A Report for September 2022 (EP-354/2009/D)

Reference is made to the Monthly EM&A Report for September 2022 (ET's ref.: "TCS01230/21/600/L0036v1" dated 10 October 2022) certified by the ET Leader and provided to us via e-mail on 18 October 2022.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully, For and on behalf of Ramboll Hong Kong Limited

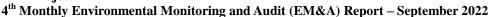
Brian Tam

Independent Environmental Checker

Tuen Mun - Chek Lap Kok Link

c.c.

HyD Attn.: Mr. Eric Wong (By Fax: 3188 6614) HyD Attn.: Ms. Maggie Lai (By Fax: 3188 6614) Attn.: Mr. Ben Tam (By Fax: 2959 6079) AUES **HK Landscaping** Attn.: Ms. Miranda Mak (By Fax: 5803 0800)





## **EXECUTIVE SUMMARY**

ES01 This is the 4<sup>th</sup> Monthly EM&A Report presenting the monitoring results and inspection findings for the period from 1 to 30 September 2022 (hereinafter 'the Reporting Period').

# SUMMARY OF EM&A ACTIVITIES FOR THE REPORTING PERIOD

- ES02 The EM&A activities conducted in the Reporting Period are summary in below:-
  - Environmental Site Inspection 5 events
  - Landscape & Visual Monitoring 5 events
- ES03 According to the approved Landscape and Visual plan, the planting works under the contract was commended on 21 June 2022.

## SITE INSPECTION

ES04 In the Reporting Period, joint site inspection by the RE, ET and the Contractor was carried out on 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup> and 30<sup>th</sup> September 2022 and the IEC has attended the joint site inspection on 30<sup>th</sup> September 2022. No non-compliance and observation was recorded during the site inspection.

## **ENVIRONMENTAL COMPLAINT**

- ES05 In the Reporting Period, no environmental complaint was received.
- ES06 The statistical summary of environmental complaints is summarized in the following table.

Donauting Davied	<b>Environmental Complaint Statistics</b>			
Reporting Period	Frequency	Cumulative		
Since the Contract commencement	0	0		
September 2022	0	0		

#### NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES07 No environmental summons or successful prosecutions were recorded in the Reporting Period.

## REPORTING CHANGE

ES08 No reporting changes were made in the Reporting Period.

# **FUTURE KEY ISSUES**

- ES09 During the wet season, muddy water or other water pollutants from site surface runoff into the public areas will be key environment issue. Special attention should be paid on the water quality mitigation measures to prevent surface runoff flow to public area.
- ES10 Although in wet season, air quality mitigation measures such as watering of site area for at least 12 times per day and covering of exposed slopes should be fully implemented to reduce construction dust impact as recommended in the EMIS.
- ES11 It was reminded that good housekeeping practice should be maintained. Mosquito control measures should be properly implemented to prevent mosquito breeding on site especially after rain.



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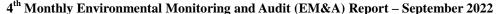


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# 1 INTRODUCTION

## 1.1 PROJECT BACKGROUND

- 1.1.1 According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong Zhuhai Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau Tuen Mun Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.
- 1.1.2 According to the requirements of the EIA Report, the TM-CLKL Project shall carry out landscape softworks including planting of 6300 trees within the project limits, amongst others. On completion of the planting works by the three other contracts, 5353 trees were accommodated within the project limits. The Landscape and Visual Plan (LVP) later prepared for this Project recommended the compensatory planting of remaining trees at locations outside the limits of the TM-CLKL Project.
- 1.1.3 Wing Ho Yuen Landscaping Co., Ltd (hereafter "WHY") is commissioned by the Highways Department (HyD) as the Main Contractor of the Contract No. HY/2021/13 –Provision of Remaining Compensation Tree Planting for the Tuen Mun Chek Lap Kok Link Project ((hereafter "the Contract") and this Contract is part of the Tuen Mun Chek Lap Kok Link (TM-CLK Link Project).TM-CLK Link Project is a Designated Project under Environmental Permit number EP-354/2009/D issued on 13 March 2015. The layout Plan of the Project and the Contract are showed in *Appendix A and B* respectively.
- 1.1.4 The planting works for the Contract No. HY/2021/13 was commenced on 21 June 2022.
- 1.1.5 The construction works of the Contract mainly include:
  - a. Provision of Remaining Compensation Tree Planting at Tuen Mun and Lantau Island Area fulfil the quantity of compensation tree stated in the approved EIA Report.
- 1.1.6 This is 4<sup>th</sup> monthly EM&A report presenting the inspection findings for period from 1 to 30 September 2022.

## 1.2 REPORT STRUCTURE

- 1.2.1 The Monthly Environmental Monitoring and Audit (EM&A) Report is structured into the following sections:-
  - Section 1 Introduction
  - Section 2 Contract Organization and Construction Progress and Environmental Submissions
  - Section 3 Summary of Environmental Requirements under the Contract
  - Section 4 Landscape and Visual
  - Section 5 Waste Management
  - **Section 6** Inspections and Audit
  - Section 7 Environmental Complaints and Non-Compliance
  - Section 8 Implementation Status of Mitigation Measures
  - **Section 9** Conclusions and Recommendations





# 2 CONTRACT ORGANIZATION AND CONSTRUCTION PROGRESS AND ENVIRONMENTAL SUBMISSIONS

- 2.1 CONTRACT ORGANIZATION
- 2.1.1 The Contract organization and contact details of key personnel are shown in *Appendix C*.
- 2.2 CONSTRUCTION PROGRESS
- 2.2.1 In the Reporting Period, the major construction activity conducted under the Contract is summarized in below. The three-months rolling programme of the Contract is enclosed in *Appendix D*.
  - Tree Planting Works at Slope 5SE-B/F70 Wong Chu Road
  - Tree Planting Works at Slope 6SW-C/FR200 Castle Peak Road
  - Tree Planting Works at Slope 6SW-A/F25 Tseng Choi Street
  - Tree Planting Works at Slope 6SW-D/FR279 Castle Peak Road
  - Tree Planting Works at Slope 6SW-D/FR320 Castle Peak Road

# 2.3 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

- 2.3.1 The environmental submissions under the EP requirement had been submitted to the EPD and they are listed in below:
  - Landscape and Visual Plan
  - Waste Management Plan
- 2.3.2 Summary of environmental permits, licenses and notifications for the Contract is presented in *Table 2-1*.

Table 2-1 Status of Environmental Licenses and Permits of the Contract

No.	Type of Permit/ License	Reference/ License No.	Date of Issue	Date of Expiry
1	Air pollution Control (Construction Dust) Regulation	Nil	NA	NA
2	Chemical Waste Producer Registration - Waste Producers Number	Nil	NA	NA
3	Water Pollution Control Ordinance -Variation of Effluent Discharge License	Nil	NA	NA
4	Waste Disposal Regulation - Billing Account for Disposal of Construction Waste	7042684	24 December 2021	Nil



# 3 SUMMARY OF IMPACT ENVIRONMENTAL REQUIREMENTS UNDER THE CONTRACT

# 3.1 GENERAL

- 3.1.1 The major construction activities under the Contract are land-based and no marine work will be involved. In accordance with the Project EM&A Manual requirements, the environmental aspects under the Contract shall be included landscape and visual, site inspection during construction period. In addition, audit of the contractor's implementation of the air quality, construction noise and land-based water quality pollution control measures are also required for the Contract.
- 3.1.2 A summary of construction phase EM&A requirements are presented in the sub-sections below.

## 3.2 ENVIRONMENTAL ASPECTS

## Air

- 3.2.1 Considering that the construction activities under the Works Contract shall be a small scale works in a short period of time. If properly dust mitigation measures are implemented, significant air quality impact generated from construction activities of the Works Contract is not anticipated. Therefore, no monitoring is required for the Contract.
- 3.2.2 Regular site inspections and audits will be carried out during the construction phase in order to confirm compliance with the regulatory requirements and conformity of the Contractor with regard to air quality control and contract conditions.

## *Noise*

- 3.2.3 Considering that the construction activities under the Works Contract shall be a small scale works in a short period of time and no PME will be used during the planting works. If properly noise mitigation measures are implemented, significant noise impact generated from construction activities of the Works Contract is not anticipated. Therefore, no monitoring is required for the Contract.
- 3.2.4 Regular site inspections and audits will be carried out during the construction phase in order to confirm the construction works under the Contract comply with the regulatory noise requirements.

## Water Quality

3.2.5 No marine works will be undertaken under the Contract. Therefore, no water quality monitoring is required for the construction phase of the Contract.

# **Ecology**

- 3.2.6 No marine works will be undertaken under the Contract and generated marine ecological impact, no dolphin monitoring is required for the construction phase of the Contract.
- 3.2.7 According to the scope of works under the Contract, no identified ecology aspect was related to the Contract, therefore no land base ecology monitoring and mitigation measure would be required.

# Landscape and Visual

3.2.8 Measures to mitigate landscape and visual impact during construction should be checked and monitored to ensure compliance with the intended aims of the mitigation measures in accordance with the EM&A Manual.



# Cultural Heritage

3.2.9 According to the works area under the Contract, no cultural heritage zone is located. Therefore, no specific EM&A requirement for construction phase was identified.

# Landfill Gas

3.2.10 According to work scope of the Contract, there is no works area lies within the 250m Consultation Zone around the closed Pillar Point Valley Landfill. Therefore, no landfill gas monitoring is required for the Contract.



# 4 LANDSCAPE AND VISUAL

#### 4.1 GENERAL

4.1.1 According to EM&A Manual requirements, monitoring of Contractor's operations during construction period to report on Contractor's compliance should be carried out on weekly basis. Measure to mitigate landscape and visual impact during construction should be checked and monitored by a Registered Landscape Architect to ensure compliance with the intended aims of the mitigation measures. Moreover, the progress of the engineering works shall be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken.

## 4.2 LANDSCAPE AND VISUAL INSPECTION

4.2.1 The planting works under the contract was commenced on 21 June 2022. According to the approved landscape and visual plan, the planting areas under the Contract are summarized in *Table 4-1* and the layout plan for the planting zone is illustrated in *Appendix E*.

Table 4-1 Details of Provision of Remaining Compensation Tree Planting Works Areas

Works	Location	Proposed Use
Area	Location	1 Toposcu Osc
Tuen Mun		
Portion A1	Slope 6NW-C/F 153	
Portion A2	Slope 6SW-A/F 25	
Portion A3	Slope 5SE-B/F 89	
	Slope 5SE-B/F 70	W
Portion A4	Slope 5SE-D/F 73	Works area for compensation tree
Portion A5	Slope 6SW-C/FR 200	planting
Portion A6	Slope 6SW-C/F 233	
	Slope 6SW-D/FR 279	
Portion A7	Slope 6SW-D/FR 320	
Lantau	-	·
Portion B	Slope 9SE-B/F 34	
	Slope 9SE-B/F 35	Works area for compensation tree
	Slope 9SE-B/F 56	planting
	Slope 9SE-B/F 74	pranting
	Slope 9SE-B/F 75	
Portion C	Slope 10NW-D/F 86	
	Slope 10NW-D/F 88	
	Slope 10NW-D/FR 89	Works area for compensation tree
	Slope 10NW-D/FR 90	planting
	Slope 10NE-C/F 4	
	Slope 10NE-C/F 5	
Portion D	Southern Landfall	No additional tree planting works in
		this area, respond to maintenance
		the existing planting area from the
		Contract HY/2012/07 &
		HY/2017/10

- 4.2.2 In the Reporting Period, site inspection for landscape and visual mitigation measures were undertaken on  $2^{nd}$ ,  $9^{th}$ ,  $16^{th}$ ,  $23^{rd}$  and  $30^{th}$  September 2022 by the Registered Landscape Architect. The detailed inspection checklists were provided in *Appendix F*.
- 4.2.3 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event/Action Plan in Appendix G.



# 5 WASTE MANAGEMENT

## 5.1 GENERAL WASTE MANAGEMENT

- 5.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time. The effective management of waste arising during the construction phase will be monitored through the site audit programme. The aims of the waste audit are:
  - to ensure the waste arising from the works are handled, stored, collected, transferred and disposed of in an environmentally acceptable manner; and
  - to encourage the reuse and recycling of material.
- 5.1.2 In addition to the site inspections, the ET shall review the documentation procedures prepared by the Waste Coordinator once a week to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.

# 5.2 RECORDS OF WASTE QUANTITIES

- 5.2.1 All types of waste arising from the construction work are classified into the following:
  - Construction & Demolition (C&D) Material;
  - Chemical Waste;
  - General Refuse; and
  - Excavated Soil.
- 5.2.2 The quantities of wastes generated under the Contract in this Reporting Period are summarized in *Tables 5-1* and *5-2* and the Monthly Summary Waste Flow Table is shown in *Appendix H*. Whenever possible, materials were reused on-site as far as practicable.

Table 5-1 Summary of Quantities of Inert C&D Materials

Type of Waste	Quantity	Disposal Location
Reused in this Contract (Inert) (`000m³)	0.000	-
Reused in other Projects (Inert) (`000m³)	0.000	-
Disposal as Public Fill (Inert) (`000m³)	0.000	Tuen Mun Area 38

Table 5-2 Summary of Quantities of C&D Wastes

Type of Waste	Quantity	Disposal Location
Recycled Metal (`000kg)	0	-
Recycled Paper / Cardboard Packaging (`000kg)	0	-
Recycled Plastic (`000kg)	0	-
Chemical Wastes (`000kg)	0	-
General Refuses (`000m³)	0	-



# 6 INSPECTION AND AUDIT

#### 6.1 SITE INSPECTION

6.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulated by ET Leader on weekly basis to confirm the environmental performance of the construction site.

# Findings / Deficiencies During Reporting Period

- 6.1.2 In the Reporting Period, joint site inspections to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup> and 30<sup>th</sup> September 2022. No non-compliance and observation were recorded during site inspection. Moreover, ENPO/IEC has attended joint site inspection on 30<sup>th</sup> September 2022.
- 6.1.3 The findings / deficiencies observed during the weekly site inspection in the Reporting Period are listed in *Table 6-1*.

Table 6-1 Site Observations for the Contract

Date	Findings / Deficiencies	Follow-Up Status		
2 September 2022	• Nil	• NA		
9 September 2022	• Nil	• NA		
16 September 2022	• Nil	• NA		
23 September 2022	• Nil	• NA		
30 September 2022	• Nil	• NA		

No outstanding deficiency remained to be rectified in previous Reporting Period which presented in *Table 6-2*.

Table 6-2 Outstanding Items in Site Inspection of previous Reporting Period

Date	Findings / Deficiencies	Follow-Up Status	
	• NA	• NA	

- 6.1.5 Air quality mitigation measures such as watering of site area for at least 12 times per day and covering of exposed slopes should be implemented during the construction period to reduce construction dust impact as recommended in the EMIS.
- 6.1.6 Good site practice for daily housekeeping is reminded. In addition, stagnant water should be removed as soon as possible after rain to prevent mosquito breeding on site.
- 6.1.7 Moreover, muddy water or other water pollutants from site surface runoff shall not be discharged into public areas. Water quality mitigation measures to prevent surface runoff into the public areas should be paid on special attention.



# 7 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

# 7.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

- 7.1.1 In the Reporting Period, no environmental complaint, summons and prosecution under the EM&A Programme was lodged.
- 7.1.2 The statistical summary table of environmental complaint, summons and prosecution are presented in *Tables 7-1, 7-2 and 7-3* and the cumulative statistics of complaint, summons and prosecution are illustrated in *Appendix J*.

**Table 7-1** Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics					
Reporting Period	Frequency	Cumulative	Complaint Nature			
			Air	Noise	Water	Others
September 2022	0	0	NA	NA	NA	NA

**Table 7-2** Statistical Summary of Environmental Summons

	Environmental Summons Statistics				
Reporting Period	Everyoner	Cumulativa	Complaint Nature		ire
	Frequency	Cumulative	Air	Noise	Water
September 2022	0	0	NA	NA	NA

**Table 7-3** Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
			Air	Noise	Water
September 2022	0	0	NA	NA	NA

7.1.3 In the Reporting Period, no warning letter related to environmental issue was received from the EPD or HyD.





# 8 IMPLEMENTATION STATUS OF MITIGATION MEASURES

4<sup>th</sup> Monthly Environmental Monitoring and Audit (EM&A) Report – September 2022

# 8.1 GENERAL REQUIREMENTS

- 8.1.1 The environmental mitigation measures that recommended in the Environmental Mitigation and Enhancement Measures Implementation Schedule (EMIS) for in the Project EM&A Manual covered the issues of air quality, cultural heritage, ecology, landfill gas hazard, landscape & visual, noise, water and waste. The EMIS for the Contract is shown in *Appendix I*.
- 8.1.2 The Contractor shall implement the required environmental mitigation measures according to the EM&A Manual as subject to the site condition. The environmental mitigation measures implemented by the Contractor in this Reporting Period are summarized in *Table 8-1* and *Appendix I*.

**Table 8-1** Environmental Mitigation Measures

Issues	Environmental Mitigation Measures
Air Quality	<ul> <li>Sprayed water for exposed area</li> <li>During transportation by truck, materials loaded lower than the side and tail boards, and covered before transport</li> <li>Compacted all soil stockpiles</li> </ul>
Water Quality	<ul> <li>Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.</li> <li>Open stockpiles of construction materials (e.g. planting soil) on site should be covered with tarpaulin or similar fabric during rainstorms.</li> </ul>
Noise	<ul> <li>No operation of powered mechanical equipment is allowed during restricted hours from 19:00 to 07:00 on the following day and whole day during Sunday and public holiday without construction noise permit (CNP)</li> <li>Keep good maintenance of plants</li> <li>Shut down the plants when not in use</li> </ul>
Landscape and Visual	<ul> <li>Existing trees on boundary of the Project Area shall be carefully protected during construction.</li> <li>Recycle/Reuse all felled trees and vegetation</li> <li>Compensatory tree planting shall be provided to the satisfaction of relevant Government departments.</li> </ul>
Waste and Chemical Management	<ul> <li>On-site sorting prior to disposal</li> <li>Follow requirements and procedures of the "Trip-ticket System"</li> <li>Stockpiled material shall be covered by tarpaulin</li> </ul>
General	The site was generally kept tidy and clean.

## 8.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 8.2.1 Construction activities as undertaken in the coming month for the Contract lists below:
  - Tree planting works at Tuen Mun Area.
  - Tree planting works at Lantau Island Area





#### 8.3 KEY ENVIRONMENTAL ISSUES FOR THE COMING MONTH

- 8.3.1 Key environmental issues to be considered in the coming month include:
  - Implementation of dust suppression measures at all times;
  - Potential wastewater quality impact due to surface runoff;
  - Potential fugitive dust impact due to the dry/loose/exposure soil surface/dusty material;
  - Ensure dust suppression measures are implemented properly;
  - Sediment catch-pits and silt removal facilities should be regularly maintained;
  - Protection of existing tress inside the works area
  - Follow-up of improvement on general waste management issues; and
  - Implementation of construction noise preventative control measures





# 9 CONCLUSIONS AND RECOMMENDATIONS

## 9.1 CONCLUSIONS

- 9.1.1 This is 4<sup>th</sup> monthly EM&A report presenting the inspection findings for the period of 1 to 30 **September 2022**.
- 9.1.2 The planting works for the Contract No. HY/2021/13 was commenced on 21 June 2022.
- 9.1.3 In the Reporting Period, no complaint was received by RE, the Contractor, ENPO or HyD.
- 9.1.4 No notifications of summons, or successful prosecution were received by the Contractor during the Reporting Period.
- 9.1.5 In the Reporting Period, joint site inspection by the RE, ET and the Contractor was carried out on 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup> and 30<sup>th</sup> September 2022 and the IEC has attended the joint site inspection on 30<sup>th</sup> September 2022. No non-compliance and observation was recorded during the site inspection.

