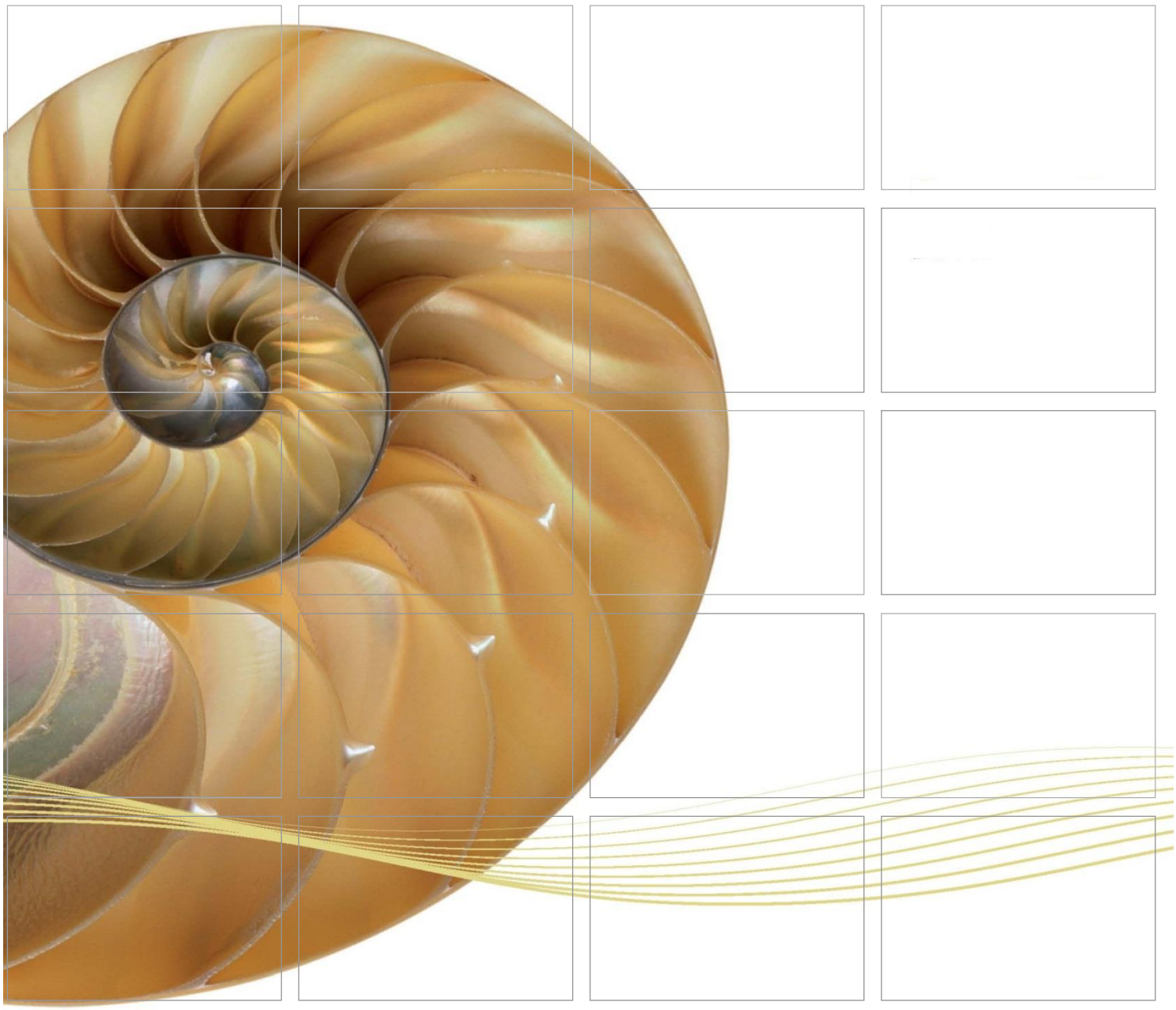
REPORT



Contract No. HY/2017/10
Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Twenty-seventh Monthly EM&A Report

14 September 2020

Environmental Resources Management
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Contract No. HY/2017/10
Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

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Twenty-seventh Monthly EM&A Report

Document Code: 0463091_27th Monthly EM&A_20200914.doc

Client: Gammon	Project No: 0463091
Summary: This document presents the Twenty-seventh Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works.	Date: 14 September 2020 Approved by: *Mr Craig Reid* *Partner* Certified by: *Dr Jasmine Ng* *ET Leader*

Revision	Description	By	Checked	Approved	Date
	Twenty-seventh Monthly EM&A Report	CW	JN	CAR	14/9/20

Distribution

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14 September 2020

By Fax (2783 0155) and By Post

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

Attention: Mr. Desmond Fung

Dear Mr. Fung,

Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and
Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2017/10
TM-CLKL – Northern Connection Tunnel Buildings, E&M Works
27th Monthly EM&A Report for July 2020

Reference is made to the Environmental Team's submission of the monthly EM&A report for August 2020 (ET's ref.: "*0463091_27th Monthly EM&A_20200914.doc*" dated 14 September 2020) certified by the ET Leader and provided to us via e-mail on 14 September 2020.

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

Thank you for your attention. Please feel free to contact the undersigned or the ENPO Leader, Mr. Y H Hui, should you require further information.

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

Manson Yeung
Independent Environmental Checker
Tuen Mun-Chek Lap Kok Link

c.c.

HyD	Mr. Patrick Ng	(By Fax: 3188 6614)
HyD	Mr. Andy Ho	(By Fax: 3188 6614)
AECOM	Mr. Conrad Ng	(By Fax: 3922 9797)
ERM	Dr. Jasmine Ng	(By Fax: 2723 5660)
Gammon	Mr. Max Poon	(By Fax: 3520 0486)

Internal: DY, YH, ENPO Site

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TABLE OF CONTENTS

List of Appendices

Under *Contract No. HY/2017/10*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake Northern Connection Tunnel Buildings, Electrical and Mechanical Works of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Engineer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Contract commenced on 7 June 2018 and will tentatively be completed by 2021. The impact monitoring of the EM&A programme, including air quality and environmental site inspections, were commenced on 7 June 2018.

This is the Twenty-seventh Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 August 2020 for the *Contract No. HY/2017/10 Northern Connection Tunnel Buildings, Electrical and Mechanical Works* (the "Contract") in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Land-based Works

- Handover Inspection at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;

- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.

A summary of monitoring and audit activities conducted in the reporting period is listed below (1):

24-hour TSP Monitoring	10 sessions
1-hour TSP Monitoring	10 sessions
Landfill Gas Hazard Monitoring	26 days
Joint Environmental Site Inspection	4 sessions

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

One (1) Action Level exceedance for 1-hour TSP was recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. No exceedance of Action and Limit Levels for 24-hour TSP were recorded.

Breaches of Action Level for Landfill Gas Hazard Montioring

Results of landfill gas hazard monitoring in the reporting month complied with the Action Level.

Environmental Complaints, Non-compliance & Summons

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

(1) ET justification on the Contract Specific Environmental Monitoring and Audit activities under this Contract was submitted to ENPO on 11 September 2018

Reporting Change

Landscape and visual monitoring for 24-month establishment period conducted by Contract No. HY/2012/07 and HY/2013/12 was reported in the EM&A report for this Contract.

Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of September 2020 include the following:

Land-based Works

- Handover Inspection at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of September 2020 are mainly associated with dust, waste management and landfill gas monitoring issues.

1 INTRODUCTION

1.1 BACKGROUND

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.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process* (*EIAO-TM*). The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-146/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B, EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

Under *Contract No. HY/2017/10*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the Northern Connection Tunnel Buildings, Electrical and Mechanical Works of TM-CLKL while AECOM Asia Company Limited was appointed by HyD as the Engineer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The construction phase of the Contract commenced on 7 June 2018 and will be tentatively completed by 2021. The impact monitoring phase of the EM&A programme, including air quality and environmental site inspections, commenced on 7 June 2018.

The general layout plan of the Contract components is presented in *Figures 1.1 & 1.2a to c.*

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

N

TUEN MUN

LUNG KWU TAN

URMSTON ROAD

TAI LAM CHUNG RESERVOIR

TSING YI

A

01
7061

01
7063

TUEN MUN TO
CHEK LAP KOK LINK

SOUTH CHINA SEA

SIU MO TO

TAI MO TO

HONG KONG
BOUNDARY
CROSSING
FACILITIES

01
7062

CHEK LAP KOK

A

TUNG
CHUNG

LANTAU ISLAND

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- NORTHERN CONNECTION TUNNEL
BUILDINGS, ELECTRICAL AND
MECHANICAL WORKS

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

CONSULTANT
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Figure 1.1

ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.
A	JAN.18	TENDER ADDENDUM NO.1	SYLC
-	DEC.17	TENDER DRAWING	SYLC

STATUS

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DIMENSION UNIT: MILLIMETRES

KEY PLAN

PROJECT NO.: 60240249
CONTRACT NO.: HY/2017/10

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
60240249/C4/7051A

Plot File by: jerrywong
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Project Management Initials: Designer: KATH Checked: SYLC Approved: CWN ISO A1 594mm x 841mm

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PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

CLIENT
路政署
HIGHWAYS DEPARTMENT
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Hong Kong - Zhuhai - Macao Bridge
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Figure 1.2a

ISSUE/REVISION

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A	JAN.18	TENDER ADDENDUM NO.1	SYLC
-	DEC.17	TENDER DRAWING	SYLC

STATUS

SCALE: A1 1 : 2500
DIMENSION UNIT: MILLIMETRES

KEY PLAN

PROJECT NO.: 60240249
CONTRACT NO.: HY/2017/10

SHEET TITLE
ZONING PLAN
(SHEET 1)

SHEET NUMBER
60240249/C4/7061A

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

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AECOM

PROJECT
項目

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

CLIENT
業主

路 政 署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
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Figure 1.2b

