



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

29TH MONTHLY ENVIRONMENTAL MONITORING AND
AUDIT (EM&A) REPORT– OCTOBER 2024

PREPARED FOR
WING HO YUEN LANDSCAPING CO., LTD

Date	Reference No.	Prepared By	Certified By
18 November 2024	TCS01230/21/600/R0168v1	 Martin Li (Environmental Consultant)	 Ben Tam (Environmental Team Leader)

Version	Date	Remarks
1	18 November 2024	First Submission

Our Ref: TCS01230/21/300/L0169

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

Attn: Mr. Joe Chan

18 November 2024
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
29th Monthly Environmental Monitoring and Audit (EM&A) Report – October 2024

We write to certify the 29th Monthly Environmental Monitoring and Audit (EM&A) Report – October 2024 (TCS01230/21/600/R0168v1) 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	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: HKHYD203/50/110145

Date: 20 November 2024

Attention: Mr William Wong

BY EMAIL & POST
(email: se1hklr.mw@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
29th Monthly Environmental Monitoring and Audit Report – October 2024

We refer to the email of 19 November 2024, attaching a Monthly Environmental Monitoring and Audit Report – October 2024, 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 Alex Chan on 2618 2831.

Yours faithfully
ANEWR CONSULTING LIMITED

James Choi
Independent Environmental Checker

CPSJ/LCCR/CYCA/thy

cc Highway Department – Mr Nick Li (email: e10.mwsd@hyd.gov.hk)
Highways Department – Ms Sarah Cai (email: e2tcl.mw@hyd.gov.hk)
AEUS – Mr Ben Tam (email: bentam@fordbusiness.com)

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EXECUTIVE SUMMARY

ES01 This is the 29th Monthly EM&A Report presenting the monitoring results and inspection findings for the period from 1 to 31 October 2024 (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 event

ES03 According to the approved Landscape and Visual plan, the planting works under the contract was commenced on 21 June 2022 and completed on 15 December 2022.

ES04 The two years Establishment Period for the compensation planting areas (Tuen Mun and Lantau) outside the TMCLKL Project site was commenced on 16 December 2022. According to the EM&A manual requirement, once per three months inspection should be conducted during the Establishment Period to monitor the compensation trees health condition. No establishment 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.

Reporting Period	Environmental Complaint Statistics	
	Frequency	Cumulative
Since the Contract commencement	0	0
October 2024	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 29th monthly EM&A report presenting the inspection findings for period from **1 to 31 October 2024**.

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

Contract Area	Establishment Monitoring Commenced	Respond Party	Next Quarter of Establishment 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)	16 December 2022	HY/2021/13	16 September to 15 December 2024 (8 th Quarter)
Tung Chung (Portion B)			
Penny's Bay (Portion C)			

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

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 (light standard to heavy standard size)
HY/2013/12		1109	
HY/2017/10		2997	
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	At least 33 ha
HY/2013/12		5.3	
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

Reporting Period	Environmental Complaint Statistics					
	Frequency	Cumulative	Complaint Nature			
			Air	Noise	Water	Others
October 2024	0	0	NA	NA	NA	NA

Table 4-2 Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics				
	Frequency	Cumulative	Complaint Nature		
			Air	Noise	Water
October 2024	0	0	NA	NA	NA

Table 4-3 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics				
	Frequency	Cumulative	Complaint Nature		
			Air	Noise	Water
October 2024	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

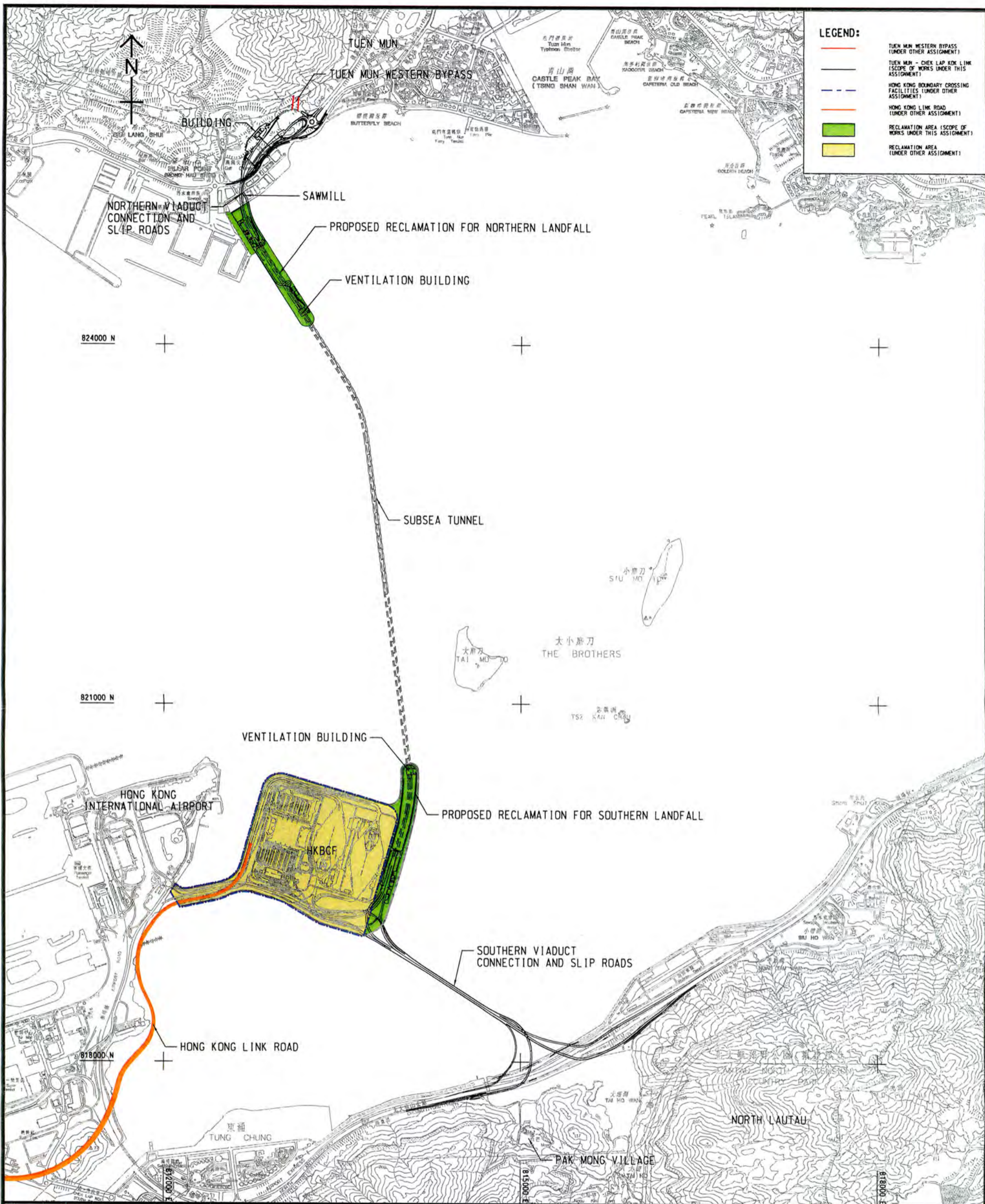
- 5.1.1 This is 29th monthly EM&A report presenting the inspection findings for the period of 1 to 31 October 2024.
- 5.1.2 The planting works for the Contract No. HY/2021/13 was commenced on 21 June 2022.
- 5.1.3 In the Reporting Period, no complaint was received by RE, the Contractor, ENPO or HyD.
- 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: 屯門至赤鱗角連接路

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

PROJECT

TUEN MUN - CHEK LAP KOK LINK

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

CLIENT



CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
1	2021-11-13	ISSUE FOR TENDER	CWN
2	2021-11-13	ISSUE FOR TENDER	CWN
3	2021-11-13	ISSUE FOR TENDER	CWN
4	2021-11-13	ISSUE FOR TENDER	CWN
5	2021-11-13	ISSUE FOR TENDER	CWN
6	2021-11-13	ISSUE FOR TENDER	CWN
7	2021-11-13	ISSUE FOR TENDER	CWN
8	2021-11-13	ISSUE FOR TENDER	CWN
9	2021-11-13	ISSUE FOR TENDER	CWN
10	2021-11-13	ISSUE FOR TENDER	CWN