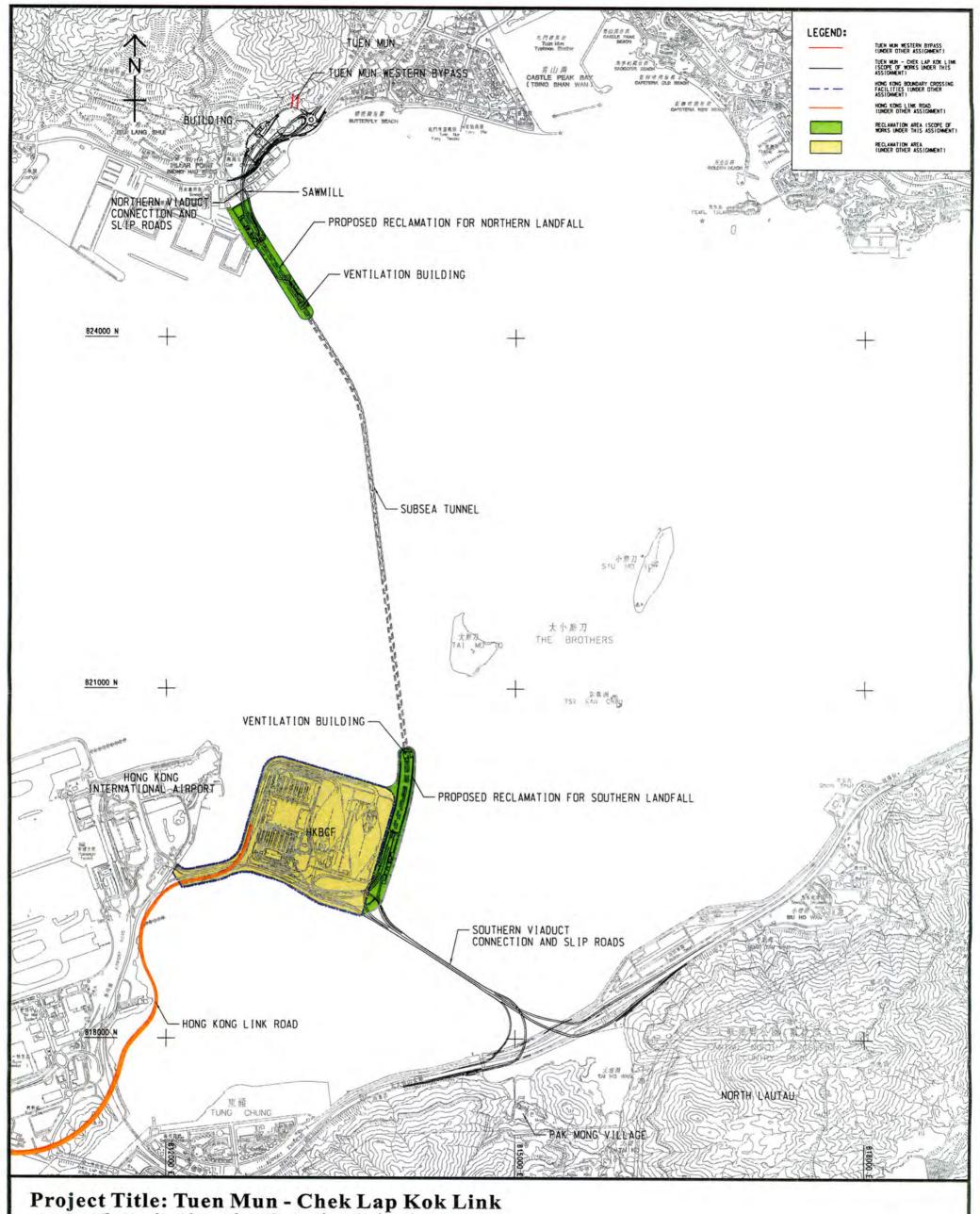
## 9.2 **RECOMMENDATIONS**

- 9.2.1 During the wet season, muddy water or other water pollutants from site surface runoff into the public areas will be key environment issue. Special attention should be paid on the water quality mitigation measures to prevent surface runoff flow to public area.
- 9.2.2 Although in wet season, air quality mitigation measures such as watering of site area for at least 12 times per day and covering of exposed slopes should be fully implemented to reduce construction dust impact as recommended in the EMIS.
- 9.2.3 Stagnant water should be removed as soon as possible after rain to prevent mosquito breeding on site.



# Appendix A

**Project Layout Plan** 



Project Title: Tuen Mun - Chek Lap Kok Link 工程項目名稱: 屯門至赤鱲角連接路

**Project Location** 工程項目位置

(Plan originated from Figure 3.1 of Approved EIA Report reference no.: AEIAR-146/2009) (圖則源自已批准的環境影響評估報告編號AEIAR-146/2009圖 3.1)

**Environmental Protection Department** 環境保護署



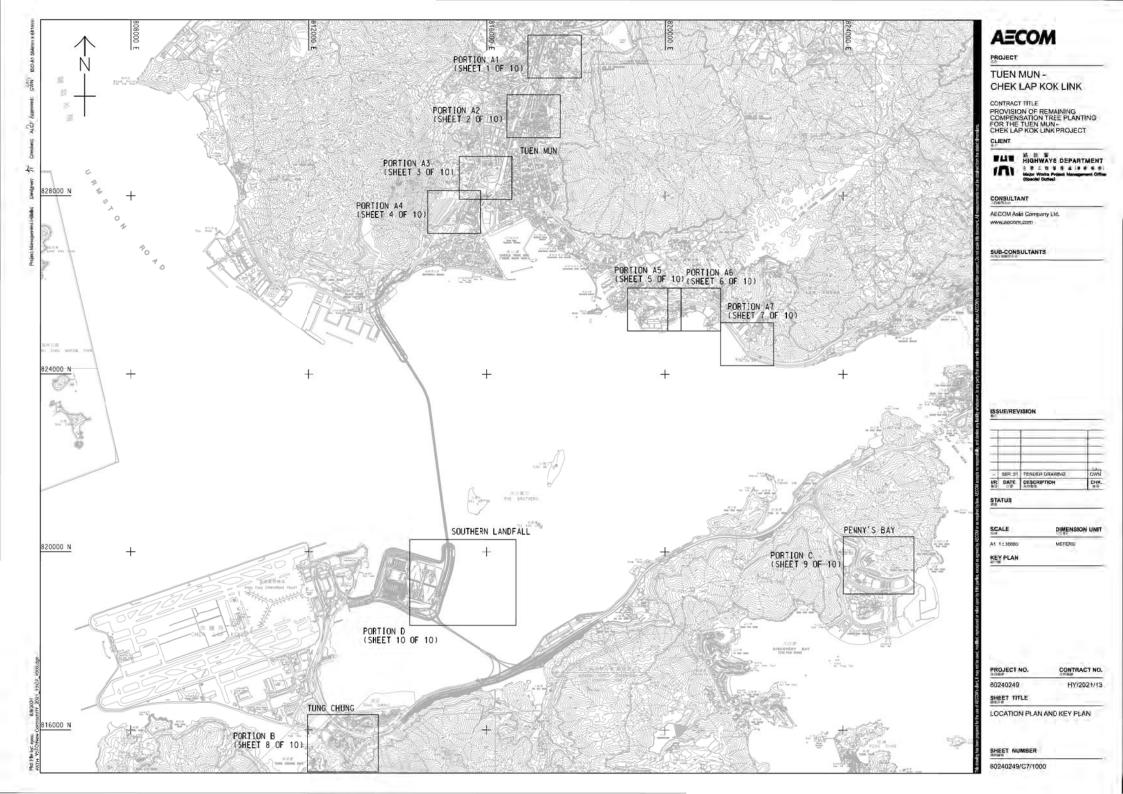
Environmental Permit No.: EP-354/2009/D 環境許可證編號: EP-354/2009/D

Figure 1 圖 1



# Appendix B

**Layout Plan of the Contract** 

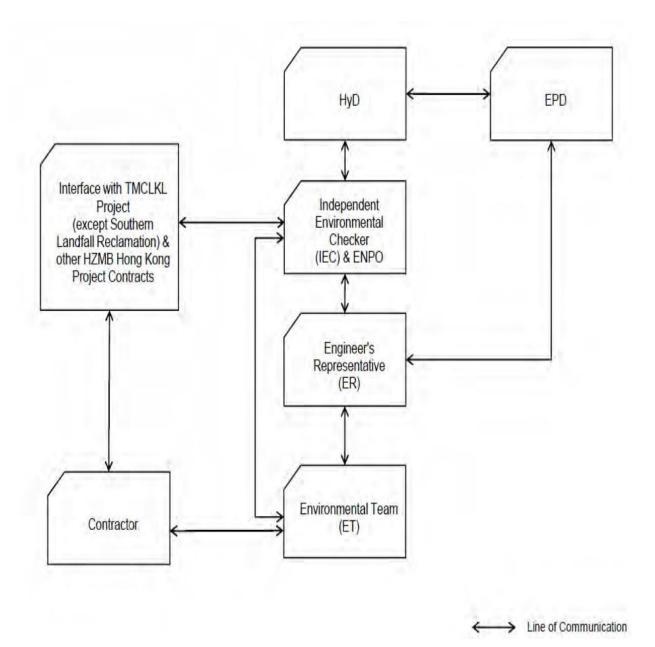




# **Appendix C**

**Organization of the Contract** 





**Project Organization chart** 



# Contact Details of Key Personnel for the Contract HY/2021/13

Organization	Project Role	Name of Key Staff	Tel No	Fax No.
HyD	Employer	Mr. Vincent Li	2762 4188	3188 6614
AECOM	Senior Resident Engineer	Mr. Kelvin Leung	2293 6200	2293 6300
AECOM	Senior Resident Engineer (S&E)	Mr. KP Wong	2293 6200	2293 6300
AECOM	Senior RLA	Ms. Candy Lau	2293 6200	2293 6300
Ramboll	Environmental Project Office Leader (ENPO Leader)	Mr. YH Hui	3465 2850	3465 2899
Ramboll	Independent Environmental Checker (IEC)	Mr. Brian Tam	3465 2851	3465 2899
WHY	Project Manager	Mr. Joe Fung	2719 1313	2110 0581
WHY	Environmental Officer	Mr. Ivan Lau	2719 1313	2110 0581
AUES	Environmental Team Leader	Mr. Ben Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Mr. Martin Li	2959 6059	2959 6079

# Legend:

HyD (Employer) –Highways Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

CKJV (Main Contractor) – CRBC-Kaden Joint Venture

Ramboll (ENPO and IEC) – Ramboll Hong Kong Limited

AUES (ET) – Action-United Environmental Services & Consulting

HKL(RLA) – Hong Kong Landscape



# Appendix D

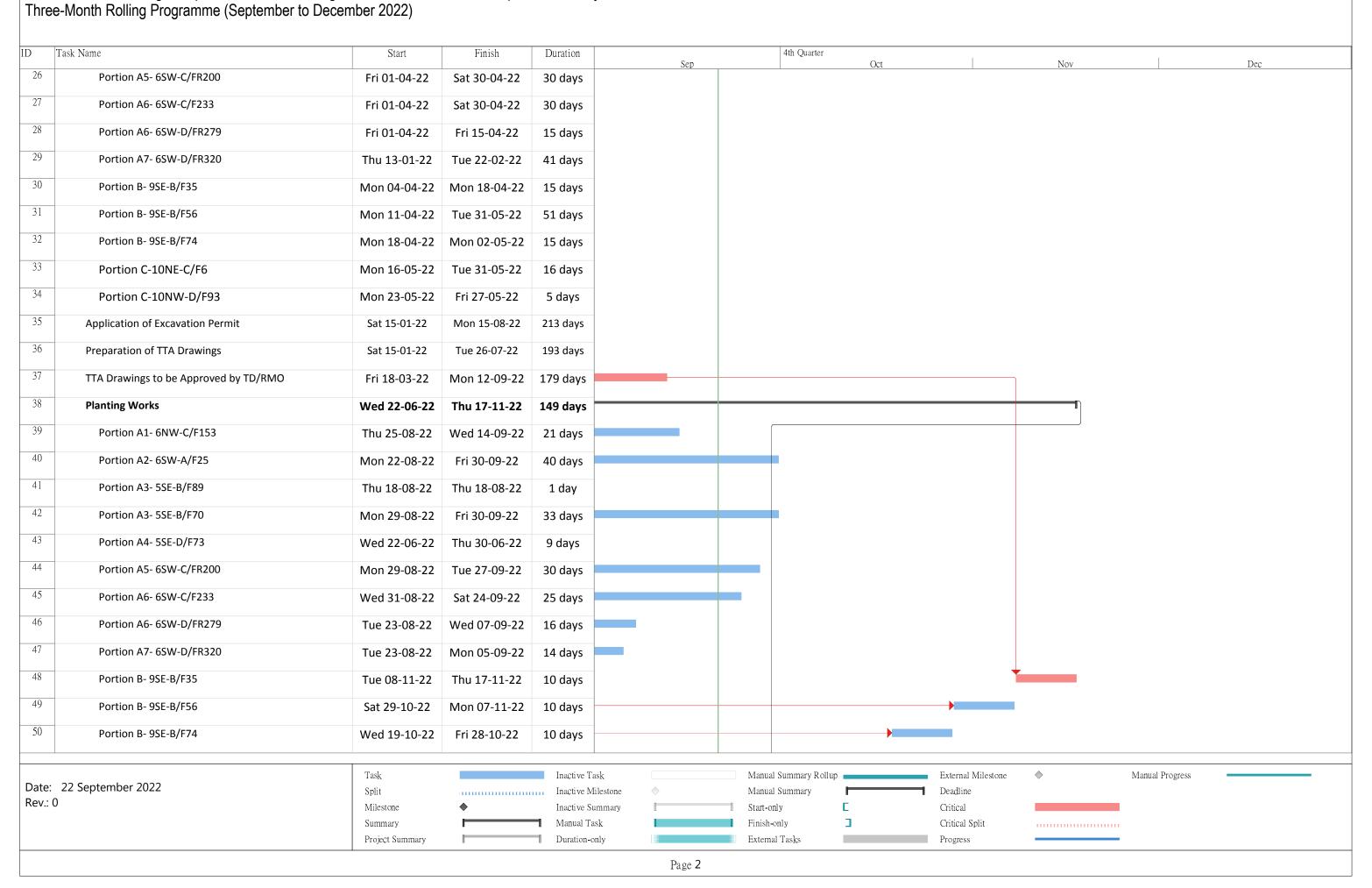
**Three-Months Rolling Programme** 

#### Contract No. HY/2021/13 Wing Ho Yuen Landscaping Company Limited Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project Three-Month Rolling Programme (September to December 2022) Task Name Finish Duration Oct Sep Nov Dec Contract No. HY/2021/13 Mon 13-12-21 Mon 10-02-25 1156 days 2 Commencement of Works Mon 13-12-21 | Mon 13-12-21 0 days 3 4 Submission Mon 13-12-21 Tue 31-05-22 170 days 5 Initial Works Programme Mon 13-12-21 Tue 14-12-21 2 days 6 Contractor's Organization Mon 13-12-21 Sun 26-12-21 14 days Three-month rolling programme Mon 13-12-21 Tue 21-12-21 9 days 8 Safety Plan Tue 21-12-21 Mon 13-12-21 9 days 9 **Environmental Management Plan** Tue 28-12-21 Mon 13-12-21 16 days 10 Sub-contractor Management Plan Thu 06-01-22 Mon 13-12-21 25 days 11 Environmental Team and Environmental Team Leader Sun 19-12-21 Mon 13-12-21 7 days 12 **Ornithological Consultant** Mon 13-12-21 Fri 21-01-22 40 days 13 Sun 09-01-22 Contract Specific EM & A Manual Mon 13-12-21 28 days 14 Method Statement of Tree Presevation and Protection Sat 02-04-22 Thu 19-05-22 48 days 15 Method Statement of Tree Felling Fri 22-04-22 Sun 06-03-22 48 days 16 Method Statement of Planting Sat 02-04-22 Tue 31-05-22 60 days 17 Material Submission Mon 31-01-22 Tue 31-05-22 121 days 18 19 Section 1 (Portion A1 to A7, B and C) Wed 29-12-21 Sun 12-02-23 411 days 20 Tue 31-05-22 139 days **Tree Survey** Thu 13-01-22 21 Portion A1- 6NW-C/F153 Thu 17-03-22 Thu 03-03-22 15 days 22 Portion A2-6SW-A/F25 Tue 26-04-22 Fri 11-03-22 47 days 23 Poetion A3- 5SE-B/F89 Fri 22-04-22 Mon 14-03-22 40 days 24 Portion A3- 5SE-B/F70 Fri 18-02-22 Fri 04-03-22 15 days 25 Portion A4- 5SE-D/F73 Tue 08-03-22 Tue 22-03-22 15 days Task Inactive Task Manual Summary Rollup External Milestone Manual Progress Date: 22 September 2022 Split Inactive Milestone Manual Summary Deadline Rev.: 0 Milestone Inactive Summary Start-only Critical Summary Manual Task Finish-only Critical Split Duration-only External Tasks Progress Project Summary