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
A	JAN.18	TENDER ADDENDUM NO.1	SYLC
-	DEC.17	TENDER DRAWING	SYLC

STATUS
階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60240249

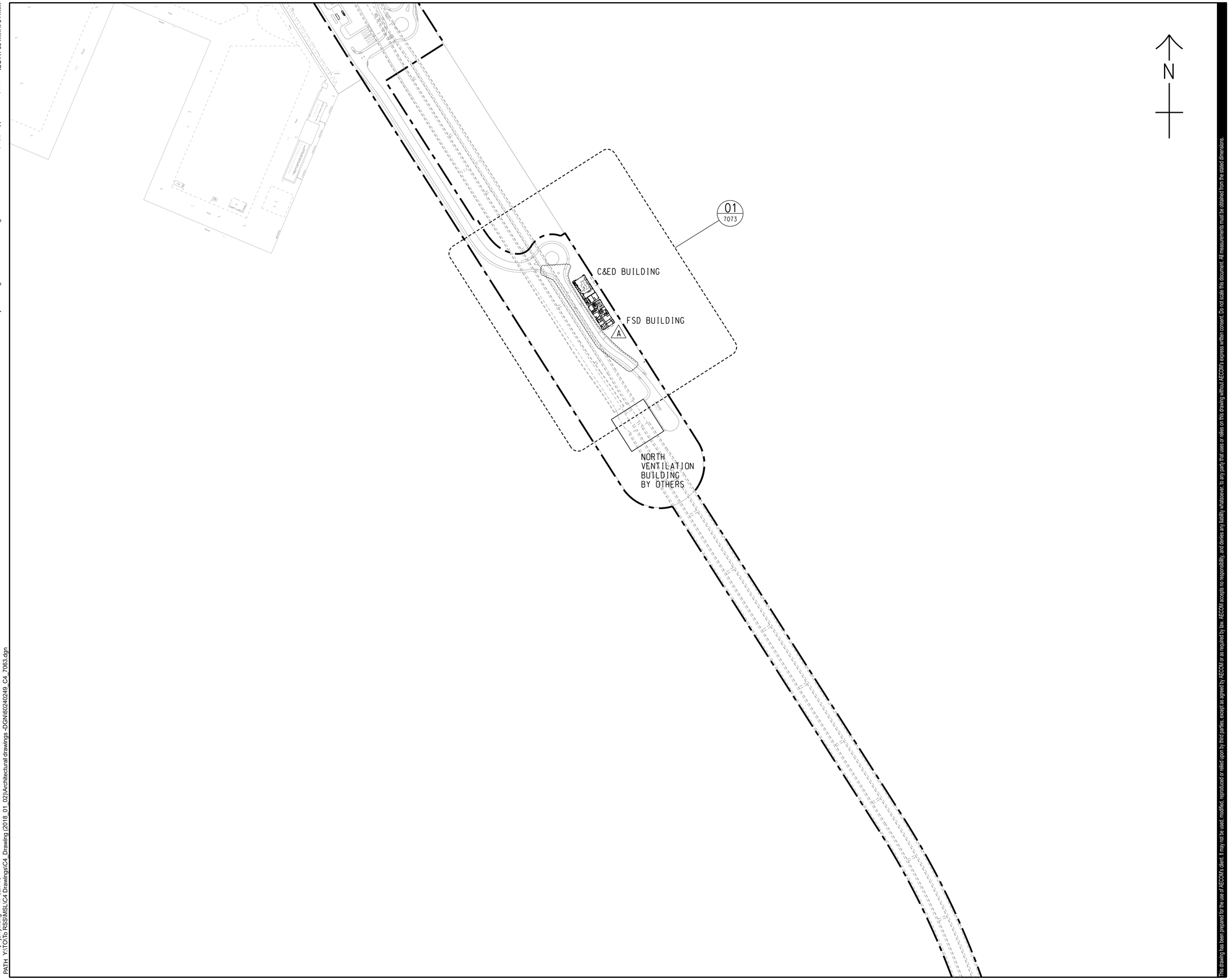
CONTRACT NO. 合約編號
HY/2017/10

SHEET TITLE
圖紙名稱

ZONING PLAN
(SHEET 2)

SHEET NUMBER
圖紙編號

60240249/C4/7062A



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AECOM

PROJECT
項目

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

CLIENT
業主

路 政 署
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港珠澳大橋香港工程管理處
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Figure 1.2c

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
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-	DEC.17	TENDER DRAWING	SYLC

STATUS
階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60240249

CONTRACT NO. 合約編號
HY/2017/10

SHEET TITLE
圖紙名稱

ZONING PLAN
(SHEET 3)

SHEET NUMBER
圖紙編號

60240249/C4/7063A

1.2 SCOPE OF REPORT

This is the Twenty-seventh Monthly EM&A Report under the *Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works*. This report presents a summary of the environmental monitoring and audit works in August 2020.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
HyD (Highways Department)	Project Coordinator	Joseph Lee	2762 4958	3188 6614
	Senior Engineer	Cheng Pan	2762 3383	3188 6614
ER (AECOM Asia Company Limited)	Principle Resident Engineer	S. W. Fok	2293 6200	2293 6300
	Resident Engineer	Desmond Fung	2293 6200	2293 6300
ENPO / IEC (Ramboll Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
	IEC	Manson Yeung	9700 6767	3465 2899
Contractor (Gammon Construction Limited)	Site Agent	H. H. Lee	6096 6281	-
	Environmental Officer	Max Poon	9103 6303	-
ET (ERM-HK)	ET Leader	Dr. Jasmine Ng	2271 3311	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract commenced on 7 June 2018. The three-month rolling construction programme is shown in Appendix B.

As informed by the Contractor, details of the major works carried out in this reporting month are listed below:

Land-based Works

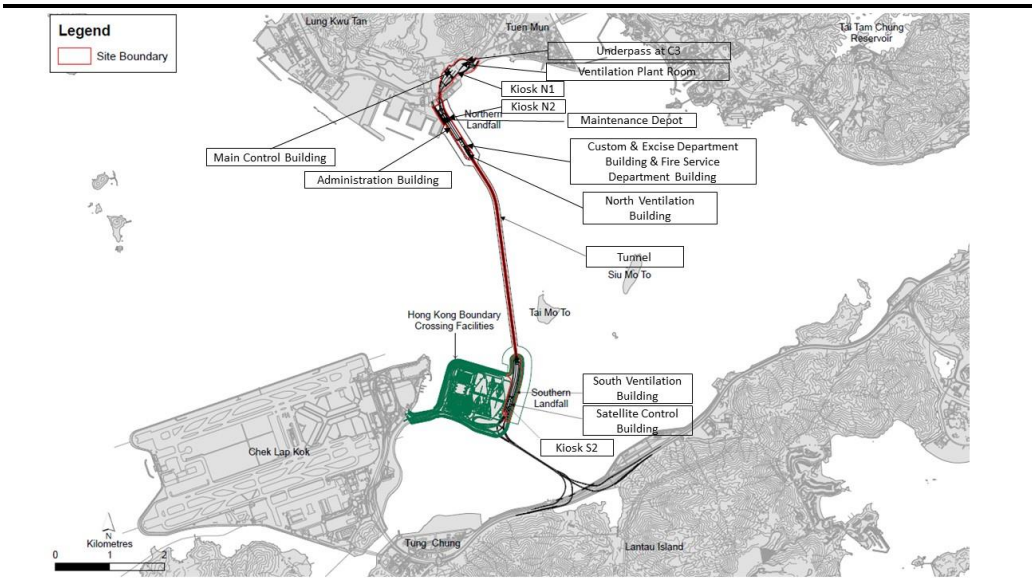
- Handover Inspection at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;

- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Contract are shown in *Figure 1.4*.

The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

Figure 1.3 Locations of Major Construction Activities in the Reporting Month



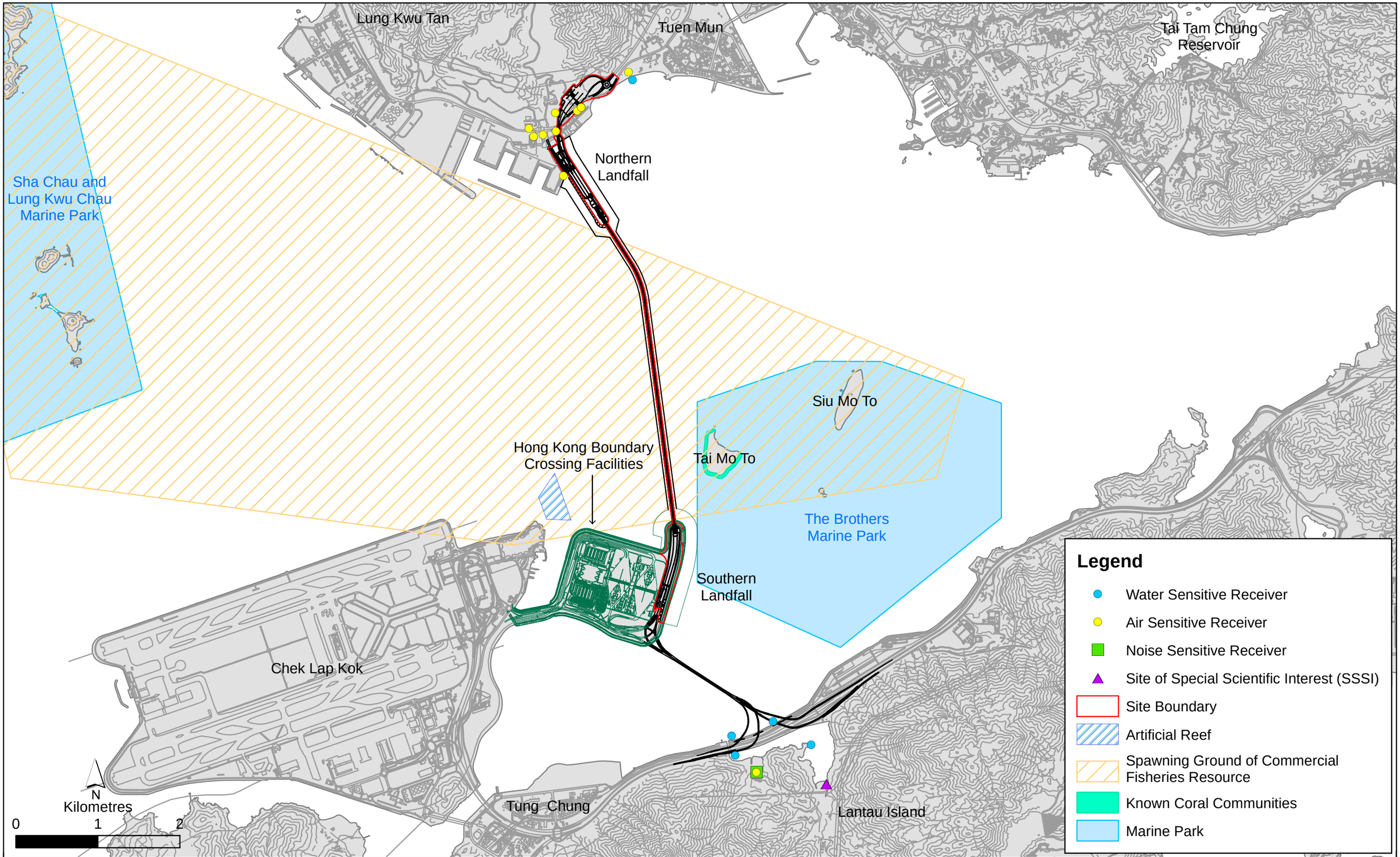


Figure 1.4

Environmental Sensitive Receivers in the Vicinity of the Project

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Date: 12/7/2018

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2 EM&A RESULTS

The EM&A programme required environmental monitoring for air quality and environmental site inspections for air quality, water quality and waste management. The EM&A requirements and related findings for each component are summarized in the following sections

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. 1-hr and 24-hr TSP monitoring frequency was increased to three times per day every three days and daily every three days, respectively, as excavation works for launching shaft under *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* commenced on 24 October 2014.

Results of air quality monitoring were adopted from the published EM&A data of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* (1).

The Action and Limit Levels of the air quality monitoring were adopted from the published EM&A reports of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* (2). The Action and Limit Levels are provided in *Appendix D*.

The locations of the monitoring stations overlapped with Contract No. HY/2012/08 are shown in *Figure 2.1* and presented in *Table 2.1*.