STATUS

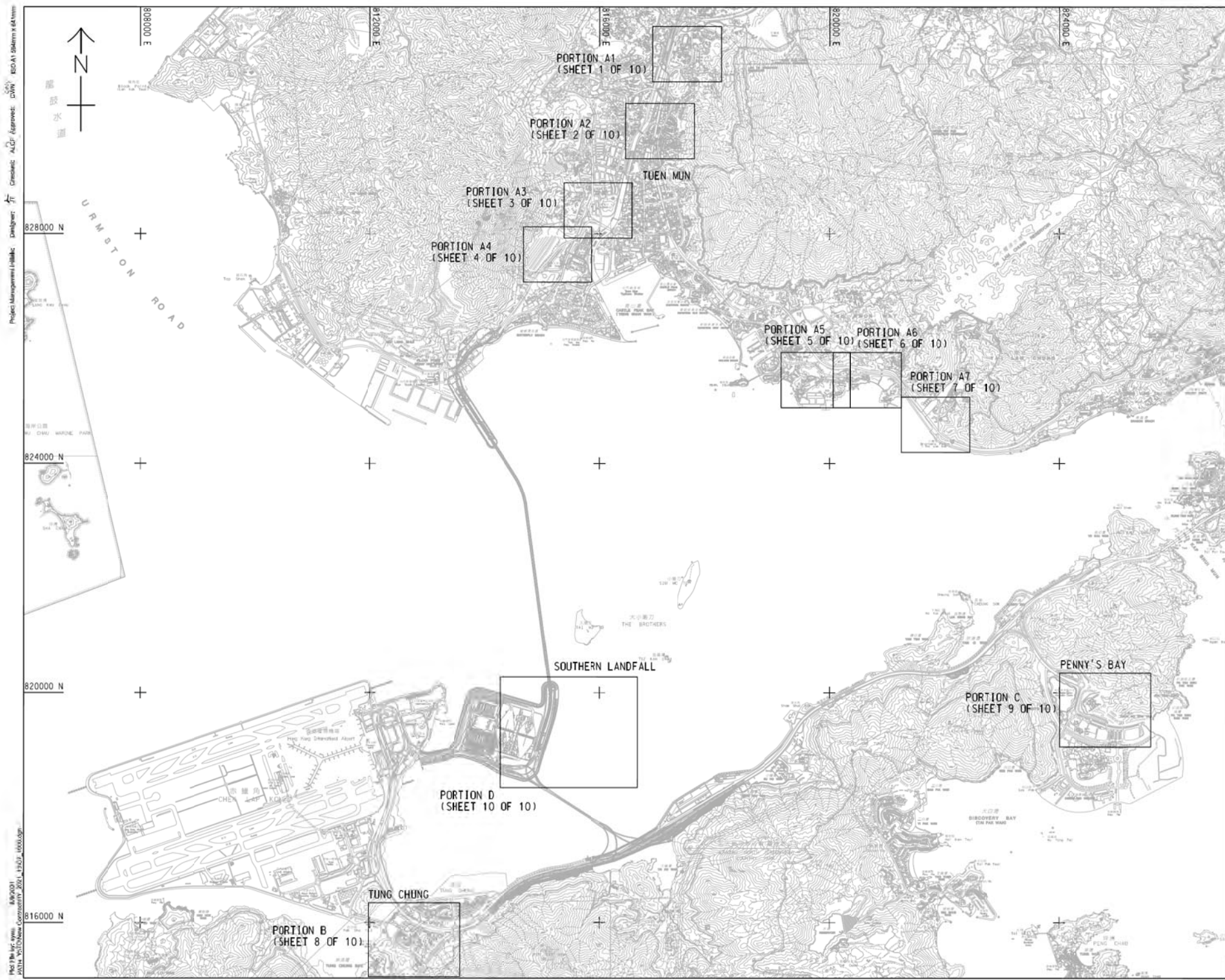
SCALE: 1:30000 DIMENSION UNIT: METERS

KEY PLAN

PROJECT NO.: B0240249 CONTRACT NO.: HY/2021/13

SHEET TITLE: LOCATION PLAN AND KEY PLAN

SHEET NUMBER: B0240249/C7/1000

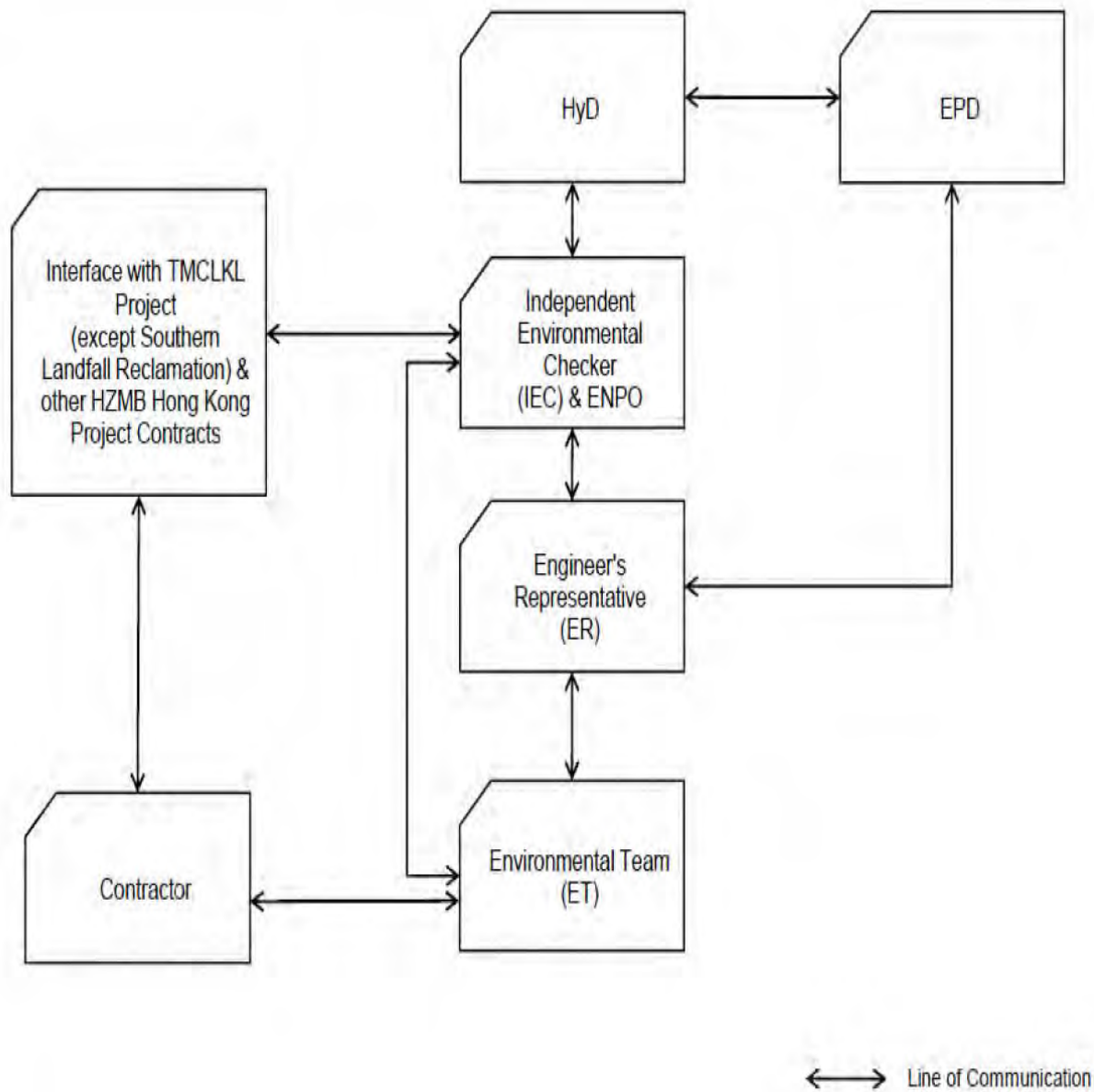


Project Management (Title): Designer: EC/01/2021/13/01/1000/0001
 Consultant: AECOM
 Client: HIGHWAYS DEPARTMENT
 Major Works Project Management Office (Special Duties)
 AECOM Asia Company Ltd.
 www.aecom.com
 Project No.: B0240249
 Contract No.: HY/2021/13
 Sheet Title: LOCATION PLAN AND KEY PLAN
 Sheet Number: B0240249/C7/1000

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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	Resident Engineer	Mr. Joe Chan	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 LEVEL	ACTION			
	ET	IEC	ER	Contractor
Design Check	<ul style="list-style-type: none"> Check final design conforms to the requirements of EP and prepare report. 	<ul style="list-style-type: none"> Check report. Recommend remedial design if necessary 	<ul style="list-style-type: none"> Undertake remedial design if necessary 	
Non- conformity on one occasion	<ul style="list-style-type: none"> Identify Source Inform IEC and ER Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Notify Contractor Ensure remedial measures are properly implemented 	<ul style="list-style-type: none"> Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non-conformity	<ul style="list-style-type: none"> 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 style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Notify Contractor Ensure remedial measures are properly implemented 	<ul style="list-style-type: none"> 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		Portion A Tuen Mun Area	Portion B Tung Chung Area	Portion C Penny's Bay Area
Tue	1-October-24			
Wed	2-October-24			
Thu	3-October-24			
Fri	4-October-24			
Sat	5-October-24			
Sun	6-October-24			
Mon	7-October-24			
Tue	8-October-24			
Wed	9-October-24			
Thu	10-October-24			
Fri	11-October-24			
Sat	12-October-24			
Sun	13-October-24			
Mon	14-October-24			
Tue	15-October-24			
Wed	16-October-24			
Thu	17-October-24			
Fri	18-October-24			
Sat	19-October-24			
Sun	20-October-24			
Mon	21-October-24			
Tue	22-October-24			
Wed	23-October-24			
Thu	24-October-24			
Fri	25-October-24			
Sat	26-October-24			
Sun	27-October-24			
Mon	28-October-24			
Tue	29-October-24			
Wed	30-October-24			
Thu	31-October-24			

✓	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
Fri	1-November-24			
Sat	2-November-24			
Sun	3-November-24			
Mon	4-November-24			
Tue	5-November-24			
Wed	6-November-24			
Thu	7-November-24			
Fri	8-November-24			
Sat	9-November-24			
Sun	10-November-24			
Mon	11-November-24			
Tue	12-November-24			
Wed	13-November-24			
Thu	14-November-24			
Fri	15-November-24			
Sat	16-November-24			
Sun	17-November-24			
Mon	18-November-24			
Tue	19-November-24			
Wed	20-November-24			
Thu	21-November-24			
Fri	22-November-24			
Sat	23-November-24			
Sun	24-November-24			
Mon	25-November-24			
Tue	26-November-24			
Wed	27-November-24			
Thu	28-November-24			
Fri	29-November-24			
Sat	30-November-24			

