

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

9th Monthly Environmental Monitoring and Audit (EM&A) Report-February 2023

PREPARED FOR WING HO YUEN LANDSCAPING CO., LTD

Date Reference No. Prepared By Certified By

15 March 2023 TCS01230/21/600/R0075v1

Martin Li Ben Tam
(Environmental Consultant) (Environmental Team Leader)

Version	Date	Remarks
1	15 March 2023	First Submission



Our Ref: TCS01230/21/300/L0076

AECOM

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

Attn: Mr. K P Wong

17 March 2023

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

9th Monthly Environmental Monitoring and Audit (EM&A) Report – February 2023

We write to certify the 9th Monthly Environmental Monitoring and Audit (EM&A) Report –February 2023 (TCS01230/21/600/R0075v1) 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

c.c. ANewR (IEC)

Mr. James Choi

(852) 2959-6059

(852) 2959-6079

Email info@fordbusiness.com

Tel

Fax

By email

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

By email

(Contractor)





Highways Department

5th Floor, Ho Man Tin Government Offices

88 Chung Hau Street

Ho Man Tin

Kowloon

Your reference:

Our reference:

HKHYD203/50/108674

Date:

16 March 2023

Attention: Mr Eric Wong

BY EMAIL & POST

(email: se4.mwsd@hyd.gov.hk)

Dear Sirs

Agreement No. HMWSD 6/2022 (EP)

Environmental Project Office for the Hong Kong-Zhuhai-Macao Bridge

Hong Kong Link Road, Hong Kong-Zhuhai-Macao Bridge Hong Kong

Boundary Crossing Facilities & Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2021/13 -

Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lak Kok Link Project 8th Monthly Environmental Monitoring and Audit Report – February 2023

We refer to the email of 15 March 2023, attaching a Monthly Environmental Monitoring and Audit Report – February 2023, prepared by the Environmental Team (ET) of the captioned.

We have no comment and hereby verify the captioned report in accordance with Clause 4.4 of the Environmental Permit no. EP-353/2009/K.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Macavity Yau on 2618 2831.

Yours faithfully

ANEWR CONSULTING LIMITED

James Choi

Independent Environmental Checker

CPSJ/LCCR/YCFM/lsmt

cc Highway Department – Mr Nick Li (email: e10.mwsd@hyd.gov.hk)
Highway Department – Mr Vincent Li (email: pc9.mwsd@hyd.gov.hk)
AEUS – Mr Ben Tam (email: bentam@fordbusiness.com)

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Unit 517, 5/F, Tower A, Regent Centre 63 Wo Yi Hop Road, Kwai Chung, Hong Kong Tel: (852) 2618 2831 Fax: (852) 3007 8648

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EXECUTIVE SUMMARY

ES01 This is the 9th Monthly EM&A Report presenting the monitoring results and inspection findings for the period from 1 to 28 February 2023 (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:-
 - Landscape & Visual Monitoring (Establishment period) –0 events
- ES03 According to the approved Landscape and Visual plan, the planting works under the contract was commended on 21 June 2022 and completed on 15 December 2022.
- ES04 The Establishment Period monitoring once per three months for planting works was commenced on 16 December 2022 for the compensation planting areas (Tuen Mun and Lantau) out the TMCLKL Project site boundary according to the EM&A manual requirement. No establishment period inspection was conducted for those compensation planting areas during this reporting period.

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	Environmental Complaint Statistics			
Reporting Period	Frequency	Cumulative		
Since the Contract commencement	0	0		
February 2023	0	0		

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

REPORTING CHANGE

ES08 Reporting changes were made in the Reporting Period due to the Establishment Period for the Contract commenced. Some not related sections were removed.

FUTURE KEY ISSUES

- ES09 The planting works for the Contract was completed on 15 December 2022. The two years establishment period for those planting area was commenced on 16 December 2022.
- ES10 According to the Project EM&A Manual requirement, monitoring for the planting works at a frequency of 3 months interval during the 24-month establishment period is required to make sure the establishment planting works is complied with EMIS requirement, and during the 12-month establishment period, the maintenance operations must be supervised by fully qualified Landscape Resident Site Staff (Registered Landscape Architect or Professional Member of the Hong Kong Institute of Landscape Architects). Subsequent to the 12-month establishment period supervised by the qualified Landscape Resident Site Staff, the supervision from the 13th to the 24th month would be continued by other members of the Project.
- ES11 All the planting works for the TM-CLKL Project was completed, the quantity of tree planting and the landscape planting area for the Project fulfil with the EIA Report and EP requirement.





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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. The entire compensation tree planting works for this Contract was completed on 15 December 2022. The two years establishment period for those planting area was commenced on 16 December 2022.
- 1.1.5 The construction works of the Contract mainly include:
 - a. Maintenance the compensation planting area of the Project during the establishment period.
- 1.1.6 This is 9th monthly EM&A report presenting the inspection findings for period from 1 to 28 February 2023.

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 Summary of Environmental Requirements under the Contract
 - Section 3 Landscape and Visual
 - Section 4 Environmental Complaints and Non-Compliance
 - **Section 5** Conclusions and Recommendations

1.3 CONTRACT ORGANIZATION

1.3.1 The Contract organization and contact details of key personnel are shown in *Appendix C*.





2 SUMMARY OF ENVIRONMENTAL REQUIREMENTS UNDER THE CONTRACT

2.1 GENERAL

- 2.1.1 In accordance with the Project EM&A Manual requirements, the environmental aspects under the Project shall be included air quality, ecological, cultural heritage, landscape and visual, landfill gas and site inspection.
- 2.1.2 A summary of EM&A requirements under the contract are presented in the sub-sections below. Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix D*.

2.2 ENVIRONMENTAL ASPECTS

Air

- 2.2.1 According to the Contract remaining duty is maintenance the compensation planting area of the Project outside TMCLKL boundary during the establishment period. No specific EM&A requirement for air quality related to the establishment of landscape softworks was identify.
- 2.2.2 The scopes of works under this Contract do not involve any of works listed under Section 4.4.1.1 of the approved EIA Report. Vehicles travel under this contract was carried out in paved area. Therefore, fugitive dust emission from the contract would be limited and no unacceptable air quality impact would be expected. No specific mitigation measure and monitoring would be required.

Noise

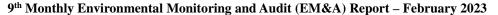
- 2.2.3 According to the Contract remaining duty is maintenance the compensation planting area of the Project outside TMCLKL boundary during the establishment period. No unacceptable noise impact would be expected from the contract. No mitigation measure would be required under the approved EIA Report. No specific EM&A requirement for noise impact related to the establishment of landscape softworks was identify.
- 2.2.4 Most of the works under this contract would be conducted manually, with limited use of PME for delivery material on site and watering the planting area along the road side. Therefore, no unacceptable noise impact would be expected. No specific mitigation measure and monitoring would be required.

Water Quality

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

Ecology

- 2.2.6 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.
- 2.2.7 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

2.2.8 Monitoring of the planting works during the 24-month Establishment period after completion of the construction works should be carried out. Establishment Works Inspection should be carried out once every 3 months to make sure the establishment planting works is complied with EMIS requirement. The entire compensation tree planting works for this Contract was completed on 15 December 2022. The two years establishment period for those planting area was commenced on 16 December 2022. The summary of Establishment inspection for the Project is shown in *Table 2-1*.

Table 2-1 Summary of Establishment inspection for the Project

	Establishment		Next Quarter of
Contract Area	Monitoring	Respond Party	Establishment
	Commenced		Monitoring
HY/2012/07 (Zone 1, 3 & 4)	June 2020	HMWSD 2/2020 (HY)	Completed (Last quarter inspection was taken on 26 May 2022)
HY/2012/07 (Zone 2)	June 2020	HY/2021/13	Completed (Last quarter inspection was taken on 25 April 2022)
HY/2013/12	June 2020	HMWSD 2/2020 (HY)	Completed (Last quarter inspection was taken on 31 May 2022)
HY/2017/10 (Zone 1-5)	February 2021	HMWSD 2/2020 (HY)	Completed (Last quarter inspection was taken on 13 Jan 2023)
HY/2017/10 (Zone 6)	February 2021	HY/2021/13	Completed (Last quarter inspection was taken on 13 Jan 2023))
Tuen Mun (Portion A) Tung Chung (Portion B) Penny's Bay (Portion C)	16 December 2022	HY/2021/13	16 December 2022 to 15 March 2023 (1st Quarter)

Cultural Heritage

2.2.9 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

2.2.10 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.

Waste Management

2.2.11 According to the Contract remaining duty is maintenance the compensation planting area of the Project outside TMCLKL boundary during the establishment period. No specific EM&A requirement for Waste Management related to the establishment of landscape softworks was identify.



2.2.12 All planting area under this contract area are land-based, no dredged sediment, excavated C&D material, C&D waste, chemical waste and sewage would be generated under this Contract. Only limited level of dead plant would be generated from works during maintenance of the planting area and would be easily controlled by standard waste management practice. No specific mitigation measure would be required.

Inspection and Audit

2.2.13 According to the Contract remaining duty is maintenance the compensation planting area of the Project outside TMCLKL boundary during the establishment period. No construction works would be taken under this contract. Moreover, no potential environmental issue had been identified in the previous sections. No regular site inspections would be required.

2.3 MONITORING SCHEDULE

2.3.1 The monitoring schedule for landscape &visual for the present reporting period is presented in *Appendix E*. Summary of Impact Environmental Requirements Under the Contract



3 LANDSCAPE AND VISUAL

3.1 GENERAL

3.1.1 According to the Project EM&A Manual requirement, monitoring for the planting works at a frequency of 3 months interval during the 24-month establishment period is required to make sure the establishment planting works is complied with EMIS requirement, and during the 12-month establishment period, the maintenance operations must be supervised by fully qualified Landscape Resident Site Staff (Registered Landscape Architect or Professional Member of the Hong Kong Institute of Landscape Architects). Subsequent to the 12-month establishment period supervised by the qualified Landscape Resident Site Staff, the supervision from the 13th to the 24th month would be continued by other members of the Project. The updated EMIS for the Contract is shown in *Appendix F*.

3.2 LANDSCAPE AND VISUAL INSPECTION

3.2.1 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 3-1* and the layout plan for the planting zone is illustrated in *Appendix G*.

Table 3-1 Details of Provision of Remaining Compensation Tree Planting Works Areas

Works Area	Zone	Location	Proposed Use
Tuen Mun			
Portion A1		Slope 6NW-C/F 153	
Portion A2	Zone 1	Slope 6SW-A/F 25	
Portion A3	(Tuen Mun	Slope 5SE-B/F 89	
rordon A3	Area)	Slope 5SE-B/F 70	Works area for
Portion A4		Slope 5SE-D/F 73	compensation tree
Portion A5	Zone 2	Slope 6SW-C/FR 200	planting
Portion A6	(Siu Lam	Slope 6SW-C/F 233	
rordon Ao	Area)	Slope 6SW-D/FR 279	
Portion A7	Alca)	Slope 6SW-D/FR 320	
Lantau			
Tung Chung	Zone 3	Slope 9SE-B/F 35	Works area for
Portion B	(Tung Chung	Slope 9SE-B/F 56	compensation tree
1 Ortion D	Area)	Slope 9SE-B/F 74	planting
		Slope 10NW-D/F 86	
		Slope 10NW-D/F 88	
	Zone 4	Slope 10NW-D/FR 89	Works area for
Penny's Bay	(Penny's Bay	Slope 10NW-D/FR 90	
Portion C	Area)	Slope 10NW-D/F 93	r
	Alta)	Slope 10NE-C/F 4	planting
		Slope 10NE-C/F 5	
		Slope 10NE-C/F 6	

- 3.2.2 The planting works for the Contract was completed on 15 December 2022. The two years establishment period for those planting area was commenced on 16 December 2022.
- 3.2.3 In the Reporting Period, no site inspection for landscape and visual mitigation measures under establishment works was conducted. The details of Establishment inspection for the Project during the reporting period are shown in *Table 3-2* and the Establishment inspection checklist is shown in *Appendix H*.



Table 3-2 Details of Establishment Inspection for the Project during the Reporting Period

Planting Area	Quarter of Establishment Monitoring	Inspection Date	
Tuen Mun (Portion A)	Nil	NA	
Tung Chung (Portion B)	Nil	NA	
Penny's Bay (Portion C)	Nil	NA	

3.3 SUMMARY OF THE TREE PLANTING FOR TMCLK PROJECT

3.3.1 According to the requirements of the EIA Report and EP, the TM-CLKL Project shall carry out landscape softworks including planting of 6300 trees and provide at least 33 ha of landscape planting. All the planting works for the Project was completed. The compliance check for the quantity of tree planting and landscape planting area for the Project are summarized in *Table 3-3* and *Table 3-4* the tree planting schedule for TM-CLKL Project is illustrated in *Appendix I*.

Table 3-3 Summary of Quantity Tree Planting for TM-CLKL Project

Works Contract	Location	Total No. of Tree Planting (light standard to heavy standard size)	EIA Requirement	
HY/2012/07 (includes Entrusted Landscape Works to DC/2016/01)	Within TMCLK Project Boundary	1247	At least 6300 trees	
HY/2013/12	,	1109	(light standard to	
HY/2017/10		2997	heavy standard size)	
HY/2021/13	Outside TMCLK Project Boundary	1066		
	Total:	6419	Comply	

Table 3-4 Summary of Landscape Planting Area for TM-CLKL Project

Works Contract	Location	Total Area of Landscape Planting (ha)	EIA Requirement
HY/2012/07 (includes Entrusted Landscape Works to DC/2016/01)	Within TMCLK Project Boundary	14.3	A.1
HY/2013/12	,	5.3	At least 33 ha
HY/2017/10		14.4	
HY/2021/13	Outside TMCLK Project Boundary	NA	
	Total:	33.9	Comply

3.3.2 According to the above summary, the quantity of tree planting and the landscape planting area for the TM-CLKL Project fulfil with the EIA Report and EP requirement.



4 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

4.1 Environmental Complaint, Summons and Prosecution

- 4.1.1 In the Reporting Period, no environmental complaint, summons and prosecution under the EM&A Programme was lodged.
- 4.1.2 The statistical summary table of environmental complaint, summons and prosecution are presented in *Tables 4-1*, *4-2 and 4-3* and the cumulative statistics of complaint, summons and prosecution are illustrated in *Appendix J*.

 Table 4-1
 Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics						
Reporting Period	Frequency	Cumulative	Complaint Nature				
	r requency		Air	Noise	Water	Others	
February 2023	0	0	NA	NA	NA	NA	

 Table 4-2
 Statistical Summary of Environmental Summons

	Environmental Summons Statistics						
Reporting Period	Emagnamay	Cumulative	Complaint Nature				
	Frequency		Air	Noise	Water		
February 2023	0	0	NA	NA	NA		

 Table 4-3
 Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics					
Reporting Period	Engaronav	Cumulative	Complaint Nature			
	Frequency		Air	Noise	Water	
February 2023	0	0	NA	NA	NA	

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





5 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

- 5.1.1 This is 9th monthly EM&A report presenting the inspection findings for the period of 1 to 28 February 2023.
- 5.1.2 The planting works for the Contract No. HY/2021/13 was commenced on 21 June 2022.
- 5.1.3 In the Reporting Period, no complaint was received by RE, the Contractor, ENPO or HyD.
- 5.1.4 No notifications of summons, or successful prosecution were received by the Contractor during the Reporting Period.
- 5.1.5 The planting works for the Contract was completed on 15 December 2022. The two years establishment period for those planting area was commenced on 16 December 2022.
- 5.1.6 There is no air quality, noise, water quality, ecology, cultural heritage and landfill gas monitoring was required for the contract.
- 5.1.7 No establishment period inspection was conducted during this reporting period.
- 5.1.8 All the planting works for the TM-CLKL Project was completed, the quantity of tree planting and the landscape planting area for the Project fulfil with the EIA Report and EP requirement.

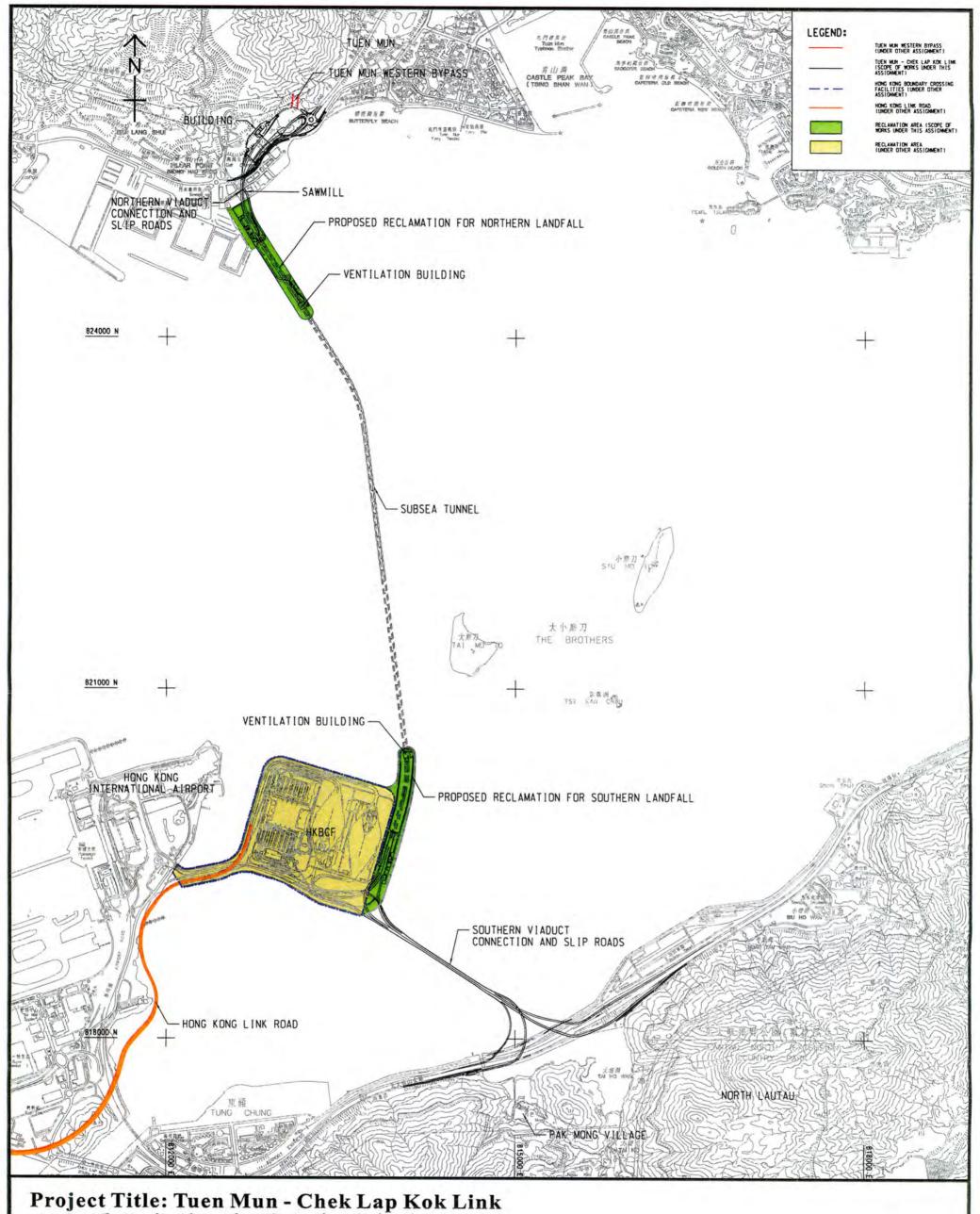
5.2 **RECOMMENDATIONS**

- 5.2.1 According to the Project EM&A Manual requirement, monitoring for the planting works at a frequency of 3 months interval during the 24-month establishment period is required to make sure the establishment planting works is complied with EMIS requirement, and during the 12-month establishment period, the maintenance operations must be supervised by fully qualified Landscape Resident Site Staff (Registered Landscape Architect or Professional Member of the Hong Kong Institute of Landscape Architects). Subsequent to the 12-month establishment period supervised by the qualified Landscape Resident Site Staff, the supervision from the 13th to the 24th month would be continued by other members of the Project.
- 5.2.2 Proper maintenance for the planting area / planting tree should be provided during the establishment period.