Table 2.1 Locations of Impact Air Quality Monitoring Stations and its Corresponding Monitoring Requirements

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	3, 6, 9, 12, 15, 18, 21, 24, 27 and 20 August 2020	Tuen Mun Fireboat Station	Office	TSP monitoring • 1-hour Total Suspended Particulates (1-hour TSP, µg/m³), 3 times in every 6 days • 24-hour Total Suspended Particulates (24-hour TSP, µg/m³), daily for 24-hour in every 6 days Enhanced TSP monitoring
ASR5		Pillar Point Fire Station	Office	
AQMS1		Previous River Trade Golf	Bare ground	

(1) Published EM&A data for impact air quality monitoring by *Contract No. HY/2012/08* are available at: http://www.hzmbenpo.com/

(2) Published EM&A reports of *Contract No. HY/2012/08* are available at: http://www.hzmbenpo.com/

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR6		Butterfly Beach Laundry	Office	(commenced on 24 October 2014 under *Contract No. HY/2012/08*) • 1-hour Total Suspended Particulates (1-hour TSP, μg/m³), 3 times in every 3 days • 24-hour Total Suspended Particulates (24-hour TSP, μg/m³), daily for 24-hour in every 3 days
ASR10		Butterfly Beach Park	Recreational uses	

2.1.2 Results and Observations

Results of air quality monitoring were adopted from the published EM&A data of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* [(1)].

One (1) Action Level exceedance for 1-hour TSP was recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. No exceedance of Action and Limit Levels for 24-hour TSP were recorded. The exceedance was considered not related to this Contract upon further investigation and the investigation report is presented in *Appendix J*. No action is required to be undertaken in accordance with the Event Action Plan as presented in *Appendix E*.

2.2 LANDFILL GAS HAZARD MONITORING

In accordance with the Updated EM&A Manual of the TM-CLK Link Project, landfill gas hazard monitoring should be perform to ensure that the works area at Pillar Point Valley (PPV) Landfill is free of landfill gas. A total of 26 days of landfill gas hazard monitoring was conducted at Main Control Building during 1 to 31 August 2020 (*Appendix F*).

The landfill gas hazard monitoring was conducted in accordance to the Upated EM&A Manual with a Altair 5X Gas Detector. The calibration certificate for the equipment is presented in *Appendix G*.

The Action Level of the landfill gas hazard monitoring was adopted from the Updated EM&A Manual of the TM-CLK Link Project and are provided in Appendix D.

2.2.1 Results and Observations

Results for landfill gas hazard monitoring are summarized in *Table 2.2* and the monitoring data is provided in *Appendix H*.

Results of methane, oxygen and carbon dioxide in the reporting month complied with the Action Level. No action as stated in the Updated EM&A

(1) Published EM&A data for impact air quality monitoring by *Contract No. HY/2012/08* are available at: http://www.hzmbenpo.com/

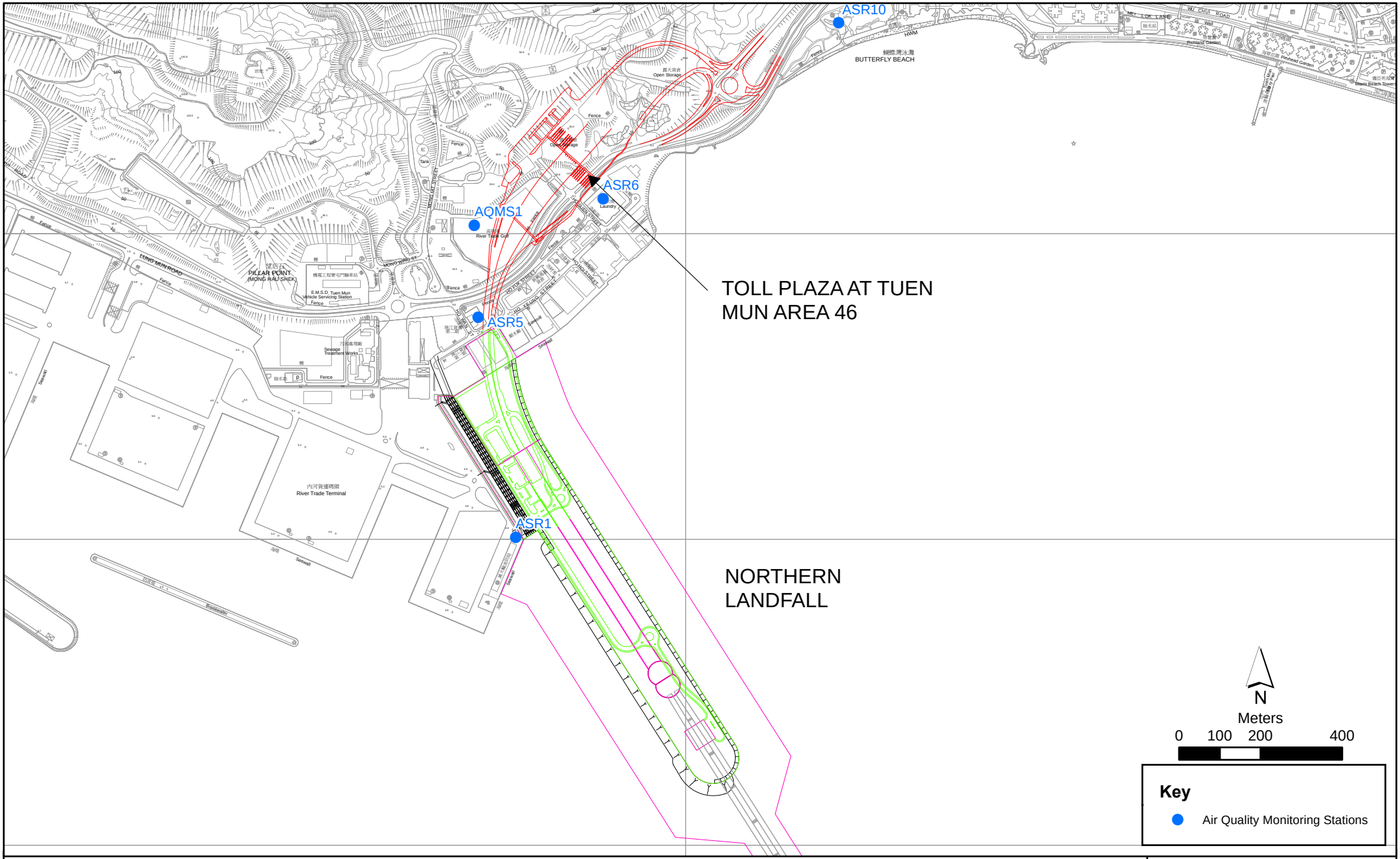

Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring
(Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section)

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Date: 21/2/2014

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Manual of the TM-CLK Link Project and presented in *Appendix D* is required to be undertaken.

Table 2.2 Summary of Landfill Gas Hazard Monitoring Results in the Reporting Period

	Average (%)	Range (%)	Action Level (%) [(a)]
Methane	0	0	10/20
Oxygen	20.8	20.7-20.8	19/18
Carbon Dioxide	0.03	0.03-0.04	0.5/1.5

Notes:

(a) Depending on the results of the measurements, actions required will vary. Actions in the event of landfill gas being detected in excavation/confined area was adopted from the Updated EM&A Manual of the TM-CLK Link Project.

2.3 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 7, 14, 21 and 28 August 2020.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.3*.

Table 2.3 Specific Observations and Recommendations during the Weekly Site Inspection in this Reporting Month

Inspection Date	Observations	Recommendations/ Remarks
7 August 2020	Southern Landfall (Container Office) • Chemical containers should be placed on drip tray.	Southern Landfall (Container Office) • The Contractor was reminded to place chemical containers on drip tray.
14 August 2020	Container Village (Portion XX1a) • Chemical containers should be placed on drip tray.	Container Village (Portion XX1a) • The Contractor was reminded to place chemical containers on drip tray.
21 August 2020	Fire Services Department Building • Soapy water was observed discharge to the drainage system.	Fire Services Department Building • The Contractor was reminded to take measures to avoid illegal discharge.
28 August 2020	Container Village (Portion XX1a) • Chemical container should be placed on drip tray. Fire Services Department Building • Chemical container should be placed on drip tray. • Oil stain was observed.	Container Village (Portion XX1a) • The Contractor was reminded to place chemical container on drip tray. Fire Services Department Building • The Contractor was reminded to place chemical container on drip tray. • The Contractor was reminded to cleanup oil stain and dispose of the chemical waste separately.

The Contractor has rectified all of the observations as identified during environmental site inspections in the reporting month.

2.4 *WASTE MANAGEMENT STATUS*

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period included mainly construction wastes (inert and non-inert). Reference has been made to the waste flow table prepared by the Contractor (*Appendix I*). The quantities of different types of wastes are summarized in *Table 2.4*.

Table 2.4 Quantities of Different Waste Generated in the Reporting Month

Month/Year	Inert C&D Materials [(a)] (m^3)	Inert Construction Waste Re-used (m^3)	Non-inert Construction Waste [(b)] (kg)	Imported Fill (m^3)	Recyclable Materials [(c)] (kg)	Chemical Wastes (kg)
August 2020	10,705	0	132,420	10,541	35	0

Notes:

(a) Inert construction wastes include hard rock and large broken concrete disposed as public fill.

(b) Non-inert construction wastes include general refuse disposed at landfill.

(c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

The Contractor was advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store temporarily in designated chemical waste storage area on site in accordance with the *Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes*.

2.5 *LANDSCAPE AND VISUAL MONITROING FOR 24-MONTH ESTABLISHMENT PERIOD*

In accordance with the EM&A Manual, site audits for the monitoring of the planting works during the 24-month establishment period after completion of the construction works shall be conducted by the ET in every 3 months.

The proposal of the Landscape and visual monitoring for 24-month establishment period for Contract No. HY/2012/07 and HY/2013/12 was approved by EPD on 1 June 2020. Landscape and visual monitoring for 24-month establishment period for Contract No. HY/2012/07 and HY/2013/12 commenced on the same day.

Landscape and visual monitoring for 24-month establishment period was conducted on 16 and 22 June 2020 by Contract No. HY/2012/07 and 17 and 26 August 2020 by HY/2013/12 for the period from June to August 2020. Results were provided in *Appendix K*.

2.6 *ENVIRONMENTAL LICENSES AND PERMITS*

The status of environmental licensing and permit is summarized in *Table 2.5* below.

Table 2.5 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	N/A	HyD	Tuen Mun- Chek Lap Kok Link
APCO Construction Dust Notification	433493	14 May 2018	N/A	GCL	For Tuen Mun working area
Construction Waste Billing Account	7030836	15 May 2018	N/A	GCL	N/A
Chemical Waste Producer Registration	5213-422-G2827-01	13 June 2018	N/A	GCL	N/A
Discharge License under WPCO for Buildings at C2 area	WT00031783-2018	22 October 2018	31 October 2023	GCL	Sampling Frequency: Bimonthly
Discharge License under WPCO for Buildings at C3 area	WT00032062-2018	30 October 2018	31 October 2023	GCL	Sampling Frequency: Quarterly
Discharge License under WPCO for Southern Landfall	WT00034878-2019	1 April 2020	31 March 2025	GCL	Sampling Frequency: Quarterly
Construction Noise Permit	GW-RW0054-20	11 February 2020	11 August 2020	GCL	For Northern Landfall and Tunnel
Construction Noise Permit	GW-RW0351-20	3 August 2020	29 January 2021	GCL	For Northern Landfall and Tunnel
Construction Noise Permit	GW-RS0413-20	19 June 2020	15 December 2020	GCL	For HKBCF Area

2.7 *IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES*

In response to the site audit findings, the Contractors carried out all corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures relevant to this Contract were implemented properly.