Page 1

# Contract No. HY/2021/13 Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project

# Wing Ho Yuen Landscaping Company Limited

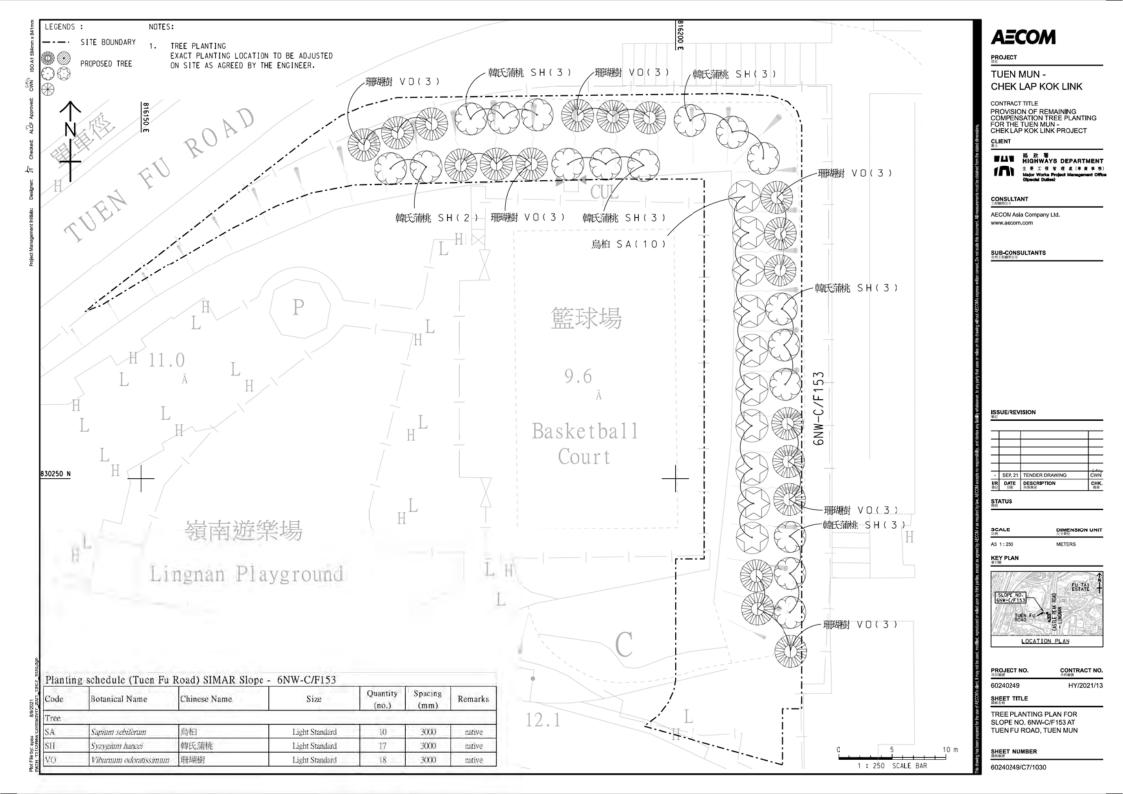


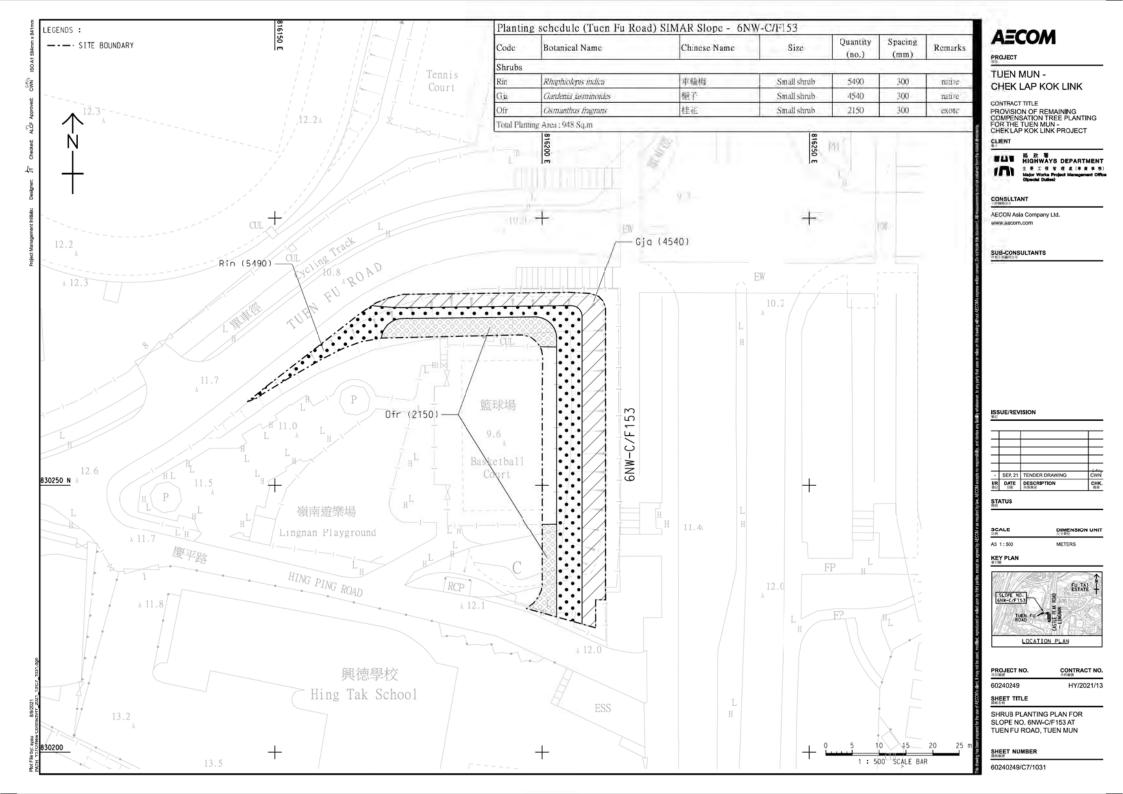
#### Contract No. HY/2021/13 **Wing Ho Yuen Landscaping Company Limited** Provision of Remaining Compensation Tree Planting for the Tuen Mun - Chek Lap Kok Link Project Three-Month Rolling Programme (September to December 2022) Task Name Finish Duration 4th Quarter Oct 51 Portion C-10NE-C/F6 Sat 08-10-22 Fri 30-09-22 9 days 52 Portion C-10NW-D/F93 Sun 09-10-22 Tue 18-10-22 10 days 53 Pre Handover Inspection Sat 01-10-22 Sat 07-01-23 99 days 54 Wed 09-02-22 EPD's Approval for Landscape Establishment Wed 16-11-22 281 days Works & Monitoring Proposal 55 56 Section 2 (Portion A1 to A7 and B) Mon 13-02-23 Mon 10-02-25 729 days 57 Mon 10-02-25 **Establishment Works** Mon 13-02-23 729 days 58 Regular ET Monitoring and Reporting Mon 10-02-25 Mon 13-02-23 729 days 59 Final Handover Inspection Wed 01-01-25 Mon 10-02-25 41 days 60 EM & A Final Report Wed 01-01-25 Mon 10-02-25 41 days 61 62 Section 2 (Portion C) Thu 13-07-23 Mon 10-02-25 **579 days** 63 **Establishment Works** Mon 10-02-25 Thu 13-07-23 579 days 64 Regular ET Monitoring and Reporting Thu 13-07-23 Mon 10-02-25 579 days 65 Final Handover Inspection Wed 01-01-25 Mon 10-02-25 41 days 66 EM & A Final Report Wed 01-01-25 Mon 10-02-25 41 days 67 68 Section 3 (Portion D) Thu 10-02-22 Sun 12-03-23 396 days 69 **Establishment Works** Thu 10-02-22 Sun 12-03-23 396 days 70 Regular ET Monitoring and Reporting Thu 10-02-22 Sun 12-03-23 396 days 71 Inspections by Ornithological Consultant Thu 10-02-22 Sun 12-03-23 396 days 72 Final Handover Inspection Sat 11-02-23 Sun 12-03-23 30 days Task Inactive Task Manual Summary Rollup External Milestone Manual Progress Date: 22 September 2022 Split Inactive Milestone Manual Summary Deadline Rev.: 0 Milestone Inactive Summary Start-only Critical Summary Manual Task Finish-only Critical Split Duration-only External Tasks Progress Project Summary Page 3

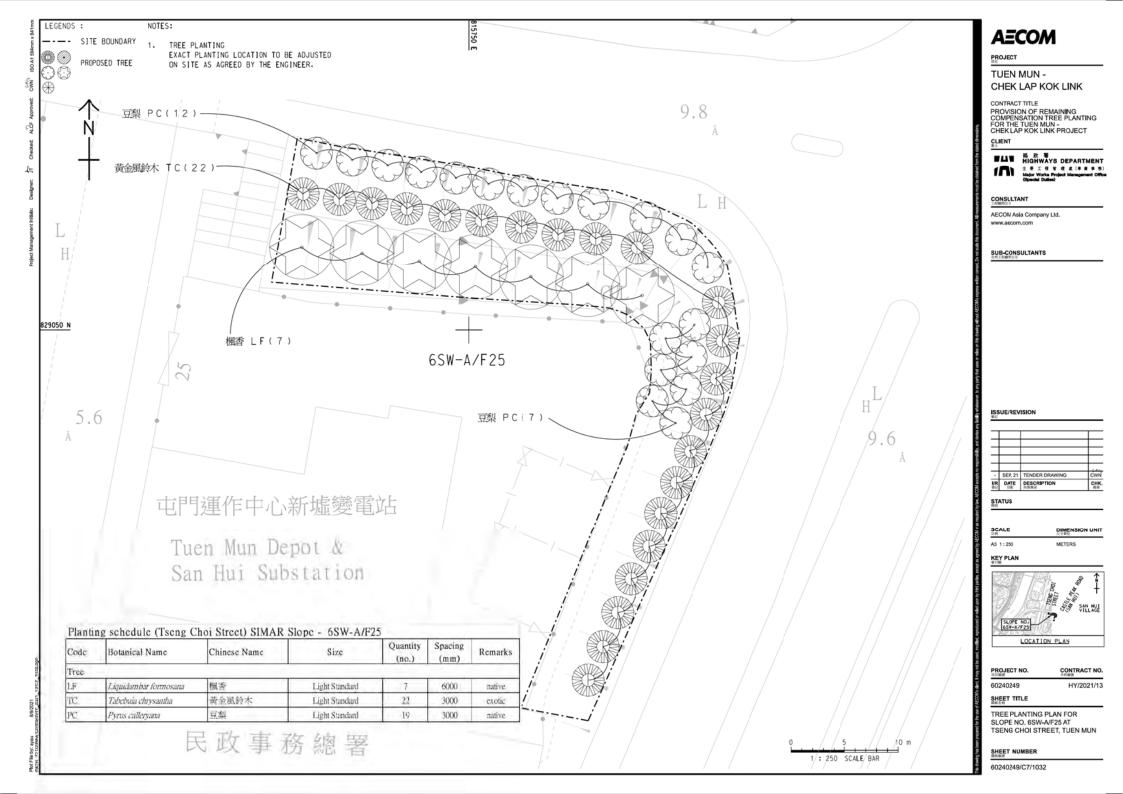


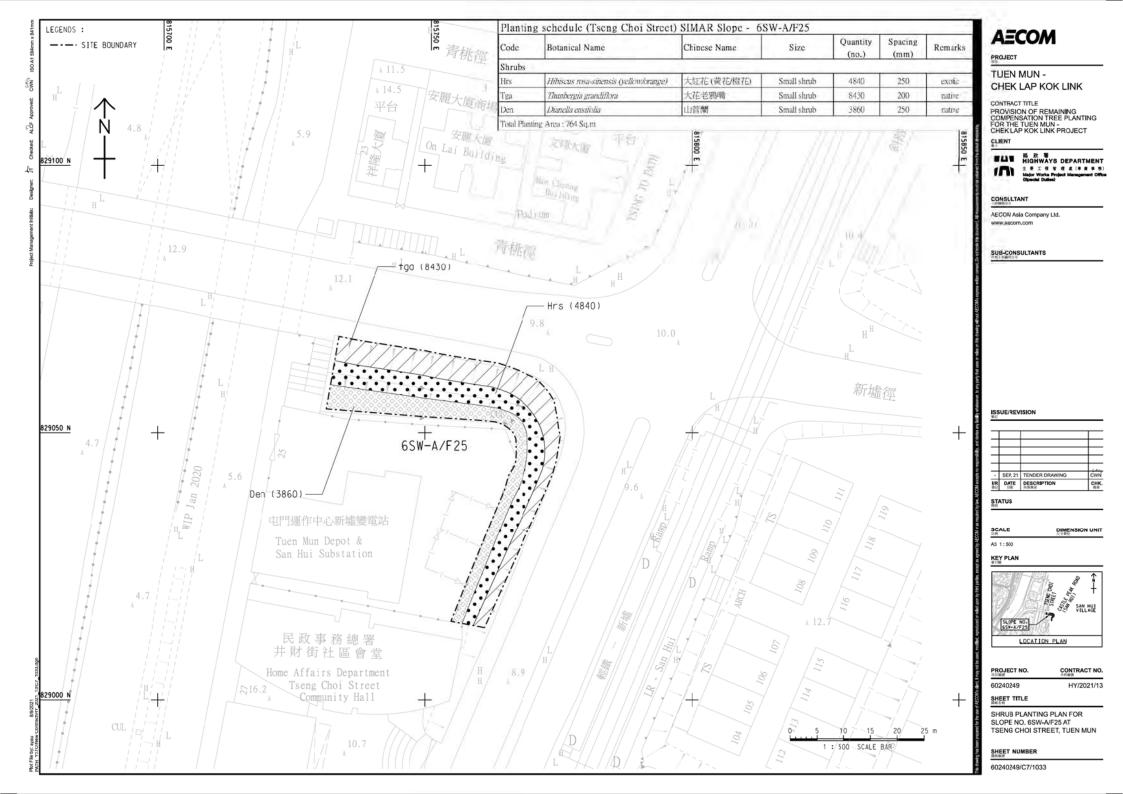
# **Appendix E**

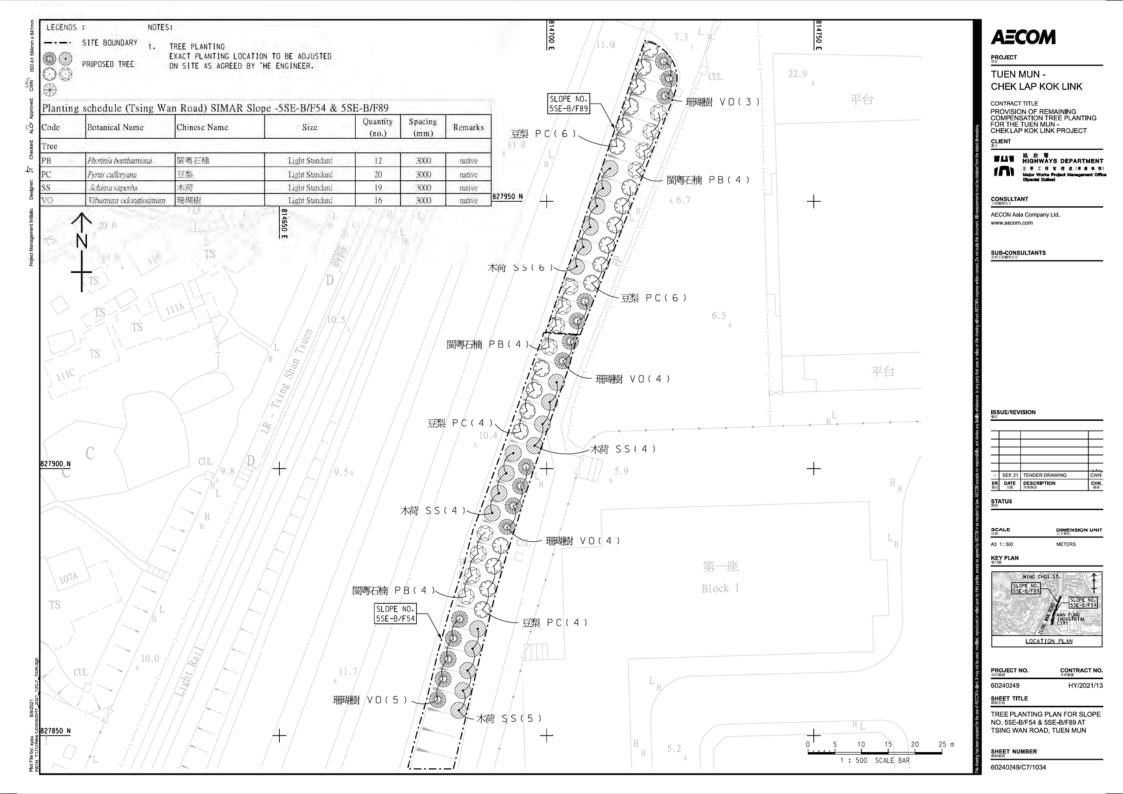
**Layout Plan for the Planting Zone** 

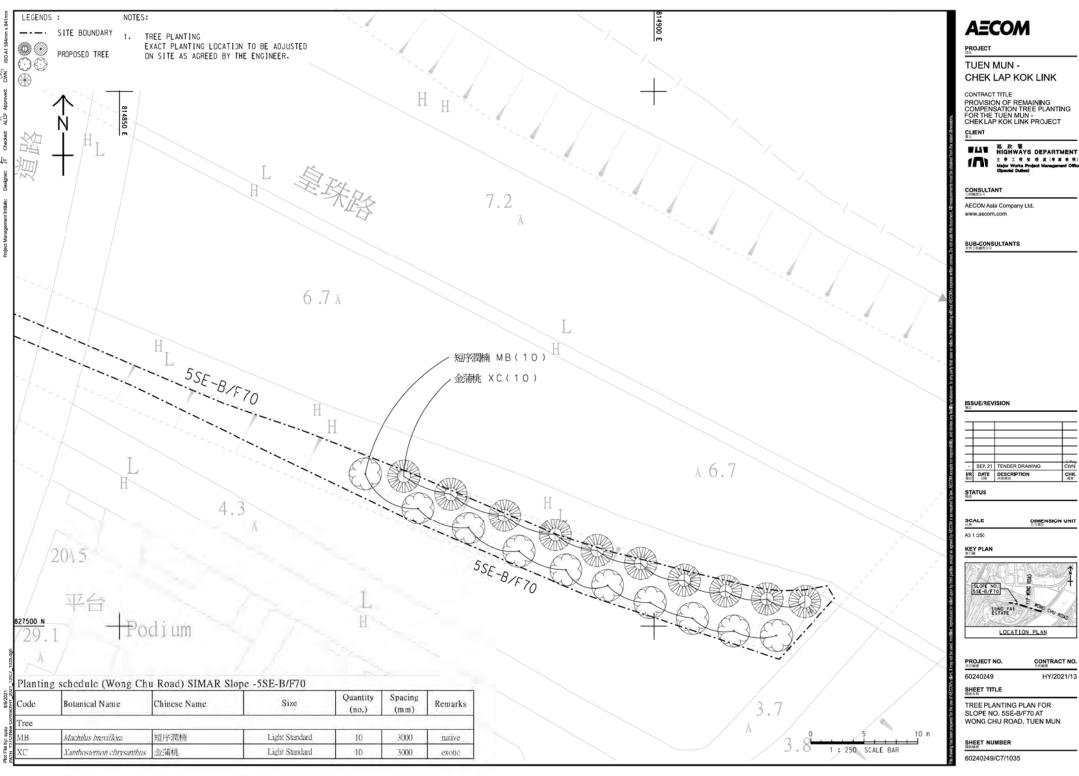












# CHEK LAP KOK LINK

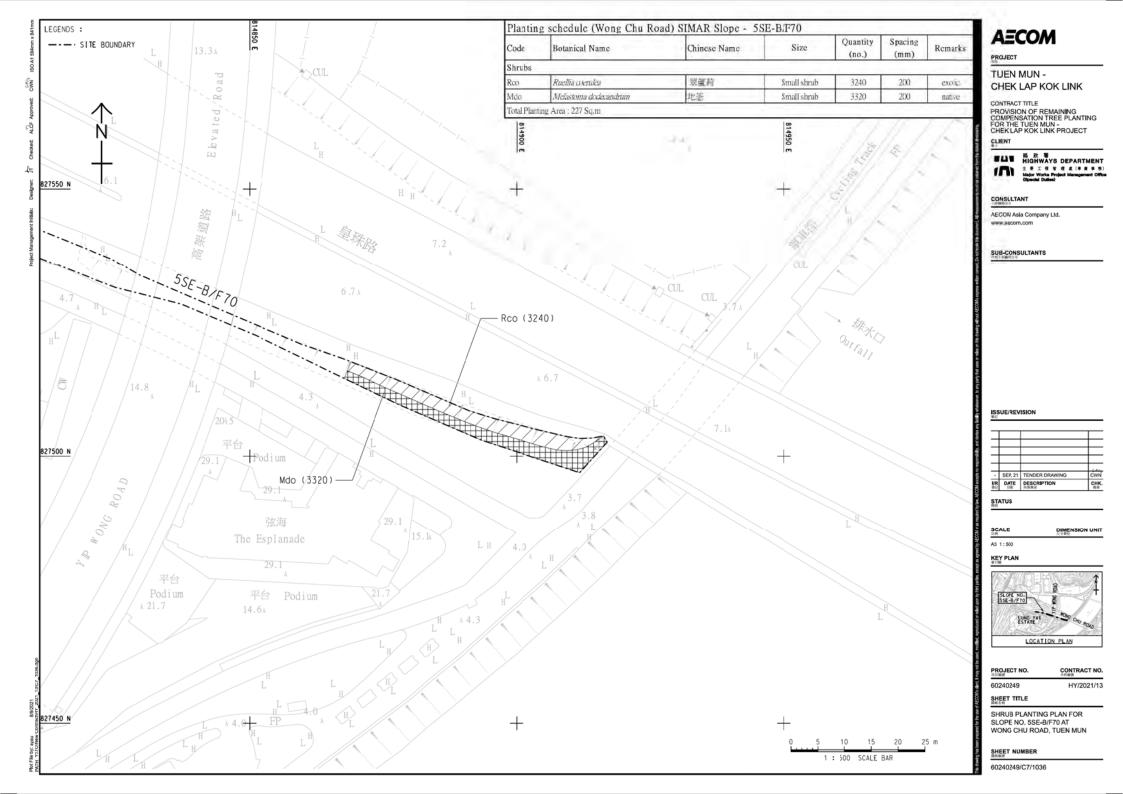
PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT

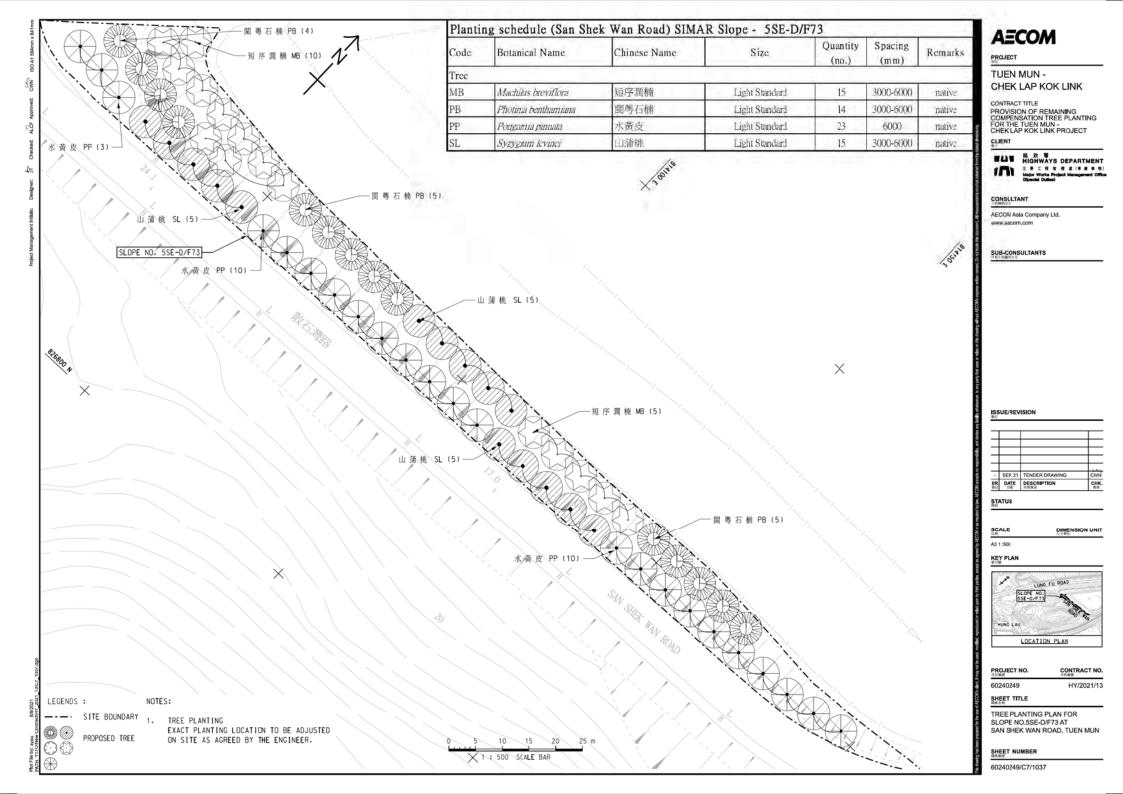
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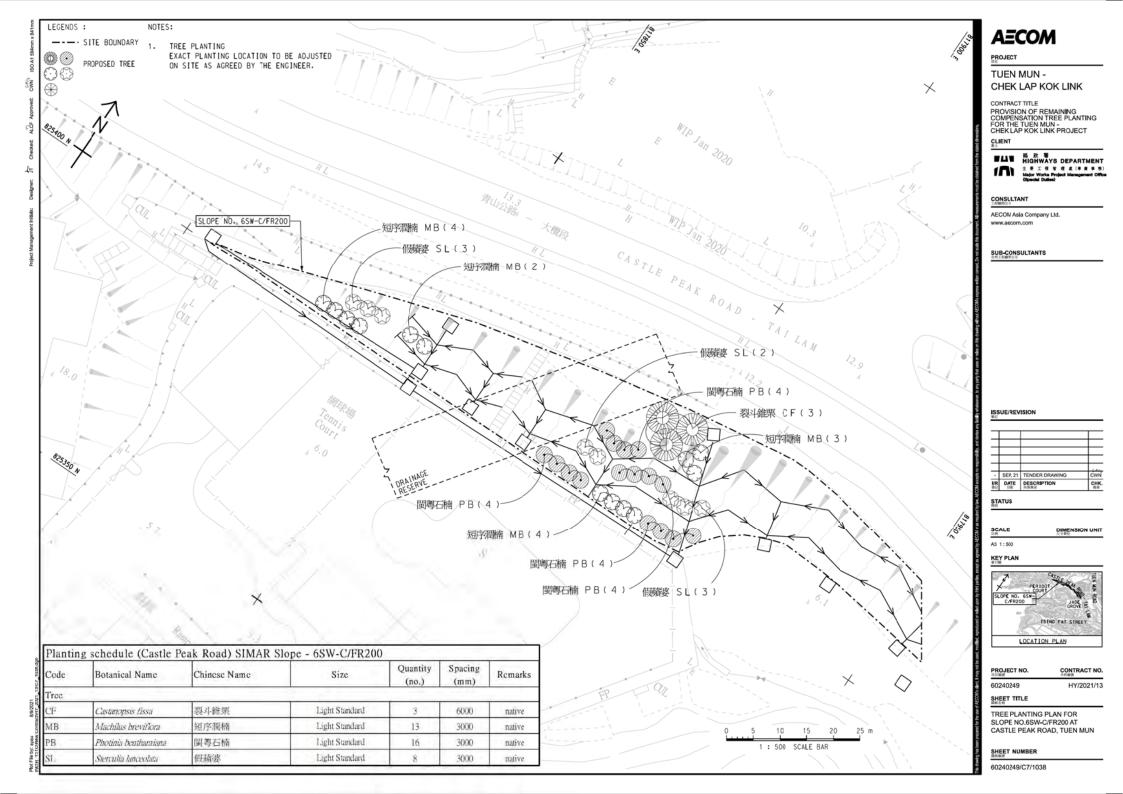


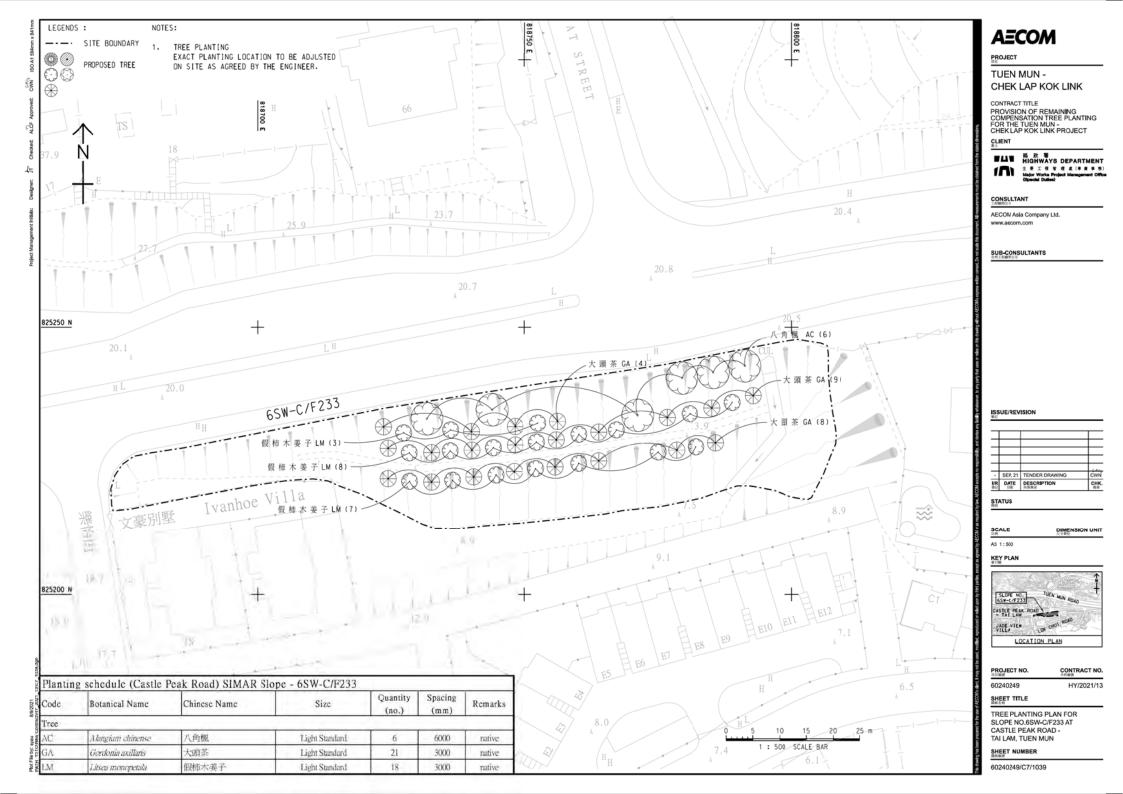
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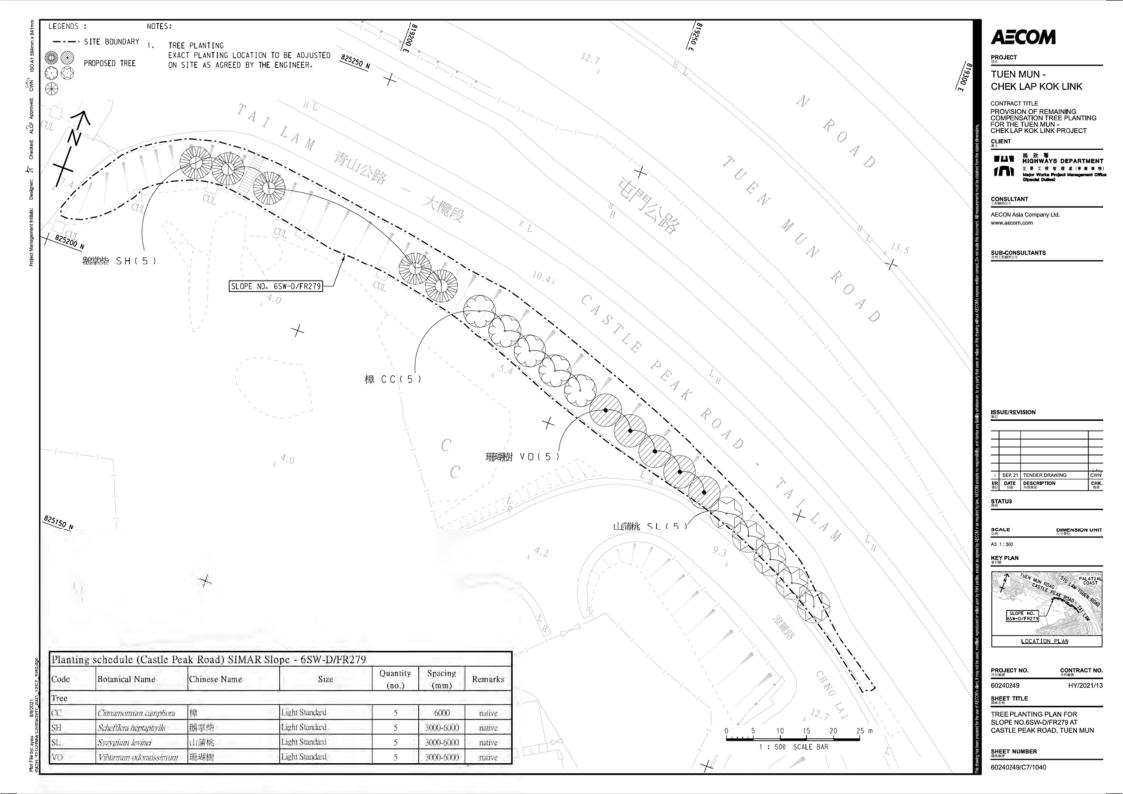
SLOPE NO. 5SE-B/F70 AT WONG CHU ROAD, TUEN MUN