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



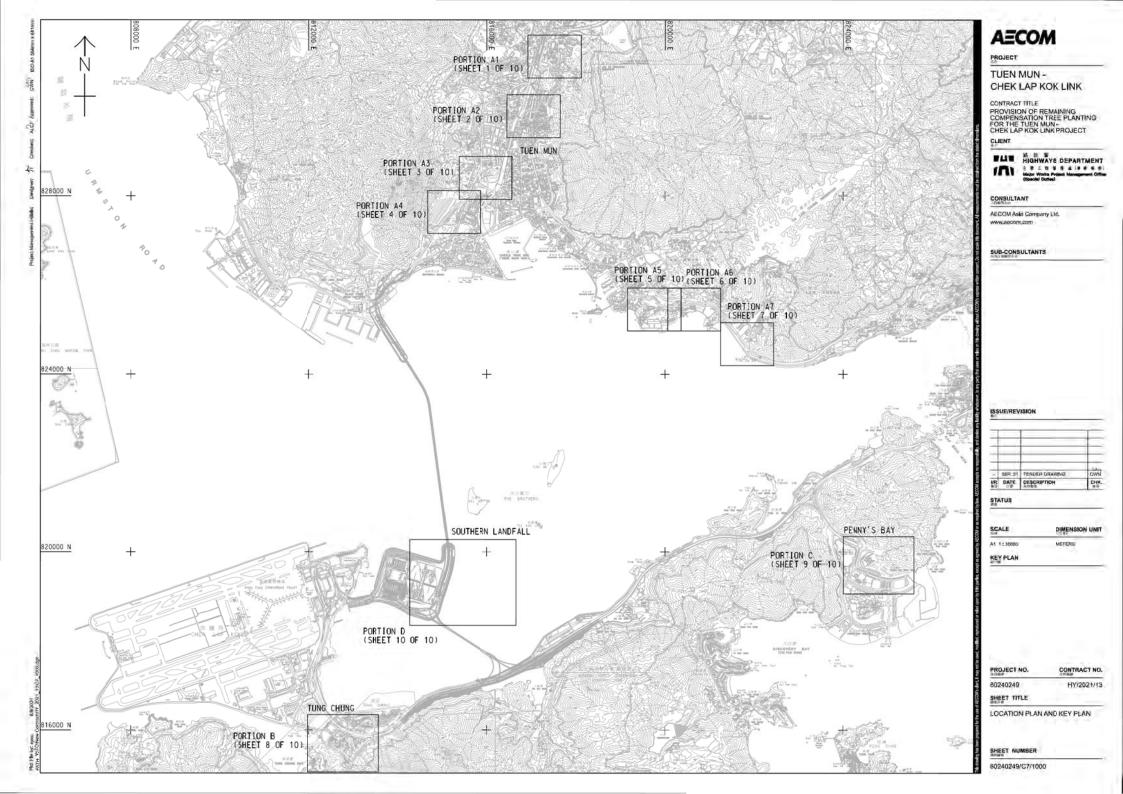
Environmental Permit No.: EP-354/2009/D 環境許可證編號: EP-354/2009/D

Figure 1 圖 1



Appendix B

Layout Plan of the Contract

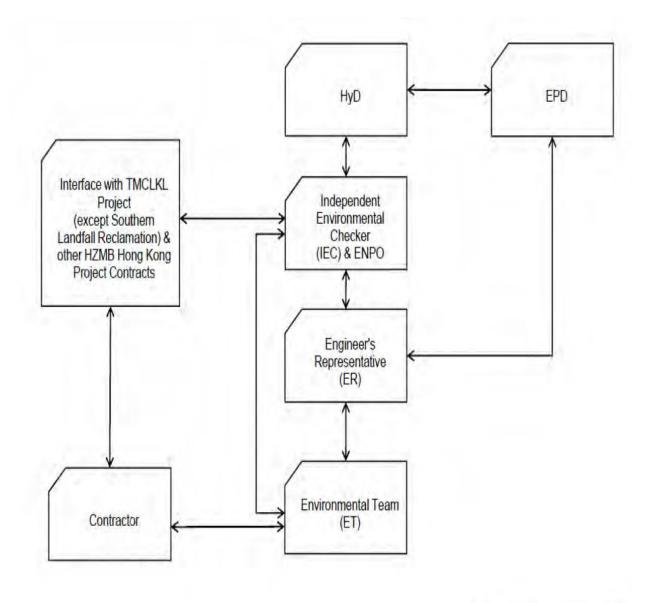


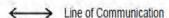


Appendix C

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. Marcus Cheng	2762 3628	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
ANewR	Environmental Project Office Leader (ENPO Leader)	Mr. Louis Kwan	2618 2836	3007 8648
ANewR	Independent Environmental Checker (IEC)	Mr. James Choi	2618 2836	3007 8648
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.

WHY (Main Contractor) -Wing Ho Yuen Landscaping Co., Ltd

ANewR (ENPO and IEC) -ANewR Consulting Limited

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



Appendix D

Event and Action Plan





Event and Action Plan for Landscape and Visual Impact

EVENT	ACTION					
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	 Check report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures. Check implementation of remedial measures 	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	 Check monitoring report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures Supervise implementation of remedial measures 	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 E

Monitoring Schedule





Establishment Inspection Schedule for this Reporting Period

Date Wed 1-February-23		Portion A Tuen Mun Area	Portion B Tung Chung Area	Portion C Penny's Bay Area
Thu	2-February-23			
Fri	3-February-23			
Sat	4-February-23			
Sun	5-February-23			
Mon	6-February-23			
Tue	7-February-23			
Wed	8-February-23			
Thu	9-February-23			
Fri	10-February-23			
Sat	11-February-23			
Sun	12-February-23			
Mon	13-February-23			
Tue	14-February-23			
Wed	15-February-23			
Thu	16-February-23			
Fri	17-February-23			
Sat	18-February-23			
Sun	19-February-23			
Mon	20-February-23			
Tue	21-February-23			
Wed	22-February-23			
Thu	23-February-23			
Fri	24-February-23			
Sat	25-February-23			
Sun	26-February-23			
Mon	27-February-23			
Tue	28-February-23			

√	Monitoring Day
	Sunday or Public Holiday



Establishment Inspection Schedule for next Reporting Period

Date		Portion A Tuen Mun Area	Portion B Tung Chung Area	Portion C Penny's Bay Area
Wed	1-March-23			
Thu	2-March-23			
Fri	3-March-23			
Sat	4-March-23			
Sun	5-March-23			
Mon	6-March-23			
Tue	7-March-23			
Wed	8-March-23			
Thu	9-March-23			
Fri	10-March-23			
Sat	11-March-23			
Sun	12-March-23			
Mon	13-March-23	✓	✓	✓
Tue	14-March-23			
Wed	15-March-23			
Thu	16-March-23			
Fri	17-March-23			
Sat	18-March-23			
Sun	19-March-23			
Mon	20-March-23			
Tue	21-March-23			
Wed	22-March-23			
Thu	23-March-23			
Fri	24-March-23			
Sat	25-March-23			
Sun	26-March-23			
Mon	27-March-23			
Tue	28-March-23			
Wed	29-March-23			
Thu	30-March-23			
Fri	31-March-23			

√	Monitoring Day		
	Sunday or Public Holiday		



Appendix F

Environmental Mitigation and Enhancement Measures Implementation Schedule (EMIS)

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

Landscap	Landscape and Visual							
L'IA	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		
reference	reference					D	C	O
10.9	7.6	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
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	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	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	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	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

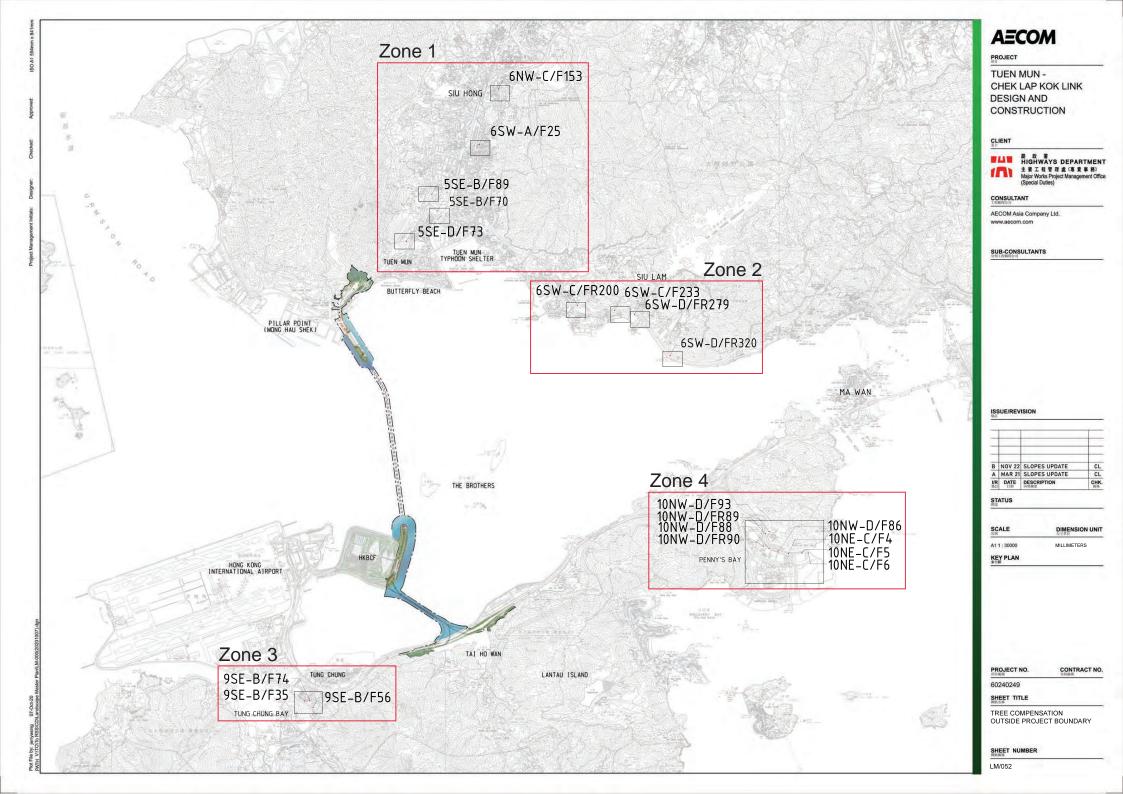
Legend: D=Design, C=Construction, O=Operation

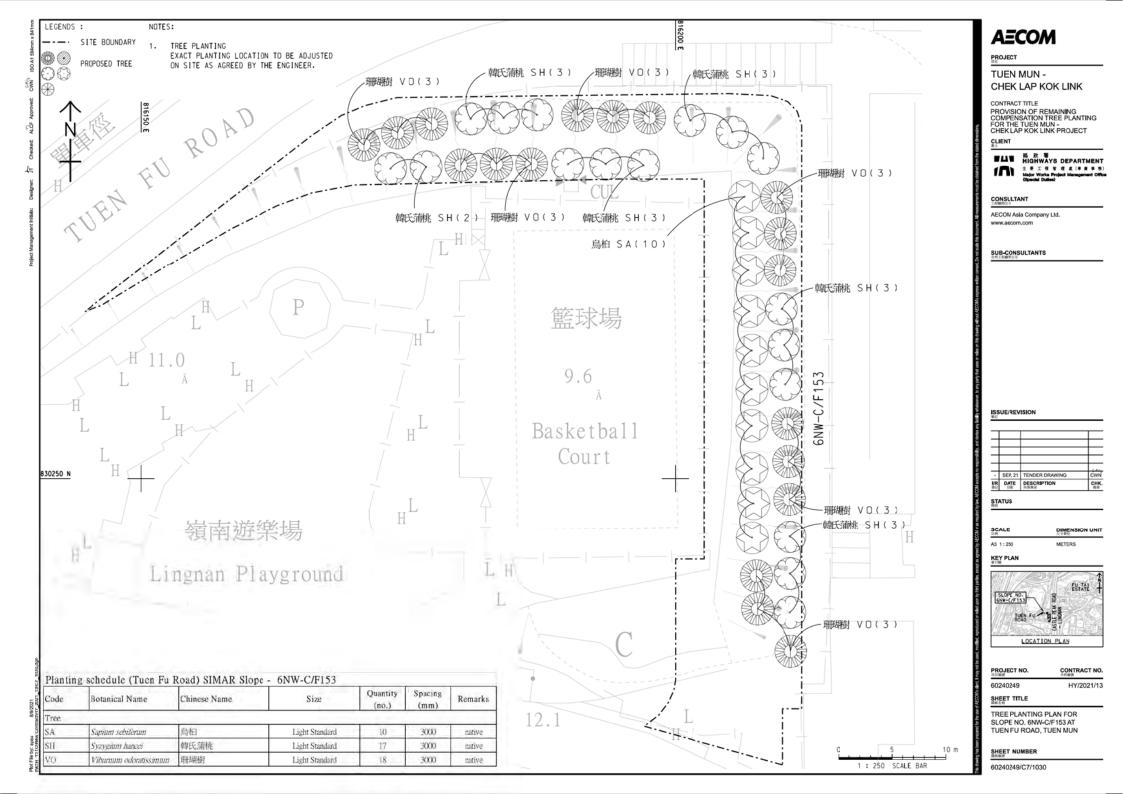
Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