The landscape and visual (L&V) mitigation measures were also monitored on weekly basis in the reporting period. The monitoring status is summarized in *Appendix C*.

2.8 *SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT*

One (1) Action Level exceedance for 1-hour TSP was recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. No exceedance of Action and Limit Levels for 24-hour TSP were recorded.

Results of landfill gas hazard monitoring in the reporting month complied with the Action Level.

Cumulative statistics are provided in *Appendix J*.

2.9 *SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS*

The Environmental Complaint Handling Procedure is provided in *Figure 2.2*.

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

Statistics on complaints, notifications of summons, successful prosecutions are summarized in *Appendix J*.

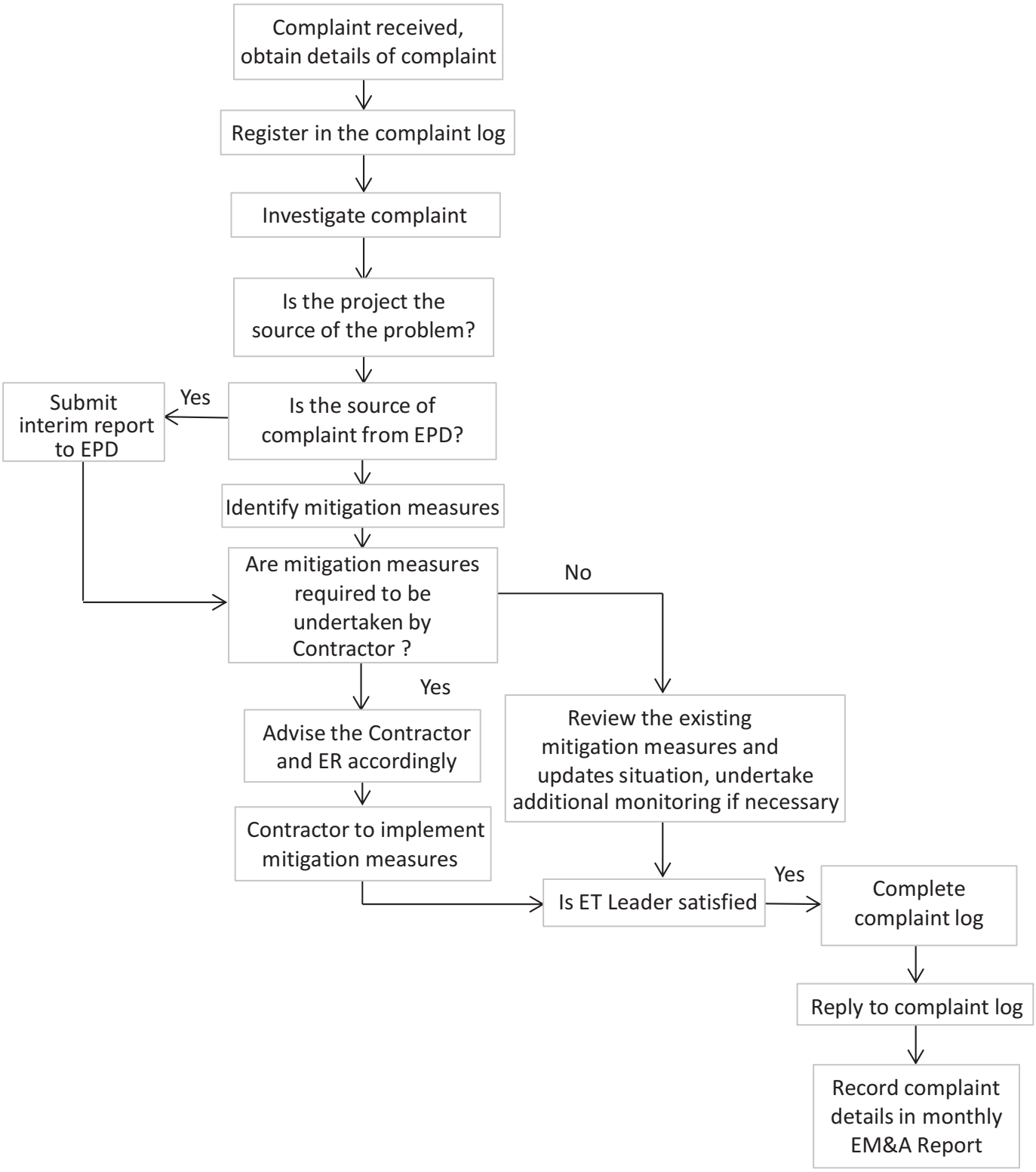

Figure 2.2 Environmental Complaint Handling Procedure

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DATE: 06/12/2013

Environmental Resources Management

ERM

3 FUTURE KEY ISSUES

3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Contract in September 2020 will be:

Land-based Works

- Handover Inspection at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.

3.2 *KEY ISSUES FOR THE COMING MONTH*

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of September 2020 are mainly associated with dust, waste management and landfill gas monitoring issues.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Twenty-seventh Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 August 2020, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality (including 1-hour TSP and 24-hour TSP) monitoring were carried out in this reporting month.

One (1) Action Level exceedance for 1-hour TSP was recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. No exceedance of Action and Limit Levels for 24-hour TSP were recorded.

Results of landfill gas hazard monitoring in the reporting month complied with the Action Level.

Environmental site inspection was carried out four (4) times in August 2020. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

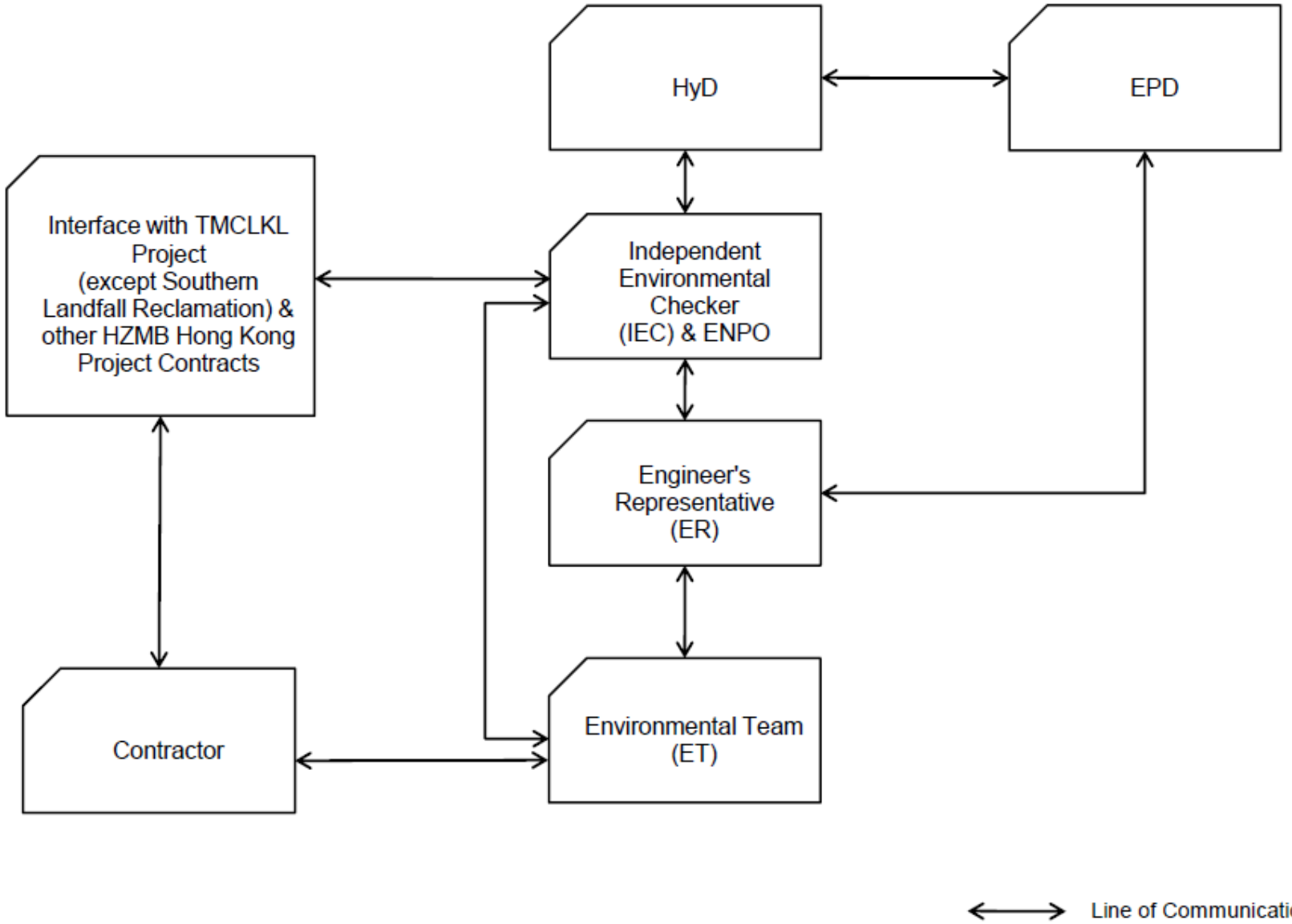
Landscape and visual monitoring for 24-month establishment period was conducted on 16 and 22 June 2020 by Contract No. HY/2012/07 and 17 and 26 August 2020 by HY/2013/12 for the period from June to August 2020.