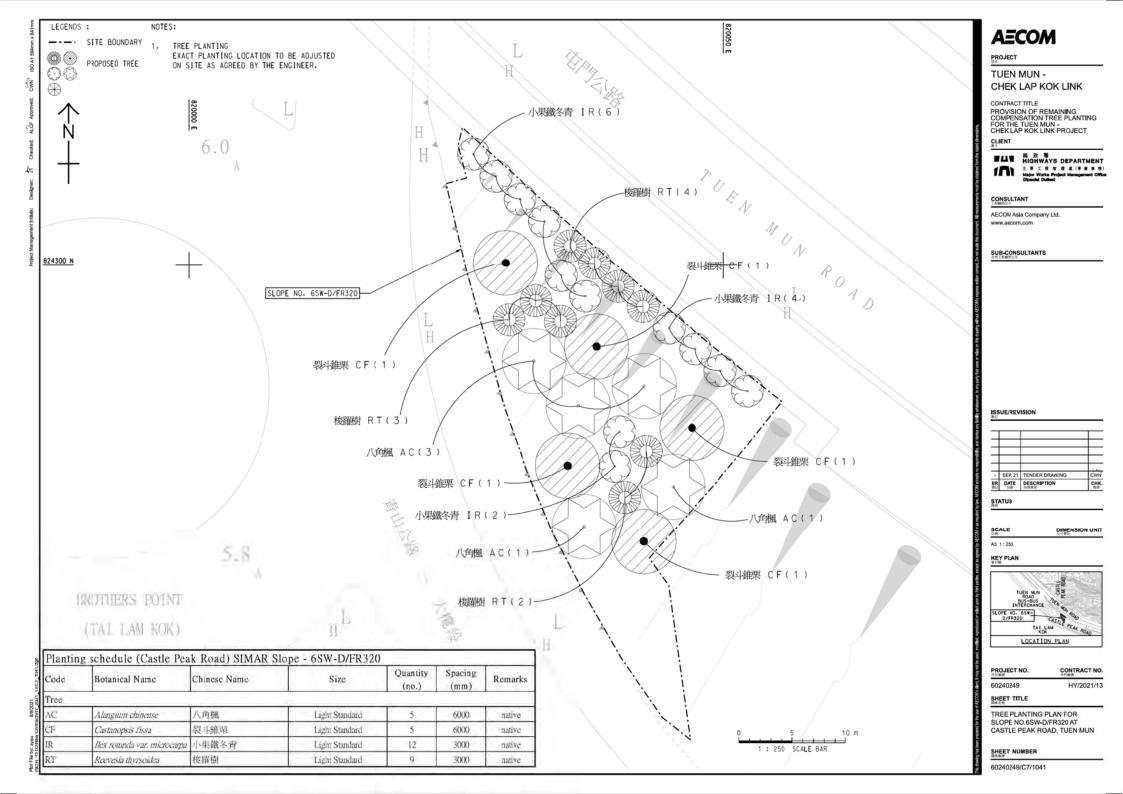


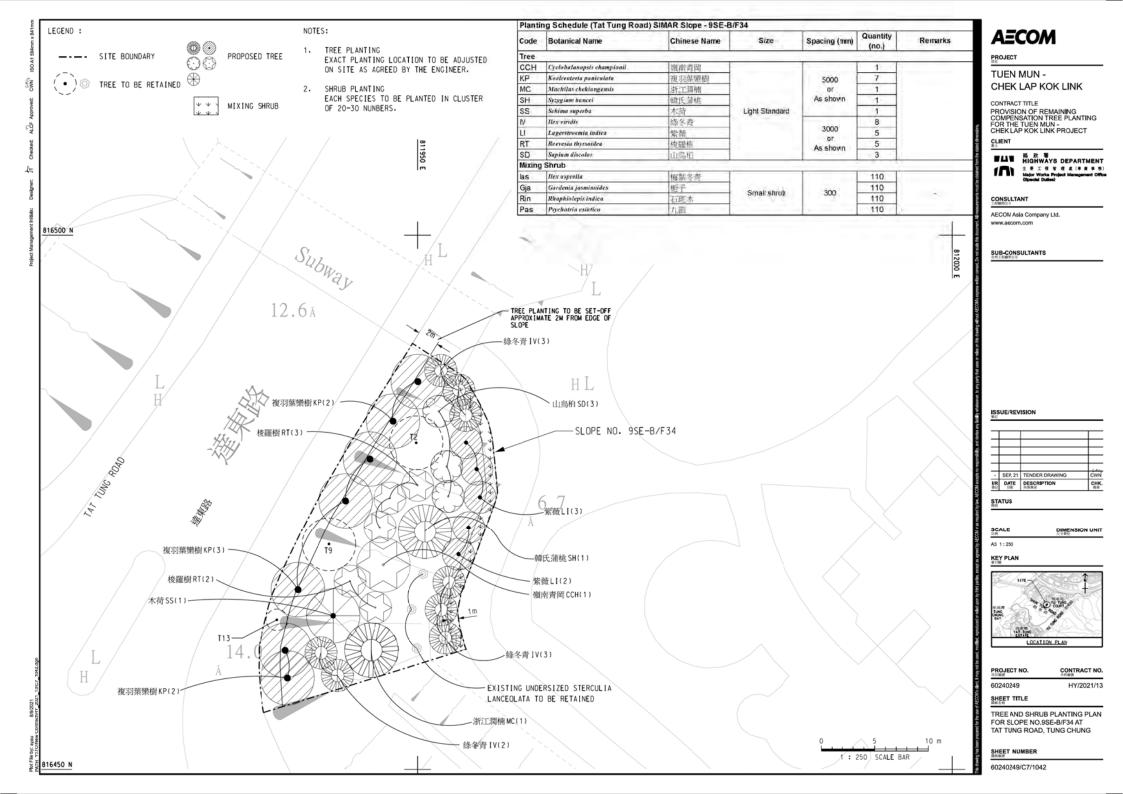


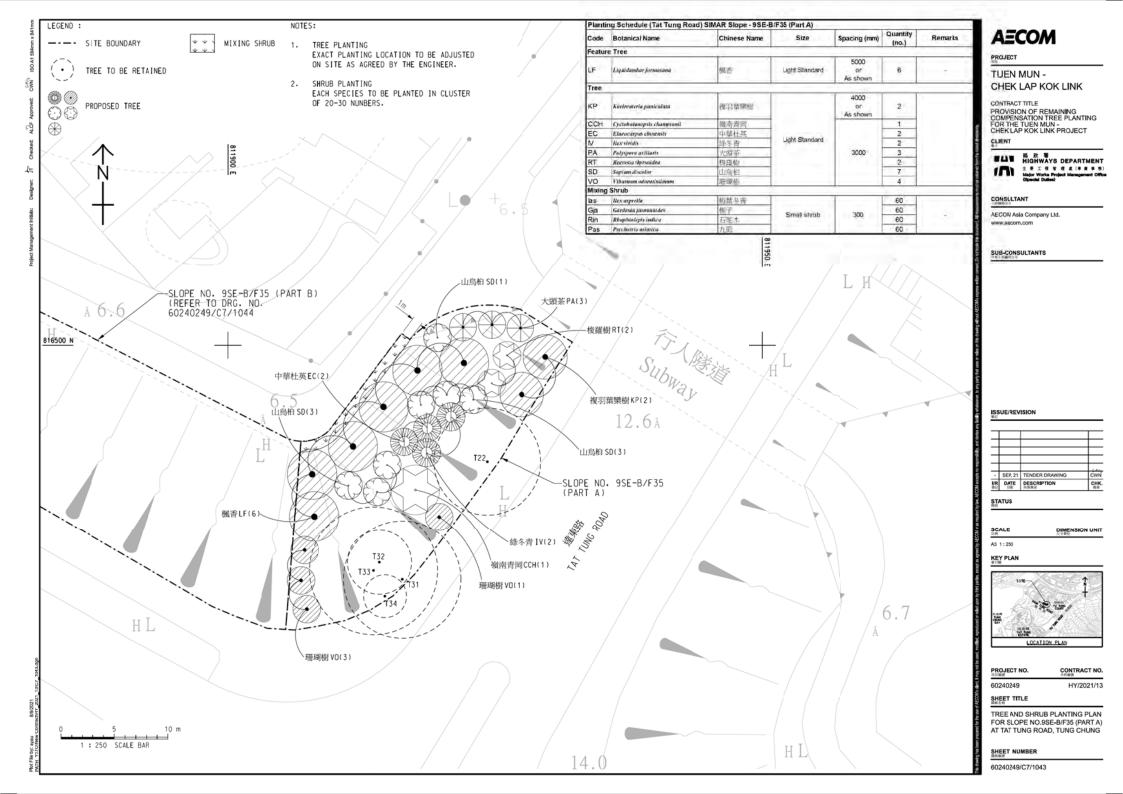


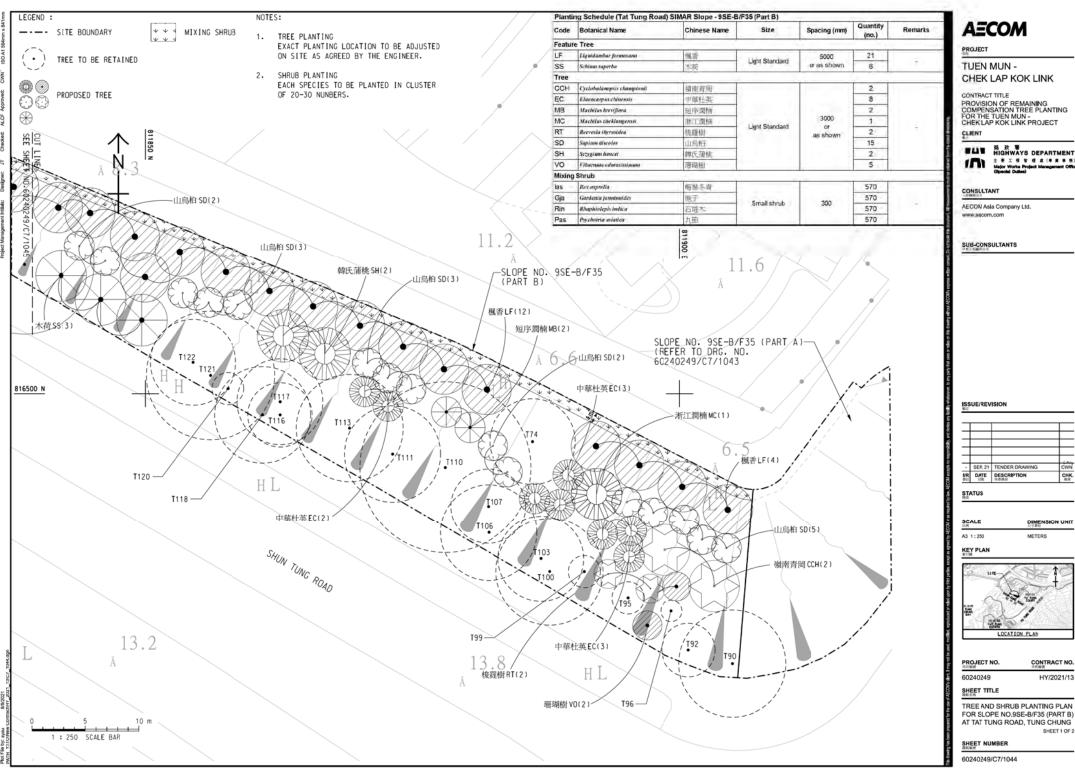












PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT



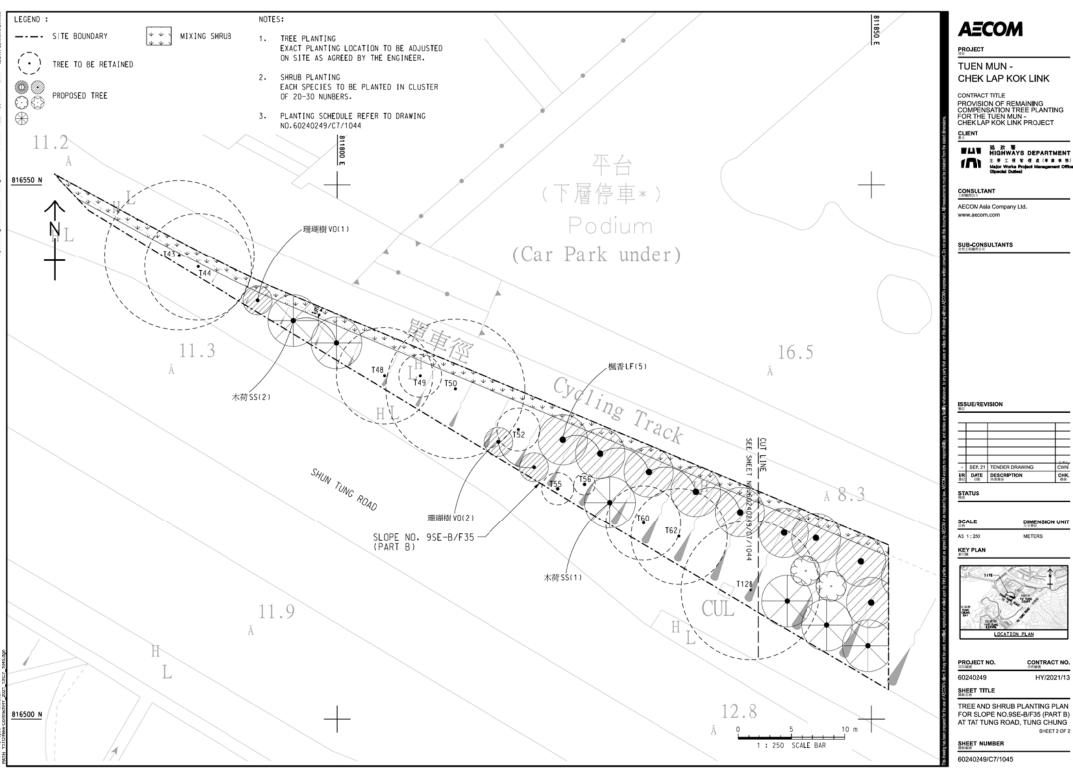
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PROJECT NO.	CONTRACT NO.
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FOR SLOPE NO.9SE-B/F35 (PART B) AT TAT TUNG ROAD, TUNG CHUNG SHEET 1 OF 2



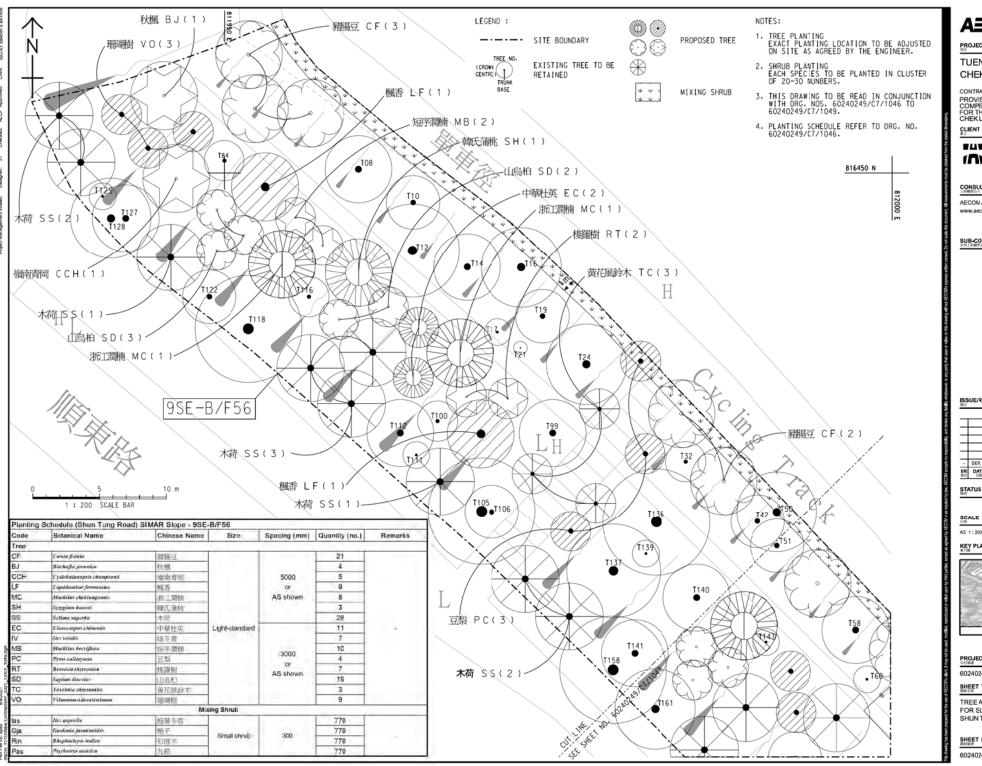
PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT

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CONTRACT NO. HY/2021/13

FOR SLOPE NO.9SE-B/F35 (PART B) AT TAT TUNG ROAD, TUNG CHUNG



#### **AECOM**

PROJECT

TUEN MUN -CHEK LAP KOK LINK

PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEKLAP KOK LINK PROJECT

路 政 署 HIGHWAYS DEPARTMENT

CONSULTANT

AECON Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

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KEY PLAN



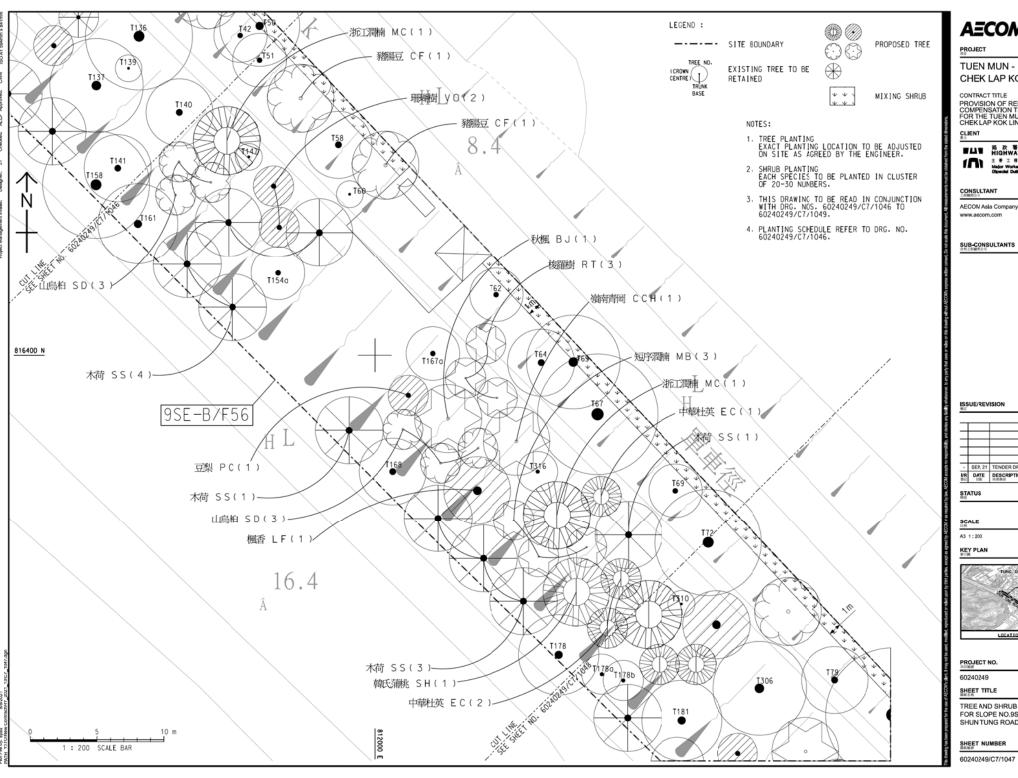
PROJECT NO. CONTRACT NO. 60240249 HY/2021/13

SHEET TITLE

TREE AND SHRUB PLANTING PLAN FOR SLOPE NO.9SE-B/F56 AT SHUNTUNG ROAD, TUNG CHUNG SHEET 1 OF 4

SHEET NUMBER

60240249/C7/1046



#### **AECOM**

#### TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT

■山東 路 数 署 HIGHWAYS DEPARTMENT

主美工程を建ま(本来本株) Major Works Project Management Office

AECON Asia Company Ltd.

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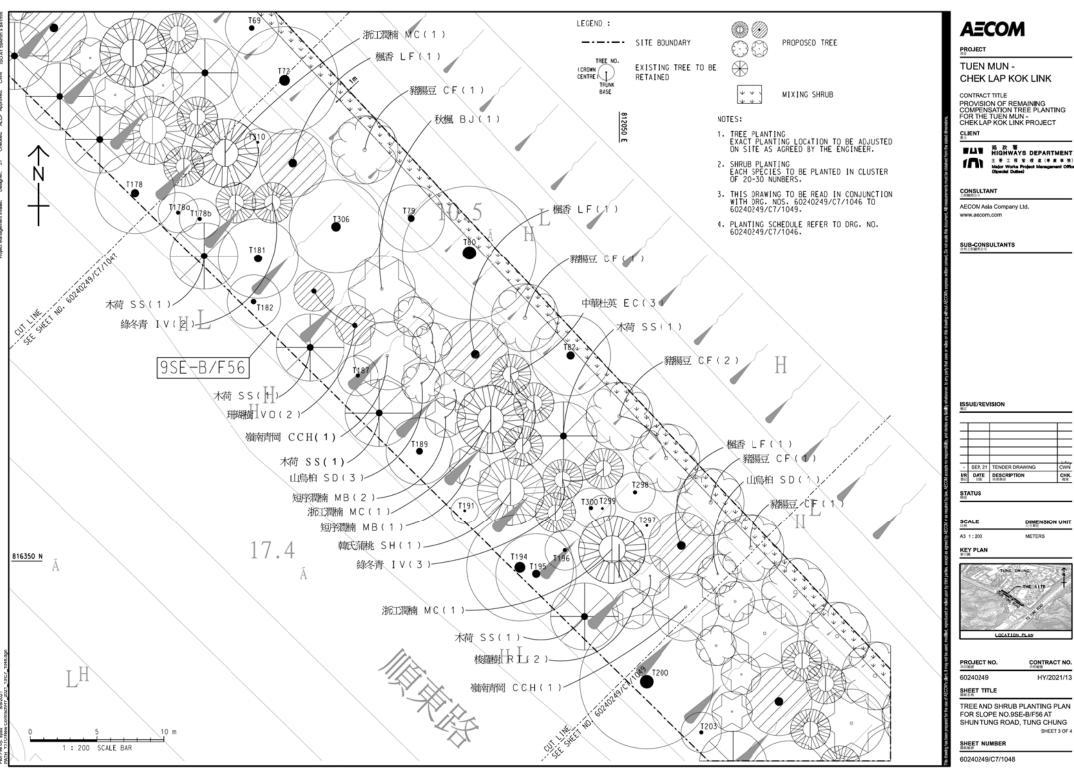
CONTRACT NO.

HY/2021/13

TREE AND SHRUB PLANTING PLAN FOR SLOPE NO.9SE-B/F56 AT SHUNTUNG ROAD, TUNG CHUNG

SHEET NUMBER

60240249/C7/1047



## CHEK LAP KOK LINK

PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT

AECON Asia Company Ltd.

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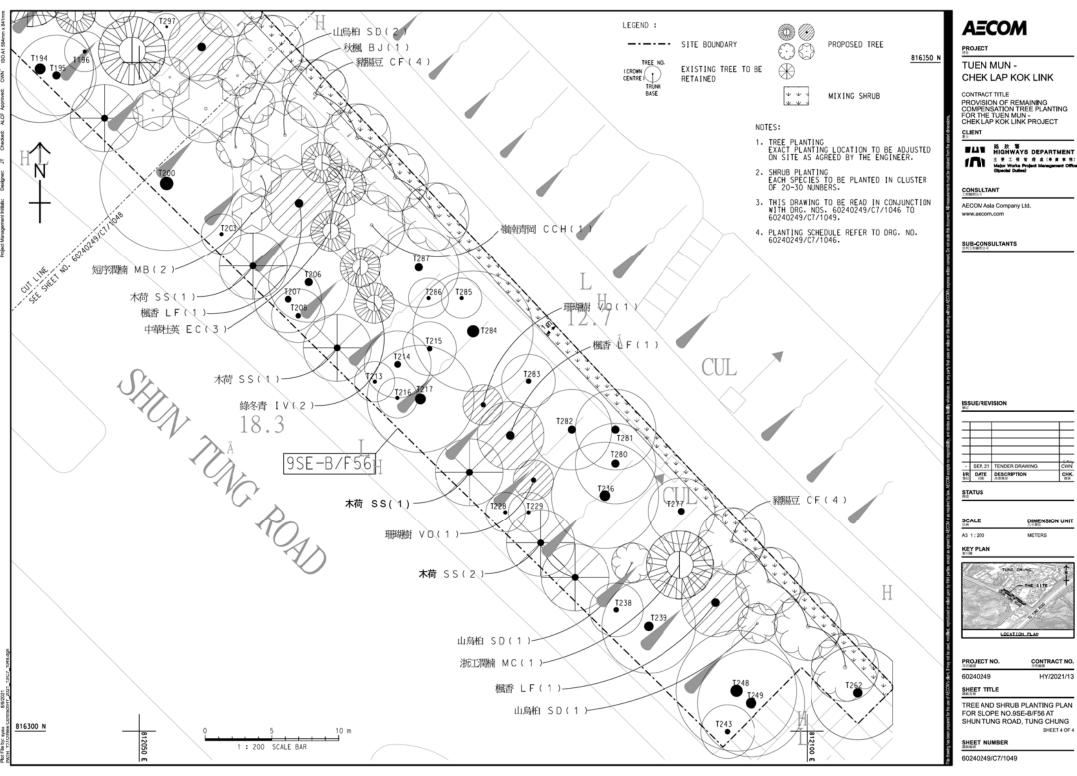
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CONTRACT NO.

HY/2021/13

TREE AND SHRUB PLANTING PLAN FOR SLOPE NO.9SE-B/F56 AT SHUNTUNG ROAD, TUNG CHUNG SHEET 3 OF 4



CHEK LAP KOK LINK

PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT

主要工程管理度(事業等) Major Works Project Management Office

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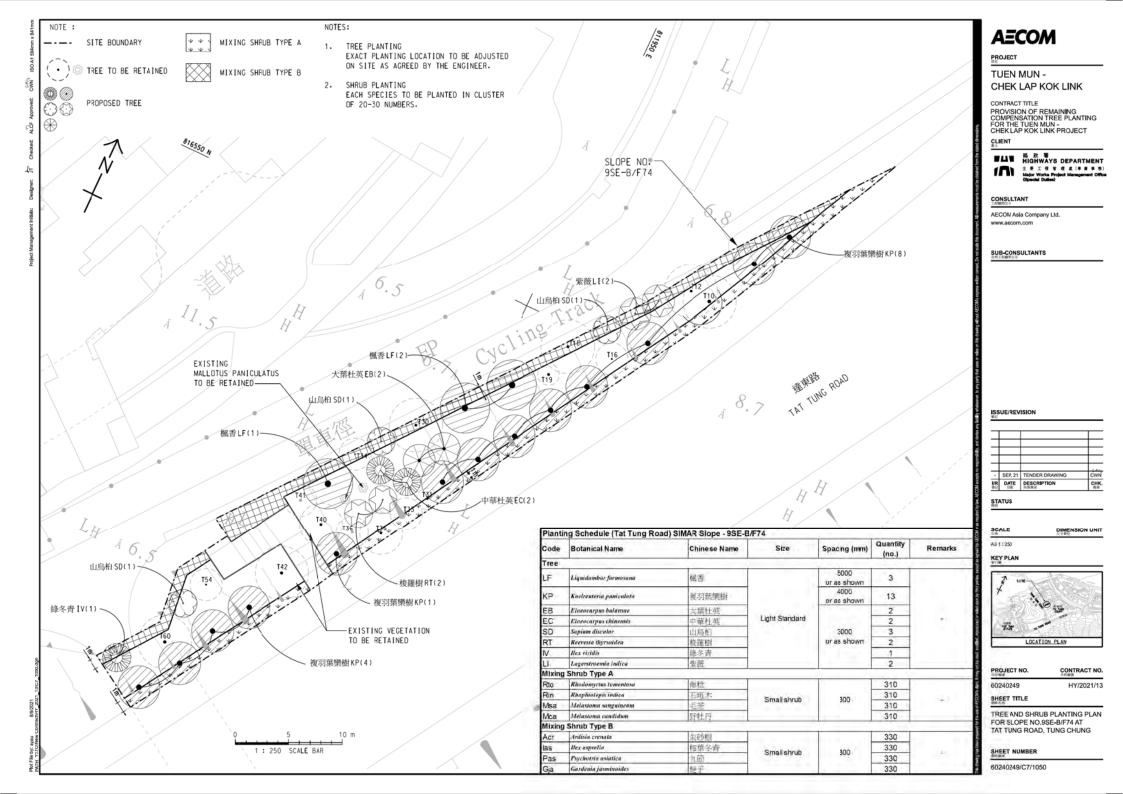
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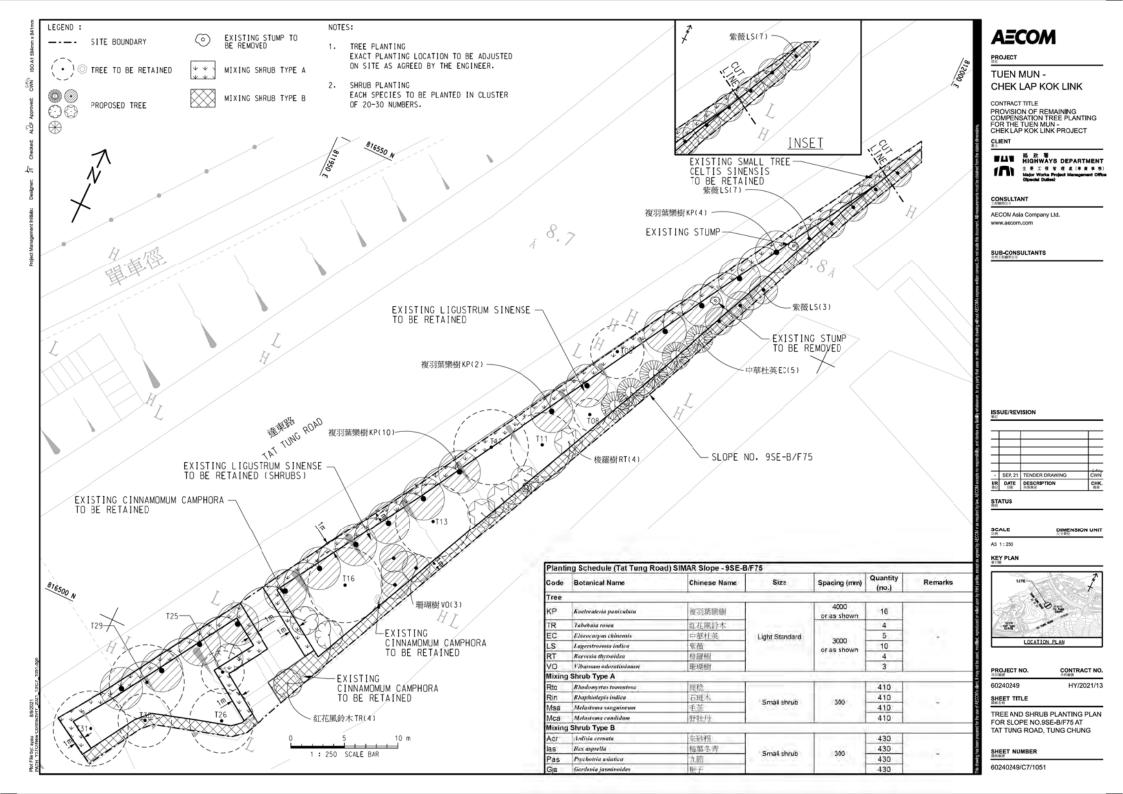


CONTRACT NO.