✓	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**

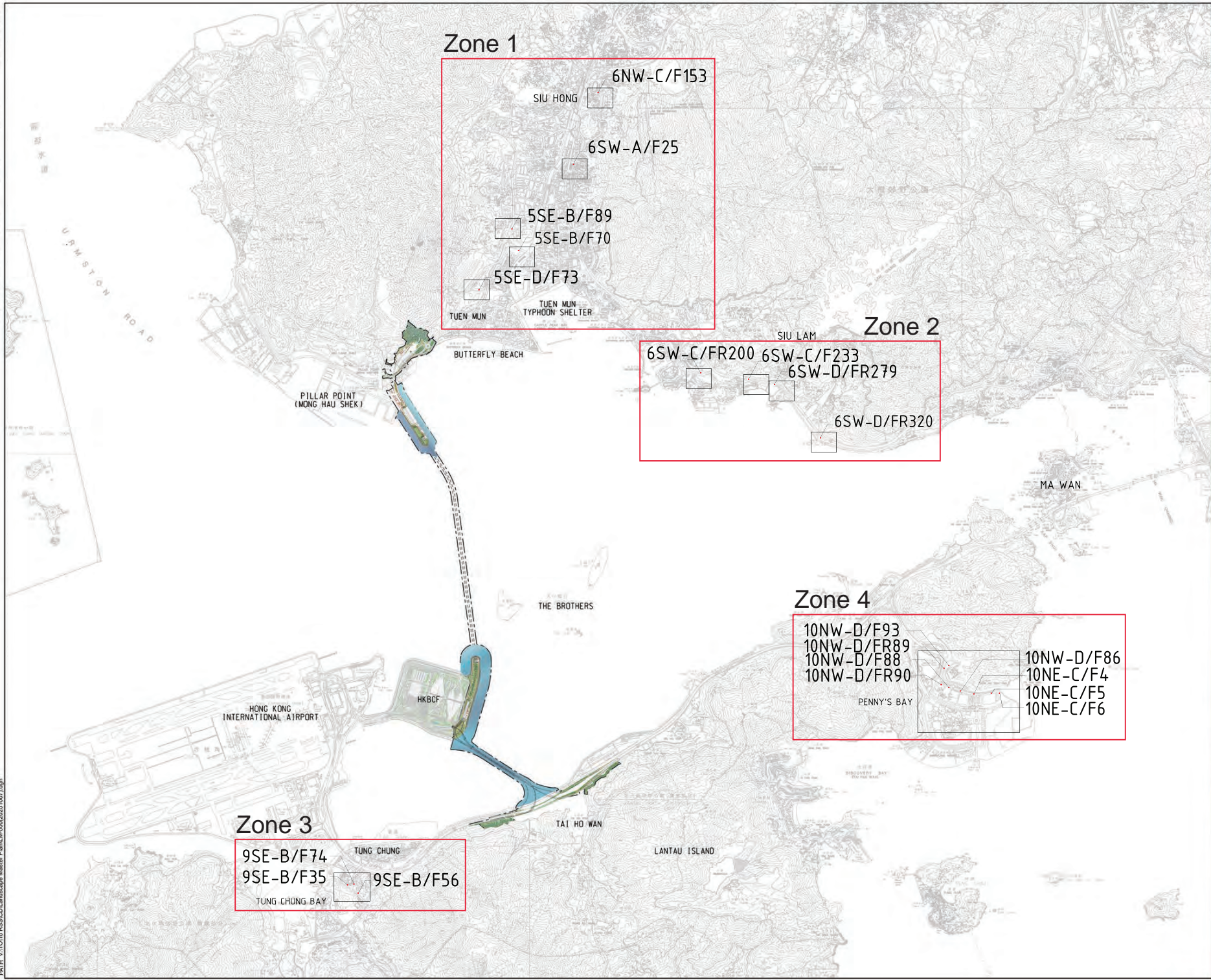
Landscape and Visual								
EIA reference	EM&A Manual reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		
						D	C	O
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed 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



Zone 1

- 6NW-C/F153
- SIU HONG
- 6SW-A/F25
- 5SE-B/F89
- 5SE-B/F70
- 5SE-D/F73
- TUEN MUN TYPHOON SHELTER

Zone 2

- 6SW-C/FR200
- 6SW-C/F233
- 6SW-D/FR279
- 6SW-D/FR320

Zone 4

- 10NW-D/F93
- 10NW-D/FR89
- 10NW-D/F88
- 10NW-D/FR90
- 10NW-D/F86
- 10NE-C/F4
- 10NE-C/F5
- 10NE-C/F6

Zone 3

- 9SE-B/F74
- 9SE-B/F35
- 9SE-B/F56
- TUNG CHUNG
- TUNG CHUNG BAY

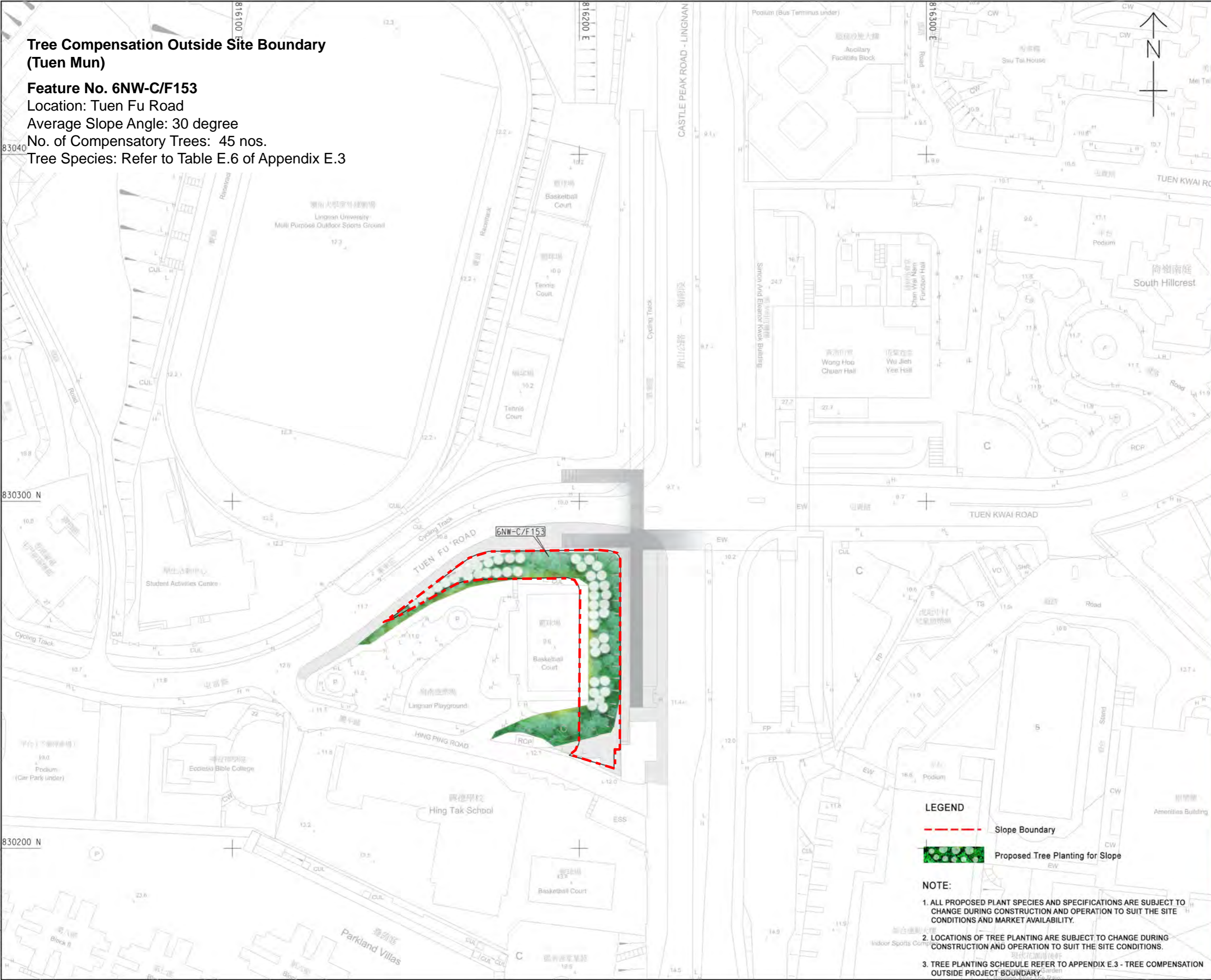
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Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 6NW-C/F153
 Location: Tuen Fu Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 45 nos.
 Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.



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KEY PLAN



PROJECT NO. CONTRACT NO.

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

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Tree Compensation Outside Site Boundary (Tuen Mun)