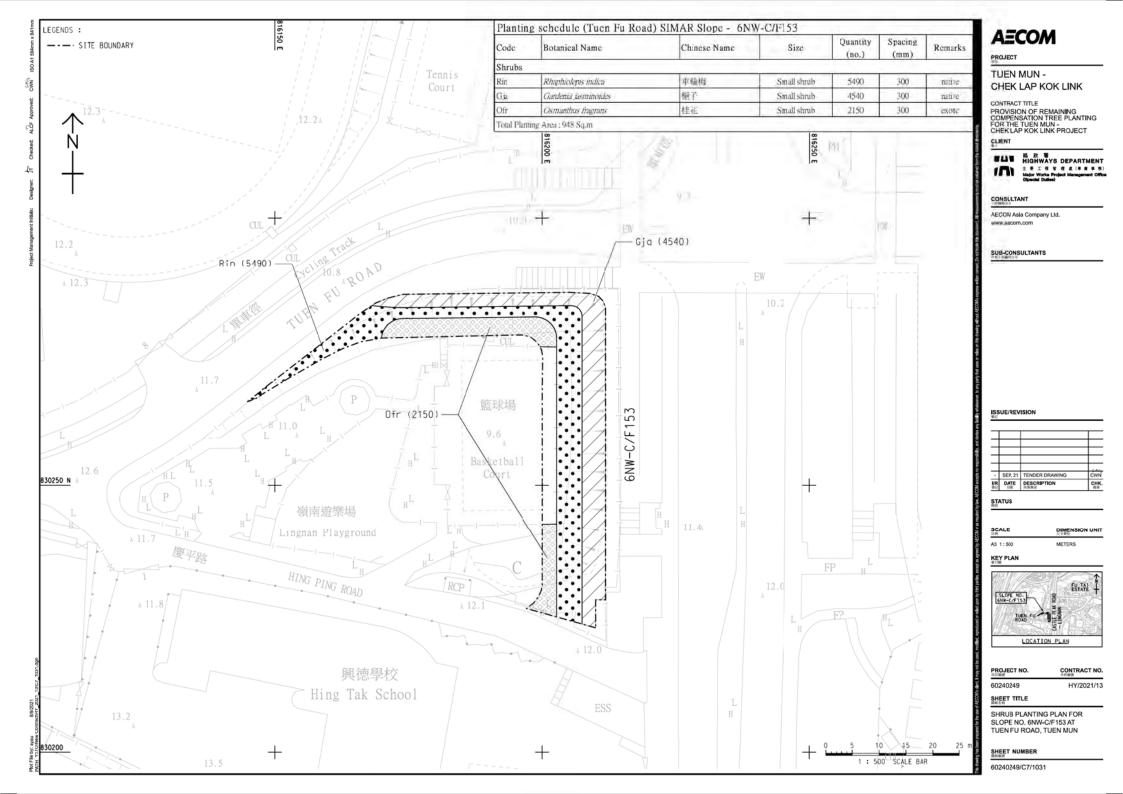


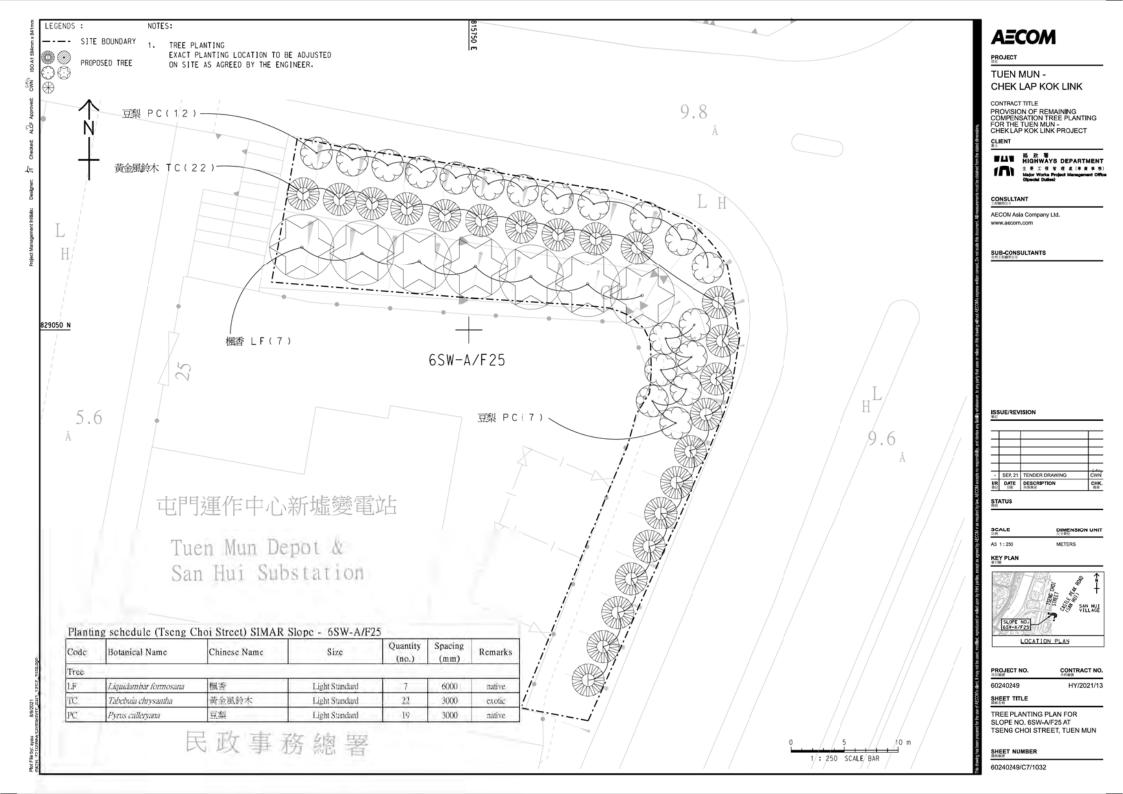
Appendix G

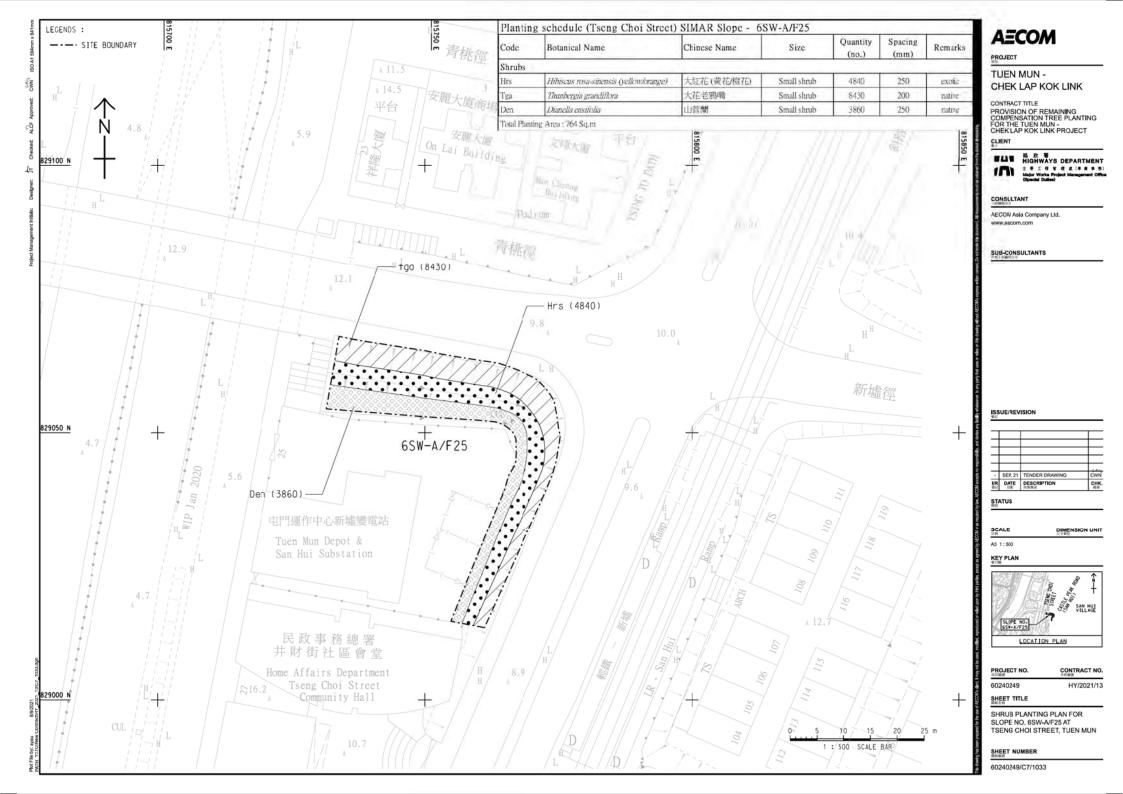
Layout Plan for the Planting Zone

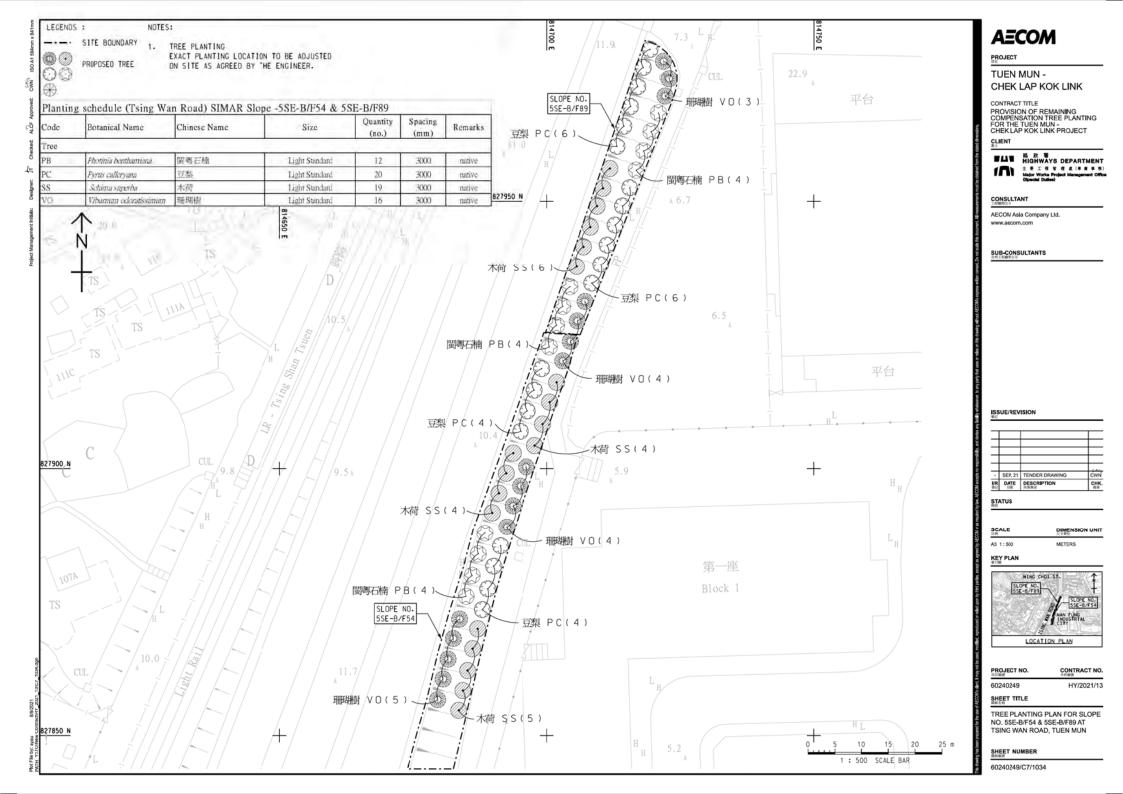


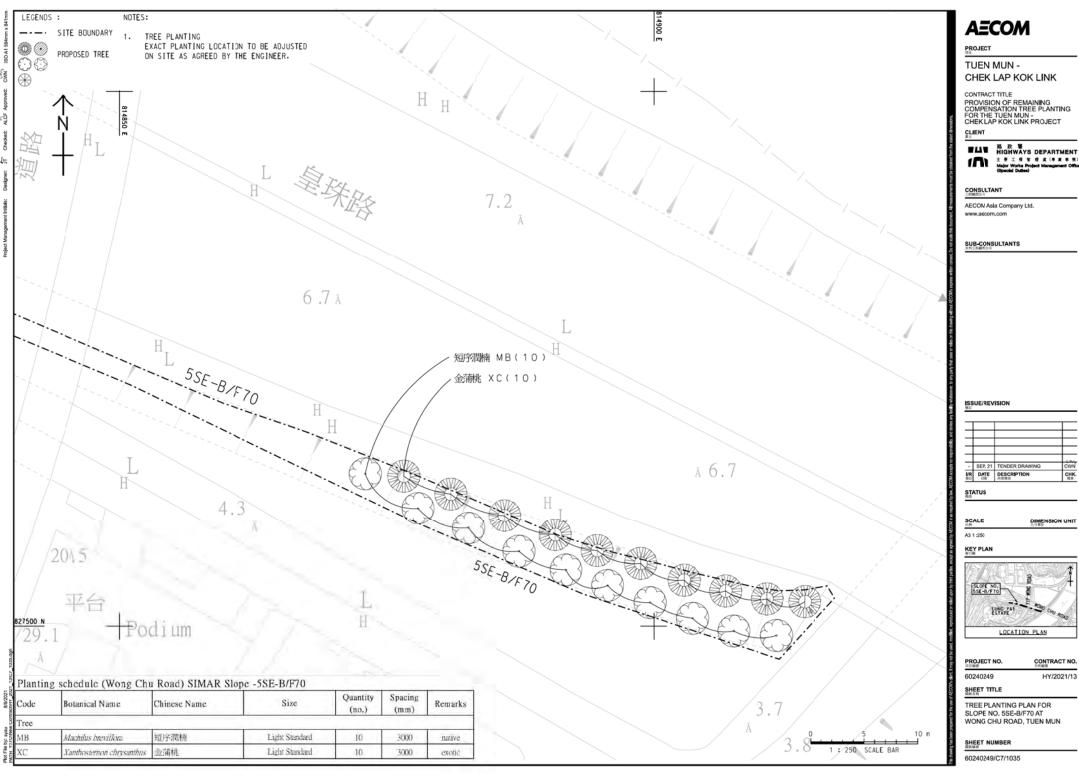












CHEK LAP KOK LINK

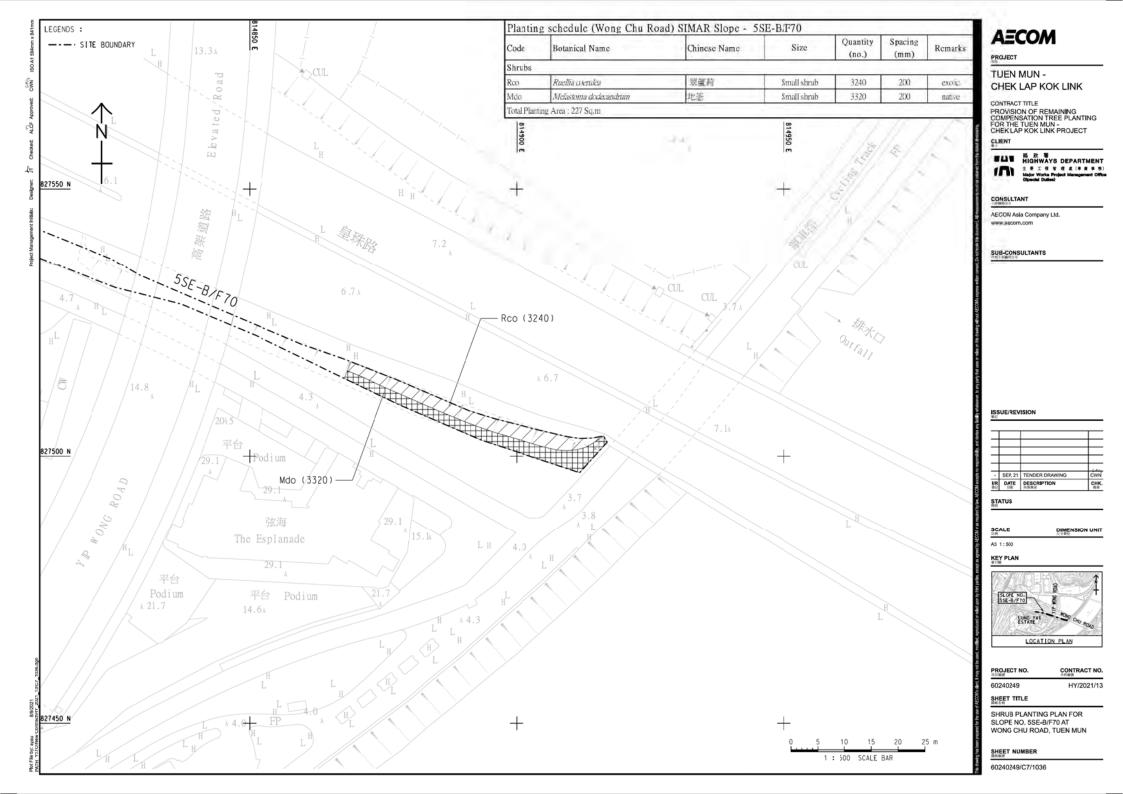
PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT

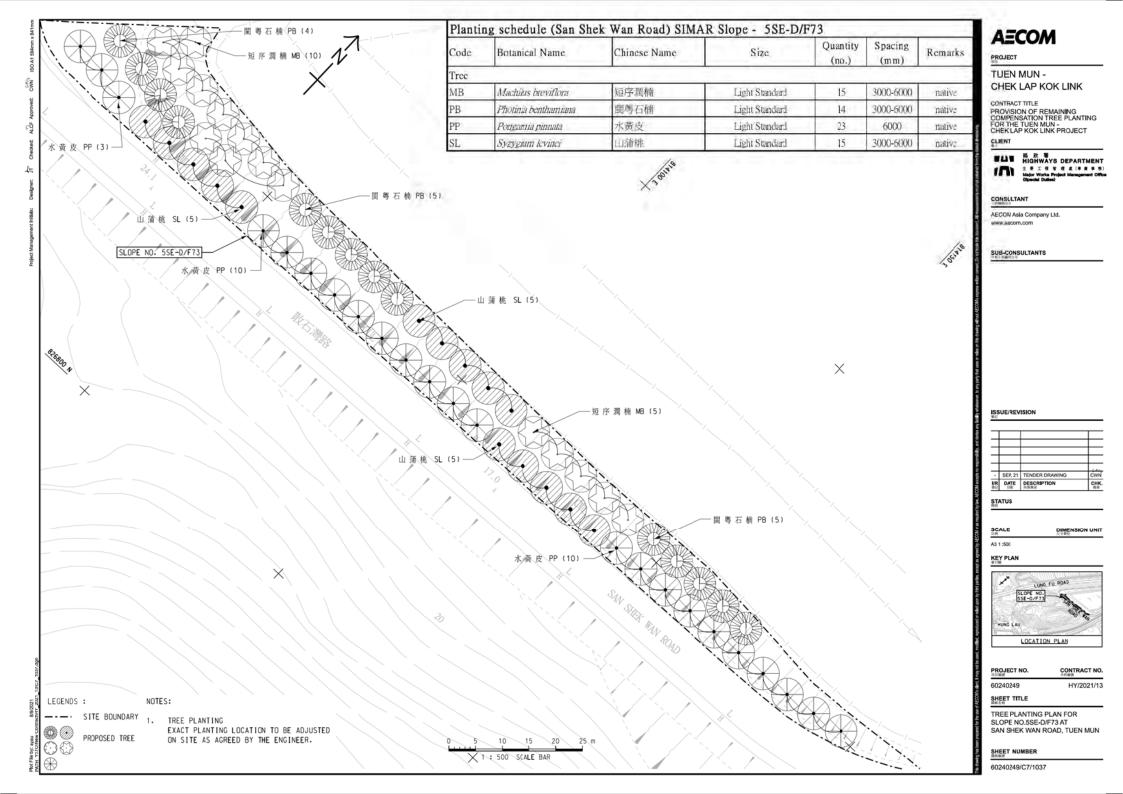
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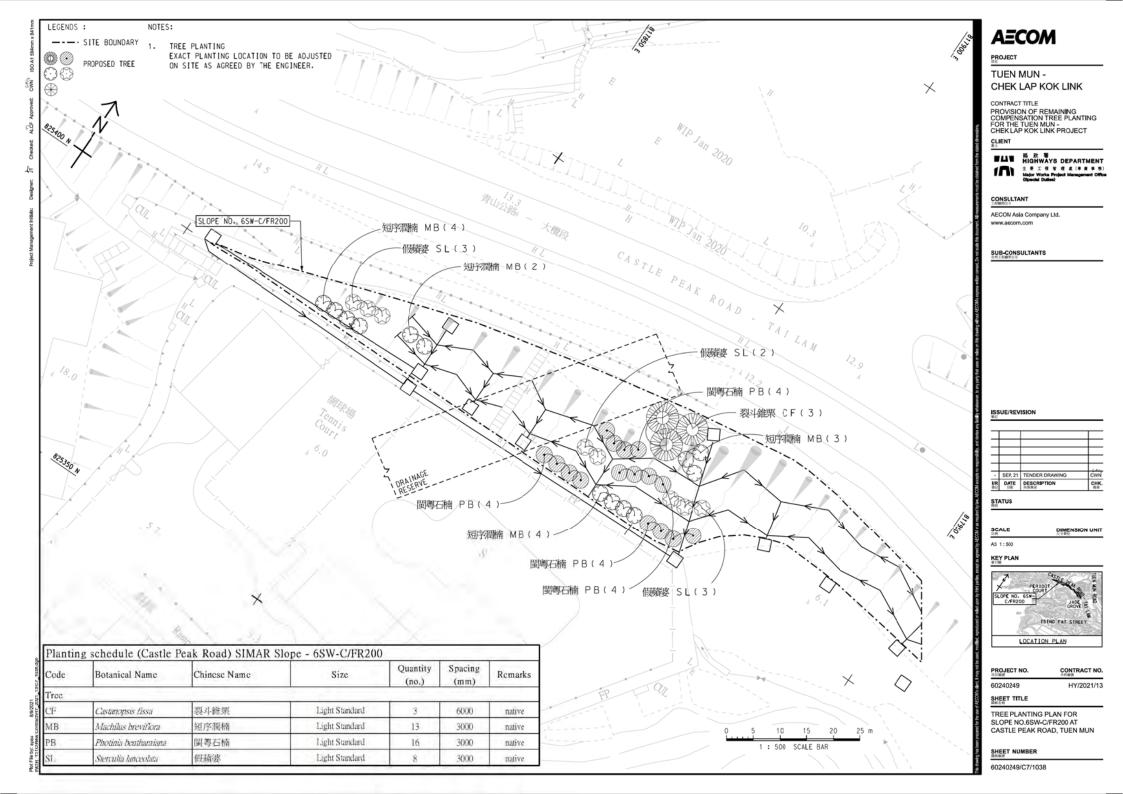


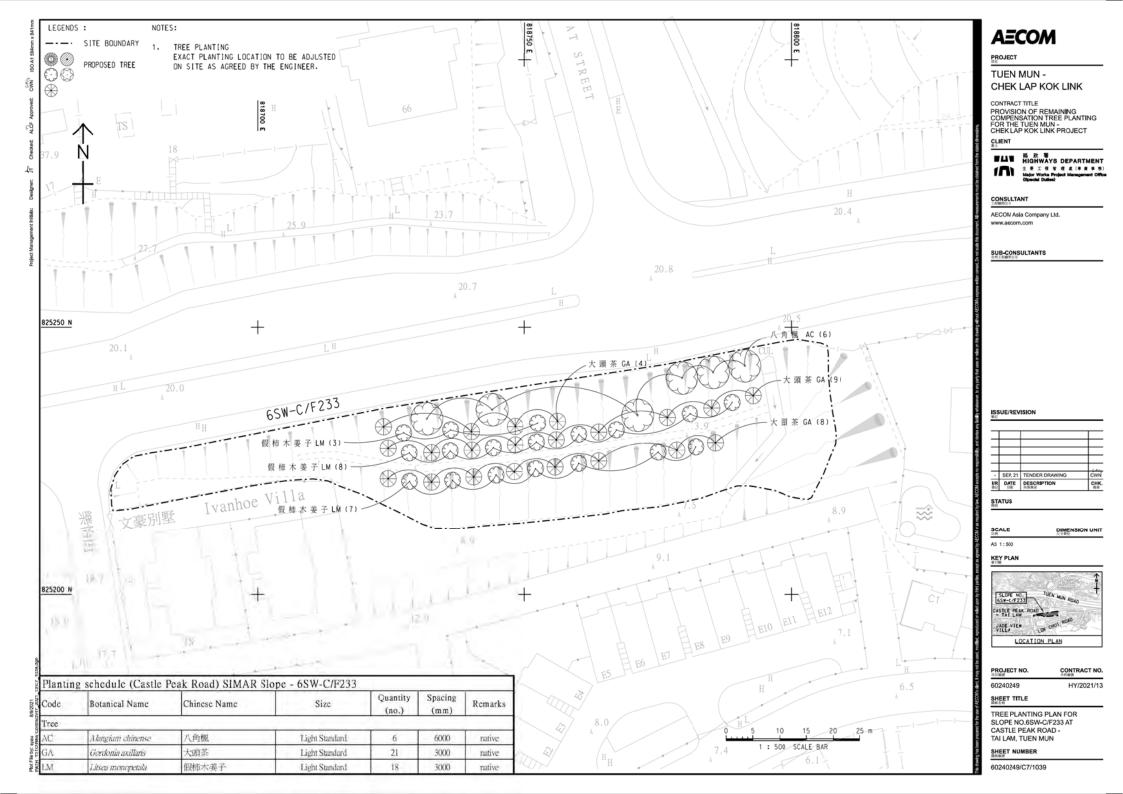
CONTRACT NO. HY/2021/13

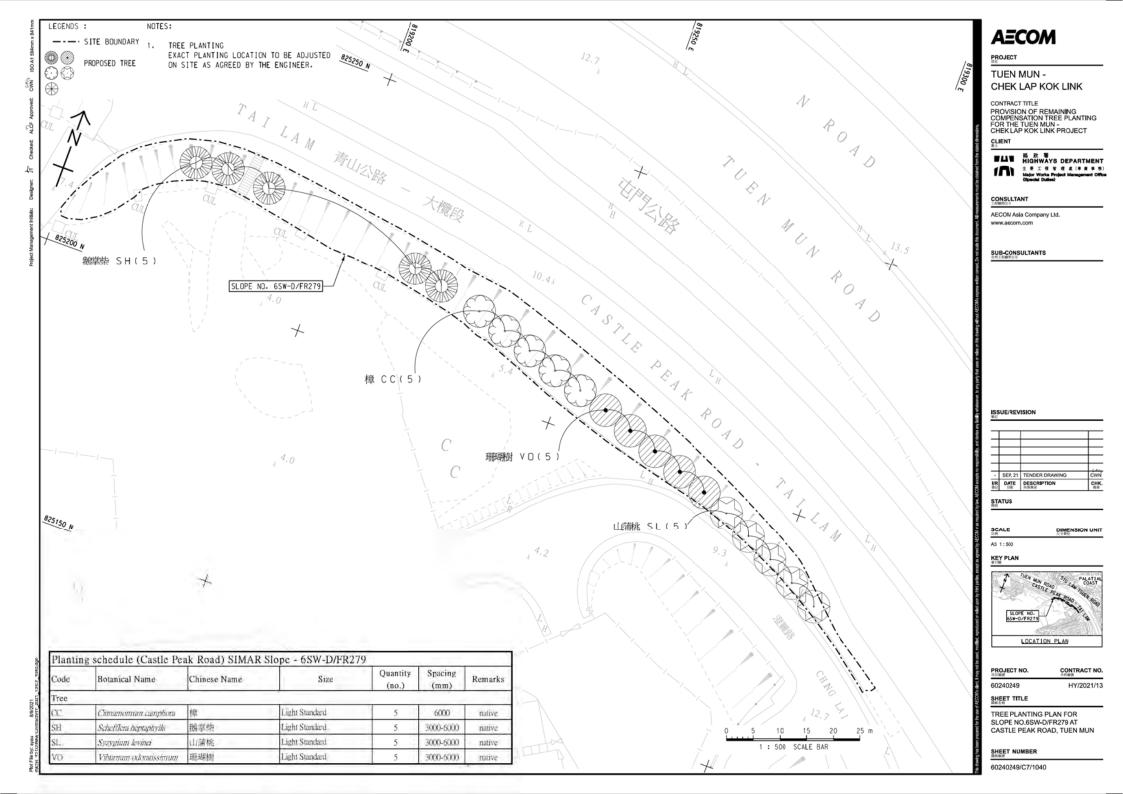
SLOPE NO. 5SE-B/F70 AT WONG CHU ROAD, TUEN MUN