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A

Project Organization for Environmental Works



Appendix A1

DATE: 09/07/2018

Contract No. HY/2017/10 Northern Connection Tunnel Buildings, Electrical and Mechanical Works, Project Organization

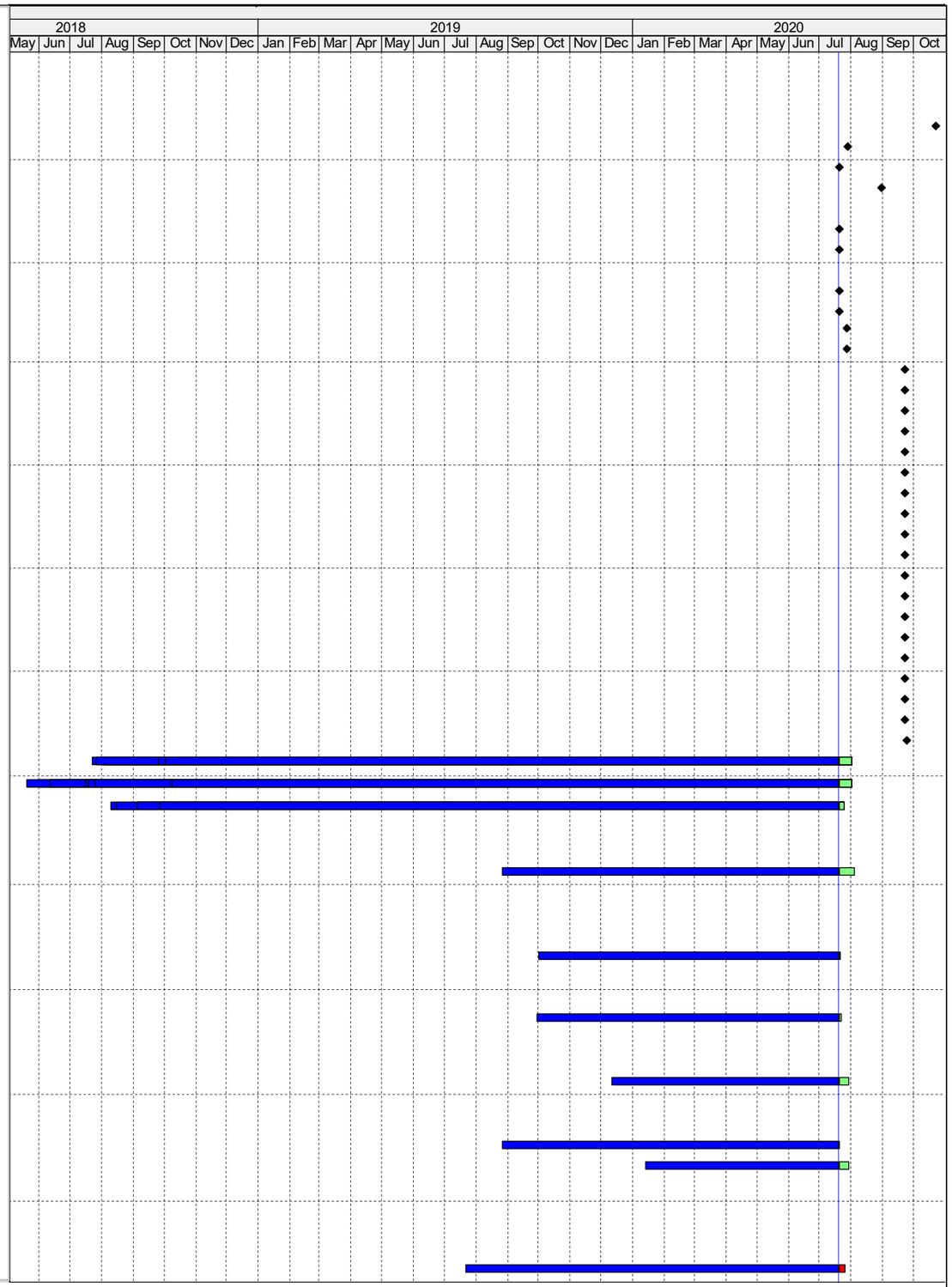
Environmental Resources Management

ERM

Appendix B

Construction Programme

ID	Activity	Duration (Days)	Duration % Complete
HY2017/10 - Works Programme Three Month Rolling Programme 20-Jul-20			
Contract Dates			
Key Dates			
KD08	KD08 - All Other Works for Tunnel Comissioning & Opening	0	0%
KD09	KD09 - C&ED Building, E&M Works, & FSD Inspection	0	0%
KD10	KD10 - FSD Building, E&M Works, & FSD Inspection	0	0%
KD11	KD11 - Landscape Soft Works & Trees Protection	0	0%
Portion Possession Dates			
P325	Possession to Portion XXII (Day 483)	0	0%
P335	Possession to Portion XXIII (Day 483)	0	0%
Portion Handover Dates			
H120	Vacate Portion XVIb (KD10+28)	0	0%
H130	Vacate Portion XVIa (KD10+28)	0	0%
H140	Vacate Portion XVb (KD9+28)	0	0%
H150	Vacate Portion XVa (KD9+28)	0	0%
H160	Vacate Portion XXIa (KD8+28)	0	0%
H170	Vacate Portion XXIb (KD8+28)	0	0%
H180	Vacate Portion XXII (KD8+28)	0	0%
H190	Vacate Portion XXIII (KD8+28)	0	0%
H200	Vacate Portion XII (KD8+28)	0	0%
H210	Vacate Portion XIII (KD8+28)	0	0%
H220	Vacate Portion XIV (KD8+28)	0	0%
H230	Vacate Portion XVIIa (KD8+28)	0	0%
H240	Vacate Portion Ve (KD8+28)	0	0%
H250	Vacate Portion Vc (KD8+28)	0	0%
H260	Vacate Portion VIb (KD8+28)	0	0%
H270	Vacate Portion VIII (KD8+28)	0	0%
H280	Vacate Portion XI (KD8+28)	0	0%
H290	Vacate Portion VII (KD8+28)	0	0%
H300	Vacate Portion IX (KD8+28)	0	0%
H310	Vacate Portion X (KD8+28)	0	0%
H320	Vacate Portion XXIc (KD8+28)	0	0%
H330	Vacate Portion WA6 (KD8+28)	0	0%
H340	Vacate Portion XIX (KD11+28)	0	0%
Major Design Submission & Approval			
Major Material Submission & Approval			
Drawing Submission & Approval			
Key Date 1 - Toll Control Building (TCB) & TCSS Provision			
ABWF Works (for All)			
ATCB1130	ABWF second fix & final fix	90	85%
Key Date 2 - Administration Building, Maintenance Depot, Kiosk N2, TCSS Provision			
Administration Building (ADB)			
ABWF Works (for All)			
AADB1200	ABWF second fix & final fix	90	98%
Maintenance Depot			
ABWF Works (for All)			
AMD1070	ABWF second fix & final fix	80	97%
Key Date 6 - E&M Works for Administration Building, Maintenance Depot, North Vent Building, Kiosk N2			
Remaining Works			
KD6-OSW-1000	Remaining Works (Non FSI related)	42	80%
Key Date 3 - Satellite Control Building & TCSS Provision			
ABWF Works (for All)			
ASCB1020	ABWF Works to Plant Rooms G/F	60	100%
ASCB1070	ABWF second fix & final fix	56	85%
Key Date 5 - E&M Works for TCB, Toll Area, Kiosk N1, Underpass, Plant Rm, and Approach Roads			
E&M Works for TCB			
Installation			
G/F			
TCB-EMGF1240	E&M Installation - PD Plant Rooms - G/F	60	90%