HY/2021/13

FOR SLOPE NO.9SE-B/F56 AT SHUNTUNG ROAD, TUNG CHUNG SHEET 4 OF 4





#### GENERAL NOTES :

- 1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRG. NO. HLANT1509-LA2001 TO LA2014.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  3. PLANTING TO SUIT EXISTING RETAINED TREES, SHRUBS.
  4. ALL NEW PLANT MATERIALS SHALL BE GROWN AND SUPPLIED IN CONTAINERS WITH APPROPRIATE SIZE
- AND FREE FROM PEST AND DISEASE.

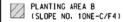
  5. THE SETTING OUT OF TREE PLANTING LOCATIONS SHALL BE AGREED BY THE GOVERNMENT REPRESENTATIVES ON-SITE BEFORE PLANTING.
- 6. ACTUAL PLANTING LOCATION TO BE CONFIRMED AND ADJUSTED ON SITE AS INSTRUCTED BY THE GOVERNMENT REPRESENTATIVE.
- 7. SITE CLEARANCE, GRASS CUTTING AND WEEDING TO BE ARRANGED PRIOR TO PLANTING.
  8. APPROPRIATE SOIL CONDITIONER, FERTILIZER, AND MULCHING SHALL BE APPLIED TO EACH EXCAVATED PLANTING HOLES PRIOR TO PLANTING.

Sheet no.	Sheet Name
LA1001	General Notes and Location Plan
LA2001	Tree Planting Plan - Slope No. 10NW-D/FR89 (Page 1 of 3)
LA2002	Tree Planting Plan - Slope No. 10NW-D/FR89 (Page 2 of 3)
LA2003	Tree Planting Plan - Slope No. 10NW-D/FR89 (Page 3 of 3)
LA2004	Tree Planting Plan - Slope No. 10NW-D/FR90 (Page 1 of 1)
LA2005	Tree Planting Plan - Slope No. 10NW-D/F88 (Page 1 of 2)
LA2006	Tree Planting Plan - Slope No. 10NW-D/F88 (Page 2 of 2)
LA2007	Tree Planting Plan - Slope No. 10NW-D/F86 (Page 1 of 2)
LA2008	Tree Planting Plan - Slope No. 10NW-D/F86 (Page 2 of 2)
LA2009	Tree Planting Plan - Slope No. 10NE-C/F4 (Page 1 of 2)
LA2010	Tree Planting Plan - Slope No. 10NE-C/F4 (Page 2 of 2)
LA2011	Tree Planting Plan - Slope No. 10NE-C/F5 (Page 1 of 2)
LA2012	Tree Planting Plan - Slope No. 10NE-C/F5 (Page 2 of 2)
LA2013	Tree Planting Specification (Sheet 1 of 2)
LA2014	Tree Planting Specification (Sheet 2 of 2)

LEGEND :

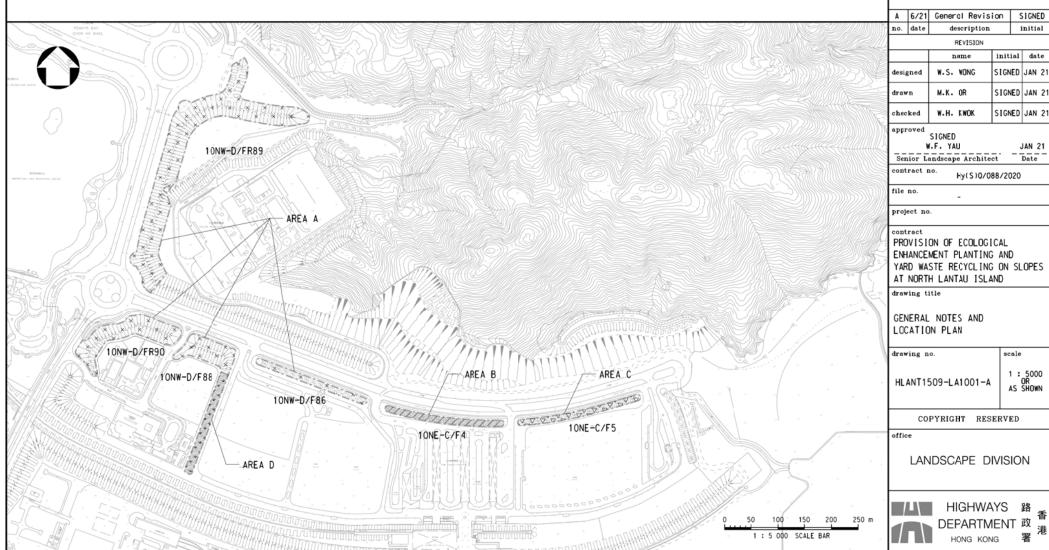
— - SLOPE BOUNDARY

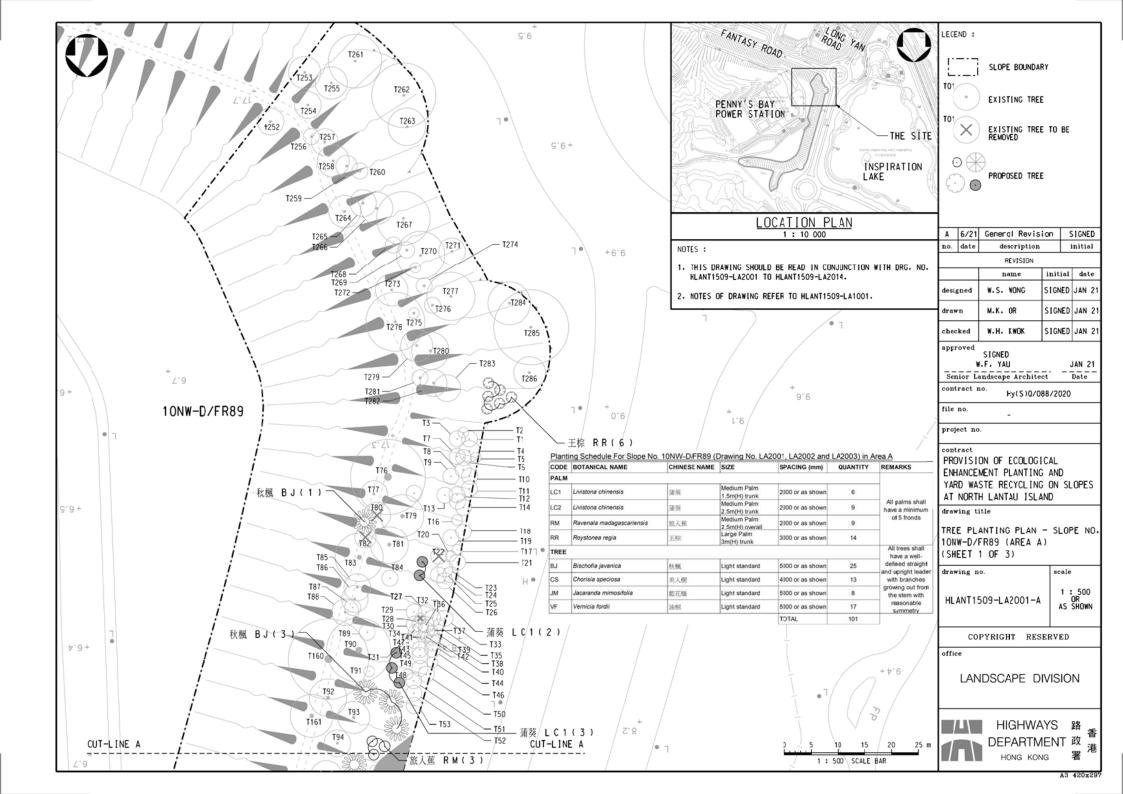
PLANTING AREA A (SLOPE NO. 10NW-D/FR89. 10NW-D/FR90. 10NW-D/F88. 10NW-D/F86)

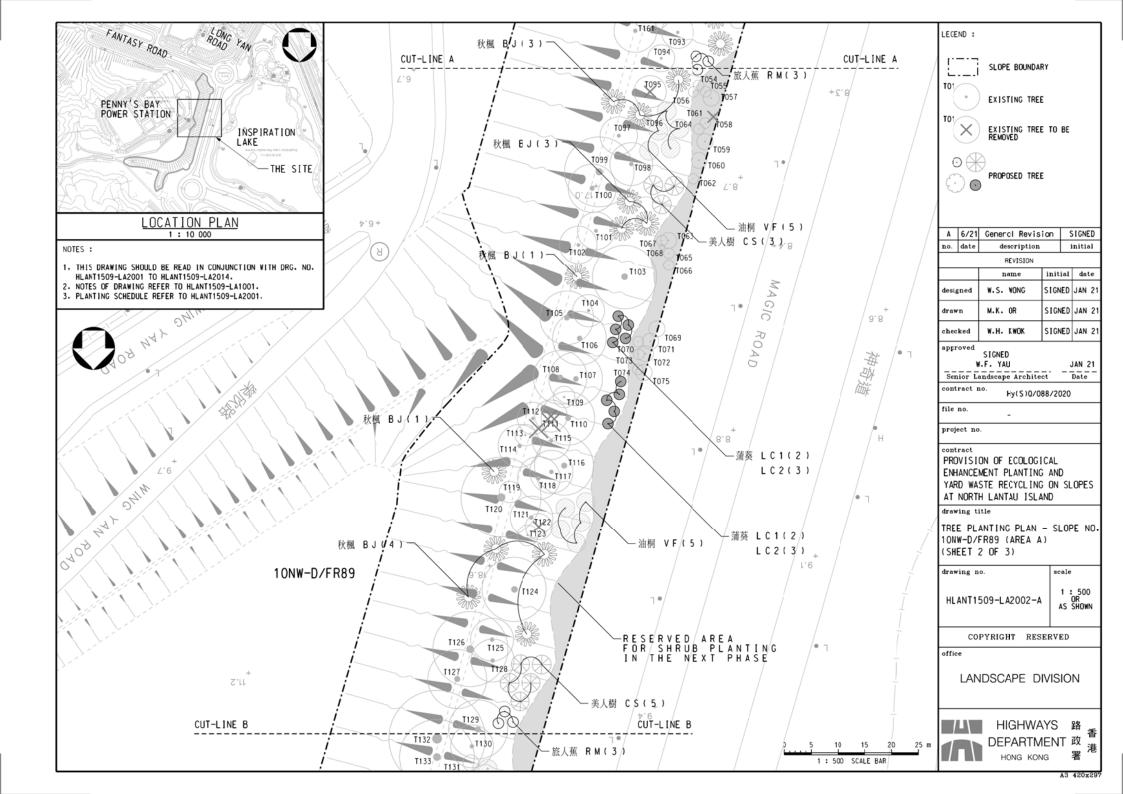


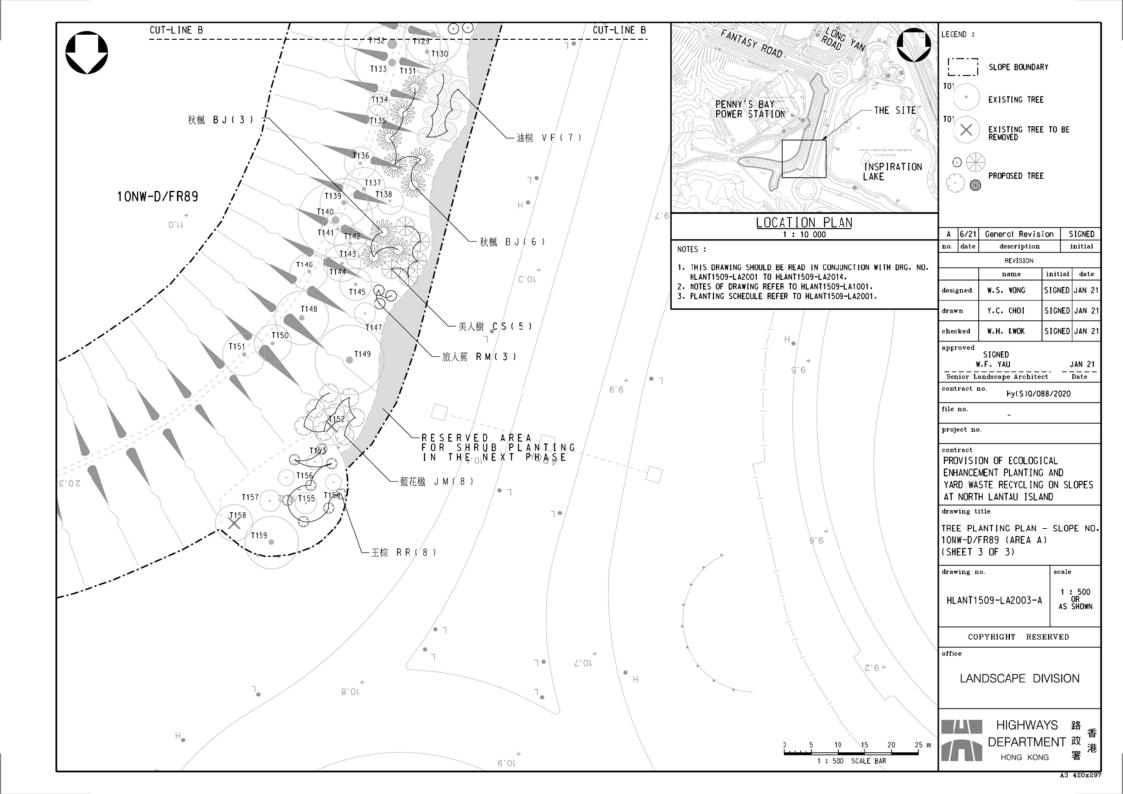
PLANTING AREA C
(SLOPE NO. 10NE-C/F5)

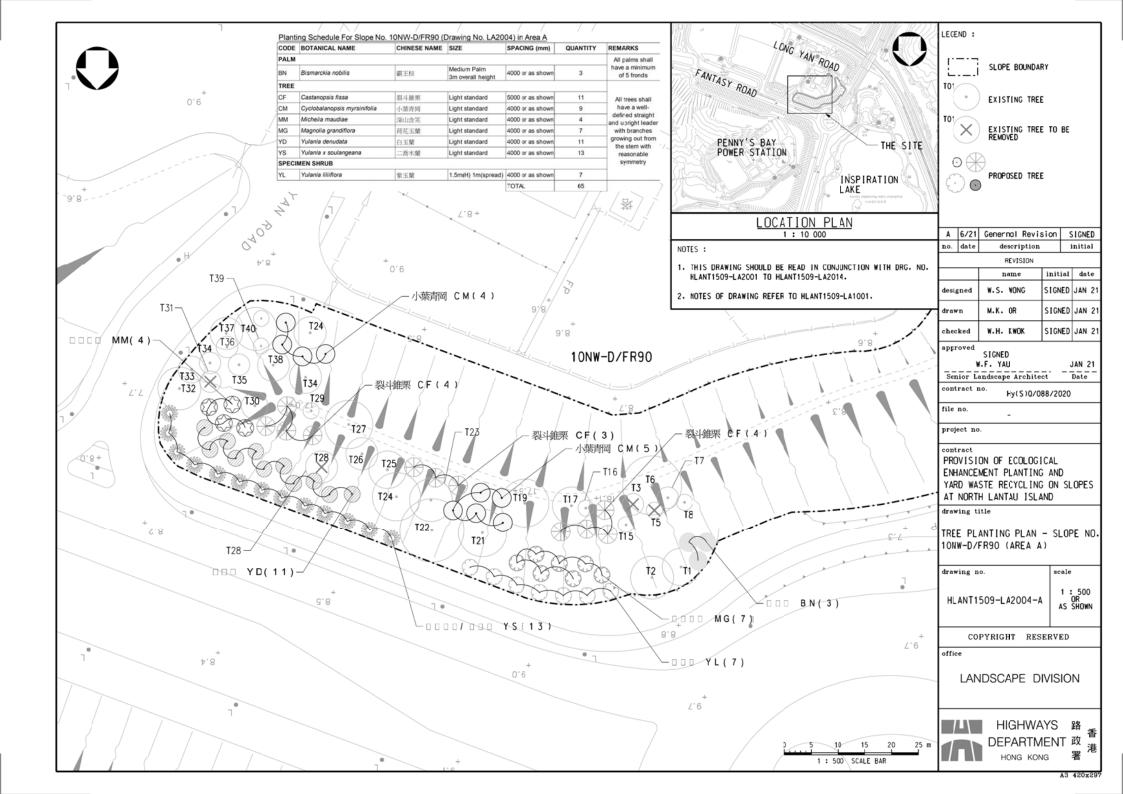
PLANTING AREA D
(SLOPE NO. 10NW-D/F88)