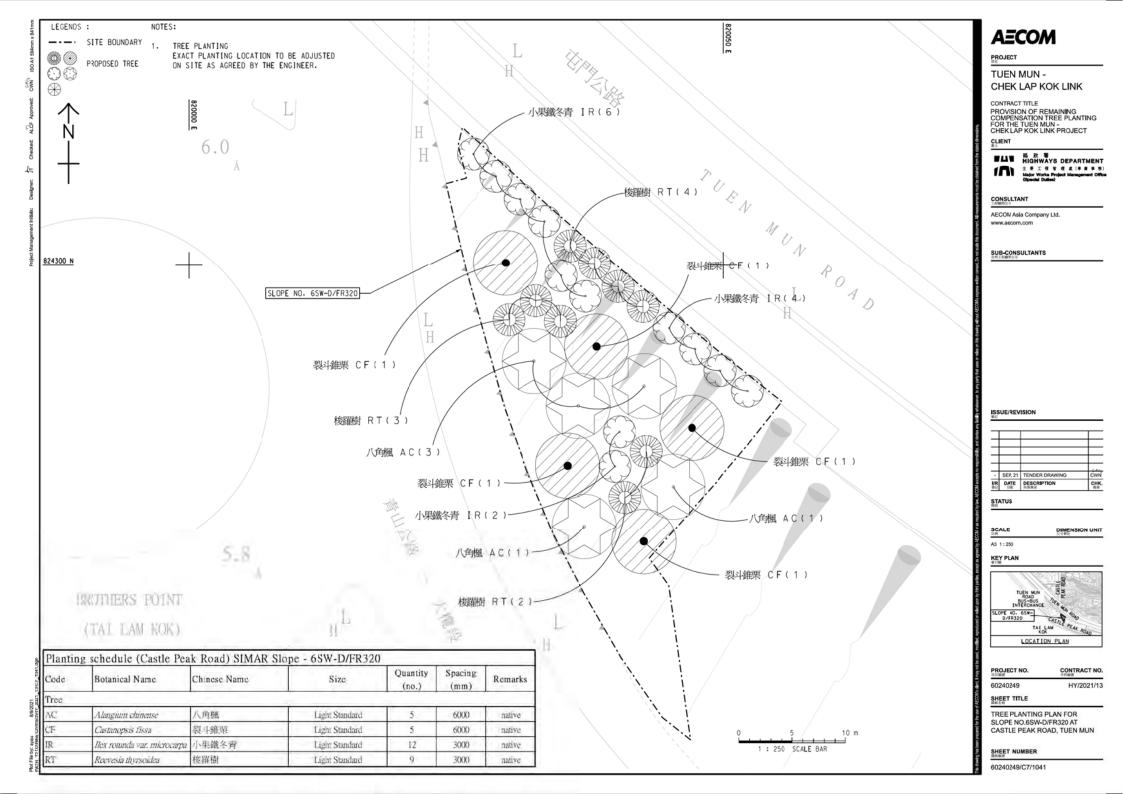


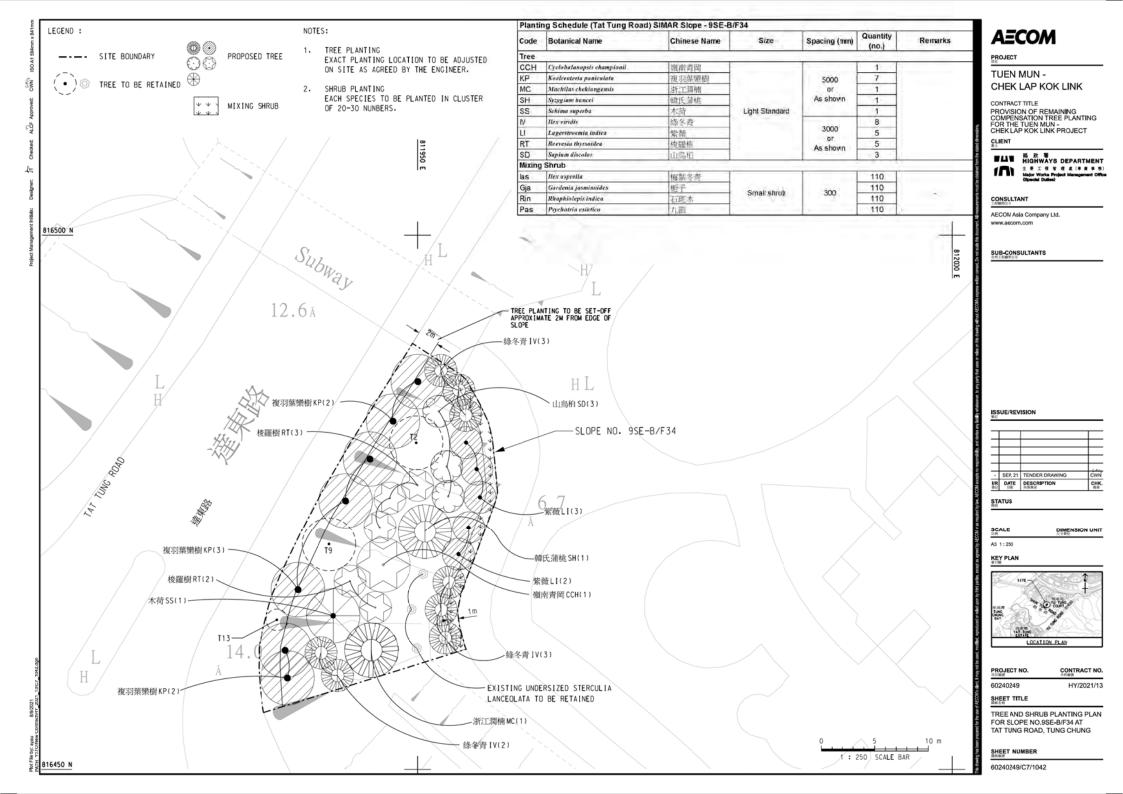


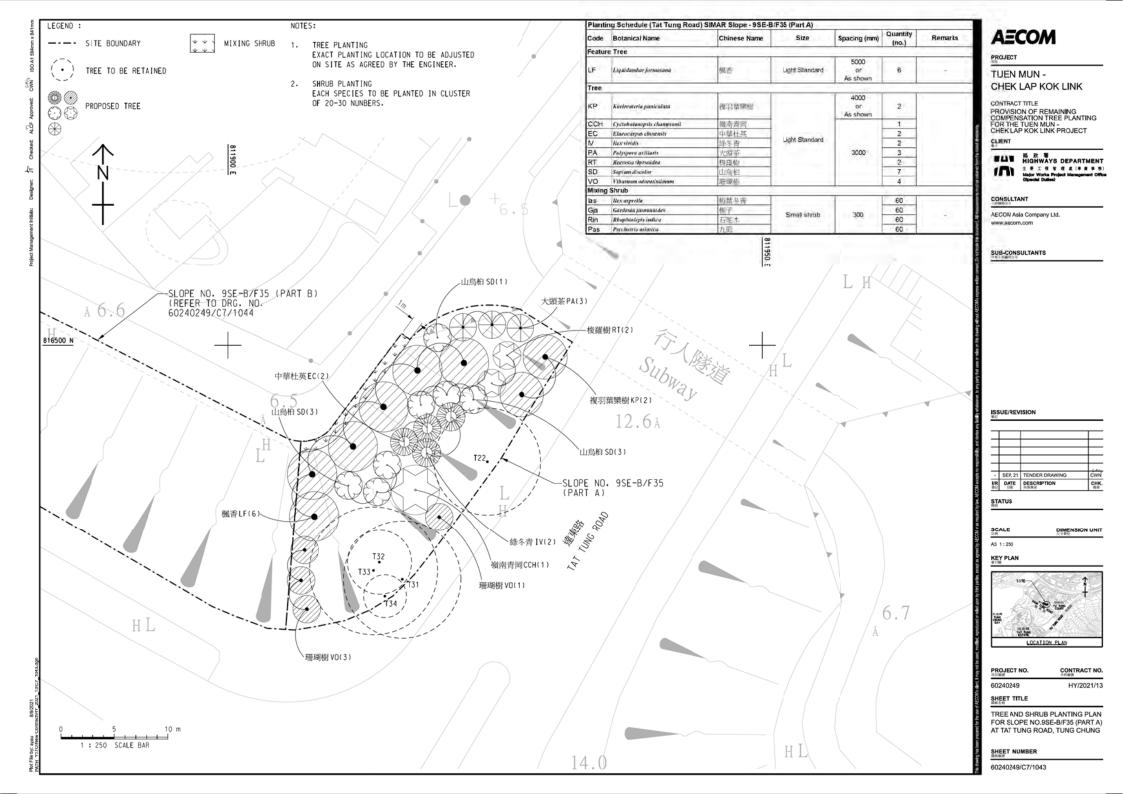


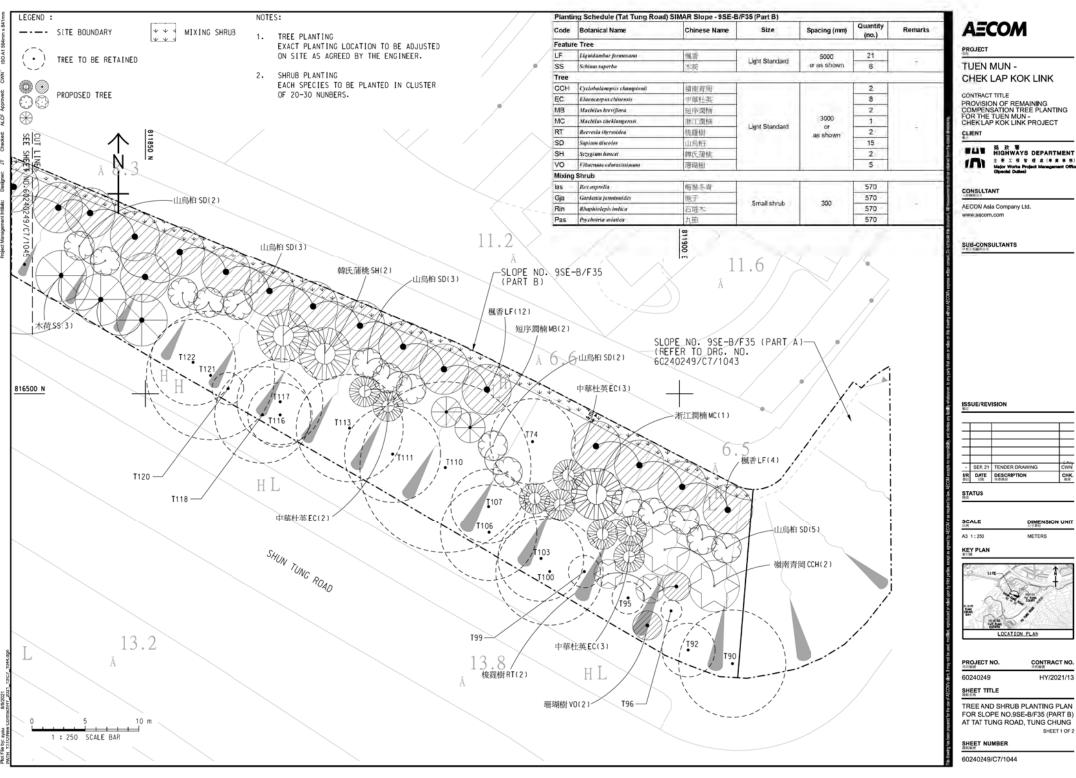












PROVISION OF REMAINING COMPENSATION TREE PLANTING FOR THE TUEN MUN -CHEK LAP KOK LINK PROJECT



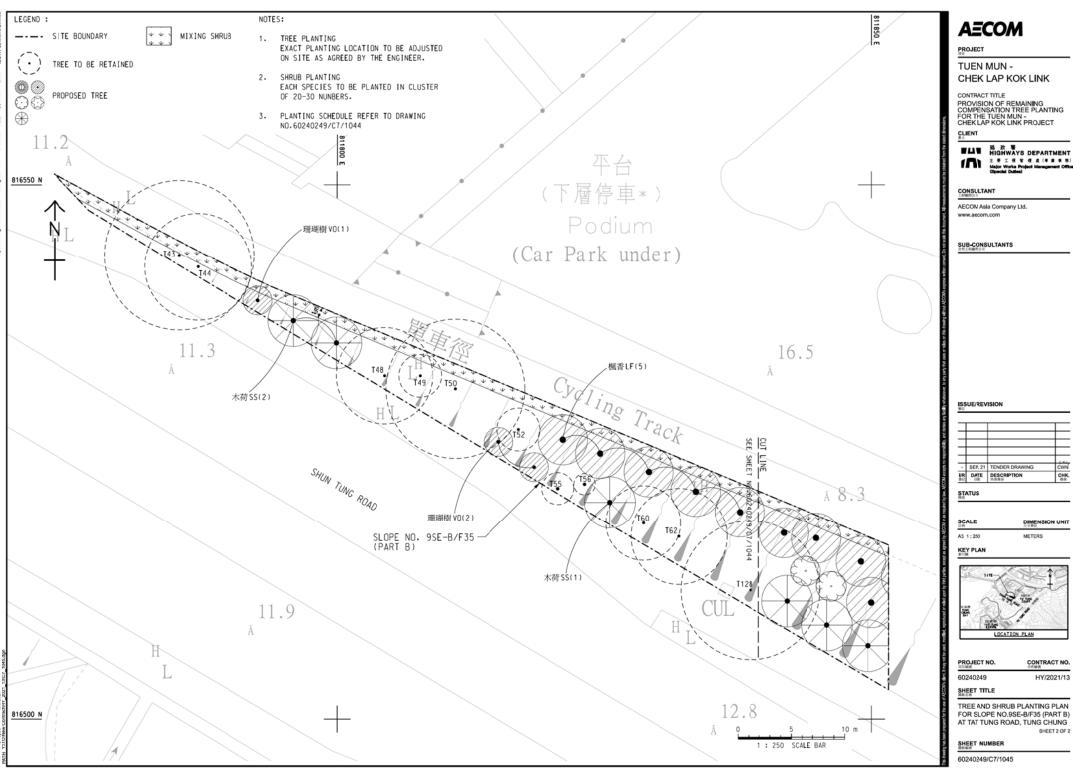
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PROJECT NO.	CONTRACT NO.
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FOR SLOPE NO.9SE-B/F35 (PART B) AT TAT TUNG ROAD, TUNG CHUNG SHEET 1 OF 2



CHEK LAP KOK LINK

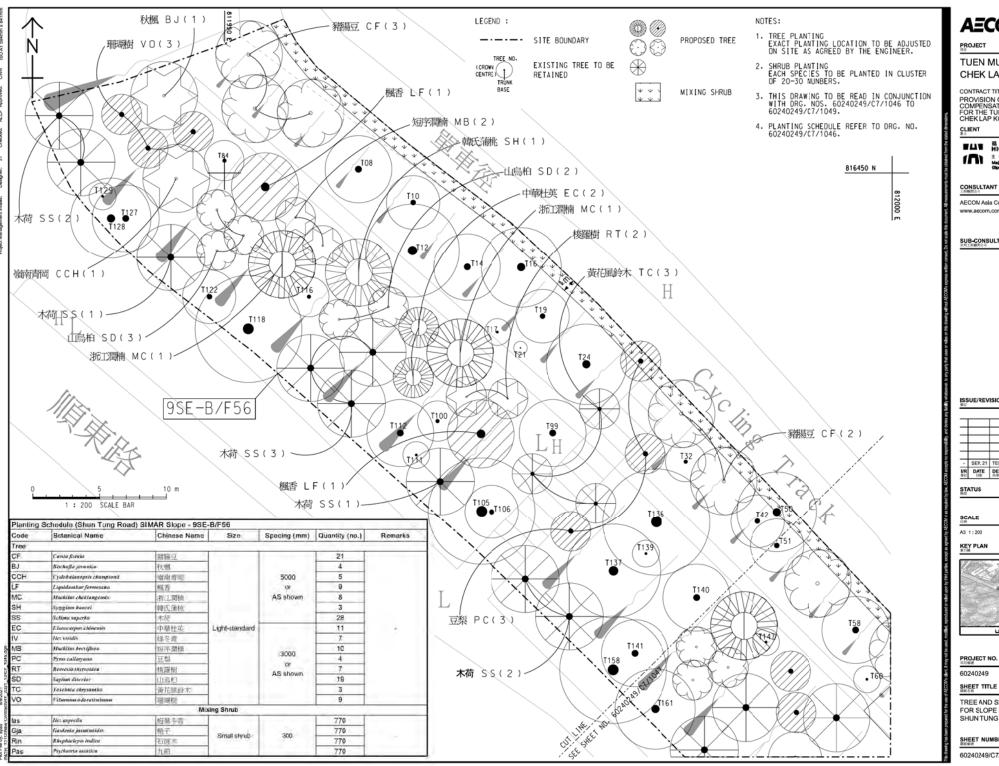
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CONTRACT NO. HY/2021/13

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



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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



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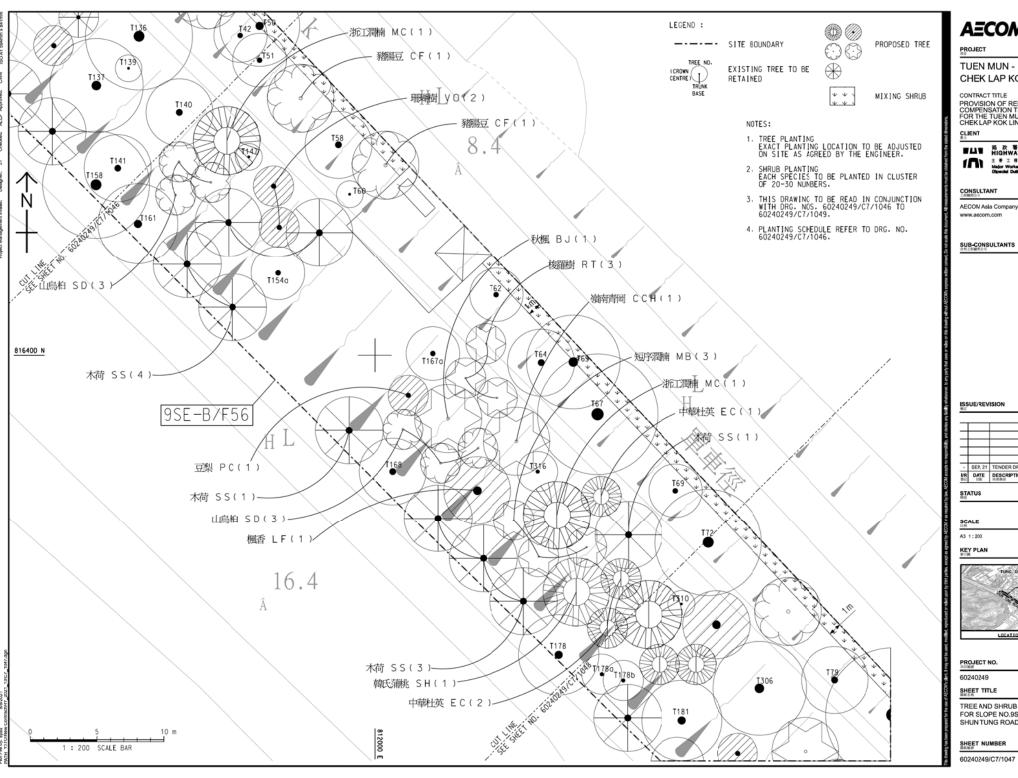
60240249 HY/2021/13