CONTRACT NO. HY2017/10

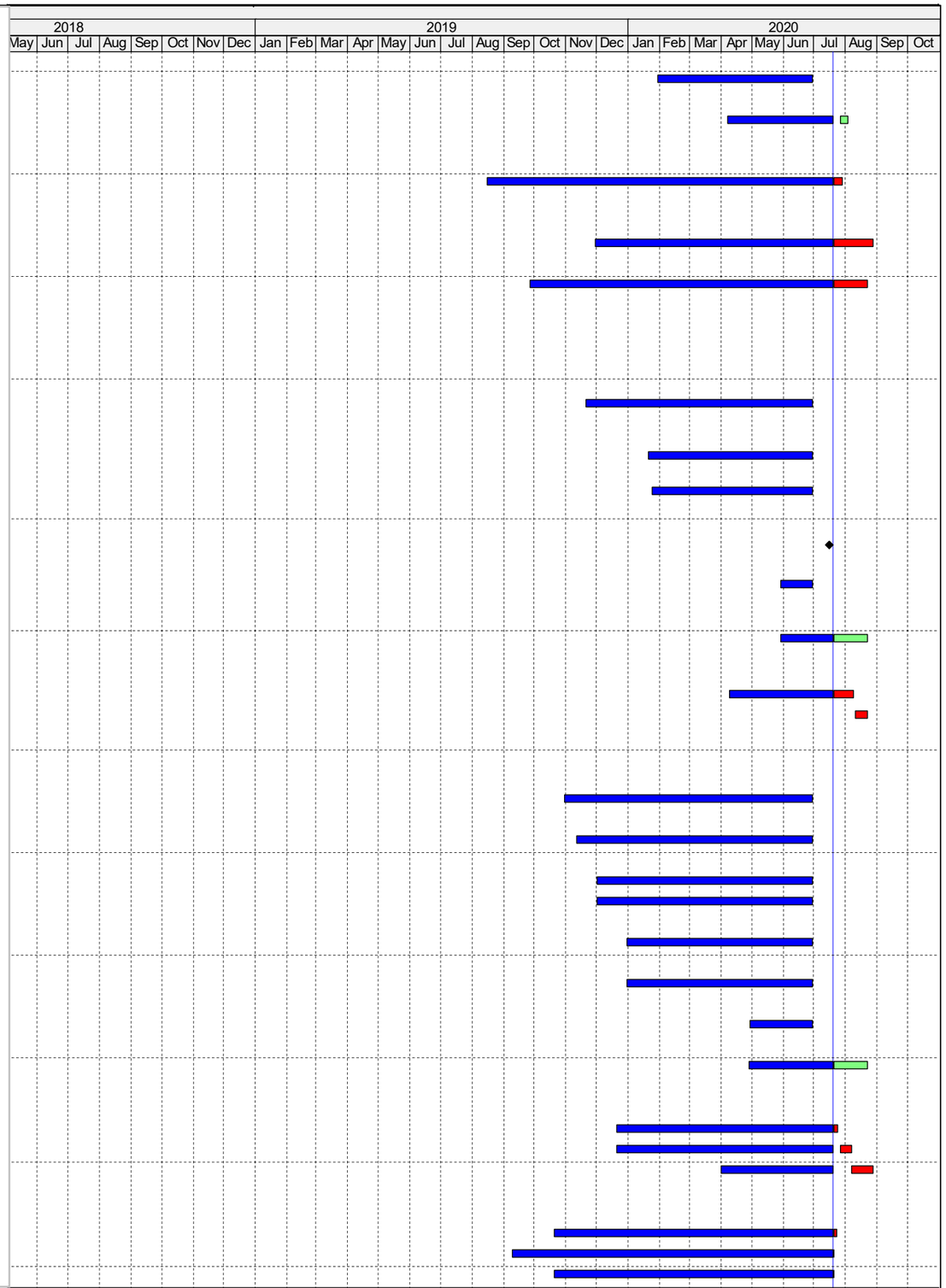
TM-CLKL NORTHERN CONNECTION TUNNEL BUILDINGS, E&M WORKS

THREE MONTHLY PROGRAMME AS OF 20 Jul 2020

P 1

Date	Revision	Checked	Approved
20-Jul-20			

ID	Activity	Duration (Days)	Duration % Complete
Testing and Commissioning			
TCB-TC1030	Non-Essential T&C	12	100%
Remaining Works for TCB (Non-FSI related)			
KD5-OSW-1000	Remaining Works (Non FSI related)	42	85%
Underpass			
E&M Works at Underpass			
VU180	Cladding Works	25	68%
Approach Roads			
Under Portions IX, XI, XX			
AR150	T&C of Roading Lighting	30	0%
Under Portion X			
AR200	T&C of Roading Lighting in portion X	30	0%
Key Date 7 - E&M Works for Satellite Control Building and Kiosks S1&S2			
E&M Works for Satellite Control Building			
E&M Works			
Installation			
G/F			
SCB-EMGF1200	E&M Installation - PD Plant Rooms - G/F	90	100%
1/F			
SCB-EM1F1050	E&M Installation - Computer Room (TCSS) - 1/F	60	100%
SCB-EM1F1120	E&M Installation - ELV Plant Room - 1/F	70	100%
Lift Installation (L01)			
SCB-LF1050	Issuance of lift use permit	0	100%
Testing & Commissioning			
SCB-TC1030	Non-Essential T&C	30	100%
Remaining Works for SCB (Non-FSI related)			
KD7-OSW-1010	Remaining Works (Non-FSI related)	42	30%
Kiosk S2			
S2140	E&M works	36	50%
S2150	T&C	12	0%
Key Date 6C - E&M Works for South Ventilation Building			
Installation			
B2/F			
SVB-EMB21110	E&M Installation - PD Palnt Rooms - B2/F	60	100%
B1/F			
SVB-EMB11120	E&M Installation - Elv Plant Rooms - B1/F	48	100%
G/F			
SVB-EMGF1200	E&M Installation - PD Plant Rooms - G/F	40	100%
SVB-EMGF1220	E&M Installation - Elv Plant Rooms - G/F	48	100%
1/F			
SVB-EM1F1280	E&M Installation - ELV Plant Rooms - 1/F	50	100%
2/F			
SVB-EM2F1120	E&M Installation - PD Plant Rooms - 2/F	40	100%
Testing & Commissioning			
SVB-TC1040	Non-Essential T&C	30	100%
Remaining Works for SVB (Non-FSI related)			
KD6C-OSW-1000	Remaining Works (Non-FSI related)	42	30%
Key Date 6A - E&M Works for Approach Roads at North Side			
Approach Roads			
EAR120	Road Lighting Cabling	50	90%
EAR130	Road Ligting Installation & Termination	50	80%
EAR140	T&C & Miscellaneous Works for Statutory Inspection	12	0%
Key Date 10 - FSD Building Structure & E&M Works			
ABWF Works			
AFSD1010	Door and Window Frames	19	80%
AFSD1020	ABWF Works to Plant Rooms G/F	56	99%
AFSD1021	ABWF Works to Plant Rooms 1/F	56	99%



CONTRACT NO. HY2017/10

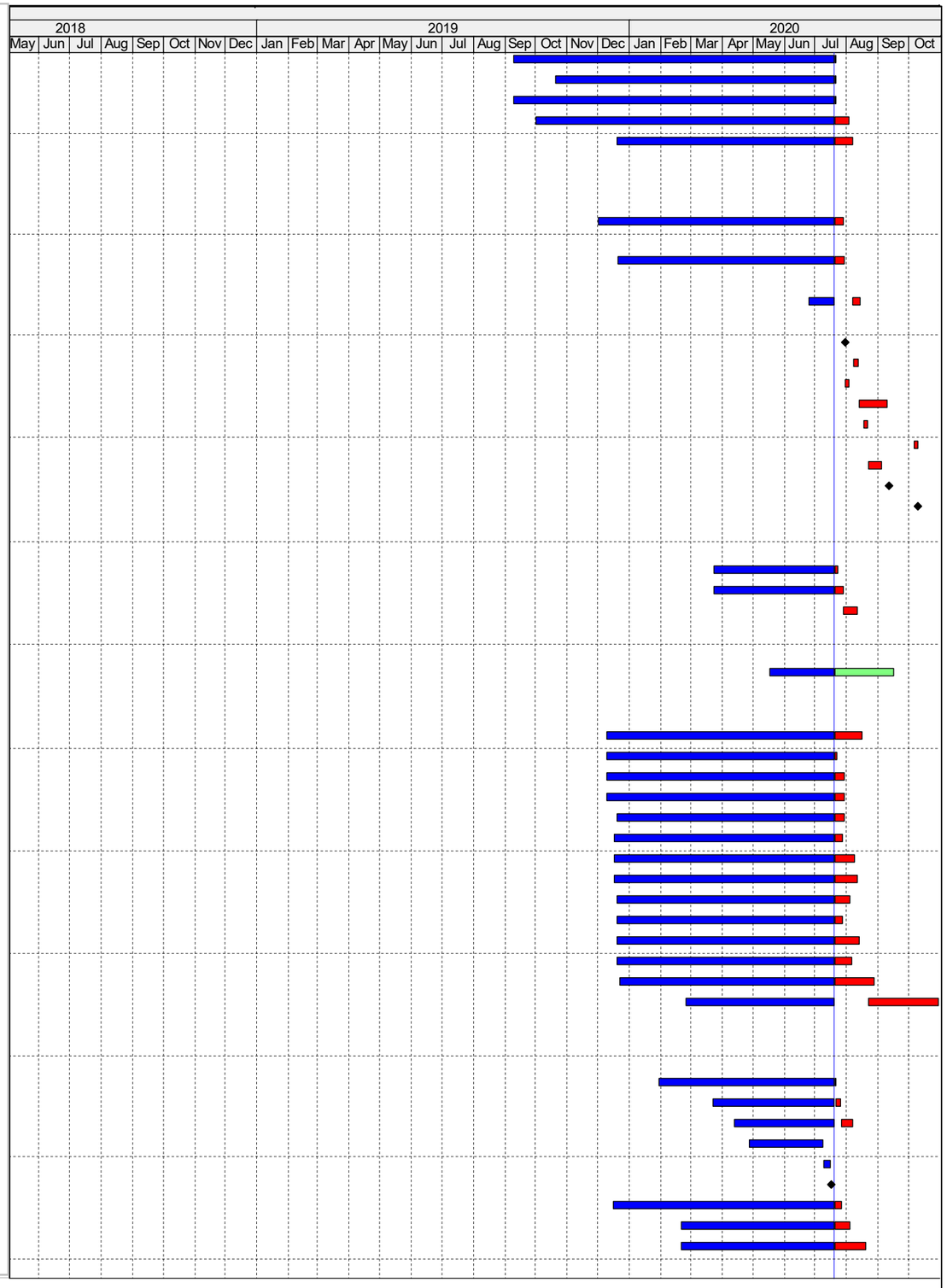
TM-CLKL NORTHERN CONNECTION TUNNEL BUILDINGS, E&M WORKS

THREE MONTHLY PROGRAMME AS OF 20 Jul 2020

P 2

Date	Revision	Checked	Approved
20-Jul-20			

ID	Activity	Duration (Days)	Duration % Complete
AFSD1030	ABWF Works to Office and Corridors G/F	124	99%
AFSD1031	ABWF Works to Office and Corridors 1/F	124	99%
AFSD1040	ABWF Works to Toilets G/F	136	99%
AFSD1060	External Cladding and Wall Plastering	101	88%
AFSD1070	ABWF second fix & final fix	73	78%
E&M Works			
Installation			
G/F			
FSDB-EMGF1160	E&M Installation - Elv Plant Rooms - G/F	50	85%
1/F			
FSDB-EM1F1140	E&M Installation - PD Plant Rooms - 1/F	60	85%
Testing and Commissioning			
FSDB-TC1030	Non-Essential T&C	30	80%
Statutory Inspections and approvals			
FSDB-SI1040	Submit WWO46 Part IV for PD	0	0%
FSDB-SI1060	WSD inspection of Plumbing Installation (PL)	4	0%
FSDB-SI1070	WSD inspection of Plumbing Installation (FS)	4	0%
FSDB-SI1080	Water Samples Test	24	0%
FSDB-SI1090	Obtain Water Certificate and water supply connection - FS	4	0%
FSDB-SI1100	Obtain Water Certificate and water supply connection - PL	4	0%
FSDB-SI1120	FSD Inspection	12	0%
FSDB-SI1130	Obtain FSI Certificate FS 172	0	0%
FSDB-SI1140	KD10 Achieved	0	0%
Key Date 7A - E&M Works for Approach Roads at South Side			
Approach Roads			
EAR180	Road Lighting Cabling (VIa)	18	80%
EAR190	Road Ligting Installation & Termination	18	60%
EAR200	T&C	12	0%
Tunnel			
Remaining Works for Tunnel (CH2500 - 1800)			
A1010	Remaining Works (Non FSI related)	98	48.98%
Key Date 9 - C&ED Building & E&M Works			
ABWF Works			
ACED1010	Door and Window Frames	48	50%
ACED1020	ABWF Works to Plant Rooms G/F	60	95%
ACED1021	ABWF Works to Plant Rooms 1/F	60	85%
ACED1022	ABWF Works to Plant Rooms 2/F	60	85%
ACED1023	ABWF Works to Plant Rooms 3/F	60	85%
ACED1030	ABWF Works to Office and Corridors G/F	133	95%
ACED1031	ABWF Works to Office and Corridors 1/F	118	85%
ACED1032	ABWF Works to Office and Corridors 2/F	130	85%
ACED1033	ABWF Works to Office and Corridors 3/F	92	85%
ACED1040	ABWF Works to Toilets G/F	142	95%
ACED1041	ABWF Works to Toilets 2/F	142	85%
ACED1042	ABWF Works to Toilets 3/F	98	85%
ACED1060	External Cladding and Wall Plastering	97	65%
ACED1070	ABWF second fix & final fix	69	20%
E&M Works			
Installation			
G/F			
C&EDB-GF1010	E&M Installation - 1st fix - G/F	40	97%
C&EDB-GF1020	E&M Installation - 2nd fix - G/F	40	88%
C&EDB-GF1030	E&M Installation - Final fix - G/F	40	75%
C&EDB-GF1070	Installation by CLP - CLP Tx Room - G/F	82	100%
C&EDB-GF1080	Wiring Inspection with CLP	12	100%
C&EDB-GF1090	Power On Energization by CLP	0	100%
C&EDB-GF1120	E&M Installation - Generator & Fuel Tank Rooms - G/F	90	93%
C&EDB-GF1140	E&M Installation - FS Plant Rooms - G/F	90	85%
C&EDB-GF1160	E&M Installation - Elv Plant Rooms - G/F	90	70%
1/F			