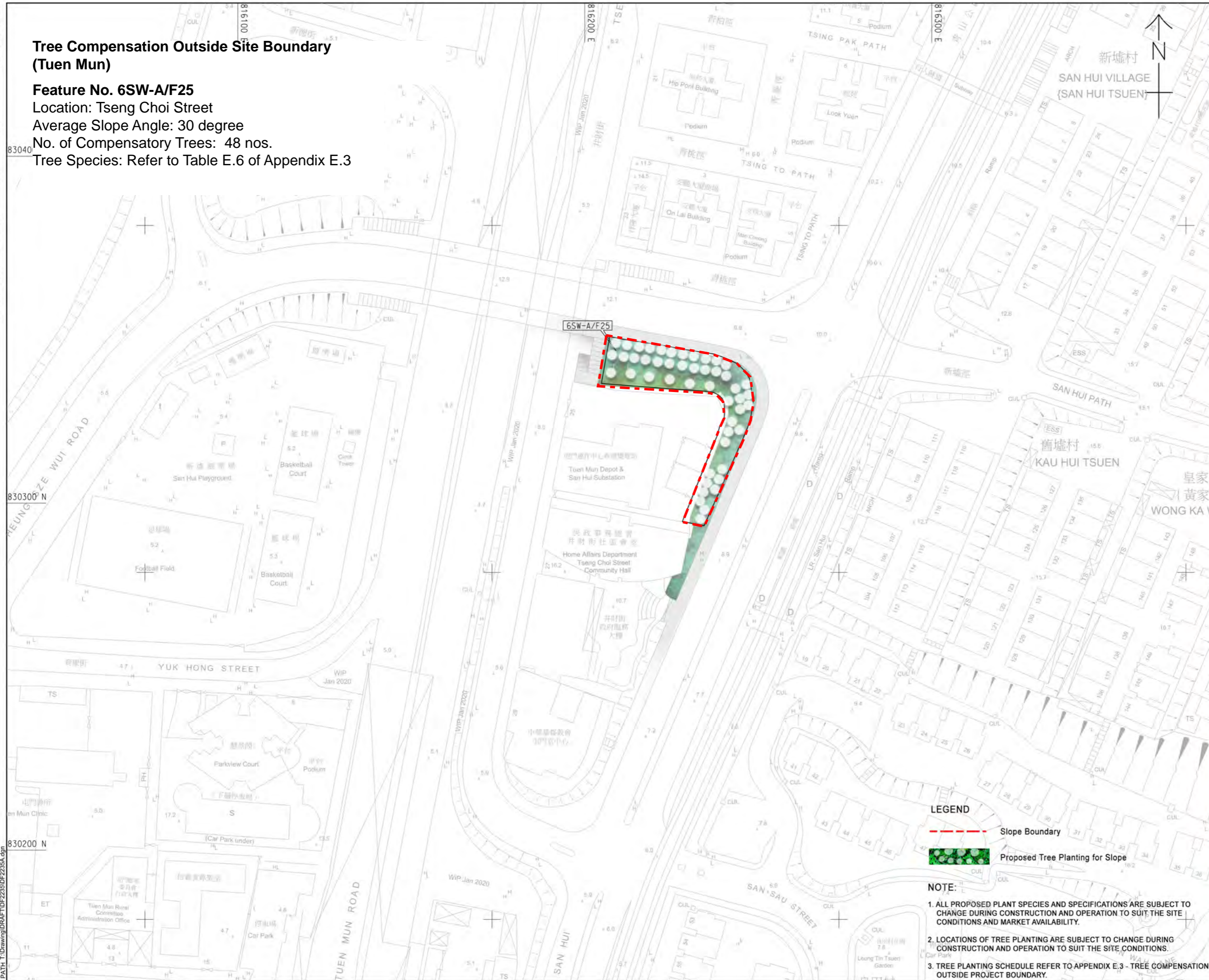
Feature No. 6SW-A/F25

Location: Tseng Choi Street

Average Slope Angle: 30 degree

No. of Compensatory Trees: 48 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.



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KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

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Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No.5SE-B/F89
 Location: Tsing Wan Road
 Average Slope Angle: 35 degree
 No. of Compensatory Trees: 30 nos.
 Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.



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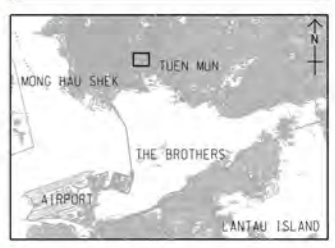
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Tree Compensation Outside Site Boundary (Tuen Mun)

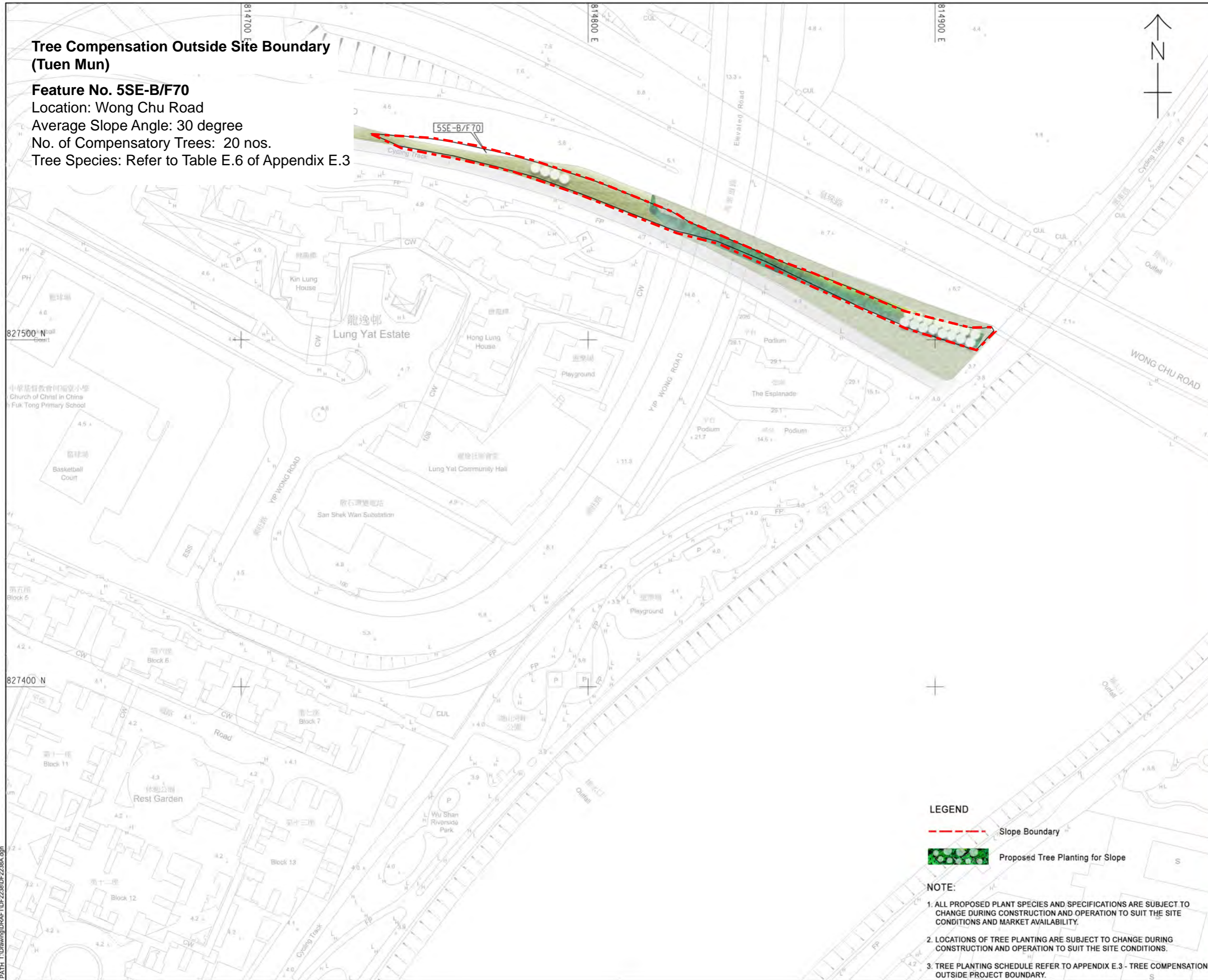
Feature No. 5SE-B/F70

Location: Wong Chu Road

Average Slope Angle: 30 degree

No. of Compensatory Trees: 20 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



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PROJECT NO. CONTRACT NO.

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SHEET TITLE

TREE COMPENSATION OUTSIDE
 PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

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LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope

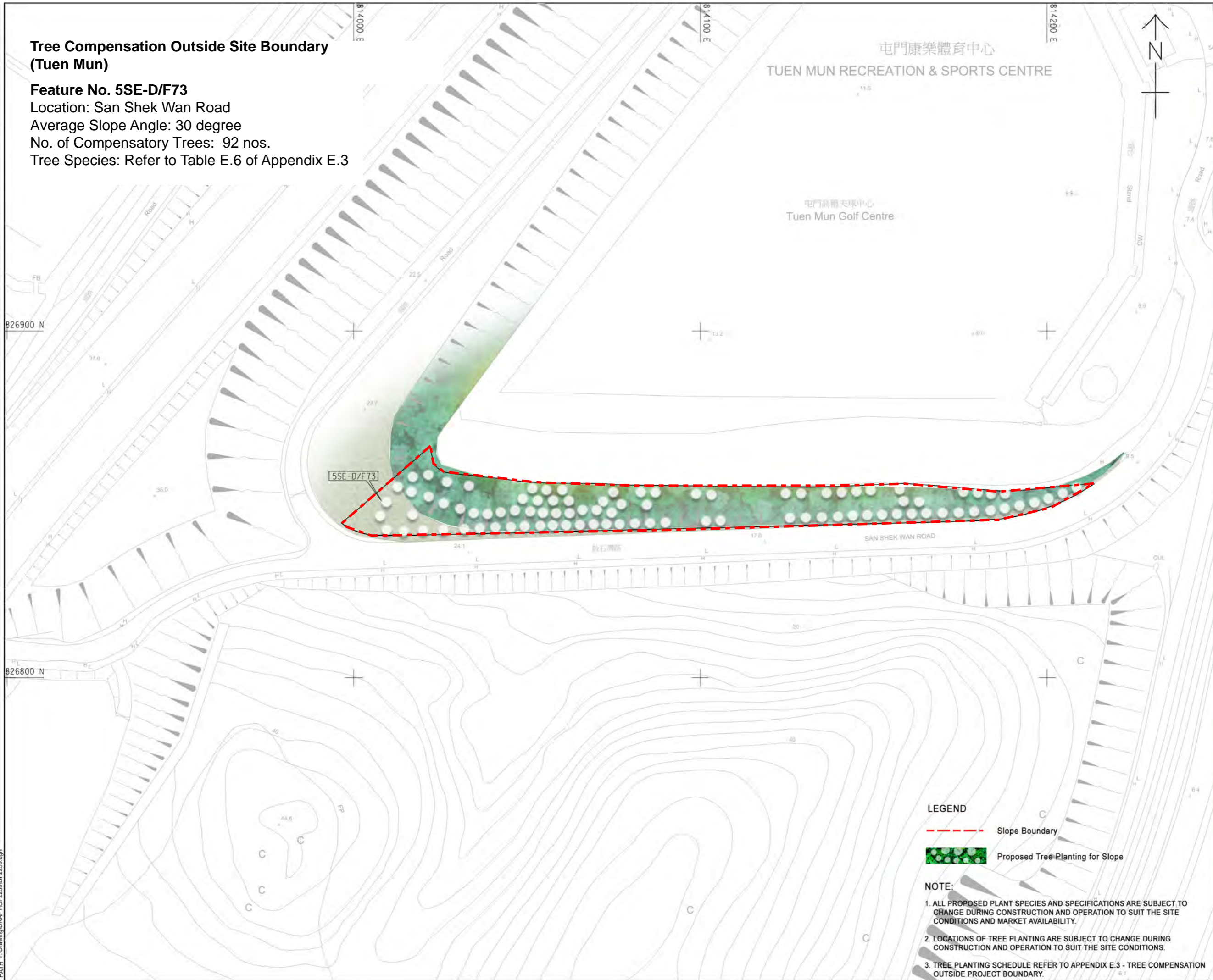
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1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 5SE-D/F73
 Location: San Shek Wan Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 92 nos.
 Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.