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



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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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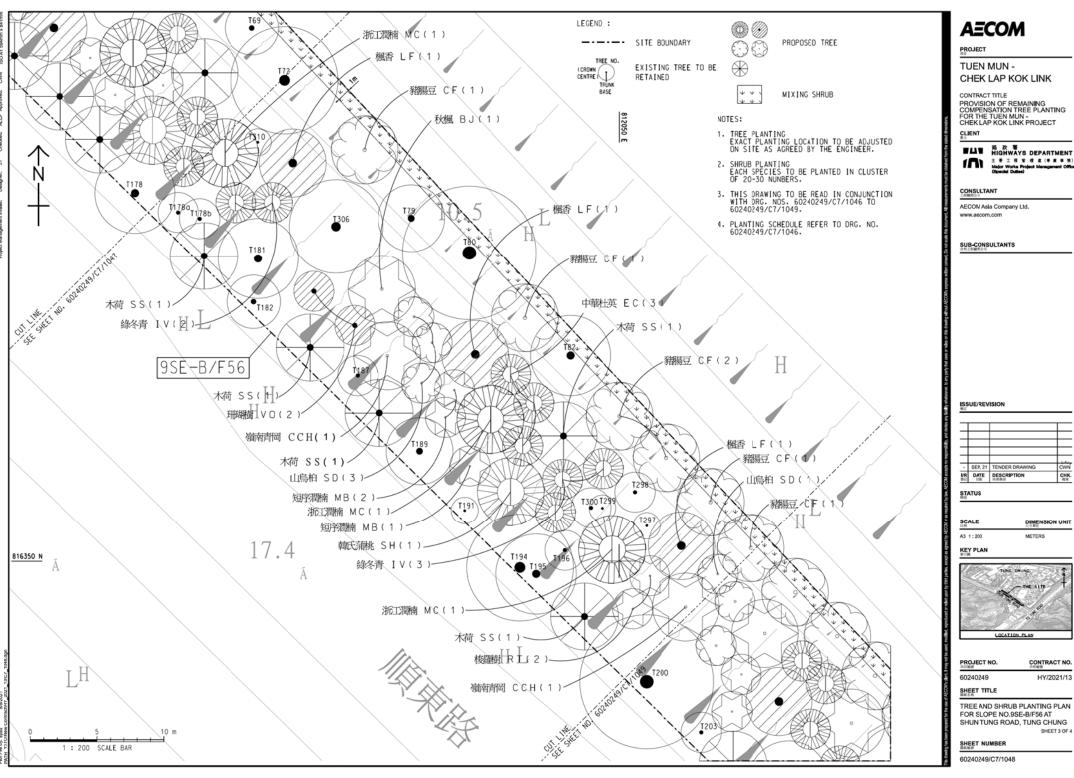
HY/2021/13

SHEET TITLE

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.

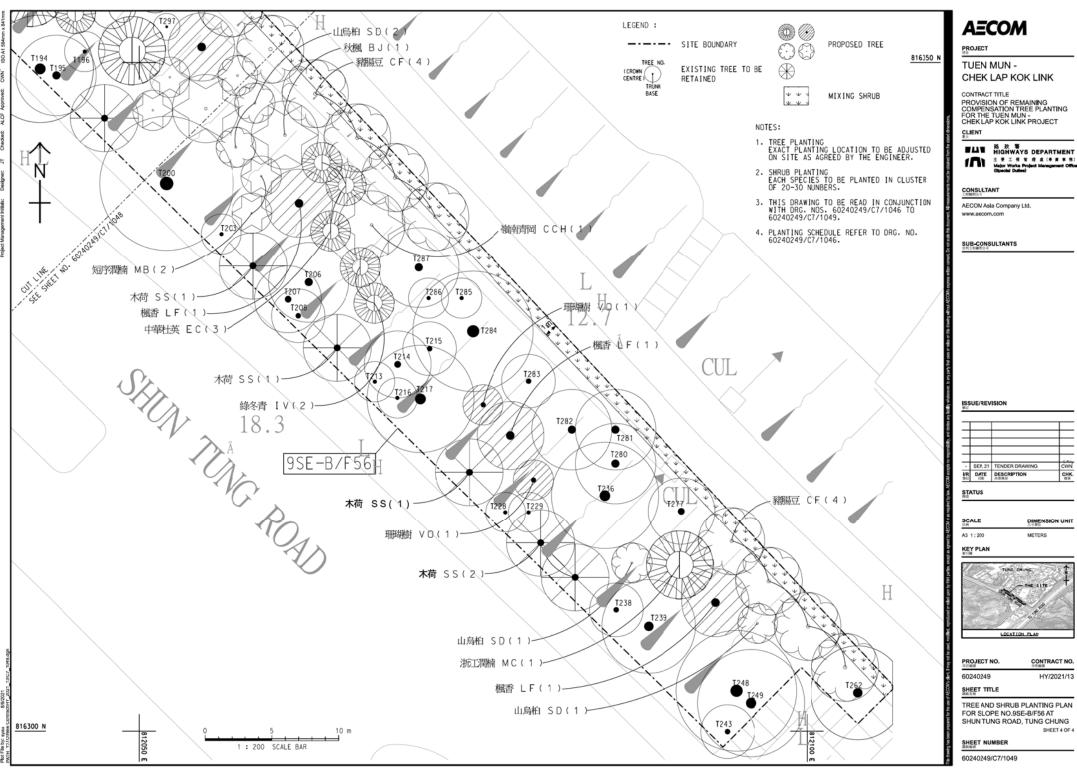
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CONTRACT NO. HY/2021/13

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

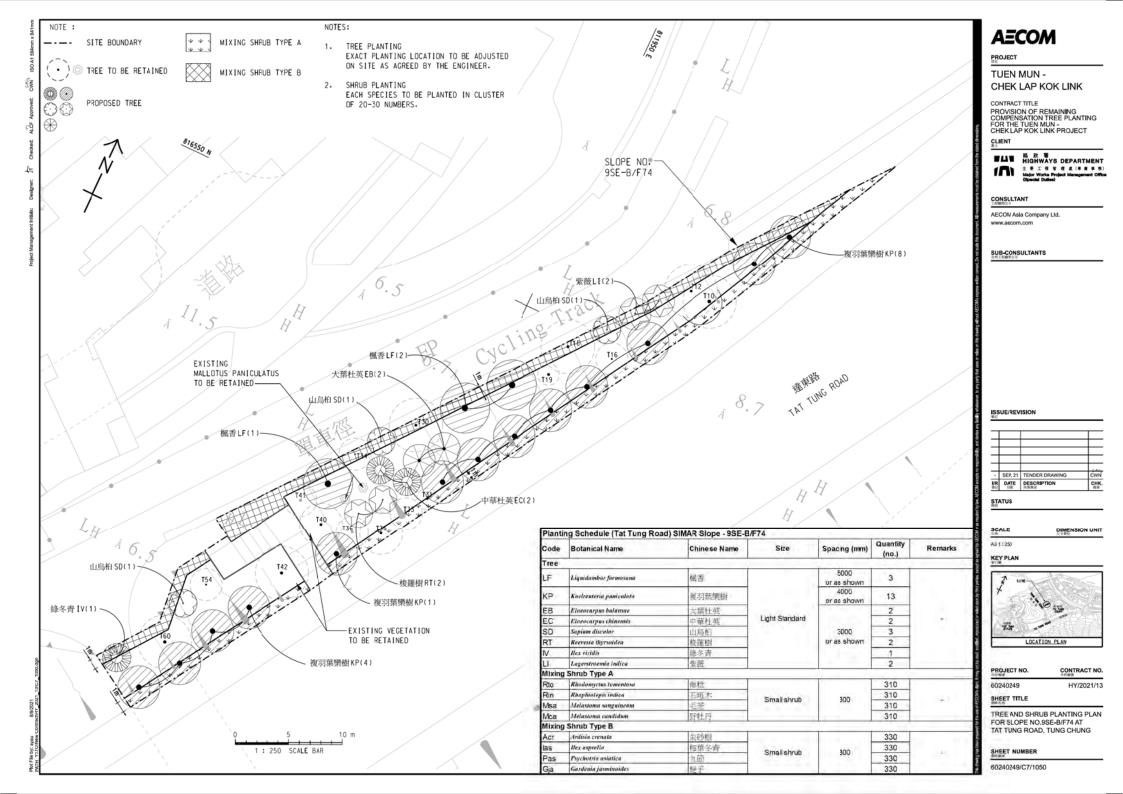
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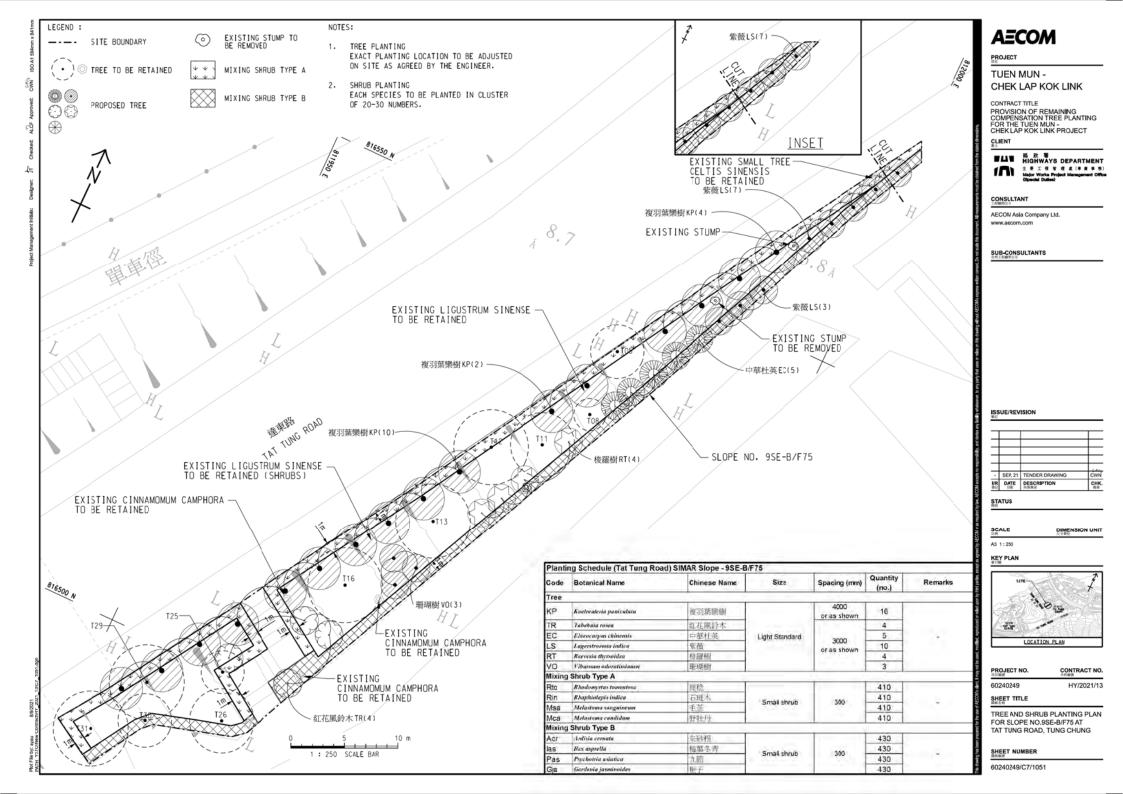
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CONTRACT NO. HY/2021/13

TREE AND SHRUB PLANTING PLAN 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.

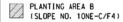
7. SITE CLEARANCE, GRASS CUTTING AND WEEDING TO BE ARRANGED PRIOR TO PLANTING.
8. APPROPRIATE SOIL CONDITIONER, FERTILIZER, AND MULCHING SHALL BE APPLIED TO EACH EXCAVATED PLANTING HOLES PRIOR TO PLANTING.

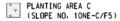
Sheet no.	Sheet Name
LA1001	General Notes and Location Plan
LA2001	Tree Planting Plan - Slope No. 10NW-D/FR89 (Page 1 of 3)
LA2002	Tree Planting Plan - Slope No. 10NW-D/FR89 (Page 2 of 3)
LA2003	Tree Planting Plan - Slope No. 10NW-D/FR89 (Page 3 of 3)
LA2004	Tree Planting Plan - Slope No. 10NW-D/FR90 (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)

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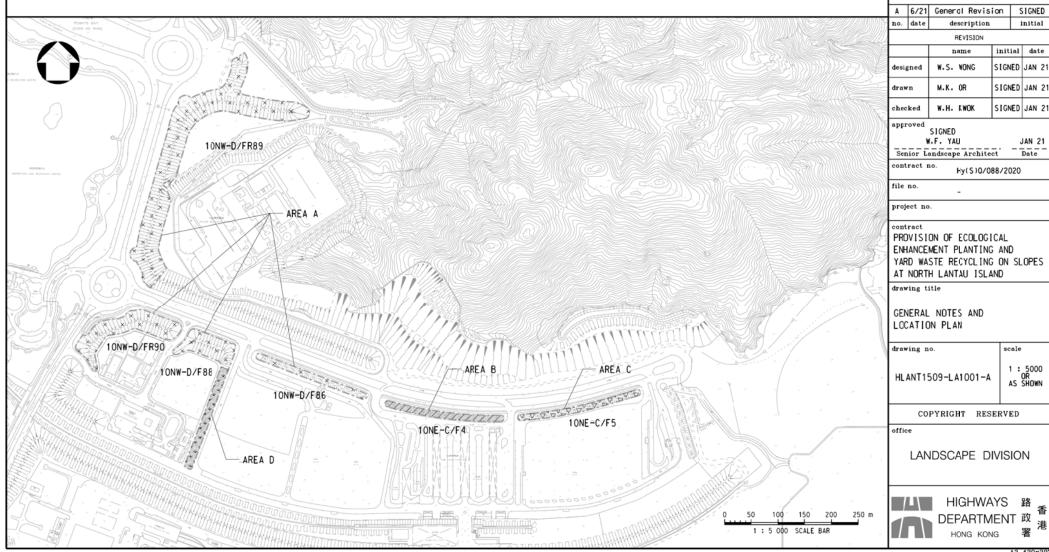
— - SLOPE BOUNDARY

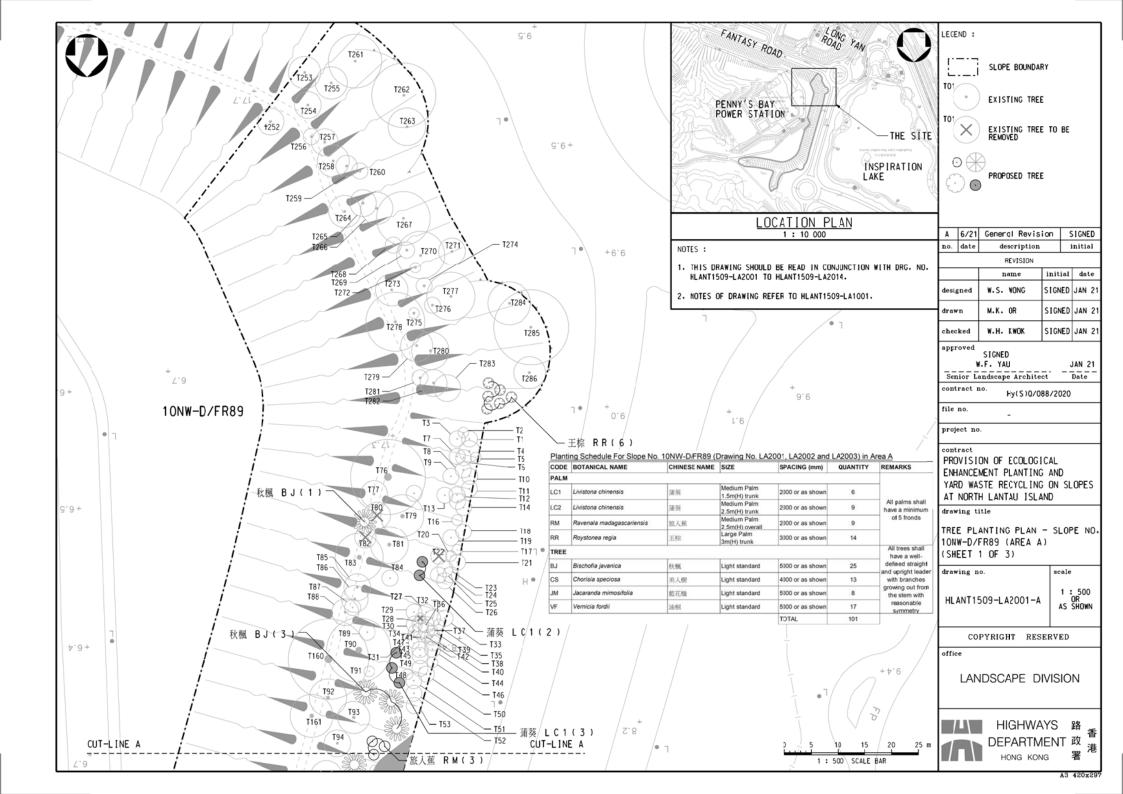
PLANTING AREA A (SLOPE NO. 10NW-D/FR89. 10NW-D/FR90. 10NW-D/F88. 10NW-D/F86)