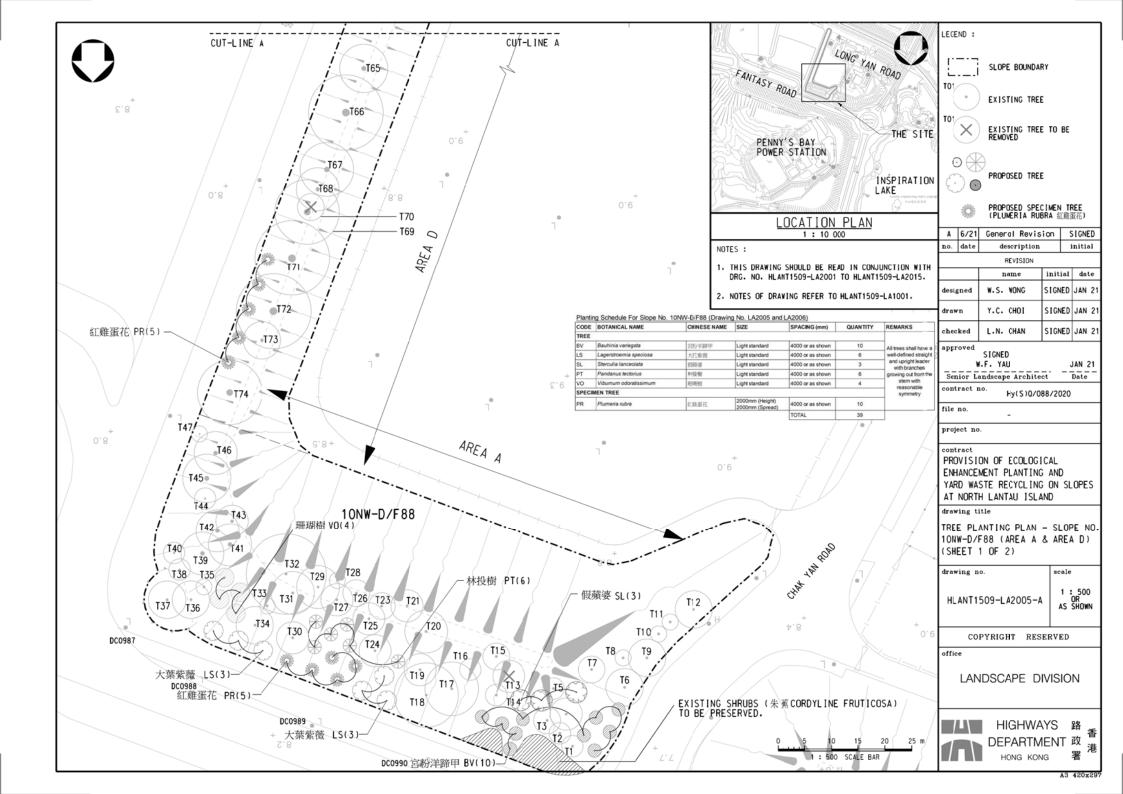


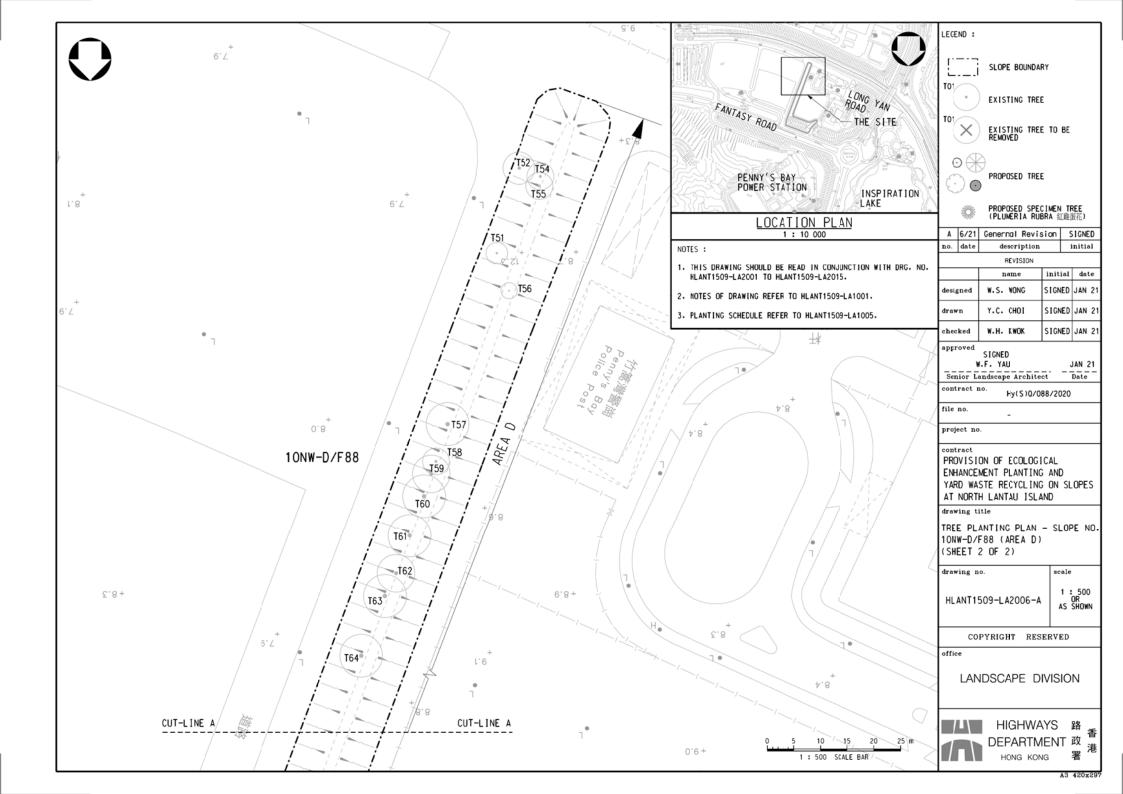


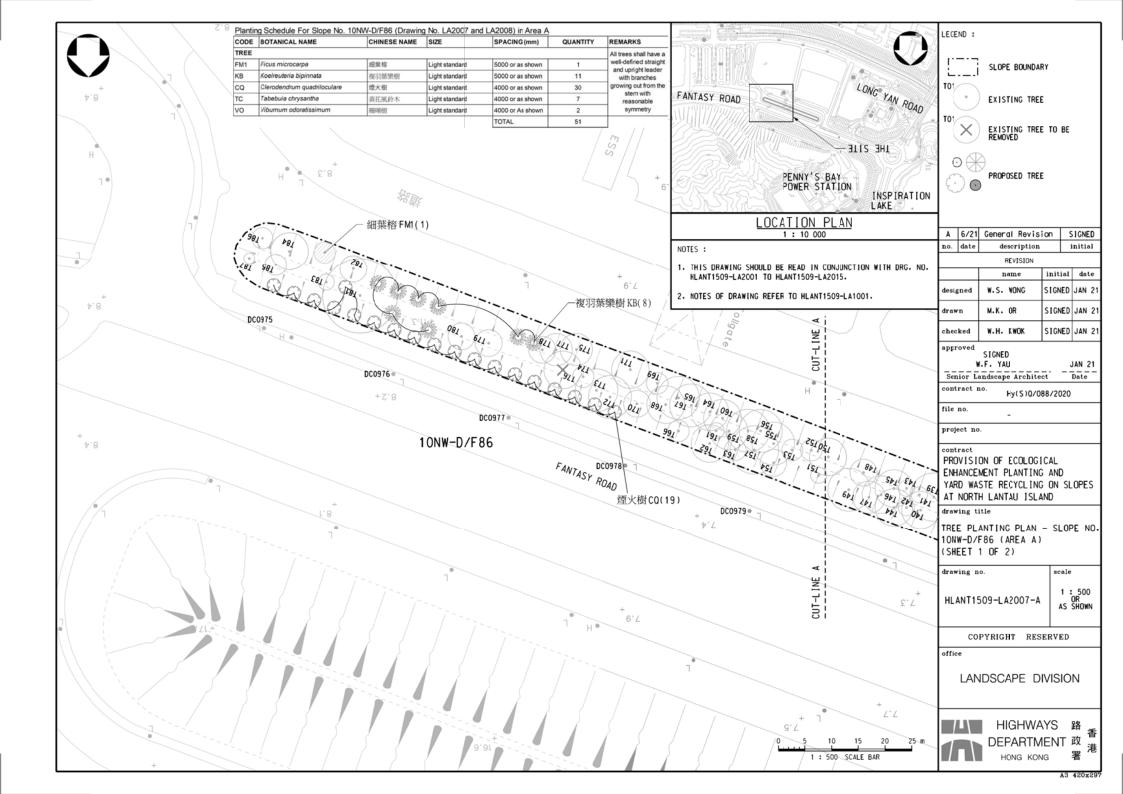


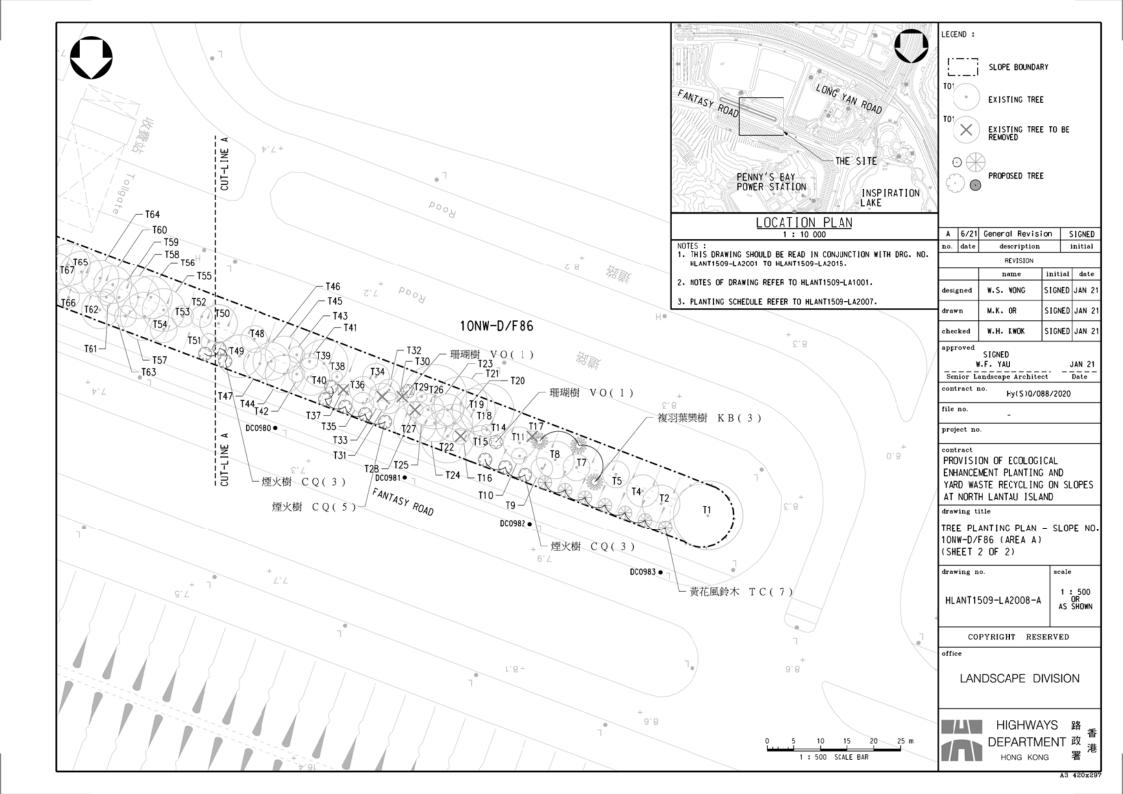


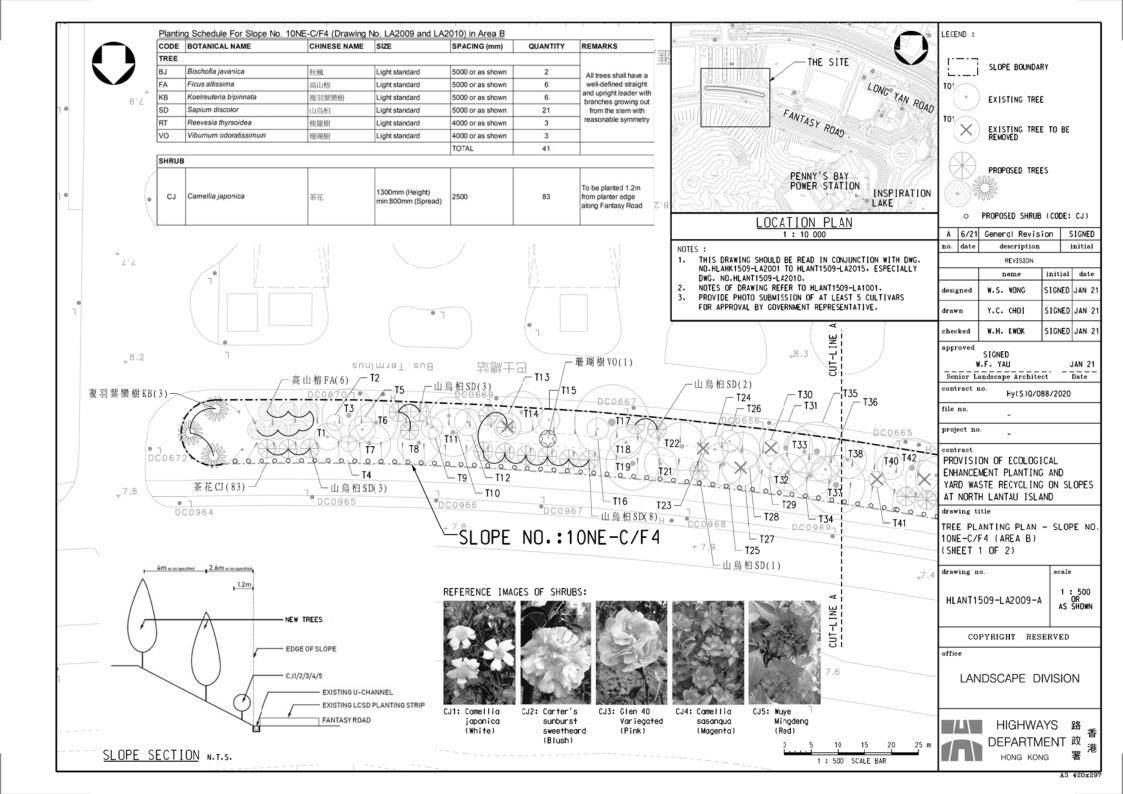


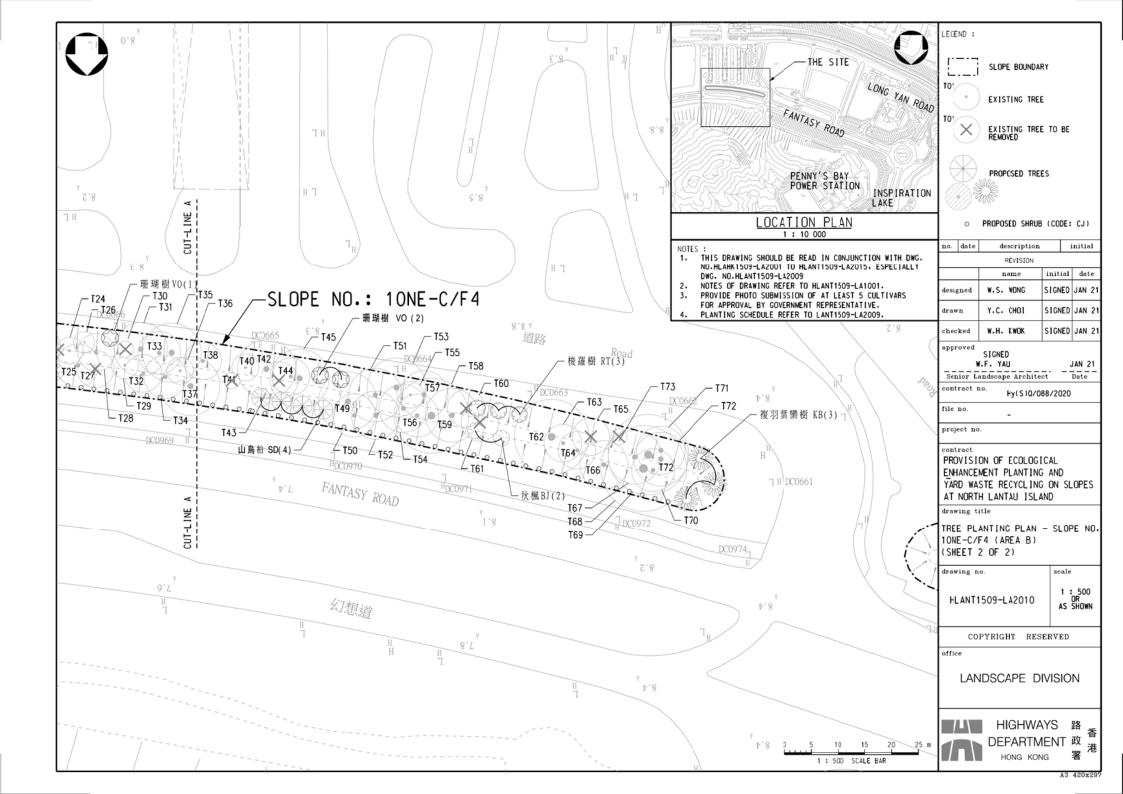


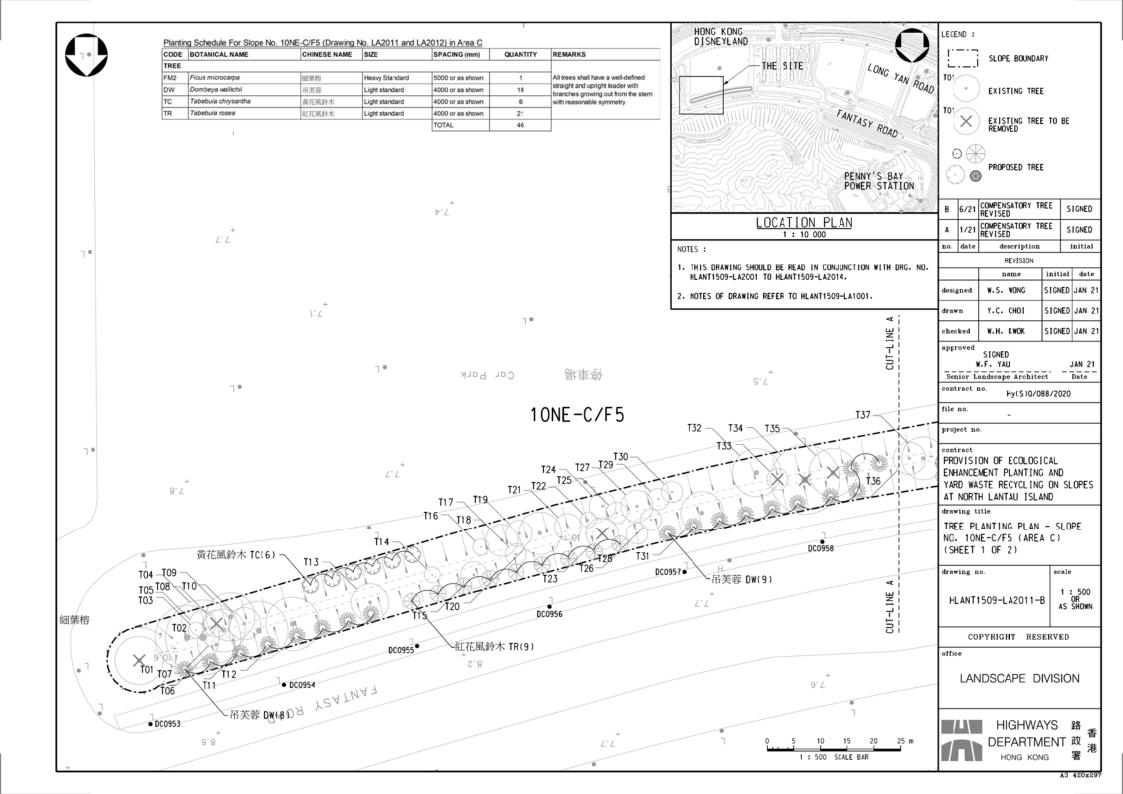


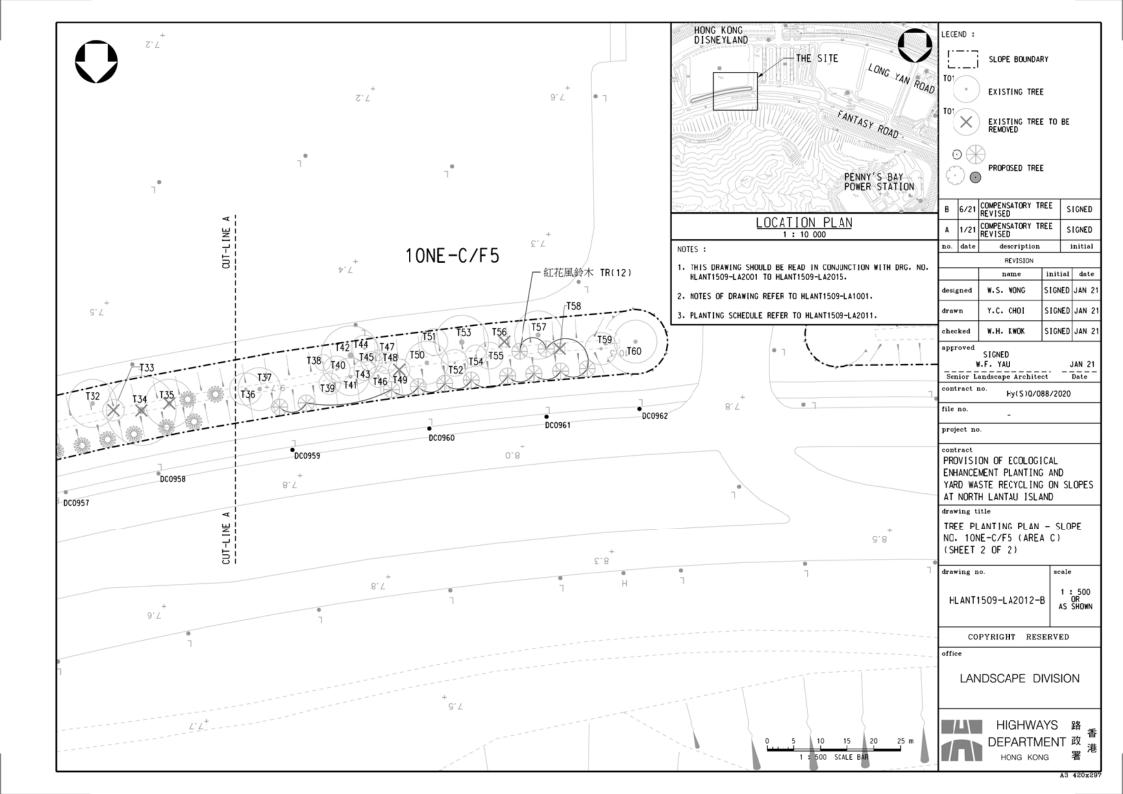












**Kok Link Project** 





## **Appendix F**

**Checklist for Landscape and Visual Monitoring** 

#### Contract No. HY/2021/13

## Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project

# **AUES**

## Landscape and Visual Checklist

## Monitoring Date: $2^{nd}$ September 2022

Item	Environmental Protection Measures	Location/ Timing	Implementation		Status		Status		Remarks
			Agent	A	UA	IR	NA		
1	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree 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. (Tree protection measures will be detailed at Tree Removal Application stage)	All areas / During construction	Design Consultant/ Contractor	√					
2	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	All areas / During construction	Design Consultant/ Contractor				1	No transplantation works has been carried out for this contract.	
3	Hillside and roadside screen planting to proposed roads, associated structures and slope works	All areas / During construction	Design Consultant/ Contractor				1	No hillside and roadside screen planting has been carried out for this contract.	
4	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone)	All areas / During construction	Design Consultant/ Contractor				√	No hydroseeding or sheeting of soil stockpiles	
5	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works	All areas / During construction	Design Consultant/ Contractor				1	According to the job nature and the scale of the Contract, no	

							hoarding will be installed.
6	Control night-time lighting and glare by hooding all lights	All areas / During construction	Design Consultant/ Contractor			/	No lighting will be installed.
7	Ensure no run-off into water body adjacent to the Project Area	All areas / During construction	Design Consultant/ Contractor	1			
8	Avoidance of excessive height and bulk of buildings and structures	All areas / During construction	Design Consultant/ Contractor			/	No building or structures would be constructed.
9	Recycle/Reuse all felled trees and vegetation, e.g. mulching	All areas / During construction	Design Consultant/ Contractor	<b>V</b>			Recycle of trees and vegetation will be carry out by licensed recycler if necessary.
10	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006	All areas / During construction	Design Consultant/ Contractor	<b>V</b>			Compensatory planting was carried out according to the approved L&V Plan.