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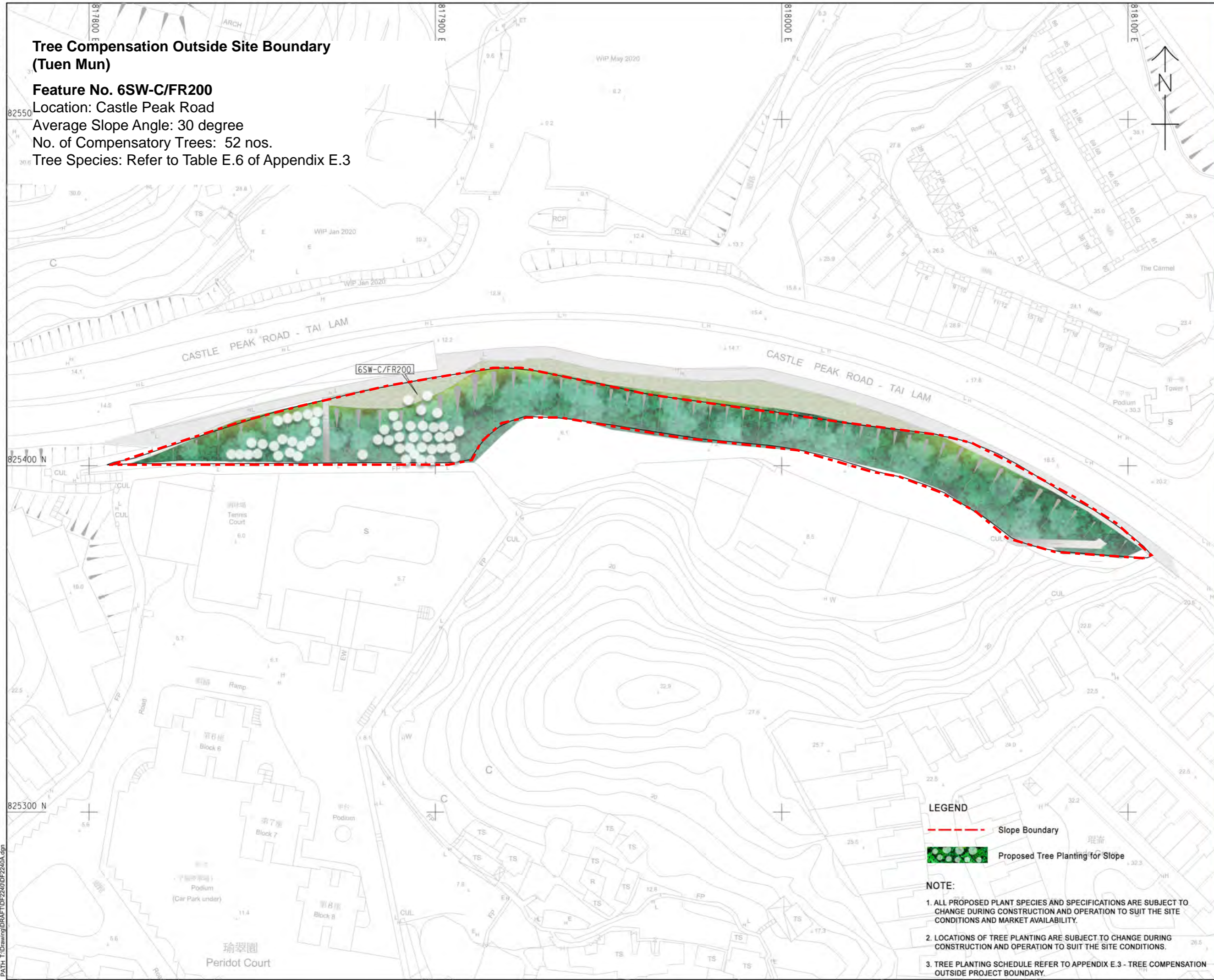
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Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 6SW-C/FR200
 Location: Castle Peak Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 52 nos.
 Tree Species: Refer to Table E.6 of Appendix E.3



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PROJECT NO.
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CONTRACT NO.

SHEET TITLE
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 PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER
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- LEGEND**
- Slope Boundary
 - Proposed Tree Planting for Slope

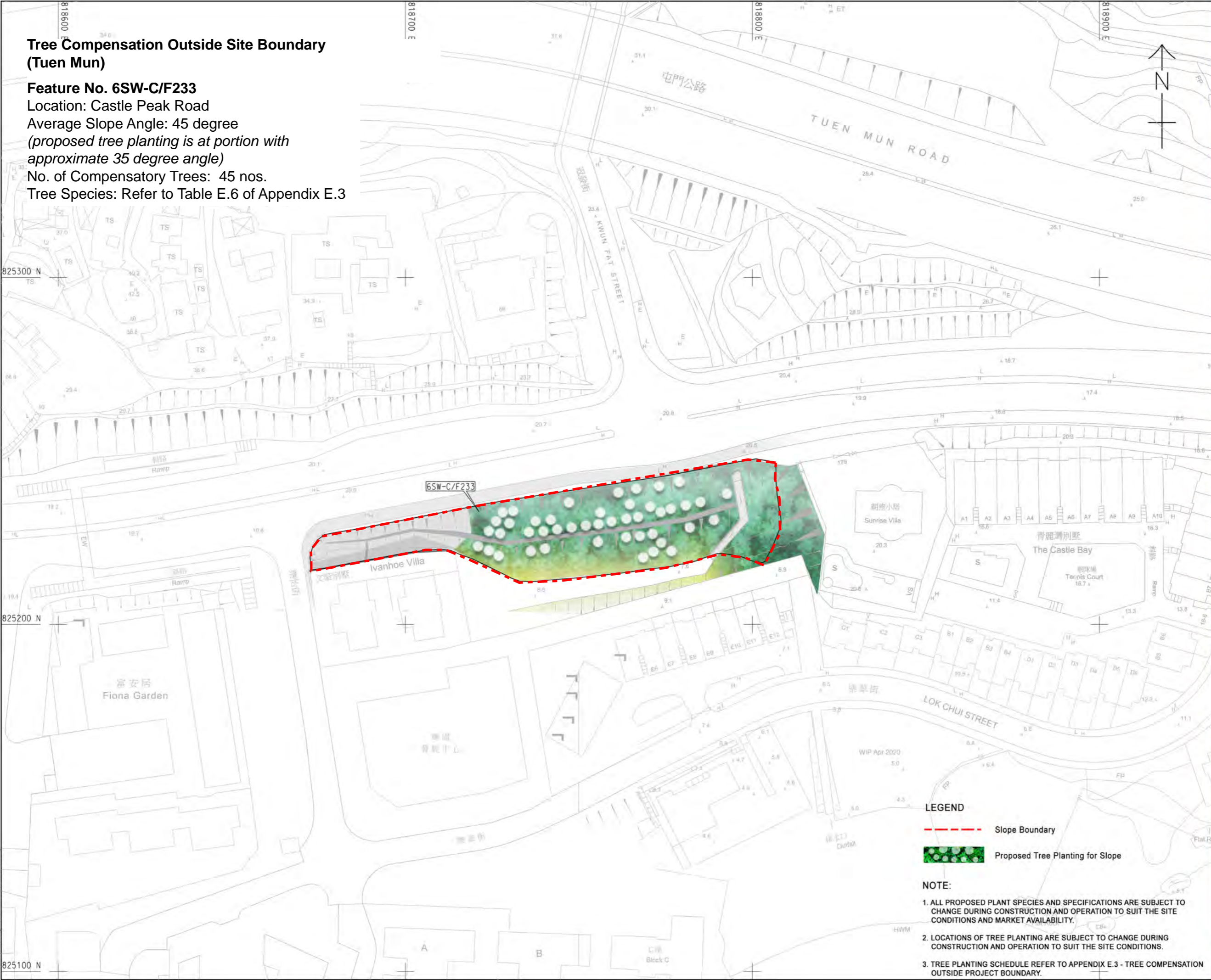
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- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 6SW-C/F233
 Location: Castle Peak Road
 Average Slope Angle: 45 degree
 (proposed tree planting is at portion with approximate 35 degree angle)
 No. of Compensatory Trees: 45 nos.
 Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope

- NOTE:**
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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PROJECT NO. 項目編號 60240249	CONTRACT NO. 合約編號
SHEET TITLE 圖紙名稱 TREE COMPENSATION OUTSIDE PROJECT BOUNDARY - TUEN MUN	
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Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 6SW-D/FR279
 Location: Castle Peak Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 20 nos.
 Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope

- NOTE:**
1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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STATUS

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DIMENSION UNIT
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PROJECT NO.
 60240249

CONTRACT NO.
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SHEET TITLE
 TREE COMPENSATION OUTSIDE
 PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER
 TMCLKL/LM/060

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Designer:
Project Management Initials:

Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 6SW-D/FR320

Location: Castle Peak Road
Average Slope Angle: 26 degree
No. of Compensatory Trees: 31 nos.
Tree Species: Refer to Table E.6 of Appendix E.3



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A	MAR 21	SLOPES UPDATE	CL

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A1 : 500

KEY PLAN



PROJECT NO. **CONTRACT NO.**

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

TMCLKL/LM/061

LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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Tree Compensation Outside Site Boundary (Penny's Bay)

Feature No. 10NW-D/FR89

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 101 nos.
 Tree Species: Refer to Table E.5 of Appendix E.3