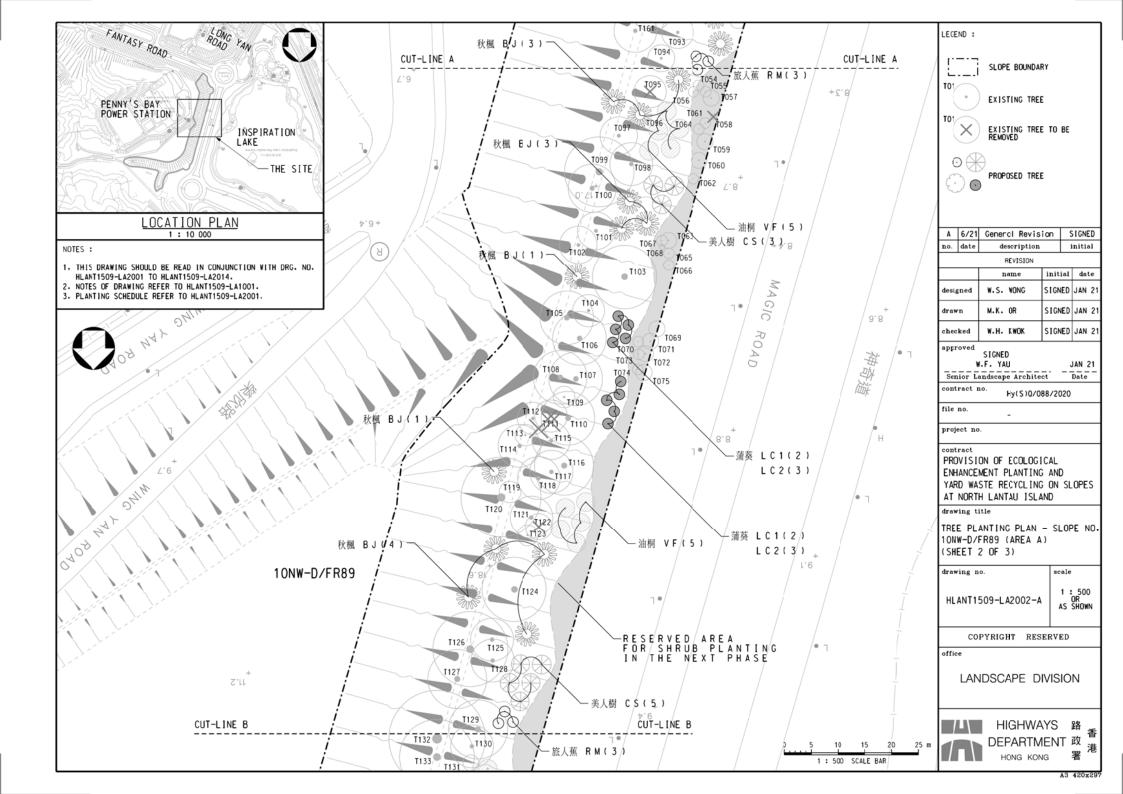


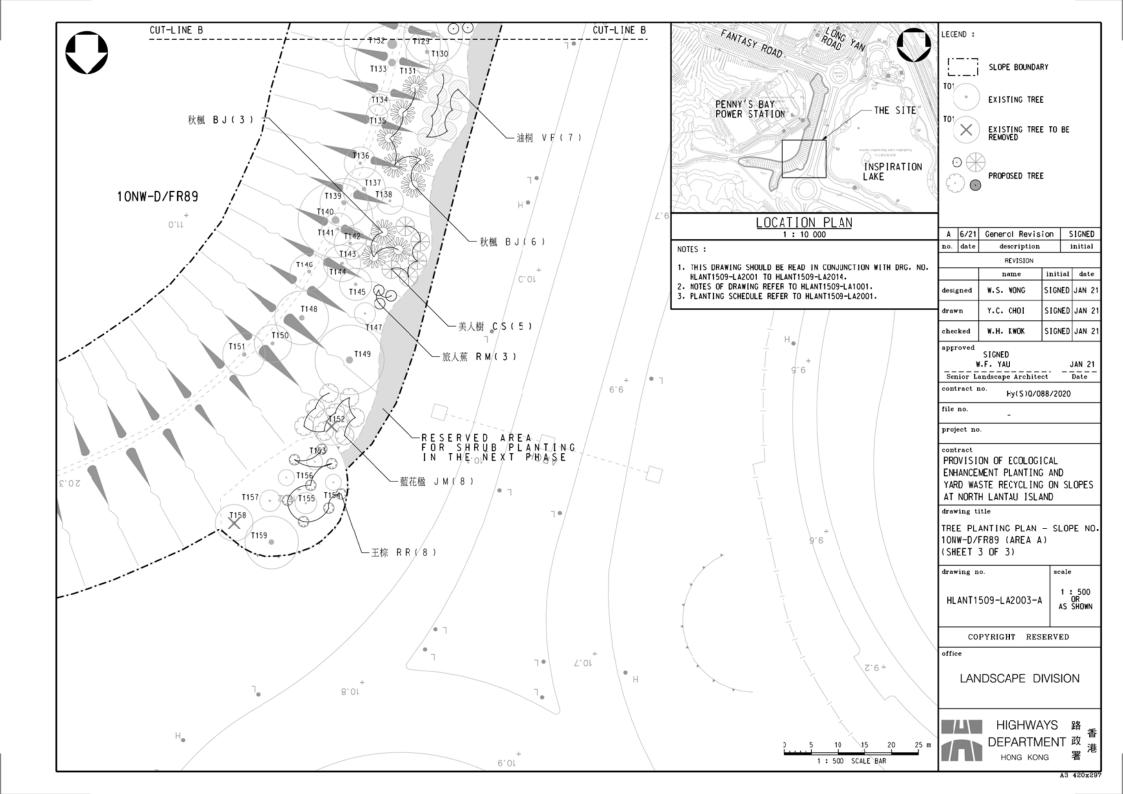


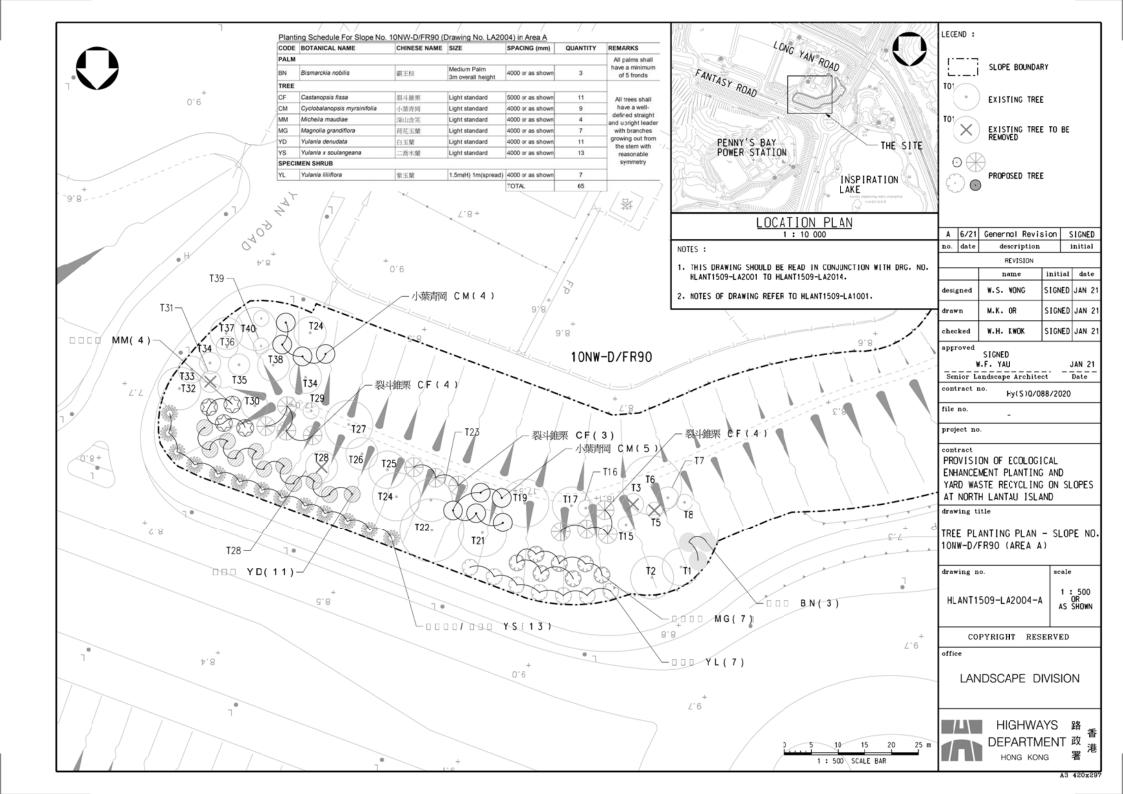
PLANTING AREA D
(SLOPE NO. 10NW-D/F88)