CONTRACT NO. HY2017/10

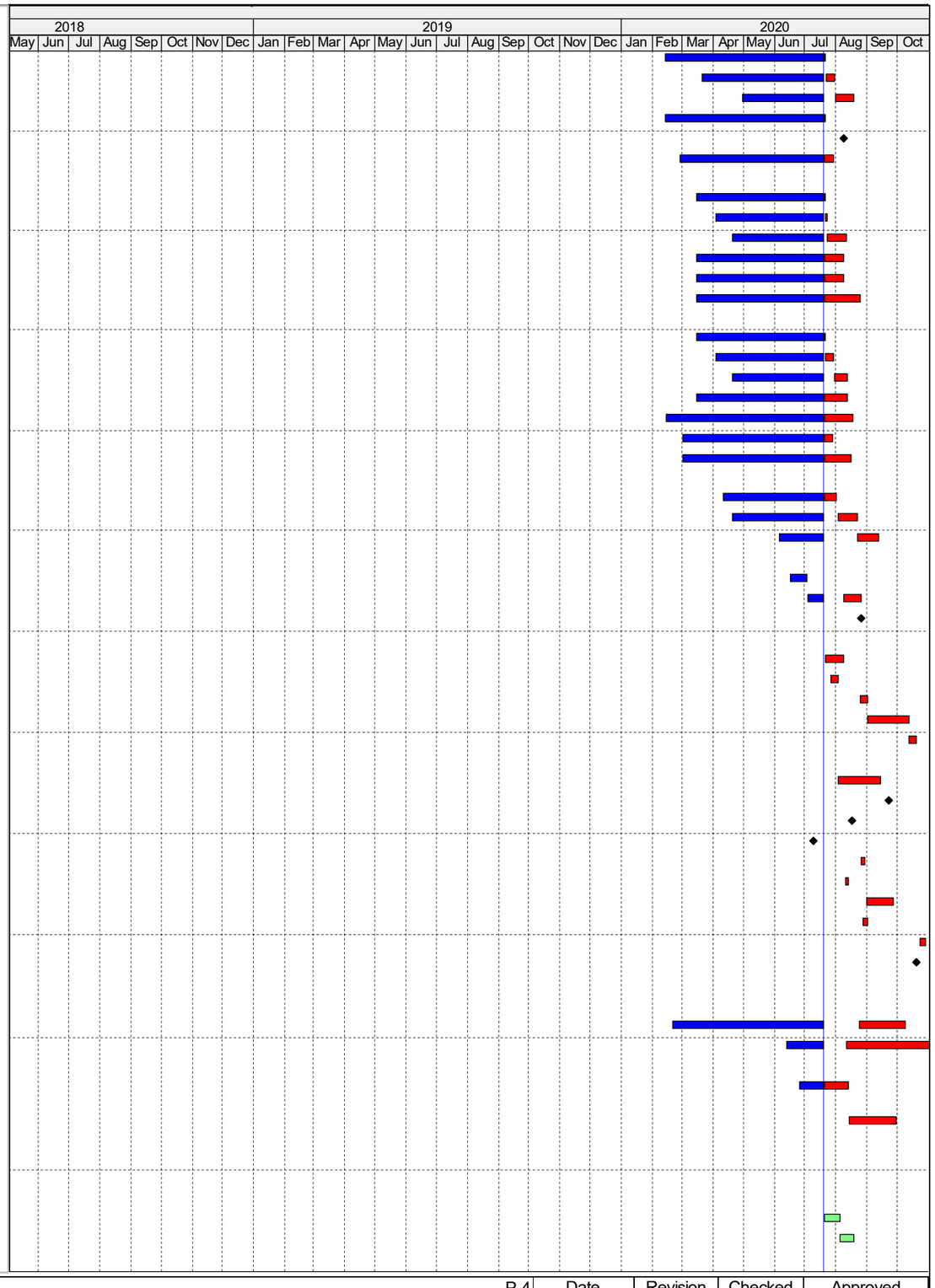
TM-CLKL NORTHERN CONNECTION TUNNEL BUILDINGS, E&M WORKS

THREE MONTHLY PROGRAMME AS OF 20 Jul 2020

P 3

Date	Revision	Checked	Approved
20-Jul-20			

ID	Activity	Duration (Days)	Duration % Complete
C&EDB-1F1010	E&M Installation - 1st fix - 1/F	40	95%
C&EDB-1F1020	E&M Installation - 2nd fix - 1/F	40	80%
C&EDB-1F1030	E&M Installation - Final fix - 1/F	40	60%
C&EDB-1F1050	E&M Installation - LV Switch Room - 1/F	60	98%
C&EDB-1F1070	Sub-Circuit Power On - LV Switch Room - 1/F	0	0%
C&EDB-1F1090	E&M Installation - Electrical Plant Rooms - 1/F	90	90%
2/F			
C&EDB-2F1010	E&M Installation - 1st fix - 2/F	40	97%
C&EDB-2F1020	E&M Installation - 2nd fix - 2/F	40	95%
C&EDB-2F1030	E&M Installation - Final fix - 2/F	40	60%
C&EDB-2F1060	E&M Installation - Electrical Plant Rooms - 2/F	90	80%
C&EDB-2F1080	E&M Installation - FS Plant Rooms - 2/F	90	80%
C&EDB-2F1100	E&M Installation - Elv Plant Rooms - 2/F	90	65%
3/F			
C&EDB-3F1010	E&M Installation - 1st fix - 3/F	30	95%
C&EDB-3F1020	E&M Installation - 2nd fix - 3/F	30	75%
C&EDB-3F1030	E&M Installation - Final fix - 3/F	30	60%
C&EDB-3F1060	E&M Installation - Electrical Plant Rooms - 3/F	84	75%
C&EDB-3F1080	E&M Installation - MVAC Plant Rooms - 3/F	84	70%
C&EDB-3F1100	E&M Installation - FS Plant Rooms - 3/F	80	90%
C&EDB-3F1120	E&M Installation - PD Plant Rooms - 3/F	60	60%
Roof			
C&EDB-RF1010	E&M Installation - 1st fix - Roof	30	60%
C&EDB-RF1020	E&M Installation - 2nd fix - Roof	25	30%
C&EDB-RF1030	E&M Installation - Final fix - Roof	20	10%
Lift Installation			
C&EDB-LF1030	Testing & commissioning	12	100%
C&EDB-LF1040	Final adjustment, Submission of Form LE5 & EMSD processing	30	50%
C&EDB-LF1050	Issuance of lift use permit	0	0%
Testing and Commissioning			
C&EDB-TC1000	T&C for Subcircuit Power On	16	0%
C&EDB-TC1010	T&C for DG Licence	6	0%
C&EDB-TC1020	Equipment Start-up T&C for FSI	6	0%
C&EDB-TC1023	Individual E&M System T&C for FSI	33	0%
C&EDB-TC1025	Intergrated T&C for FSI	6	0%
Statutory Inspections and approvals			
C&EDB-SI1020	DG Inspection by FSD	36	0%
C&EDB-SI1030	Obtain DG Licence	0	0%
C&EDB-SI1040	Submit WWO46 Part IV for PD	0	0%
C&EDB-SI1050	Submit WWO46 Part IV for FS	0	100%
C&EDB-SI1060	WSD inspection of Plumbing Installation (PL)	4	0%
C&EDB-SI1070	WSD inspection of Plumbing Installation (FS)	4	0%
C&EDB-SI1080	Water Samples Test	24	0%
C&EDB-SI1090	Obtain Water Certificate and water supply connection - FS	4	0%
C&EDB-SI1100	Obtain Water Certificate and water supply connection - PL	4	0%
C&EDB-SI1110	Final Submission of Form FSI 314 / 501 to FSD	0	0%
Key Date 11 - Landscape Soft Works & Trees Protection			
Landscape Soft Works			
SL120	Landscape Soft Works at North Side (wet season)	122	68.85%
SL140	Landscape Soft Works at South Side (wet season)	102	15%
Trees Protection			
SL203	Protection Existing Trees & Submit Report with Photographic Record No.14	41	46.34%
SL204	Protection Existing Trees & Submit Report with Photographic Record No.15	40	0%
Key Date 8 - All Works for Tunnel Comissioning & Opening			
Petrol Filling Station			
Structure			
PS140	Petrol Filling Station Roof	14	0%
PS180	Concrete Plinth	12	0%
E&M Works			