Feature No. 10NW-D/F93

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 39 nos.
 Tree Species: Refer to Table E.5 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

- NOTE:**
1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION

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DIMENSION UNIT
公尺/米

KEY PLAN
索引圖



PROJECT NO.
60240249

CONTRACT NO.
合約編號

SHEET TITLE
TREE COMPENSATION OUTSIDE PROJECT BOUNDARY - PENNY'S BAY

SHEET NUMBER
TMCLKL/LM/062

ISCA1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:
 Plot File for: BTCTEMP_11112020
 PATH: T:\Drawing\URAF\TDF\248\DF\248.dgn

Tree Compensation Outside Site Boundary (Penny's Bay)

Feature No. 10NW-D/F88

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 39 nos.
 Tree Species: Refer to Table E.5 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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PROJECT

**TUEN MUN -
 CHEK LAP KOK LINK
 DESIGN AND
 CONSTRUCTION**

CLIENT

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B	AUG 24	SLOPES UPDATE	EC
A	MAR 21	SLOPES UPDATE	CL

STATUS

SCALE DIMENSION UNIT

A1 1 : 500

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

SHEET TITLE

**TREE COMPENSATION OUTSIDE
 PROJECT BOUNDARY
 - PENNY'S BAY**

SHEET NUMBER

TMCLKL/LM/063

Tree Compensation Outside Site Boundary (Penny's Bay)

Feature No. 10NW-D/FR90

Location: Penny's Bay

Average Slope Angle: 27 degree

No. of Compensatory Trees: 58 nos.

Tree Species: Refer to Table E.5 of Appendix E.3



LEGEND

-  Slope Boundary
-  Proposed Tree Planting for Slope
-  Existing Tree on Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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DIMENSION UNIT

公尺單位

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER

TMCLK/LM/064

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 Designer:
 Project Management Initials:
 Plot File by: RTOCTEMP 11/12/2020
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Tree Compensation Outside Site Boundary (Penny's Bay)

Feature No. 10NW-D/FR86
 Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 51 nos.
 Tree Species: Refer to Table E.5 of Appendix E.3

LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.



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SCALE **DIMENSION UNIT**
 1:500 公尺/毫米

KEY PLAN



PROJECT NO. **CONTRACT NO.**
 60240249

SHEET TITLE
 TREE COMPENSATION OUTSIDE
 PROJECT BOUNDARY
 - PENNY'S BAY

SHEET NUMBER

TMCLKL/LM/065

ISO A1 594mm x 841mm
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Checked:
Designer:
Project Management Initials:
Plot File by: RTOCTEMP_11/12/2020
PATH: T:\Drawing\DRIFT\DF2251\DF2251.dgn

**Tree Compensation Outside Site Boundary
(Penny's Bay)**

Feature No. 10NE-C/F4

Location: Penny's Bay

Average Slope Angle: 27 degree

No. of Compensatory Trees: 41 nos.

Tree Species: Refer to Table E.5 of appendix E.3

819900 N

819800 N

819700 N



LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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DIMENSION UNIT 公尺/呎



PROJECT NO. 60240249
CONTRACT NO.

SHEET TITLE
TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER
TMCLKL/LM/066

ISO A1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:

**Tree Compensation Outside Site Boundary
 (Penny's Bay)**

Feature No. 10NE-C/F5

Location: Penny's Bay

Average Slope Angle: 27 degree

No. of Compensatory Trees: 46 nos.

Tree Species: Refer to Table E.5 of appendix E.3



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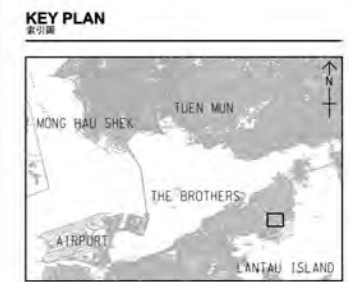
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A	MAR 21	SLOPES UPDATE	CL

STATUS

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DIMENSION UNIT
 公尺/米



- LEGEND**
-  Slope Boundary
 -  Proposed Tree Planting for Slope
 -  Existing Tree on Slope

- NOTE:**
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

PROJECT NO.
 60240249

CONTRACT NO.
 60240249

SHEET TITLE
 TREE COMPENSATION OUTSIDE
 PROJECT BOUNDARY
 - PENNY'S BAY

SHEET NUMBER
 TMCKL/LM/067

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Checked:
Designer:
Project Management Initials:

Tree Compensation Outside Site Boundary (Penny's Bay)

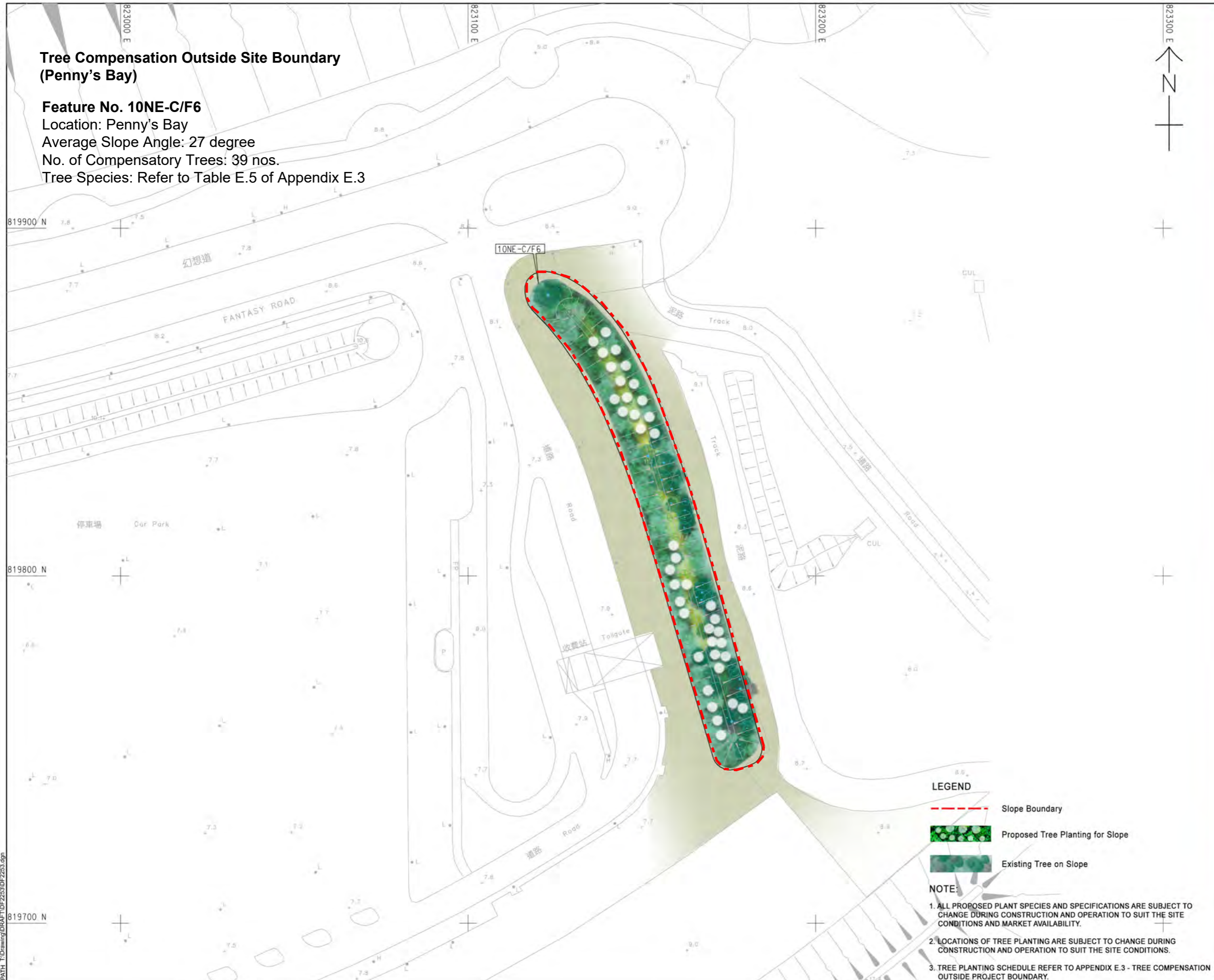
Feature No. 10NE-C/F6

Location: Penny's Bay

Average Slope Angle: 27 degree

No. of Compensatory Trees: 39 nos.

Tree Species: Refer to Table E.5 of Appendix E.3



LEGEND

-  Slope Boundary
-  Proposed Tree Planting for Slope
-  Existing Tree on Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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PROJECT NO. CONTRACT NO.