Legend: A=Acceptable, UA= Unacceptable, IR=Improvement Required, N/A=Not Applicable

Note: All item reference to Technical Memorandum on Environmental Impact Assessment, TM-CLKL EIA Section 10.9 & Project EM&A Manual Section 7.6

Checked and M	lonitored by:(	andy Lau	Candy Lau	( <b>RLA</b> ) 2	September 2	<sup>2022</sup> (Date
		1				
Checked by: _	<u> </u>	Ben Tam	(ET)	2 September	2022	(Date)
Checked by:	2	(IEC	C Rep.)	2 September 202	<sup>2</sup> (Date	e)

## **Photo Record**



Item 1: No damage was observed for the existing trees on boundary during the planting works.



Item 7: Ensure no run-off into water body

#### Contract No. HY/2021/13

### Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project

# **AUES**

## **Landscape and Visual Checklist**

## Monitoring Date: $9^{th}$ September 2022

Item	Environmental Protection Measures	Location/ Timing	Implementation		Status		Status		Remarks
			Agent	A	UA	IR	NA		
1	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree 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. (Tree protection measures will be detailed at Tree Removal Application stage)	All areas / During construction	Design Consultant/ Contractor	√					
2	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	All areas / During construction	Design Consultant/ Contractor				1	No transplantation works has been carried out for this contract.	
3	Hillside and roadside screen planting to proposed roads, associated structures and slope works	All areas / During construction	Design Consultant/ Contractor				1	No hillside and roadside screen planting has been carried out for this contract.	
4	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone)	All areas / During construction	Design Consultant/ Contractor				√	No hydroseeding or sheeting of soil stockpiles	
5	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works	All areas / During construction	Design Consultant/ Contractor				1	According to the job nature and the scale of the Contract, no	

							hoarding will be installed.
6	Control night-time lighting and glare by hooding all lights	All areas / During construction	Design Consultant/ Contractor		٦	/	No lighting will be installed.
7	Ensure no run-off into water body adjacent to the Project Area	All areas / During construction	Design Consultant/ Contractor				
8	Avoidance of excessive height and bulk of buildings and structures	All areas / During construction	Design Consultant/ Contractor		٦	/	No building or structures would be constructed.
9	Recycle/Reuse all felled trees and vegetation, e.g. mulching	All areas / During construction	Design Consultant/ Contractor	<b>√</b>			Recycle of trees and vegetation will be carry out by licensed recycler if necessary.
10	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006	All areas / During construction	Design Consultant/ Contractor	√			Compensatory planting was carried out according to the approved L&V Plan.

Legend: A=Acceptable, UA= Unacceptable, IR=Improvement Required, N/A=Not Applicable

Note: All item reference to Technical Memorandum on Environmental Impact Assessment, TM-CLKL EIA Section 10.9 & Project EM&A Manual Section 7.6

Checked and Monitored by: <u>Candy</u> .		'au (	Candy Lau	(RLA) 9 Sep	otember 2022	(Date	
Checked by: _	Ben 7	<u>Гат (I</u>	ET)	9 September 20	022 (Date	<u>:)</u>	
Checked by:	2	(IEC R	ep.)	9 September 2022	(Date)		

## **Photo Record**



Item 1: No damage was observed for the existing trees on boundary during the planting works.



Item 7: Ensure no run-off into water body

#### Contract No. HY/2021/13

## Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project

# **AUES**

## Landscape and Visual Checklist

## **Monitoring Date:** <u>16<sup>th</sup> September 2022</u>

Item	Environmental Protection Measures	Location/ Timing	Implementation	Status		Remarks		
			Agent	A	UA	IR	NA	
1	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree 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. (Tree protection measures will be detailed at Tree Removal Application stage)	All areas / During construction	Design Consultant/ Contractor	<b>√</b>				
2	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	All areas / During construction	Design Consultant/ Contractor				1	No transplantation works has been carried out for this contract.
3	Hillside and roadside screen planting to proposed roads, associated structures and slope works	All areas / During construction	Design Consultant/ Contractor				1	No hillside and roadside screen planting has been carried out for this contract.
4	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone)	All areas / During construction	Design Consultant/ Contractor				√	No hydroseeding or sheeting of soil stockpiles
5	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works	All areas / During construction	Design Consultant/ Contractor				1	According to the job nature and the scale of the Contract, no

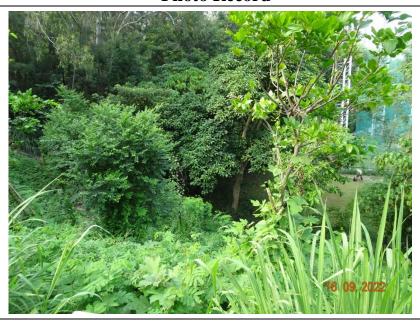
							hoarding will be installed.
6	Control night-time lighting and glare by hooding all lights	All areas / During construction	Design Consultant/ Contractor		٦	/	No lighting will be installed.
7	Ensure no run-off into water body adjacent to the Project Area	All areas / During construction	Design Consultant/ Contractor				
8	Avoidance of excessive height and bulk of buildings and structures	All areas / During construction	Design Consultant/ Contractor		٦	/	No building or structures would be constructed.
9	Recycle/Reuse all felled trees and vegetation, e.g. mulching	All areas / During construction	Design Consultant/ Contractor	<b>√</b>			Recycle of trees and vegetation will be carry out by licensed recycler if necessary.
10	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006	All areas / During construction	Design Consultant/ Contractor	√			Compensatory planting was carried out according to the approved L&V Plan.

Legend: A=Acceptable, UA= Unacceptable, IR=Improvement Required, N/A=Not Applicable

Note: All item reference to Technical Memorandum on Environmental Impact Assessment, TM-CLKL EIA Section 10.9 & Project EM&A Manual Section 7.6

Checked and M	Ionitored by: <u>Ca</u>	ndy Lau	Candy Lau	(RLA)	16 September 20	)22 ( <b>Date</b>
		1				
Checked by: _	26	Ben Tam	(ET)	16 Septe	ember 2022	(Date)
Checked by:	2	(IEC	C Rep.)	16 Septemb	er 2022 (Date	)

### **Photo Record**



Item 1: No damage was observed for the existing trees on boundary during the planting works.



Item 7: Ensure no run-off into water body

#### Contract No. HY/2021/13

#### Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project

## **AUES**

#### Landscape and Visual Checklist

### Monitoring Date: $23^{rd}$ September 2022

Item	Environmental Protection Measures	Location/ Timing	Implementation		St	atus		Remarks
			Agent	A	UA	IR	NA	
1	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree 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. (Tree protection measures will be detailed at Tree Removal Application stage)	All areas / During construction	Design Consultant/ Contractor					
2	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	All areas / During construction	Design Consultant/ Contractor				1	No transplantation works has been carried out for this contract.
3	Hillside and roadside screen planting to proposed roads, associated structures and slope works	All areas / During construction	Design Consultant/ Contractor				1	No hillside and roadside screen planting has been carried out for this contract.
4	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone)	All areas / During construction	Design Consultant/ Contractor				√	No hydroseeding or sheeting of soil stockpiles
5	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works	All areas / During construction	Design Consultant/ Contractor				1	According to the job nature and the scale of the Contract, no

							hoarding will be installed.
6	Control night-time lighting and glare by hooding all lights	All areas / During construction	Design Consultant/ Contractor		٦	/	No lighting will be installed.
7	Ensure no run-off into water body adjacent to the Project Area	All areas / During construction	Design Consultant/ Contractor				
8	Avoidance of excessive height and bulk of buildings and structures	All areas / During construction	Design Consultant/ Contractor		٦	/	No building or structures would be constructed.
9	Recycle/Reuse all felled trees and vegetation, e.g. mulching	All areas / During construction	Design Consultant/ Contractor	<b>√</b>			Recycle of trees and vegetation will be carry out by licensed recycler if necessary.
10	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006	All areas / During construction	Design Consultant/ Contractor	√			Compensatory planting was carried out according to the approved L&V Plan.

Legend: A=Acceptable, UA= Unacceptable, IR=Improvement Required, N/A=Not Applicable

Note: All item reference to Technical Memorandum on Environmental Impact Assessment, TM-CLKL EIA Section 10.9 & Project EM&A Manual Section 7.6

Checked and M	onitored by:	Pandy Lau	Candy Lau	(RLA)	23 September 202	22 (Date
Checked by:	36	Ben Tam	(ET)	23 Septe	ember 2022	(Date)
Checked by:	2	(IEC	C Rep.)	23 Septemb	ber 2022 (Date)	<u>.</u>

### **Photo Record**



Item 1: No damage was observed for the existing trees on boundary during the planting works.



Item 7: Ensure no run-off into water body

#### Contract No. HY/2021/13

#### Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project

## **AUES**

#### **Landscape and Visual Checklist**

### Monitoring Date: $30^{th}$ September 2022

Item	Environmental Protection Measures	Location/ Timing	Implementation		St	atus		Remarks
			Agent	A	UA	IR	NA	
1	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree 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. (Tree protection measures will be detailed at Tree Removal Application stage)	All areas / During construction	Design Consultant/ Contractor	<b>√</b>				
2	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	All areas / During construction	Design Consultant/ Contractor				1	No transplantation works has been carried out for this contract.
3	Hillside and roadside screen planting to proposed roads, associated structures and slope works	All areas / During construction	Design Consultant/ Contractor				1	No hillside and roadside screen planting has been carried out for this contract.
4	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone)	All areas / During construction	Design Consultant/ Contractor				√	No hydroseeding or sheeting of soil stockpiles
5	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works	All areas / During construction	Design Consultant/ Contractor				1	According to the job nature and the scale of the Contract, no

							hoarding will be installed.
6	Control night-time lighting and glare by hooding all lights	All areas / During construction	Design Consultant/ Contractor		٦	/	No lighting will be installed.
7	Ensure no run-off into water body adjacent to the Project Area	All areas / During construction	Design Consultant/ Contractor				
8	Avoidance of excessive height and bulk of buildings and structures	All areas / During construction	Design Consultant/ Contractor		٦	/	No building or structures would be constructed.
9	Recycle/Reuse all felled trees and vegetation, e.g. mulching	All areas / During construction	Design Consultant/ Contractor	<b>√</b>			Recycle of trees and vegetation will be carry out by licensed recycler if necessary.
10	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006	All areas / During construction	Design Consultant/ Contractor	√			Compensatory planting was carried out according to the approved L&V Plan.

Legend: A=Acceptable, UA= Unacceptable, IR=Improvement Required, N/A=Not Applicable

Note: All item reference to Technical Memorandum on Environmental Impact Assessment, TM-CLKL EIA Section 10.9 & Project EM&A Manual Section 7.6

Checked and M	Ionitored by: _	Candy Lau	Candy Lau	(RLA)	30 September 20	)22 <b>(Date</b> )
Checked by: _	360	Ben Tam	(ET)	30 Septe	ember 2022	(Date)
Checked by: _	2	(IEC	Rep.)	30 Septemb	oer 2022 (Date	<u>e)</u>

### Photo Record



Item 1: No damage was observed for the existing trees on boundary during the planting works.



Item 7: Ensure no run-off into water body



### Appendix G

#### **Event and Action Plan**



#### **Event and Action Plan for Landscape and Visual Impact**

EVENT		ACTI	ON	
ACTION LEVEL	ET	IEC	ER	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report.     Recommend remedial design if necessary	Undertake remedial design if necessary	
Non- conformity on one occasion	Identify Source     Inform IEC and ER     Discuss remedial actions with IEC, ER and Contractor     Monitor remedial actions until rectification has been completed	<ul> <li>Check report</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise ER on effectiveness of proposed remedial measures.</li> <li>Check implementation of remedial measures</li> </ul>	Notify Contractor     Ensure remedial measures are properly implemented	Amend working methods     Rectify damage and undertake any necessary replacement
Repeated Non-conformity	Identify Source Inform IEC and ER Increase monitoring frequency Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed If nonconformity stops, cease additional monitoring	<ul> <li>Check monitoring report</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise ER on effectiveness of proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ul>	Notify Contractor     Ensure remedial measures are properly implemented	Amend working methods     Rectify damage and undertake any necessary replacement

*Note:* 

ET – Environmental Specialist, IEC – Independent Environmental Checker, ER – Engineer's Representative



### Appendix H

**Monthly Summary Waste Flow Table** 

### **Monthly Summary Waste Flow Table for September 2022**

		Actual Quantiti	es of Inert C&D	Materials Gene	rated Monthly			Actua	al Quantities of	C&D Wastes G	enerated Mont	hly
Month	Total Quantity Generated	Stockpiled for Reuse or Recycle (1)	Reused in TM-CLK Project	Reused in other Projects	Disposed to Public Fill Banks or Sorting Facilities (2)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Chemical Waste	Disposed to Landfill (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 '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)
Yr 2022												
Jan												
Feb												
Mar												
Apr												
May												
Jun	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0
Oct												
Nov												
Dec												
total	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: (1) All inert C&D materials will be reused in the Contract/other Projects

(2) Assume all materials disposed to public fill banks or sorting facility has a density of 2 tonnes/m<sup>3</sup>





**Environmental Mitigation and Enhancement Measures Implementation Schedule (EMIS)** 

Air Quali	ity							
EIA	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation	Relevant Standard or	Im	plement Stage	
reference	reference	Divisormental Flottetion Measures	Location/ Timing	Agent	Requirement	D	C	О
4.8.1	3.8	An effective watering programme of twice daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum;	All areas / throughout construction period	Contractor	TMEIA Avoid smoke impacts and disturbance		Y	
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y	
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards,	All areas / throughout construction period	Contractor	TMEIA Avoid dust		Y	

		and shall be dampened or covered before transport.			generation			
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.	construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	Areas of exposed soil shall be minimized to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y	
EIA reference	EM&A Manual reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp D	Stage C	
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y	
		<u> </u>	construction period	Department				
Landscap	e and Visu	al	construction period	Верагинен				
EIA	EM&A			Implementation	Relevant Standard or	Imp	olemen Stage	
		Environmental Protection Measures	Location/ Timing	•	Relevant Standard or Requirement	Imp D Y		

		including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage) (CM1)						
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	All areas/detailed design/during construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y	
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments.	All areas/detailed design/ during	Design Consultant/	TMEIA	Y	Y	

EIA reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or	Imp	lement Stage	
Waste								
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y
10.9	7.6	Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement (OM4)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y
10.9	7.6	Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimize unnecessary light spill (OM3)	All areas/detailed design/ during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y
10.9	7.6	Tall buffer screen tree / shrub / climber planting where appropriate should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y
10.9	7.6	Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10)  Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y
		Required numbers and locations of compensatory trees shall be determined and agreed separately with	Construction	Contractor				

	reference				Requirement	D	C	О
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y	
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y	
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y	
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction,	Contract mobilisation	Contractor	TMEIA		Y	

		reuse and recycling				
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimize the extent of cutting.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Inert C&D materials from the toll plaza cut slopes shall be reused for construction of the raised platform for the toll plaza where possible.	Tol Plaza / toll plaza construction period	Contractor	TMEIA	Y
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/ plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	All areas / throughout construction period	Contractor	TMEIA	Y

### CONTRACT NO. HY/2021/13 SION THEE PLANTING FOR THE THEN MUN \_ CHEK LAPKOK LINK PE

12.6 8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be	All areas / throughout construction period	Contractor	TMEIA	Y	
12.6 8.1	considered for segregation and storage activities.  All falsework will be steel instead of wood.	All areas / throughout	Contractor	TMEIA	Y	
12.6 8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:  • suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;  • Having a capacity of <450L unless the specifications have been approved by the EPD; and  • Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations.  • Clearly labelled and used solely for the storage of chemical wastes;  • Enclosed with at least 3 sides;  • Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest;  • Adequate ventilation;  • Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and	construction period  All areas / throughout construction period	Contractor	TMEIA	Y	

		Incompatible materials are adequately separated.				
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	All areas / throughout construction period	Contractor	TMEIA	Y
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminum cans, plastic bottles, etc should be provided on-site.	Site Offices/ throughout construction period	Contractor	TMEIA	Y
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the	All areas / throughout construction period	Contractor	EM&A Manual	Y

EIA	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation	Relevant Standard or	Im	plemen Stage	
reference	reference	Divisormental Flottetion Measures	Docution, Timing	Agent	Requirement	D	C	0
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	
6.10	-	Sewage effluent and discharges from onsite kitchen facilities shall be directed to Government sewer in accordance with the Requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	
6.10	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	
6.10	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y	

6.10	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to	All areas/ throughout construction period	Contractor	TM-EIAO	Y
6.10	-	prevent storm run-off from getting into foul sewers.  Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO	Y
6.10	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO	Y
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO	Y
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO	Y
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	All areas/ throughout construction period	Contractor	TM-EIAO	Y
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO	Y
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance	Y
6.10	-	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	All areas/ throughout construction period	Contractor	TM-EIAO	Y

#### CONTRACT NO. HY/2021/13

## PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN – CHEK LAP KOK LINK PROJECT ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

6.10	Section 5	All construction works shall be subject to	All areas/ throughout	Contractor	EM&A	Y	
		routine audit to ensure implementation of all EIA	construction period		Manual		
		recommendations and good working practice.	•				

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government



### Appendix J

**Cumulative Statistics of Complaint, Summon and Prosecution** 



**Table J-1** Statistical Summary of Environmental Complaints

	<b>Environmental Complaint Statistics</b>								
Reporting Period	1	G 1.4		Complai	int Nature				
	Frequency	Cumulative	Air	Noise	Water	Others			
September 2022	0	0	NA	NA	NA	NA			
Cumulative since contract commencement	0	0	NA	NA	NA	NA			

**Table J-2** Statistical Summary of Environmental Summons

	Environmental Summons Statistics							
Reporting Period	Emagramar	Cumulativa	Complaint Nature					
	Frequency	Cumulative	Air	Noise	Water			
September 2022	0	0	NA	NA	NA			
Cumulative since contract commencement	0	0	NA	NA	NA			

**Table J-3** Statistical Summary of Environmental Prosecution

	<b>Environmental Prosecution Statistics</b>							
Reporting Period	Engaran an	Cla4i	Complaint Nature					
	Frequency	Cumulative	Air	Noise	Water			
September 2022	0	0	NA	NA	NA			
Cumulative since contract commencement	0	0	NA	NA	NA			



### Appendix K

**Investigation Report for the Complaint** 

Contract No. HY/2021/13 Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project



4<sup>th</sup> Monthly Environmental Monitoring and Audit (EM&A) Report – September 2022

(Not Use)