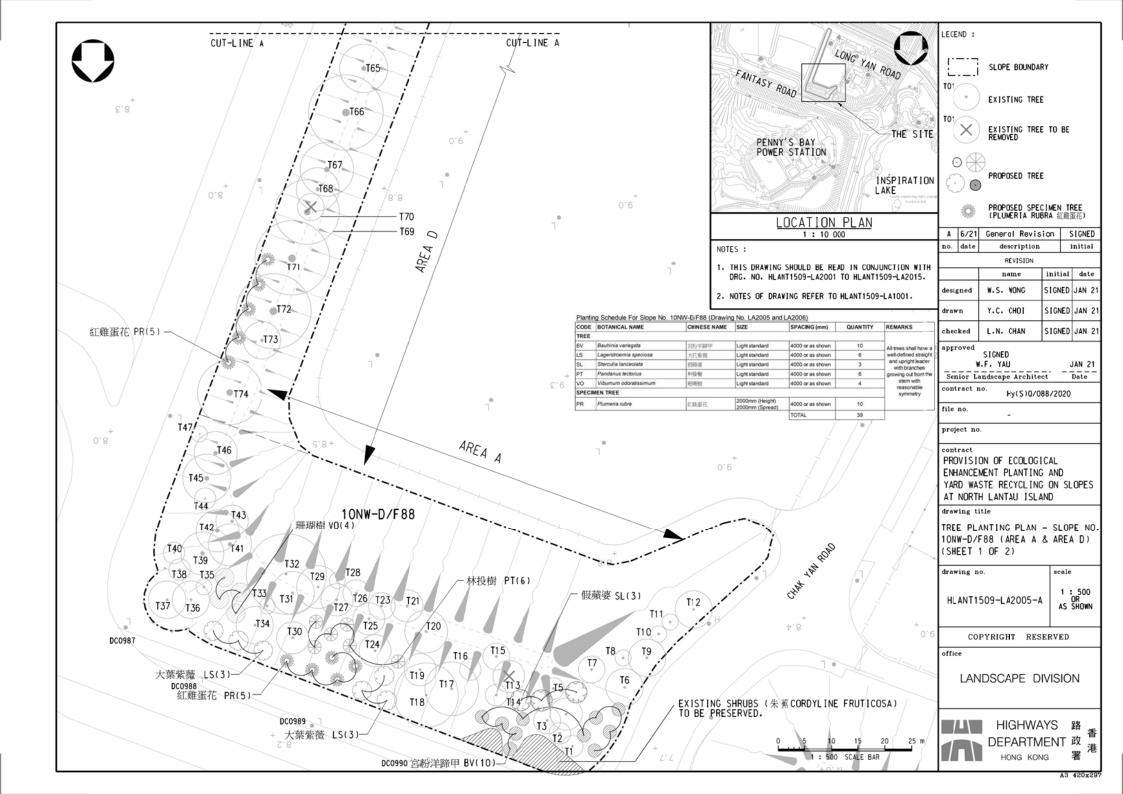


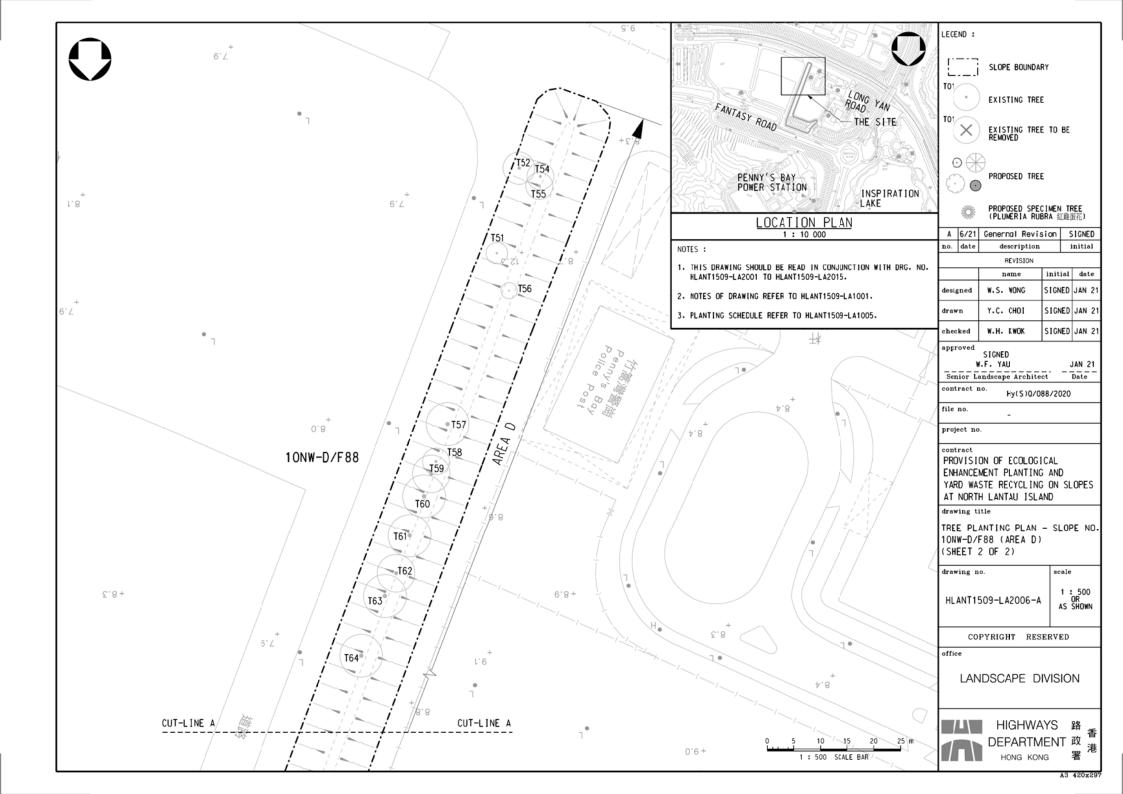


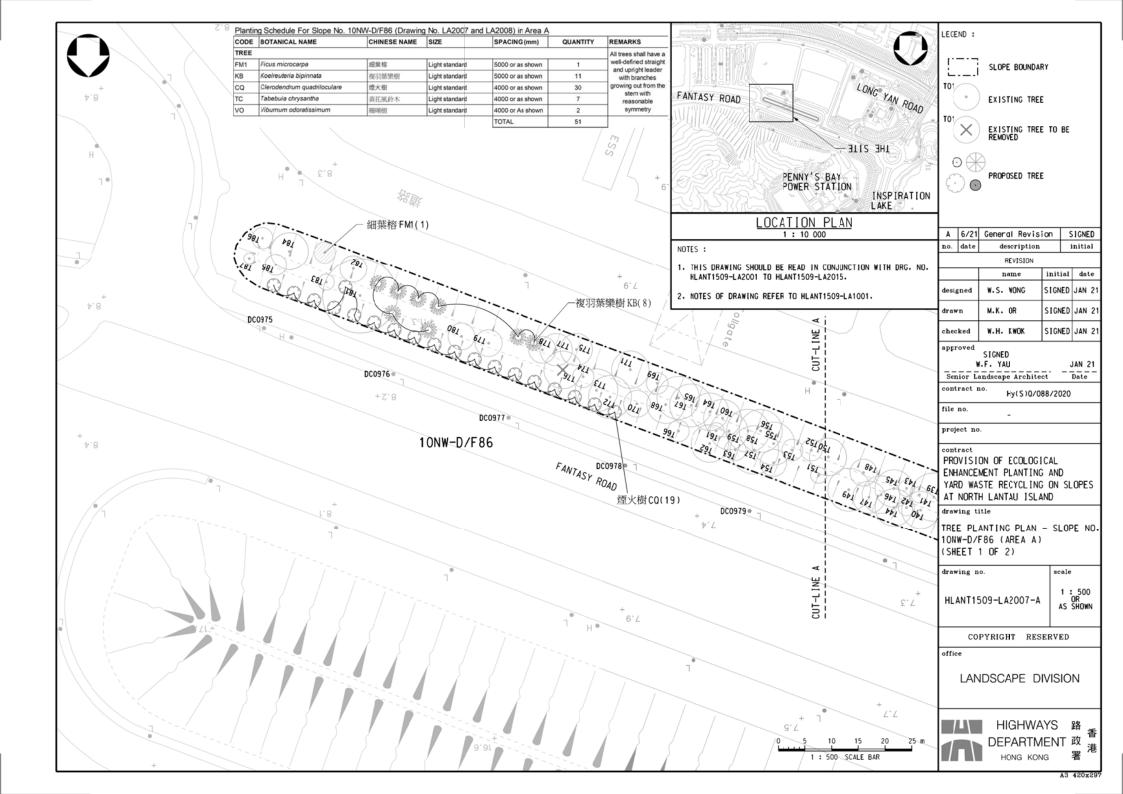


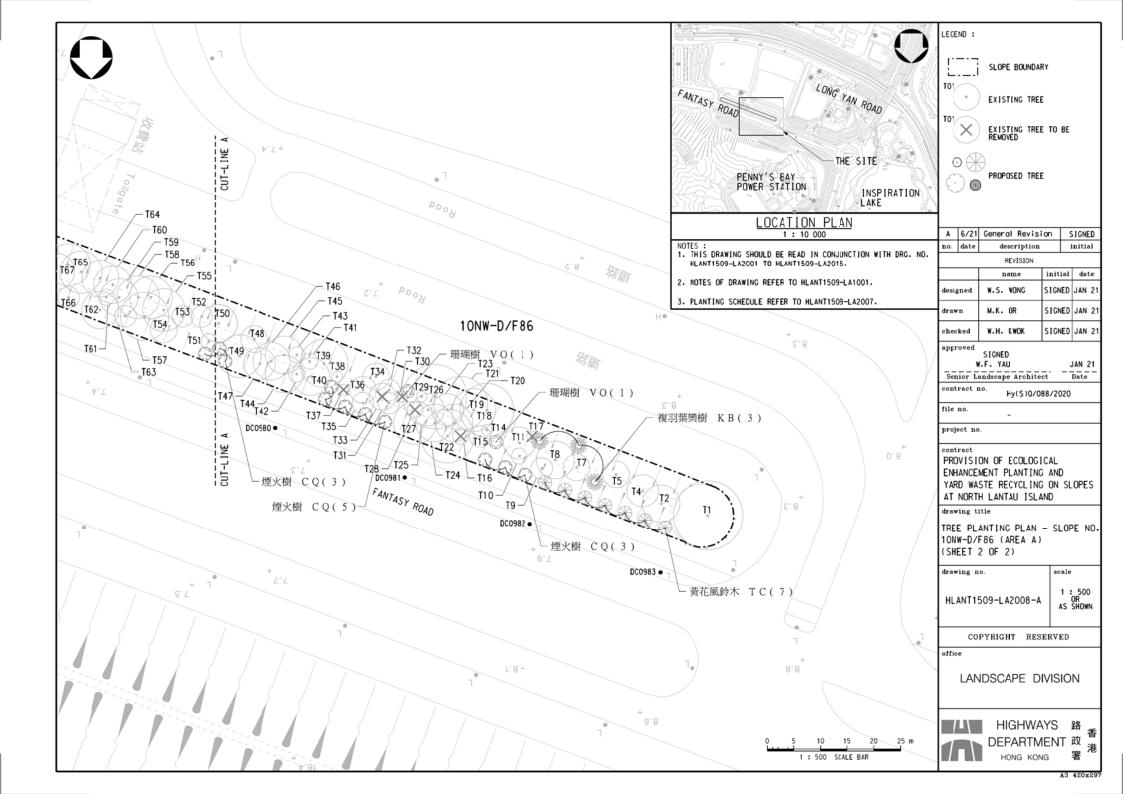


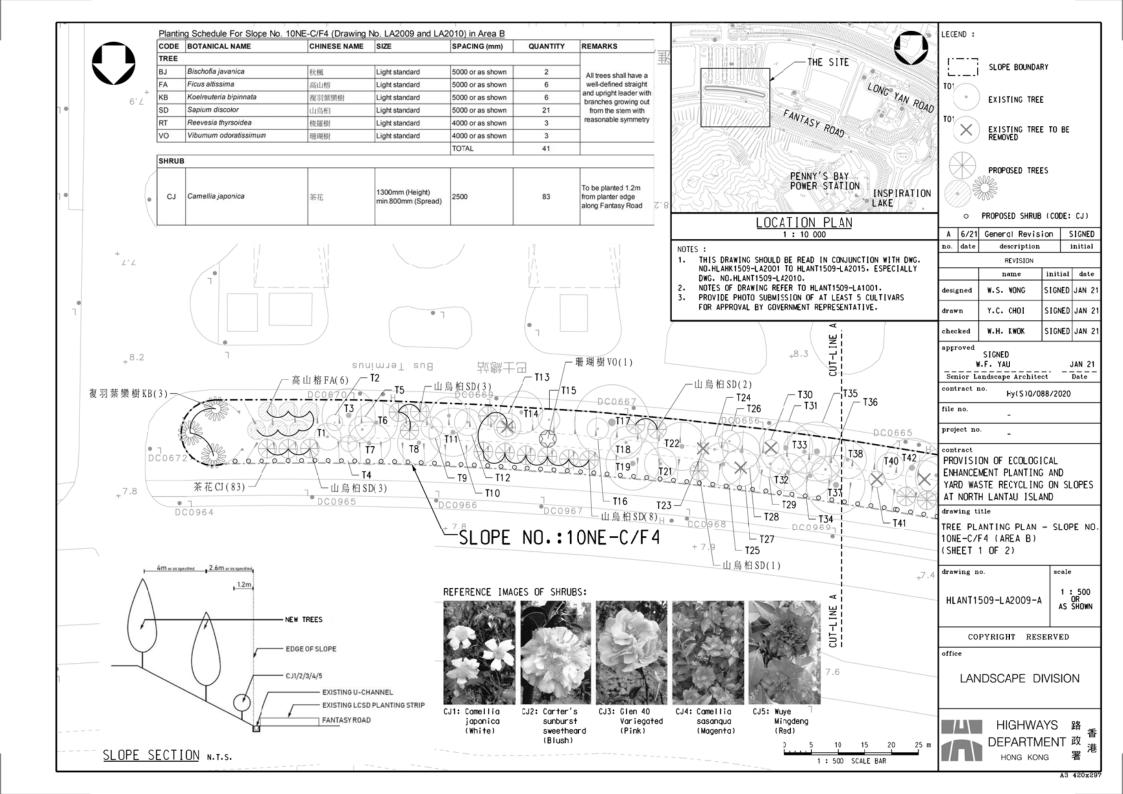


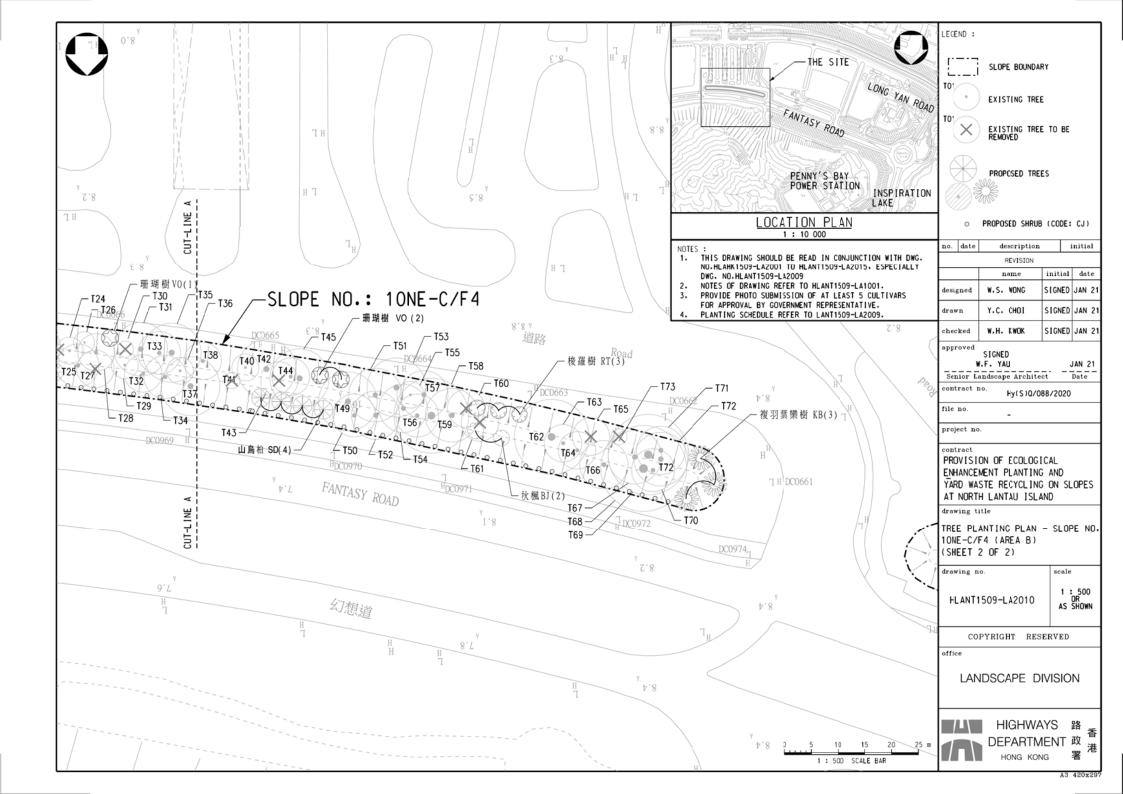


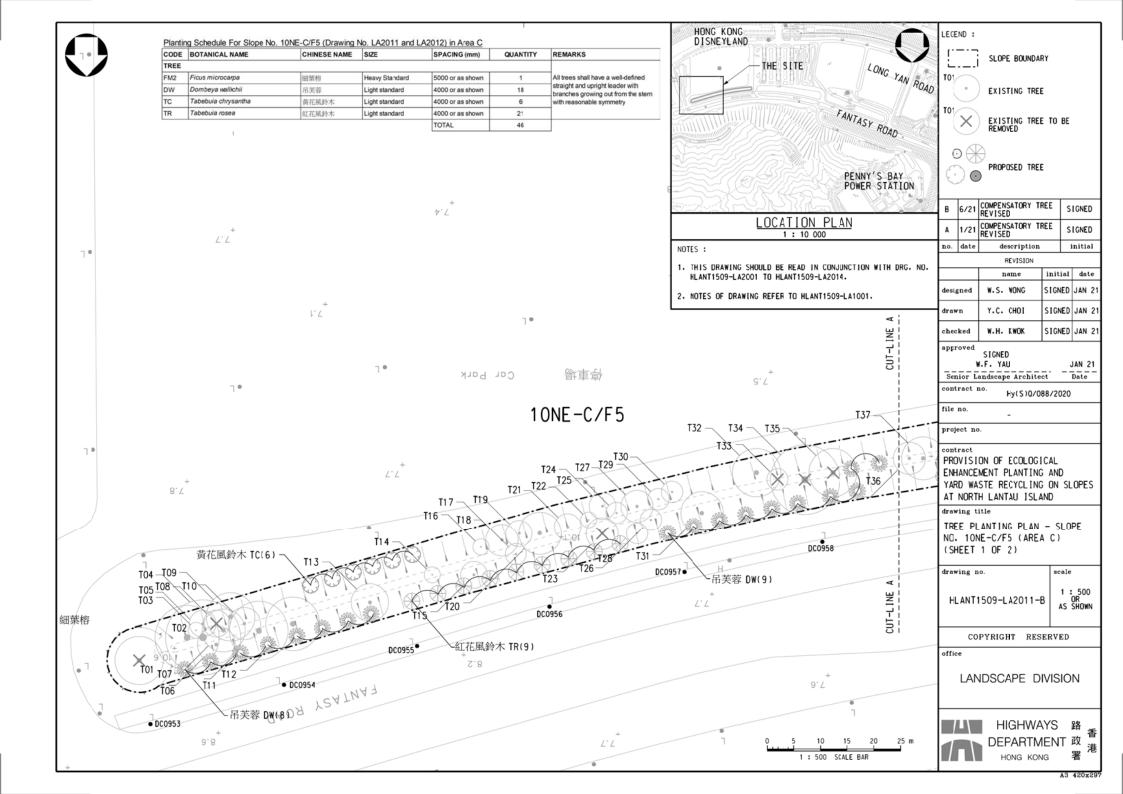


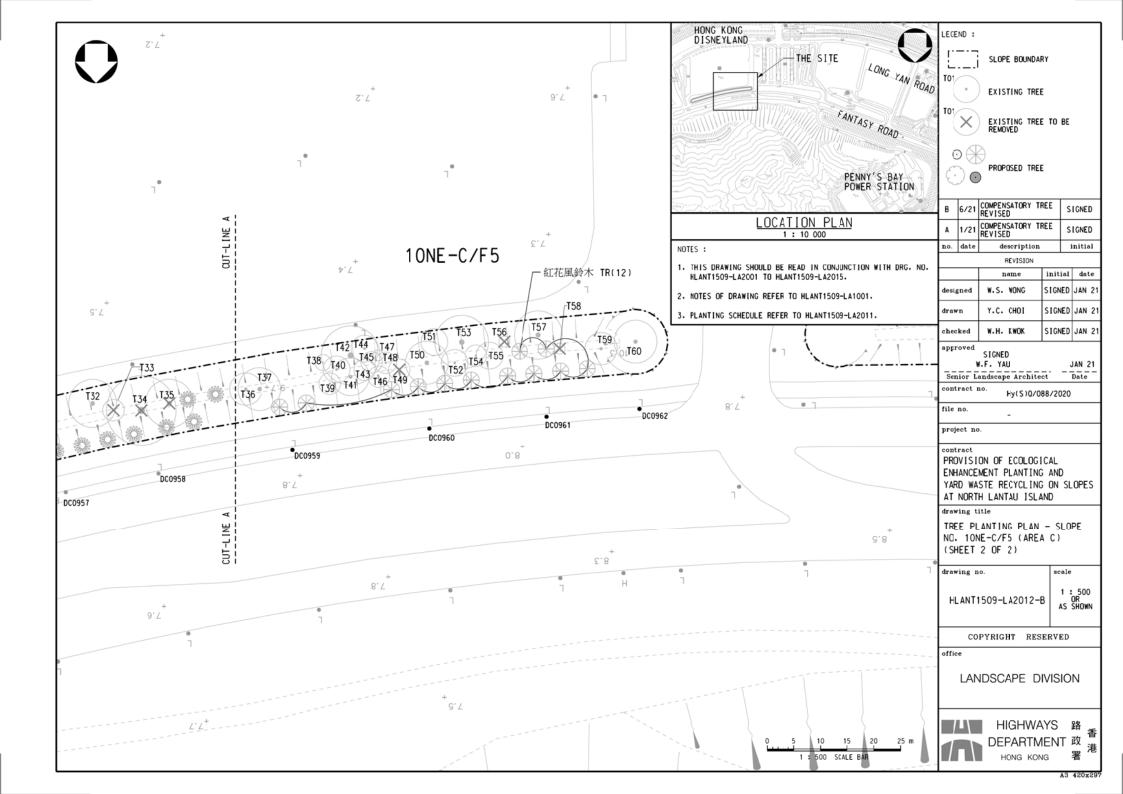














9th Monthly Environmental Monitoring and Audit (EM&A) Report – February 2023

Appendix H

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



9th Monthly Environmental Monitoring and Audit (EM&A) Report – February 2023

(No inspection was undertaken in this reporting period)



9th Monthly Environmental Monitoring and Audit (EM&A) Report – February 2023

Appendix I

Tree Planting Schedule for TM-CLKL Project

Slope Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
WHIP				
BRI,TOM,	Bridelia tomentosa *	土蜜樹	WHIP	1500-2000
GOR.AXI.	Gordonia axillaris *	大頭茶	WHIP	1500-2000
AT.GLU.	Litsea glutinosa *	潺槁樹	WHIP	1500-2000
PHY.EMB.	Phyllanthus emblica *	餘甘子	WHIP	1500-2000
REE.THY.	Reevesia thyrsoidea *	梭羅樹	WHIP	1500-2000
TREE				
BAU.VAR.	Bauhinia variegata	宫粉羊蹄甲	LIGHT STANDARD/ STANDARD	4000
BOM,CEI.	Bombax ceiba	木棉	LIGHT STANDARD	4000-5000
BRI.TOM.	Bridelia tomentosa *	土蜜樹	LIGHT STANDARD	3000
CIN.BUR.(A)	Cinnamomum burmannii *	陰香	LIGHT STANDARD	4000
MEL.AZE.(A)	Melia azedarach	苦煉	LIGHT STANDARD	4000
PLU.RUB.	Plumeria rubra	雞蛋花	HEAVY STANDARD 2000 (H) X 2000 (S)	3500-4000
PALM	1			
CAR.MIT.	Caryota mitis	短穗魚尾葵	2500(H) x 1500(S)	2500
LIV.CHI.	Livistona chinensis	蒲葵	1500-2500(H) X 1500(S)	3500-4000
PHO.ROE.	Phoenix roebelenii	日本葵	2000(H) x 1500(S)	2000
WAS, ROB,	Washingtonia robusta	華盛頓葵	1500 - 2500(H) X 1500(S)	3500-4000
SHRUB				
CAL HAE.	Calliandra haematocephala	紅絨球	300(H) X 300(S)	1000
FIC.MIC.'GOL'	Ficus microcarpa 'Golden Leaf'	黄榕	300(H) X 300(S)	500
GAR.JAS.	Gardenia jasminoides *	白蟬	300(H) x 300(S)	500
GOR.AXI.	Gordonia axillaris *	大頭茶	500(H) X 500(S)	500
HIB.ROS.	Hibiscus rosa-sinensis	大紅花	300(H) x 300(S)	1000
LIG.SIN.	Ligustrum sinense *	山指甲	300(H) x 300(S)	500
MEL.CAN.	Melastoma candidum *	野牡丹	300(H) X 300(S)	500
MEL.SAN.	Melastoma sanguineum *	毛恙	300(H) X 300(S)	500
NER.OLE.	Nerium oleander	夾竹桃	300(H) X 300(S)	1000
PIT.TOB.	Pittosporum tobira	海桐花	300(H) x 300(S)	500
PSY. ASI.	Psychotria asiatica *	九節	300(H) x 300(S)	500
RHO,SIM.	Rhododendron simsii *	紅柱鵑	300(H) x 300(S)	500
кно.том.	Rhodomyrtus tomentosa *	桃金娘	300(H) X 300(S)	500
SCH.ARB.	Schefflera arboricola	八葉	300(H) x 300(S)	500
GROUNDCOV		4, 2,2660		
HYM.LIT.	Hymenocallis littoralis	蜘蛛蘭	300(H) X 300(S)	300
CLIMBER				
EPLAUR.	Epipremnum aureum	綠蘿	MIN. 4 SHOOTS PER PLANT, 300mm LONG	500
FIC.PUM.	Ficus pumila *	薜荔	MIN. 3 SHOOTS PER PLANT, 300- 1000mm LONG	300
LON.JAP.	Lonicera japonica *	金銀花	MIN. 4 SHOOTS PER PLANT, 600mm LONG	500
PAR.DAL.	Parthenocissus dalzielii	爬牆虎	MIN. 3 SHOOTS PER PLANT, 600- 1000mm LONG	300/500
HYDROSEEDI				
	HYDROSEEDING	噴草		1

NOTE

- 1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
- 2. SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
- 3: SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION
- 4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2005 EDITION, CLAUSE 3, 25(3).
- 5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
- 6. + PLANT SPECIES INCLUDED IN THE ENTRUSTED LANDSCAPE WORKS TO CONTRACT NO. DC/2016/01.

Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE			THE STATE OF THE AD (0)	Janua,
BAU.BLA.	Bauhinia x blakeana *+	洋紫荊	HEAVY STANDARD	5000
BAU.VAR.	Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD/ STANDARD/ HEAVY STANDARD	4000 - 5000
AR.SUB.	Garcinia subelliptica +	菲島福木	LIGHT STANDARD	4000-5000
RE.ROB.(H)	Grevillea robusta	銀棒	HEAVY STANDARD	5000
LE.ROT.	llex rotundo	鐵冬青	HEAVY STANDARD	5000
AG.SPE.	Lagerstraemia speciosa	大花紫薇	HEAVY STANDARD	4000-4500
PLU.RUB.	Plumeria rubra	雞蛋花	HEAVY STANDARD 2000(H) x 2000(S) -	4000
TAB.IMP	Tabebuia impetiginosa	風鈴木	2500(H) x 2500(S) HEAVY STANDARD	5000
/IB.ODO.	Viburnum odoratissimum *+	珊瑚樹	HEAVY STANDARD	5000
AN.CHR.	Xanthostemon chrysanthus +	金蒲桃	HEAVY STANDARD	5000
PALM	Zanthossenion citryseniaus -	五五7月7万	neavi ornionas	3000
RE.CAT.	Areca catechu +	檳榔	4000(H)	4000
IV.CHI.	Livistona chinensis	浦葵	2500(H) x 1500(S)	3500-4000
HO.SYL.	Phoenix sylvestris	銀海棗	2000(H) x 1500(S)	4000
HRUB	THOUSE SYNCOTES	3次/母3和	2000(11) 2 1300(1)	1000
LL.CAT.	Allamanda cathartica	軟枝黃蟬	300(H) X 300(S)	300/350
UR.REP.	Duranta repens	假蓮翹	300(H) x 250(S)	400
N. T. OLG T. W.				
OD.VAR.'AUC'	Codiaeum variegatum "Aucubaefolium" +	灑金榕	300(H) X 300(S)	.300
OD.VAR. RED	Codiaeum variegatum 'Red' +	观金榕(紅色)	300(H) X 300(S)	300
YC.REV.	Cycas revoluta	蘇鐵	400(H) x 500(S)	.500
RA.REF.	Dracaena reflexa	黄金百合竹	600(H)	500
IC.MIC.'GOL'	Ficus microcarpa 'Golden Leaf'	黄榕	300(H) X 300(S)	350/500
AR.JAS.	Gardenia jasminoides *	白蟬	300(H) x 300(S)	.500
OR.AXI.	Gordonia axillaris *	大頭茶	300(H) X 300(S)	350
XO.CHI.	Ixora chinensis * +	龍船花	300(H) x 300(S)	300
IG.SIN.	Ligustrum sinense *	山指甲	300(H) x 250(S)	400
MEL.CAN.	Melastoma candidum *	野牡丹	300(H) X 300(S)	350
MEL.SAN.	Melastoma sanguineum *	毛菍	300(H) X 300(S)	350
VER.OLE.	Nerium oleander	夾竹桃	400(H) x 250(S) / 300(H) X 300(S)	400/500
T.TOB.	Pittosporum tobira *	海桐花	300(H) x 300(S)	500
RHA,IND.	Rhaphiolepis indica * +	車輪梅	300(H) x 300(S)	300
но.том.	Rhodomyrtus tomentosa *	桃金娘	300(H) X 300(S)	350/500
CH.ARB.	Schefflera arboricola +	八葉	300(H) x 300(S)	350/500
GROUNDCOVE		1 / 1/2/5	200(11) 11 200(11)	220/ 220
RA.DUR.	Arachis duranensis	金花生	100(H) x 200(S)	200
SP.DEN.	Asparagus densiflorus 'Sprengeri' +	非洲天門冬	200(H) x 300(S)	200
IYM.LIT.	Hymenocallis littoralis	蜘蛛蘭	300(H) X 300(S)	300
VEP.AUR.	Nephrolepis auriculata * +	腎蕨	250(H) x 250(S)	150
HY.MYR.	Phyllanthus myrtifolius +	錫蘭葉下珠	300(H) x 300(S)	300
RA.SPA.	Tradescantia spathacea	動學是是	200(H) x 300(S)	250
VED.TRI.	Wedelia trilobata	三裂葉蟛蜞菊	200(H) x 150(S)	300
CLIMBER	I were un truopata	一大宋城県州	200(11) & 130(3)	300
PI.AUR.	Epipremnum aureum +	綠蘿	MIN. 4 SHOOTS PER PLANT, 300mm LONG	500/300
IC.PUM.	Ficus pumila *	薜荔	MIN. 3 SHOOTS PER PLANT, 300- 1000mm LONG	300
PAR.DAL.	Parthenocissus dalzielii	爬牆虎	MIN. 3 SHOOTS PER PLANT, 600- 1000mm LONG	300
YDROSEEDIN	IG/GRASS		1000mm corta	
	HYDROSEEDING	噴草		
wa assi	DATE OF THE STATE	ha mar acar	Whole piece turf	
AXO.COM.	Axonopus compressus +	地毯草(大葉草)	300(L)x300(W)x50(H)	-