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER

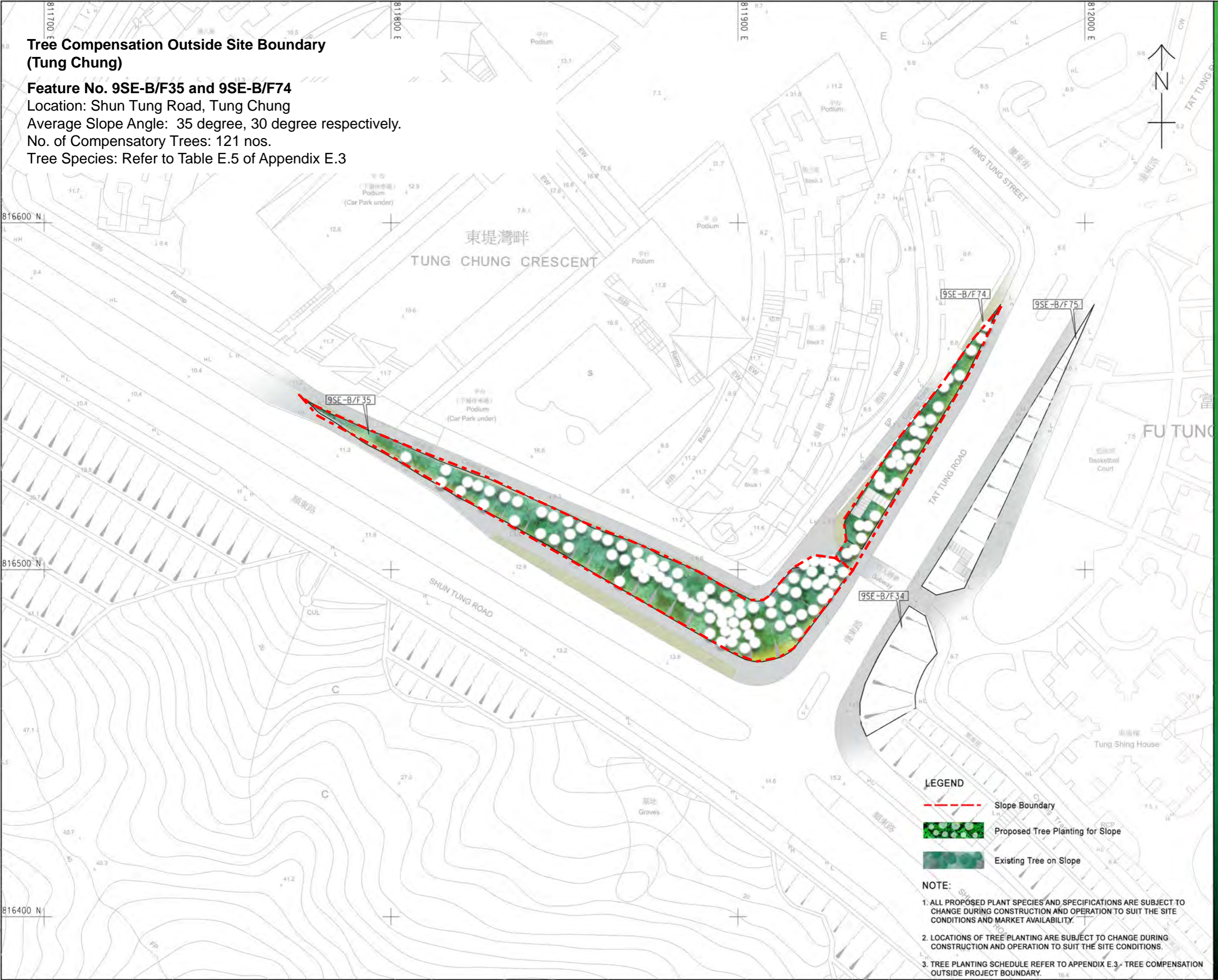
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 Designer:
 Project Management Initials:
 15/Mar/2021
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Tree Compensation Outside Site Boundary (Tung Chung)

Feature No. 9SE-B/F35 and 9SE-B/F74

Location: Shun Tung Road, Tung Chung
 Average Slope Angle: 35 degree, 30 degree respectively.
 No. of Compensatory Trees: 121 nos.
 Tree Species: Refer to Table E.5 of Appendix E.3



LEGEND

- - - Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

- NOTE:**
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

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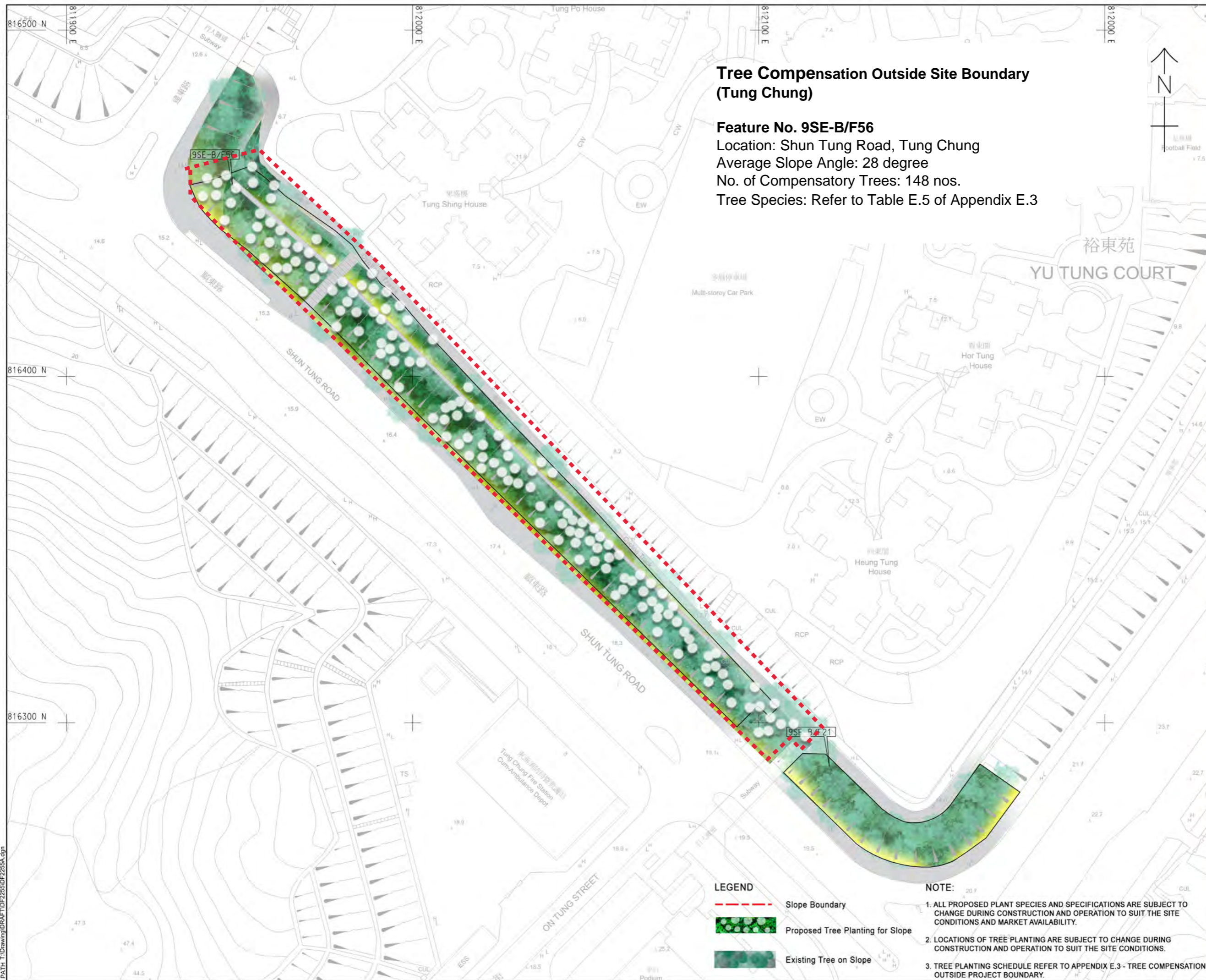
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SHEET TITLE
TREE COMPENSATION OUTSIDE PROJECT BOUNDARY - TUNG CHUNG

SHEET NUMBER
TMCLKL/LM/069

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 Approved:
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 Designer:
 Project Management Initials:

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 15/Mar/2021



Tree Compensation Outside Site Boundary (Tung Chung)

Feature No. 9SE-B/F56
 Location: Shun Tung Road, Tung Chung
 Average Slope Angle: 28 degree
 No. of Compensatory Trees: 148 nos.
 Tree Species: Refer to Table E.5 of Appendix E.3



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PROJECT NO.
 60240249

CONTRACT NO.

SHEET TITLE
 TREE COMPENSATION OUTSIDE
 PROJECT BOUNDARY
 - TUNG CHUNG

SHEET NUMBER
 TMCLKL/LM/070

LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

- NOTE:**
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

Appendix H

Checklist for Landscape and Visual Monitoring

(No inspection was undertaken in this reporting period)

Appendix I

Tree Planting Schedule for TM-CLKL Project

Tuen Mun - Chek Lap Kok Link
 Agreement No. CE 7/2011 (HY)
 Tree Compensation Outside Project Boundary - Tree Planting Schedule

Location of Slopes Outside Project Boundary: North Lantau (Tung Chung, Penny's Bay)

Feature No. 95E-B/F56

Location: Shun Tung Road, Tung Chung
 Average Slope Angle: 28 degree
 No. of Compensatory Trees: 148

Feature No. 95E-B/F35 and 95E-B/F74

Location: Shun Tung Road, Tung Chung
 Average Slope Angle: 35 degree, 30 degree respectively.
 No. of Compensatory Trees: 121

Feature No. 10NW-D/F93

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 39

Feature No. 10NE-C/F6

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 39

Feature No. 10NE-C/F5

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 46

Feature No. 10NE-C/F4

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 41

Feature No. 10NW-D/F86

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 51

Feature No. 10NW-D/F88

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 39

Feature No. 10NW-D/F89

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 101

Feature No. 10NW-D/F90

Location: Penny's Bay
 Average Slope Angle: 27 degree
 No. of Compensatory Trees: 58

Tung Chung, Penny's Bay: 683 nos.