Slope Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
WHIP				
BAU.VAR.	Bauhinia variegata	宮粉羊蹄甲	WHIP	1000
BRI.TOM.	Bridelia tomentosa *	土密樹	WHIP	1000-2000
GOR.AXI.	Gordonia axillaris *	大頭茶	WHIP	1000
LIT.GLU.	Litsea glutinosa *	潺槁木	WHIP	1000
MAL.PAN.	Mallotus paniculatus *	白楸	WHIP	1000
РНҮ.ЕМВ.	Phyllanthus emblica *	餘甘子(油甘子)	WHIP	1000
SAP.DIS.	Sapium discolour *	山烏桕	WHIP	1000
TREE				
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD	3000
BAU.VAR.(H)	Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	4000-4500
BRI.TOM.	Bridelia tomentosa *	土密樹	LIGHT STANDARD	3000
BOM.CEI.(L)	Bombax ceiba	木棉	LIGHT STANDARD	3000
BOM.CEI.(L)	Bombax ceiba	木棉	HEAVY STANDARD	4500-5000
CIN.BUR.	Cinnamomum burmannii *	陰香	LIGHT STANDARD	3000
CIN.BUR.	Cinnamomum burmannii *	陰香	HEAVY STANDARD	4500-5000
LIQ.FOR.	Liquidambar formosana *	楓香	LIGHT STANDARD	3000
LIT.GLU.(L)	Litsea glutinosa *	潺槁木	LIGHT STANDARD	3000
MAC.CHE.	Machilus chekiangensis *	浙江潤楠	LIGHT STANDARD	3000
REE.THY.	Reevesia thyrsoidea *	梭羅樹	LIGHT STANDARD	3000
SCH.SUP.	Schima superba *	木荷 (荷樹)	LIGHT STANDARD	3000
STE.LAN.	Sterculia lanceolata *	假蘈婆	LIGHT STANDARD	3000
STE.LAN.	Sterculia lanceolata *	假蘈婆	HEAVY STANDARD	4500-5000
VIB.ODO.	Viburnum odoratissimum *	珊瑚樹	LIGHT STANDARD	3000
SHRUB	VIDER REIT OUT COLOSITIEM	利用为机构	Bidii Biliibild	0000
DES.CHI.	Desmos chinensis *	假鷹爪	300(H) x 300(S)	500
ILE.ASP.	Ilex asprella *	梅葉冬青	300(H) x 300(S)	500
ILE.PUB.	Ilex pubescens *	毛冬青	300(H) x 300(S)	500
LIG.SIN.	Ligustrum sinense	山指甲	300(H) x 300(S)	350-500
MEL.CAN.	Melastoma candidum *	野牡丹	300(H) x 300(S)	350-500
MEL.SAN.	Melastoma sanguineum *	毛恙	300(H) x 300(S)	350-500
NER.OLE.	Nerium oleander	夾竹桃	300(H) x 300(S)	350
PSY.ASI.	Psychotria asiatica *	九節	300(H) x 300(S)	500
RHA.IND.	Rhaphiolepis indica *	車輪梅	300(H) x 300(S)	350-500
RHO.PUL.	Rhododendron pulchrum	紫杜鵑	300(H) x 300(S)	500
RHO.SIM.	Rhododendron simsii *	紅杜鵑	300(H) x 300(S)	500
SCH.ARB.			300(H) x 300(S)	500
SCH.VAR.	Schefflera arboricola Schefflera arboricola 'Variegata'		300(H) x 300(S)	500
GROUNDCOV		花葉八葉木	300(H) x 300(3)	300
NEP.AUR.	Nephrolepis auriculata *	巨文志芸	300(H) x 300(S)	100-300
NEP.HIR.	Nephrolepis auriculata * Nephrolepis hirsutula *	腎蕨 毛 莊 聚 莊	300(H) x 300(S)	100-300
CLIMBER	мериговеріз пігзисию *	毛葉腎蕨	annitu) x annia)	100-300
CLINDER	Toron	The second of	MIN. 5 SHOOTS PER PLANT,	
BAU.COR.	Bauhinia corymbosa	首冠藤	600mm LONG MIN. 5 SHOOTS PER PLANT,	300-1000
BOU.SPE.	Bougainvillea spectabilis	簕杜鵑	600mm LONG	300-500
FIC.PUM.	Ficus pumila *	薜荔	MIN. 3 SHOOTS PER PLANT, 1000mm LONG	300
LON.JAP.	Lonicera japonica *	忍冬(金銀花)	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300-1000
PAR.DAL.	Parthenocissus dalzielii	爬墻虎	MIN. 3 SHOOTS PER PLANT, 1000mm LONG	300-1000
WED.TRI.	Wedelia trilobata	三裂葉蟛蜞菊	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300

Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE				
BRA.ACE.	Brachychiton acerifolius	槭葉蘋婆	HEAVY STANDARD	4500-5000
DEL.REG.	Delonix regia	鳳凰木	HEAVY STANDARD	N/A
GAR.SUB.	Garcinia subelliptica	菲島福木 (福木)	LIGHT STANDARD	3000
MEL.CUM.	Melaleuca cajuputi subsp. cumingiana	白千層	HEAVY STANDARD	4000
STE.LAN.	Sterculia lanceolata *	假蘈婆	HEAVY STANDARD	5000
TAB.CHR.	Tabebuia chrysantha	黃花風鈴木	HEAVY STANDARD	5000
TAB.IMP.	Tabebuia impetiginosa	風鈴木	HEAVY STANDARD	5000
TER.MAN.	Terminalia mantaly	小葉欖仁	HEAVY STANDARD	5000
PALM				
ARC.ALE.	Archontophoenix alexandrae	假檳榔	3500(H) x 1500(S)	4000
CHR.LHT.	Chrysalidocarpus lutescens	散尾葵	1500(H)	2000
LIV.CHI.	Livistona chinensis	蒲葵	2000(H) x 1500(S)	2500
PHO.ROE.	Phoenix roebelenii	日本葵	2000(H) x 1500(S)	2500-3000
WOD.BIF.	Wodyetia bifurcata	狐尾椰子	2500(H) x 1500(S)	3500
SHRUB				
DUR.GOL.	Duranta repens 'Golden'	Duranta repens 'Golden' 金連輛 300(H) x 300(S)		300
IXO.CHI.	Ixora chinensis *	龍船花	300(H) x 300(S)	300
IXO.COC.	Ixora coccinea	橙紅龍船花	300(H) x 300(S)	300
IXO.LUT.	İxora coccinea 'Lutea'	黃花龍船花	300(H) x 300(S)	300
RHA.IND.	Rhaphiolepis indica *	車輪梅	300(H) x 300(S)	300
RHO.PUL.	Rhododendron pulchrum	紫杜鵑	300(H) x 300(S)	300
RHO.SIM.	Rhododendron simsii *	紅杜鵑	300(H) x 300(S)	300
SCH.ARB.	Schefflera arboricola	八葉木	300(H) x 300(S)	300
SCH.VAR.	Schefflera arboricola 'Variegata'	斑葉鵝掌藤 (花葉八葉木)	300(H) x 300(S)	300
GROUNDCO\	VER			
ARA.DUR.	Arachis duranensis	金花生	100(H) x 200(S)	200
ASP.DEN.	Asparagus densiflorus 'Myersii'	狐尾天冬	300(H) x 300(S)	250
ASP.SPR.	Asparagus densiflorus 'Sprengeri'	非洲天門冬(天冬)	100(H) x 200(S)	200
CUP.HYS.	Cuphea hyssopifolia	細葉雪茄花	250(H) x 300(S)	250-300
DIA.VAR.	Dianella tasmanica 'Variegata'	花葉山菅蘭	250(H) x 250(S)	250
LAN.FLA.	Lantana camara 'Flava'	黃花馬纓丹	200(H) x 200(S)	200
LAN.MON.	Lantana montevidensis	小葉馬纓丹	200(H) x 200(S)	200
NEP.AUR.	Nephrolepis auriculata *	腎蕨	300(H) x 300(S)	100-300
OPH.JAP.	Ophiopogon japonicus *	沿階草	200(H) x 200(S)	200

NOTE

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- 2. SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
- 3. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.
- 4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).
- 5 * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITI

Northern Landfall - Roadside Planting

CODE	BOTANICAL NAME CHINESE NAME SIZE (mm) HEIGHT (H) X SPREAD (S)		SPACING (mm)	
TREE				
BAU.BLA	Bauhinia x blakeana *	洋紫荊	HEAVY STANDARD	4500-5000
BAU.VAR	Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	4500-5000
ELA.API	Elaeocarpus apiculatus	尖葉杜英	HEAVY STANDARD	6000
ELA.HAI	Elaeocarpus hainanensis	水石榕	HEAVY STANDARD	5000
GAR.SUB	Garcinia subelliptica	菲島福木	HEAVY STANDARD	3500-4000
GRE.ROB	Grevillea robusta	銀樺	HEAVY STANDARD	4500-5000
MEL.QUI	Melaleuca quinquenervia	白千層	HEAVY STANDARD	4500-5000
PLU.MUL	Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-4500
PLU.RUB	Plumeria rubra (red flower)	雞蛋花(紅花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-4500
PLU,RUB(Y)	Plumeria rubra (yellow flower)	雞蛋花(黄花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-4500
PON.PIN	Pongamia pinnata *	水黃皮	HEAVY STANDARD	5000-6000
STE.LAN	Sterculia lanceolata *	假蘋婆	HEAVY STANDARD	4500-5000
ΓER.CAT	Terminalia catappa	欖仁樹	HEAVY STANDARD	5000-7000
/IB.ODO	Viburnum odoratissimum *	珊瑚樹	HEAVY STANDARD	4500-5000
(AN.CHR	Xanthostemon chrysanthus	金蒲桃	HEAVY STANDARD	5000
PALM	*			
ARE.CAT	Areca catechu	檳榔	3000(H) x 1500(S)	4000
HYO.LAG	Hyophorbe lagenicaulis	酒瓶椰子	2000(H) x 1500(S)	3000
IV.CHI	Livistona chinensis	蒲葵	3000(H) x 2000(S)	4000-4500
ROY.REG	Roystonea regia	王棕	4000(H) x 2000(S)	4500-5000
NOD.BIF	Wodyetia bifurcata	狐尾椰子	3000(H) x 1500(S)	4500
SHRUB				
CMI	Carmona microphylla	福建茶	300(H) x 300(S)	300
CRE	Cycas revoluta	蘇鐵	500(H) x 600(S)	N/A
DLU	Dypsis lutescens	散尾葵	2000(H) x 2000(S)	2000
KA	Juniperus chinensis 'Kaizuca'	龍柏球	600(H) x 600(S)	N/A
СН	Ixora chinensis *	龍船花	300(H) x 300(S)	300
CO	lxora coccinea	橙紅龍船花	300(H) x 300(S)	300
LU	lxora coccinea 'Lutea'	黃花龍船花	400(H) x 300(S)	300
ST	lxora stricta	細葉龍船花	250(H) x 250(S)	250
WE	Ixora westii	粉紅龍船花	400(H) x 300(S)	300
PTO	Pittosporum tobira	海桐	300(H) x 300(S)	350
MA	Podocarpus macrophyllus *	羅漢松	600(H) x 500(S)	N/A
PAX	Polyspora axillaris *	大頭茶	300(H) x 300(S)	350
RIN	Rhaphiolepis indica *	車輪梅	300(H) x 300(S)	300-350
RPU	Rhododendron pulchrum	錦繡杜鵑	300(H) x 300(S)	350
RSI	Rhododendron simsii *	紅杜鵑	250(H) x 250(S)	350
RTO	Rhodomyrtus tomentosa *	桃金娘	300(H) x 300(S)	350
TA	Scaevola taccada *	草海桐	300(H) x 300(S)	350
SDA	Schefflera arboricola 'Dazzle'	黄金八葉	300(H) x 300(S)	350
SVA	Schefflera arboricola 'Variegata'	斑葉鵝掌藤 (花葉八葉木)	300(H) x 300(S)	300-350

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
GROUNDCO	VER			
ADU	Arachis duranensis	蔓花生 (金花生)	100(H) x 200(S)	200
AMY	Asparagus densiflorus 'Myersii'	狐尾天冬	300(H) x 300(S)	300
ASP	Asparagus densiflorus 'Sprengeri'	非洲天門冬	100(H) x 200(S)	200
CHY	Cuphea hyssopifolia	細葉萼距花	200(H) x 250(S)	250
CRO	Catharanthus roseus	長春花	200(H) x 200(S)	200
LFL	Lantana camara 'Flava' - 黃花馬		200(H) x 200(S)	200
LMO	Lantana montevidensis	小葉馬纓丹 200(H) x 200(S)		200
NAU	Nephrolepis auriculata *			200
WTR	Wedelia trilobata	三裂葉蟛蜞菊	琪菊 150(H) x 200(S)	
CLIMBER				
всо	Bauhinia corymbosa	inia corymbosa 首冠藤 MIN. 4 SHOOTS PER PLANT, 600mm LONG		300-500
QIN	Quisqualis indica	使君子	MIN. 4 SHOOTS PER PLANT, 600mm LONG	
GRASS				
ACO	Axonopus compressus	大葉草(地毯草)	Whole piece turf 300(L)x300(W)x50(H)	

NOTE:

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- 3. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.
- 4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).
- 5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.



Southern Landfall (Contract 1 - HY/2012/07)

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE	•			
GRE.ROB.	Grevillea robusta	銀樺	HEAVY STANDARD	4000-5000
			HEAVY STANDARD	
PLU.RUB.	Plumeria rubra	雞蛋花(紅)	2000(H) x 2000(S) -	4000-5000
			2500(H) x 2500(S)	
SHRUB				
RUS.EQU.	Russelia equisetiformis	爆仗竹	300(H) x 300(S)	250
GROUNDCO	VER	20 1000 041 0000 041		
IPO.PES.	Ipomoea pes-caprae *	海灘牽牛	200(H) x 200(S)	200
LAN.MON.	Lantana montevidensis	小葉馬纓丹 (鋪地臭金鳳)	200(H) x 200(S)	250
OPH.JAP.	Ophiopogon japonicus *	麥冬(沿階草)	150(H) x 200(S)	200
SYN.POD.	Syngonium podophyllum	白蝴蝶	100(H) x 200(S)	200
TRA.SPA.	Tradescantia spathacea	蚌花	200(H) x 300(S)	250
ZEP.ROS.	Zephyranthes rosea	玫瑰蔥蓮	100(H) x 200(S)	150
CLIMBER	•			
MON.DEL.	Monstera deliciosa	龜背竹	MIN. 5 SHOOTS PER PLANT, 300mm LONG	500
HYDROSEED	DING / GRASS		-	
-	HYDROSEEDING	噴草	2	
ZOY.JAP.	Zoysia japonica	朝鮮草	300(L)x300(W)x50(H)	N/A

NOTE:

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- 4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).
- 5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
- 6. THE PLANT SPECIES ALLOWED FOR PLANTING IN EACH ZONE STATED IN THE HONG KONG INTERNATIONAL AIRPORT (HKIA) APPROVED PLANT SPECIES LIST (Revision. 4.0.1: October 2015).

Southern Landfall (Contract 4 - HY/2017/10)

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE				
CV	Callistemon viminalis	串錢柳	HEAVY STANDARD	4000-5000
GR	Grevillea robusta	銀樺	HEAVY STANDARD	4000-5000
PRR	Plumeria rubra (red flower)	雞蛋花(紅花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-5000
PRY	Plumeria rubra (yellow flower)	雞蛋花(黄花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-5000
PLU.MUL	Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-5000
GROUNDCO	OVER			
IPE	Ipomoea pes-caprae *	海灘牽牛	150(H) x 200(S)	200
LMO	Lantana montevidensis	小葉馬纓丹 (鋪地臭金鳳) 200(H) x 300(S)		200
OJA	Ophiopogon japonicus *	麥冬(沿階草)	100(H) x 100(S)	100
SP0	Syngonium podophyllum	白蝴蝶	100(H) x 200(S)	200
TSP	Tradescantia spathacea 'dwarf'	矮蚌花	100(H) x 100(S)	100
WTR	Wedelia trilobata	三裂葉蟛蜞菊	150(H) x 200(S)	200
GRASS		20 San David State St. 30 St.		
ZJA	Zoysia japonica	朝鮮草	300(L)x300(W)x50(H)	N/A

NOTE:

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- 3. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION
- 4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3)
- 5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
- 6. THE PLANT SPECIES ALLOWED FOR PLANTING IN EACH ZONE STATED IN THE HONG KONG INTERNATIONAL AIRPORT (HKIA) APPROVED PLANT SPECIES LIST (Revision. 4.0.1; October 2015).



Slope Planting

BOTANICAL NAME	CHINESE NAME	SIZE (mm)	SPACING	
TREE		HEIGHT (H) X SPREAD (S)	(mm)	
Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD	4000	
Bischofia javanica *	秋楓	LIGHT STANDARD	5000	
Bridelia tomentosa *	土密樹	LIGHT STANDARD	3000	
Cassia fistula	2 T T T T T T T T T T T T T T T T T T T	LIGHT STANDARD	5000	
Cassia javanica	節果決明	LIGHT STANDARD	5000	
Castanopsis fissa *	裂斗錐栗	LIGHT STANDARD	5000-6000	
Chorisia speciosa	美人樹	LIGHT STANDARD	4000	
Cinnamomum camphora *	美人倒 樟	LIGHT STANDARD	6000	
Clerodendrum quadriloculare	煙火樹	LIGHT STANDARD	4000	
Cyclobalanopsis myrsinifolia *	小葉青岡	LIGHT STANDARD	4000	
Elaeocarpus balansae	大葉杜英	LIGHT STANDARD	3000	
Elaeocarpus chinensis *	7 - 40 - 1 - 40 - 1	LIGHT STANDARD	3000	
Elaeocarpus cninensis * Elaeocarpus sylvestris *	中華杜英	LIGHT STANDARD	3000	
	山杜英			
Dombeya wallichii	吊芙蓉	LIGHT STANDARD	4000	
Ficus altissima	高山榕	LIGHT STANDARD	5000	
Ficus microcarpa *	細葉榕	LIGHT STANDARD/ HEAVY STANDARD	5000	
llex rotunda var. microcarpa *	小果鐵冬青	LIGHT STANDARD	3000	
Jacaranda mimosifolia	藍花楹	LIGHT STANDARD	5000	
Koelreuteria spp.	複羽葉樂樹	LIGHT STANDARD	4000-5000	
Lagerstroemia indica	紫薇	LIGHT STANDARD	3000	
Lagerstroemia speciosa	大花紫薇	LIGHT STANDARD	4000	
Liquidambar formosana *	楓香	LIGHT STANDARD	5000-6000	
Machilus breviflora *	短序潤楠	LIGHT STANDARD	3000	
Machilus chekiangensis *	浙江潤楠	LIGHT STANDARD	3000-5000	
Magnolia grandiflora	荷花玉蘭	LIGHT STANDARD	4000	
Magnolia liliiflora	紫玉蘭	LIGHT STANDARD	3000	
Michelia chapensis *	樂昌含笑	LIGHT STANDARD	3000-6000	
Michelia maudiae *	深山含笑	LIGHT STANDARD	4000	
Pandanus tectorius *	林投樹	LIGHT STANDARD	4000	
Plumeria rubra	紅雞蛋花	2000mm (H) x 2000mm (S)	4000	
Polyspora axillaris *	大頭茶	LIGHT STANDARD	3000	
Pongamia pinnata *	水黄皮	LIGHT STANDARD	5000	
Prunus incisa	富士櫻	LIGHT STANDARD	3000	
Reevesia thyrsoidea *	梭羅樹	LIGHT STANDARD	3000-4000	
Sapium discolor *	山鳥桕	LIGHT STANDARD	5000	
Sapium sebiferum *	鳥桕	LIGHT STANDARD	3000	
Schefflera heptaphylla *	鵝掌柴	LIGHT STANDARD	3000-6000	
Schima superba *	木荷	LIGHT STANDARD	3000-5000	
Sterculia lanceolata *	假藉婆	LIGHT STANDARD	3000-4000	
Syzygium hancei *	韓氏蒲桃	LIGHT STANDARD	3000-5000	
Syzygium levinei *	山蒲桃	LIGHT STANDARD	3000-6000	
Tabebuia chrysantha	黄金風鈴木	LIGHT STANDARD	3000-4000	
Tabebula carysancha Tabebula rosea	紅花風鈴木	LIGHT STANDARD	4000	
Vernicia fordii		LIGHT STANDARD	5000	
vernicia jorali Viburnum odoratissimum *	油桐	LIGHT STANDARD	3000-6000	
	珊瑚樹		3000-6000	
Xanthostemon chrysanthus	金蒲桃	LIGHT STANDARD		
Yulania denudata	白玉蘭	LIGHT STANDARD	4000	
Yulania x soulangeana	二喬木蘭	LIGHT STANDARD	4000	

BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
PALM			
Bismarckia nobilis	霸王棕	Medium Palm 3m overall height	4000
Livistona chinensis	蒲葵	Medium Palm 1.5m & 2.5m(H) trunk	2000
Ravenala madagascariensis	旅人蕉	Medium Palm 2.5m(H) overall	2000
Roystonea regia	王棕	Large Palm 3m(H) trunk	3000

NOTE:

 ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.

- 2. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.
- 3. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.



9th Monthly Environmental Monitoring and Audit (EM&A) Report – February 2023

Appendix J

Cumulative Statistics of Complaint, Summon and Prosecution





Table J-1 Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics						
Reporting Period	E	Compalations		Complaint Nature			
	Frequency	Cumulative	Air	Noise	Water	Others	
February 2023	0	0	NA	NA	NA	NA	
Cumulative since							
contract	0	0	NA	NA	NA	NA	
commencement							

Table J-2 Statistical Summary of Environmental Summons

	Environmental Summons Statistics				
Reporting Period	E Cl-4	Cla4!	C L.: Co		ure
	Frequency	Cumulative	Air	Noise	Water
February 2023	0	0	NA	NA	NA
Cumulative since contract commencement	0	0	NA	NA	NA

Table J-3 Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics				
Reporting Period	E C 1	C1-4:	C L. C		ure
	Frequency	Cumulative	Air	Noise	Water
February 2023	0	0	NA	NA	NA
Cumulative since contract commencement	0	0	NA	NA	NA