Tree Species Schedule - Tung Chung

Botanical Name	Chinese Name	Size	Spacing (Approximate mm)	Remarks
<i>Bischofia javanica</i>	秋楓	Light Standard	3000-5000	native tree mix
<i>Elaeocarpus balansae</i>	大葉杜英	Light Standard	3000-4000	exotic tree mix
<i>Elaeocarpus chinensis</i>	中華杜英	Light Standard	3000-4000	native tree mix
<i>Ilex rotunda</i> var. <i>microcarpa</i>	小果鐵冬青	Light Standard	3000-4000	native tree mix
<i>Lagerstroemia indica</i>	紫薇	Light Standard	3000-4000	exotic - flowering tree
<i>Lagerstroemia speciosa</i>	大花紫薇	Light Standard	3000-4000	exotic - front row flowering tree
<i>Liquidambar formosana</i>	楓香	Light Standard	5000-6000	native tree mix
<i>Machilus breviflora</i>	短序潤楠	Light Standard	3000-4000	native tree mix
<i>Machilus chekiangensis</i>	浙江潤楠	Light Standard	3000-5000	native tree mix
<i>Michelia chapensis</i>	樂昌含笑	Light Standard	3000-6000	native tree mix
<i>Prunus</i> spp.	櫻	Light Standard	3000-4000	exotic - front row flowering tree
<i>Reevesia thyrsoidea</i>	梭羅樹	Light Standard	3000-4000	native tree mix
<i>Sapium sebiferum</i>	烏柏	Light Standard	3000-4000	native tree mix
<i>Schima superba</i>	木荷	Light Standard	3000-5000	native tree mix/ avenue tree
<i>Sterculia lanceolata</i>	假蘋婆	Light Standard	3000-4000	native tree mix
<i>Syzygium hancei</i>	韓氏蒲桃	Light Standard	3000-5000	native tree mix
<i>Tabebuia chrysantha</i>	黃金風鈴木	Light Standard	3000-4000	exotic - front row flowering tree
<i>Viburnum odoratissimum</i>	珊瑚樹	Light Standard	3000-4000	native tree mix
			Tung Chung Total Quantity:	269 nos.

NOTE:

- The Tree Species Schedule is a tentative list which has been advised by HyD/Landscape Division. Tree species will be selected from the Tree Species Schedule.
- All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction and operation to suit the site conditions and market availability.
- Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.
- Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tung Chung and Penny's Bay Area.

Tree Species Schedule - Penny's Bay

Botanical Name	Chinese Name	Size	Spacing (Approximate mm)	Remarks
<i>Bauhinia variegata</i>	宮粉羊蹄甲	Light Standard	4000-5000	exotic
<i>Bischofia javanica</i>	秋楓	Light Standard	4000-5000	native
<i>Bismarckia nobilis</i>	霸王棕	Medium Palm 3m overall height	4000-5000	exotic
<i>Cassia javanica</i>	節果決明	Light Standard	4000-5000	exotic
<i>Castanopsis fissa</i>	裂斗錐栗	Light Standard	4000-5000	native
<i>Chorisia speciosa</i>	美人樹	Light Standard	4000-5000	exotic
<i>Clerodendrum quadriloculare</i>	煙火樹	Light Standard	4000-5000	exotic
<i>Cyclobalanopsis myrsinifolia</i>	小葉青岡	Light Standard	4000-5000	native
<i>Dombeya wallichii</i>	吊芙蓉	Light Standard	4000-5000	exotic
<i>Ficus altissima</i>	高山榕	Light Standard	4000-5000	exotic
<i>Ficus microcarpa</i>	細葉榕	Light Standard	5000	native
<i>Ilex rotunda</i> var. <i>microcarpa</i>	小果鐵冬青	Light Standard	3000-4000	native
<i>Jacaranda mimosifolia</i>	藍花楸	Light Standard	4000-5000	exotic
<i>Koelreuteria</i> spp.	複羽葉欒樹	Light Standard	4000-5000	exotic
<i>Lagerstroemia indica</i>	紫薇	Light Standard	4000-5000	exotic
<i>Lagerstroemia speciosa</i>	大花紫薇	Light Standard	4000-5000	exotic
<i>Livistona chinensis</i>	蒲葵	Medium Palm 1.5m(H) trunk	2000-3000	exotic
<i>Livistona chinensis</i>	蒲葵	Medium Palm 2.5m(H) trunk	2000-3000	exotic
<i>Magnolia grandiflora</i>	荷花玉蘭	Light Standard	4000-5000	exotic
<i>Magnolia liliiflora</i>	紫玉蘭	Light Standard	4000-5000	exotic
<i>Michelia maudiae</i>	深山含笑	Light Standard	4000-5000	native
<i>Pandanus tectorius</i>	林投樹	Light Standard	4000-5000	native
<i>Plumeria rubra</i>	紅雞蛋花	2000mm (H) x 2000mm (S)	4000-5000	exotic
<i>Prunus</i> spp.	櫻	Light Standard	4000-5000	exotic
<i>Ravenala madagascariensis</i>	旅人蕉	Medium Palm 2.5m(H) overall	2000-3000	exotic
<i>Reevesia thyrsoidea</i>	梭羅樹	Light Standard	4000-5000	native
<i>Roystonea regia</i>	王棕	Large Palm 3m(H) trunk	3000-4000	exotic
<i>Sapium discolor</i>	山烏柏	Light Standard	4000-5000	native
<i>Sapium sebiferum</i>	烏柏	Light Standard	4000-5000	native
<i>Sterculia lanceolata</i>	假蘋婆	Light Standard	4000-5000	native
<i>Tabebuia chrysantha</i>	黃金風鈴木	Light Standard	4000-5000	exotic
<i>Tabebuia rosea</i>	紅花風鈴木	Light Standard	4000-5000	exotic
<i>Vernicia fordii</i>	油桐	Light Standard	4000-5000	exotic
<i>Viburnum odoratissimum</i>	珊瑚樹	Light Standard	4000-5000	native
<i>Yulania denudata</i>	白玉蘭	Light Standard	4000-5000	exotic
<i>Yulania x soulangeana</i>	二喬木蘭	Light Standard	4000-5000	exotic
			Penny's Bay Total Quantity:	414 nos.

NOTE:

- The Tree Species Schedule is a tentative list which has been advised by HyD/Landscape Division. Tree species will be selected from the Tree Species Schedule.
- All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction and operation to suit the site conditions and market availability.
- Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.
- Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tung Chung and Penny's Bay Area.

Tuen Mun - Chek Lap Kok Link
 Agreement No. CE 7/2011 (HY)
 Tree Compensation Outside Project Boundary - Tree Planting Schedule

Location of Slopes Outside Project Boundary: Tuen Mun

Feature No. 6SW-D/FR320

Location: Castle Peak Road
 Average Slope Angle: 26 degree
 No. of Compensatory Trees: 31

Feature No. 6SW-D/FR279

Location: Castle Peak Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 20

Feature No. 6SW-C/FR200

Location: Castle Peak Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 52

Feature No. 5SE-D/F73

Location: San Shek Wan Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 92

Feature No. 5SE-B/F89

Location: Tsing Wan Road
 Average Slope Angle: 35 degree
 No. of Compensatory Trees: 30

Feature No. 5SE-B/F70

Location: Wong Chu Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 20

Feature No. 6SW-A/F25

Location: Tseng Choi Street
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 48

Feature No. 6NW-C/F153

Location: Tuen Fu Road
 Average Slope Angle: 30 degree
 No. of Compensatory Trees: 45

Feature No. 6SW-C/F233

Location: Castle Peak Road - Tai Lam
 Average Slope Angle: 45 degree
 (proposed tree planting is at portion with
 approximate 35 degree angle)
 No. of Compensatory Trees: 45

Tuen Mun: 383 nos.

Tree Species Schedule - Tuen Mun

Botanical Name	Chinese Name	Size	Spacing (Approximate mm)	Remarks
<i>Bridelia tomentosa</i>	土密樹	Light Standard	5000 - 6000	native
<i>Castanopsis fissa</i>	裂斗錐栗	Light Standard	5000 - 6000	native
<i>Cinnamomum camphora</i>	樟	Light Standard	5000 - 6000	native
<i>Elaeocarpus sylvestris</i>	山杜英	Light Standard	3000 - 4000	native
<i>Ilex rotunda var. microcarpa</i>	小果鐵冬青	Light Standard	3000 - 4000	native
<i>Liquidambar formosana</i>	楓香	Light Standard	5000 - 6000	native
<i>Machilus breviflora</i>	短序潤楠	Light Standard	3000 - 6000	native
<i>Machilus chekiangensis</i>	浙江潤楠	Light Standard	3000 - 4000	native
<i>Michelia chapensis</i>	樂昌含笑	Light Standard	5000 - 6000	native
<i>Pongamia pinnata</i>	水黃皮	Light Standard	5000 - 6000	native
<i>Prunus spp.</i>	櫻	Light Standard	3000 - 4000	exotic
<i>Reevesia thyrsoidea</i>	梭羅樹	Light Standard	3000 - 4000	native
<i>Sapium sebiferum</i>	烏柏	Light Standard	3000 - 6000	native
<i>Schefflera heptaphylla</i>	鵝掌柴	Light Standard	3000 - 6000	native
<i>Schima superba</i>	木荷	Light Standard	3000 - 4000	native
<i>Sterculia lanceolata</i>	假蘋婆	Light Standard	3000 - 4000	native
<i>Syzygium hancei</i>	韓氏蒲桃	Light Standard	3000 - 4000	native
<i>Syzygium jambos</i>	蒲桃	Light Standard	5000 - 6000	exotic
<i>Tabebuia chrysantha</i>	黃金風鈴木	Light Standard	3000 - 4000	exotic
<i>Viburnum odoratissimum</i>	珊瑚樹	Light Standard	3000 - 6000	native
<i>Xanthostemon chrysanthus</i>	金蒲桃	Light Standard	3000 - 4000	exotic
Tuen Mun Total Quantity:				383 nos.

NOTE:

1. The Tree Species Schedule is a tentative list which has been advised by HyD/Landscape Division. Tree species will be selected from the Tree Species Schedule.
2. All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction and operation to suit the site conditions and market availability.
3. Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.
4. Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tuen Mun Area.

Appendix J

Cumulative Statistics of Complaint, Summon and Prosecution

Table J-1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics					
	Frequency	Cumulative	Complaint Nature			
			Air	Noise	Water	Others
October 2024	0	0	NA	NA	NA	NA
Cumulative since contract commencement	0	0	NA	NA	NA	NA

Table J-2 Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics				
	Frequency	Cumulative	Complaint Nature		
			Air	Noise	Water
October 2024	0	0	NA	NA	NA
Cumulative since contract commencement	0	0	NA	NA	NA

Table J-3 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics				
	Frequency	Cumulative	Complaint Nature		
			Air	Noise	Water
October 2024	0	0	NA	NA	NA
Cumulative since contract commencement	0	0	NA	NA	NA