CONTRACT NO. HY2017/10

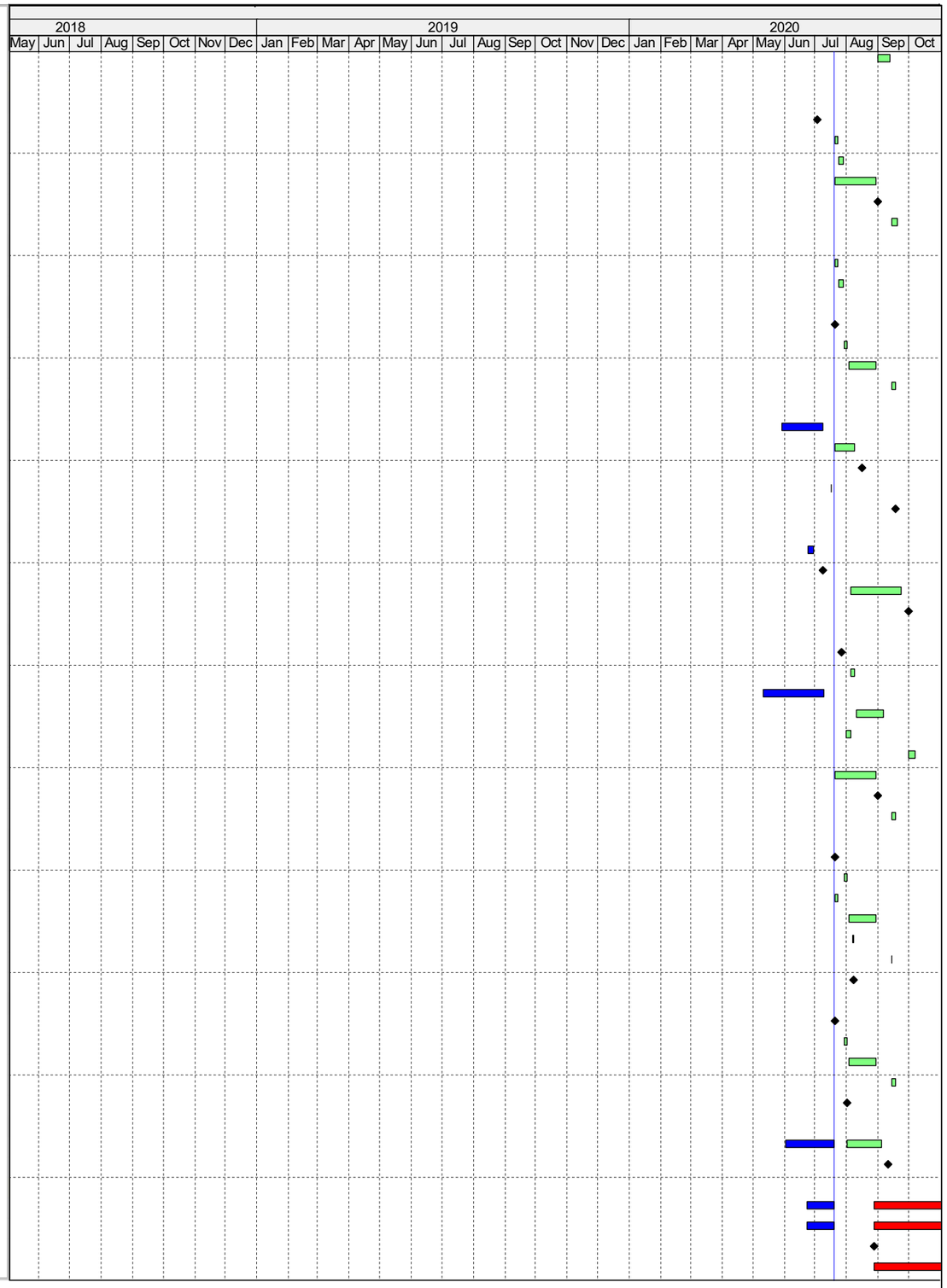
TM-CLKL NORTHERN CONNECTION TUNNEL BUILDINGS, E&M WORKS

THREE MONTHLY PROGRAMME AS OF 20 Jul 2020

P 4

Date	Revision	Checked	Approved
20-Jul-20			

ID	Activity	Duration (Days)	Duration % Complete
EPS140	T&C	12	0%
Statutory Inspections and approvals			
Administration Building			
ADB-SI1010	Submit WWO46 Part IV for PD	0	100%
ADB-SI1030	WSD inspection of Plumbing Installation (PL)	4	0%
ADB-SI1070	Obtain Water Certificate and water supply connection - PL	4	0%
ADB-SI1120	EMSD examines site acceptance report and acceptance	36	0%
ADB-SI1130	Submit WWO46 part IV for CT plumbing works	0	0%
ADB-SI1140	WSD inspection and water connection for CT plumbing works	6	0%
Maintenance Depot			
MD-SI1060	WSD inspection of Plumbing Installation (PL)	4	0%
MD-SI1100	Obtain Water Certificate and water supply connection - PL	4	0%
North Ventilation Building			
NVB-SI1090	Submit WWO46 Part IV for PD	0	0%
NVB-SI1110	WSD inspection of Plumbing Installation (PL)	4	0%
NVB-SI1130	Water Samples Test	24	0%
NVB-SI1140	Obtain Water Certificate and water supply connection - PL	4	0%
Petrol Filling Station			
PFS-SI1010	T&C of E&M System	6	100%
PFS-SI1030	DG Inspection	18	0%
PFS-SI1040	Obtain DG Licence	0	0%
PFS-SI1060	FSD Inspection	42	100%
PFS-SI1070	Obtain Fire Certificate	0	0%
Underpass & Plant Room			
VUP-SI1095	Obtain Water Certificate and water supply connection - FS	4	100%
VUP-SI2000	Final Submission of Form FSI 314 / 501 to FSD	0	100%
VUP-SI2010	FSD Inspection	42	0%
VUP-SI2020	Obtain FSI Certificate FS 172	0	0%
Toll Control Building & Toll Collector Subway			
TCB-SI2000	Submit WWO46 Part IV for PD	0	0%
TCB-SI2020	WSD inspection of Plumbing Installation (PL)	4	0%
TCB-SI2030	WSD inspection of Plumbing Installation (FS)	4	100%
TCB-SI2040	Water Samples Test	24	0%
TCB-SI2045	Obtain Water Certificate and water supply connection - FS	4	0%
TCB-SI2050	Obtain Water Certificate and water supply connection - PL	4	0%
TCB-SI3010	EMSD examines site acceptance report and acceptance	36	0%
TCB-SI3020	Submit WWO46 part IV for CT plumbing works	0	0%
TCB-SI3030	WSD inspection and water connection for CT plumbing works	4	0%
Satellite Control Building			
SCB-SI1040	Submit WWO46 Part IV for PD	0	0%
SCB-SI1060	WSD inspection of Plumbing Installation (PL)	4	0%
SCB-SI1070	WSD inspection of Plumbing Installation (FS)	4	0%
SCB-SI1080	Water Samples Test	24	0%
SCB-SI1090	Obtain Water Certificate and water supply connection - FS	1	0%
SCB-SI1100	Obtain Water Certificate and water supply connection - PL	1	0%
SCB-SI1130	Obtain FSI Certificate FS 172	0	0%
South Ventilation Building			
SVB-SI1090	Submit WWO46 Part IV for PD	0	0%
SVB-SI1110	WSD inspection of Plumbing Installation (PL)	4	0%
SVB-SI1130	Water Samples Test	24	0%
SVB-SI1140	Obtain Water Certificate and water supply connection - PL	4	0%
SVB-SI2020	Obtain FSI Certificate FS 172	0	0%
Tunnel			
TNL-10TC2010	FSD inspection & re-inspection	42	30%
TNL-10TC2020	Obtain Fire Certificate	0	0%
Others Works for Road Opening			
OW120	Hard Landscaping Works & Irrigation Systems	96	0%
OW130	Street Furniture	96	0%
OW135	All T&C Completed	0	0%
OW140	Toll Collection System Test	70	0%



CONTRACT NO. HY2017/10

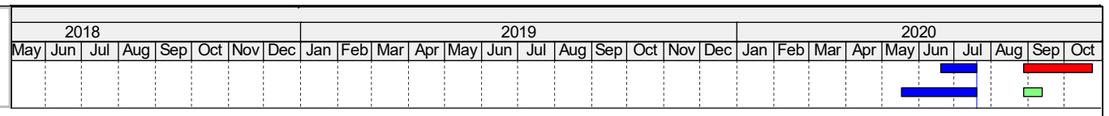
TM-CLKL NORTHERN CONNECTION TUNNEL BUILDINGS, E&M WORKS

THREE MONTHLY PROGRAMME AS OF 20 Jul 2020

P 5

Date	Revision	Checked	Approved
20-Jul-20			

ID	Activity	Duration (Days)	Duration % Complete
OW145	ELV System Test	70	32%
OW155	Interfacing T&C with C5	70	80%



Date	Revision	Checked	Approved
20-Jul-20			

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

(In reference to CINOTECH (2011) Agreement No. CE35/2011 EP Baseline Environmental Monitoring for Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chep Lap Kok Link – Investigation. Updated EM&A Manual for Tuen Mun-Chek Lap Kok Link)

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
Air Quality									
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8. 1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		✓
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8. 1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.	All site exits / throughout construction period	Contractor	TMEIA Avoid dust		Y		✓

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

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		N/A (Results adopted from published EM&A data of Contract No. HY/2012/08)
WATER QUALITY (LAND WORKS)									
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.10	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.10	-	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>
6.10	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	N/A
6.10	Section 11	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓
WASTE									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		✓
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		✓
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
		f Incompatible materials are adequately separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	Site Offices/ throughout construction period	Contractor	TMEIA		Y		✓
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		✓
LANDSCAPE AND VISUAL									

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
10.9	7.6	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas (Tree protection measures will be detailed at Tree Removal Application Stage) (CM1)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Hydroseeding or sheeting of soil stockpiles with visually unobstrusive material (in earth tone) (CM4)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Recycle/ Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y		n/a. To be maintained by HyD

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be maintained by HyD/LCSD
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 minimise unnecessary light spill (OM3)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be maintained by HyD
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 / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be maintained by HyD/ArchSD
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 / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be maintained by HyD/ArchSD
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be maintained by HyD/ArchSD

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	

*** Remarks:**

✓	Compliance of Mitigation Measures
<>	Compliance of Mitigation but need improvement
x	Non-compliance of Mitigation Measures
▲	Non-compliance of Mitigation Measures but rectified by Contractor
Δ	Deficiency of Mitigation Measures but rectified by Contractor
N/A	Not Applicable in Reporting Period

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Appendix D

Summary of Action and Limit Levels

Table D1 ***Action and Limit Levels for 1-hour and 24-hour TSP***

Parameters	Action	Limit
24 Hour TSP Level in μg/m³	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214	260
1 Hour TSP Level in μg /m³	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337	500

Table D2 ***Actions in the Event of Landfill Gas being Detected in Excavation / Confined Area***

Parameter	Measurement	Action
Oxygen	< 19%	- Ventilate to restore oxygen to > 19%
	< 18%	- Stop work - Evacuate personnel / prohibit entry - Increase ventilation to restore to > 19%
Methane	> 10% LEL (> 0.5% v/v)	- Prohibit hot work - Ventilate to restore methane to < 10% LEL
	> 20% LEL (>1% v/v)	- Stop work - Evacuate personnel / prohibit entry - Increase ventilation to restore to < 10%
Carbon Dioxide	> 0.5%	- Ventilate to restore oxygen to < 0.5%
	> 1.5%	- Stop work - Evacuate personnel / prohibit entry - Increase ventilation to restore to < 0.5%

Appendix E

Event Action Plan

Appendix E1 Event/ Action Plan for Air Quality

	ACTION			
EVENT	**ET [(1)]**	**IEC [(1)]**	**ER [(1)]**	**Contractor**
Action Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the IEC and the ER. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by the ET. 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	1. Identify the source. 2. Inform the IEC and the ER. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Discuss with the IEC and the Contractor on remedial actions required. 6. If exceedance continues, arrange meeting with the IEC and the ER. 7. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET. 2. Check the Contractor's working method. 3. Discuss with the ET and the Contractor on possible remedial measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

	ACTION			
EVENT	**ET** [(1)]	**IEC** [(1)]	**ER** [(1)]	**Contractor**
Limit Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the ER and the DEP. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results.	1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 3. Discuss with the ET and the Contractor on possible remedial measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures are properly implemented.	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
2. Exceedance for two or more consecutive samples	1. Notify the IEC, the ER, the DEP and the Contractor. 2. Identify the source. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting with the IEC and the ER to discuss the remedial actions to be taken. 7. Assess effectiveness of the Contractor's remedial actions	1. Discuss amongst the ER, ET and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

	and keep the IEC, the DEP and the ER informed of the results. 8. If the exceedance stops, cease additional monitoring.	

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative, DEP – Director of Environmental Protection

Appendix F

EM&A Monitoring Schedule

HY/2017/10 Tuen Mun - Chek Lap Kok Link - Northern Tunnel Connection Buildings, E&M Works
Landfill Gas Monitoring Schedule (1 to 31 August 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Aug
						LFG Monitoring (a.m. & p.m.)
02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
09-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
30-Aug	31-Aug					
	LFG Monitoring (a.m. & p.m.)					

HY/2017/10 Tuen Mun - Chek Lap Kok Link - Northern Tunnel Connection Buildings, E&M Works
Landfill Gas Monitoring Schedule (1 to 30 September 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Sep	02-Sep	03-Sep	04-Sep	05-Sep
		LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
06-Sep	07-Sep	08-Sep	09-Sep	10-Sep	11-Sep	12-Sep
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
27-Sep	28-Sep	29-Sep	30-Sep			
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)			

The schedule is subject to excavation work at Main Control Building. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Appendix G

Calibration Certificate of Monitoring Equipment

MSA Hong Kong Ltd.
25/F Jupiter Tower, 9 Jupiter Street, Hong Kong
Tel 852-22587588 Fax 25478780 Email info.hk@msasafety.com Website www.msasafety.com

Ref. 2019/12/009 Date: 11-Dec-19
Customer Gammon Constructions Limited

CERTIFICATE FOR CALIBRATION CHECK TEST

Model	Serial No.	Calibration Check Gas	Regulator	Full Scale	Response
Altair 5XIR	145986	1.45% Methane, 15% Oxygen 2.5% Carbon Dioxide	.25litre/min	100% LEL 30% Vol 9.99%	29%LEL 15% O2 2.5% CO2

Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on:
11-Dec-19

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of
MSA Hong Kong Ltd.

MSA HONG KONG LIMITED

Authorised Signature

Appendix H

Landfill Gas Monitoring Results and Graphical Presentation

Landfill Gas Monitoring Results on Methane Level

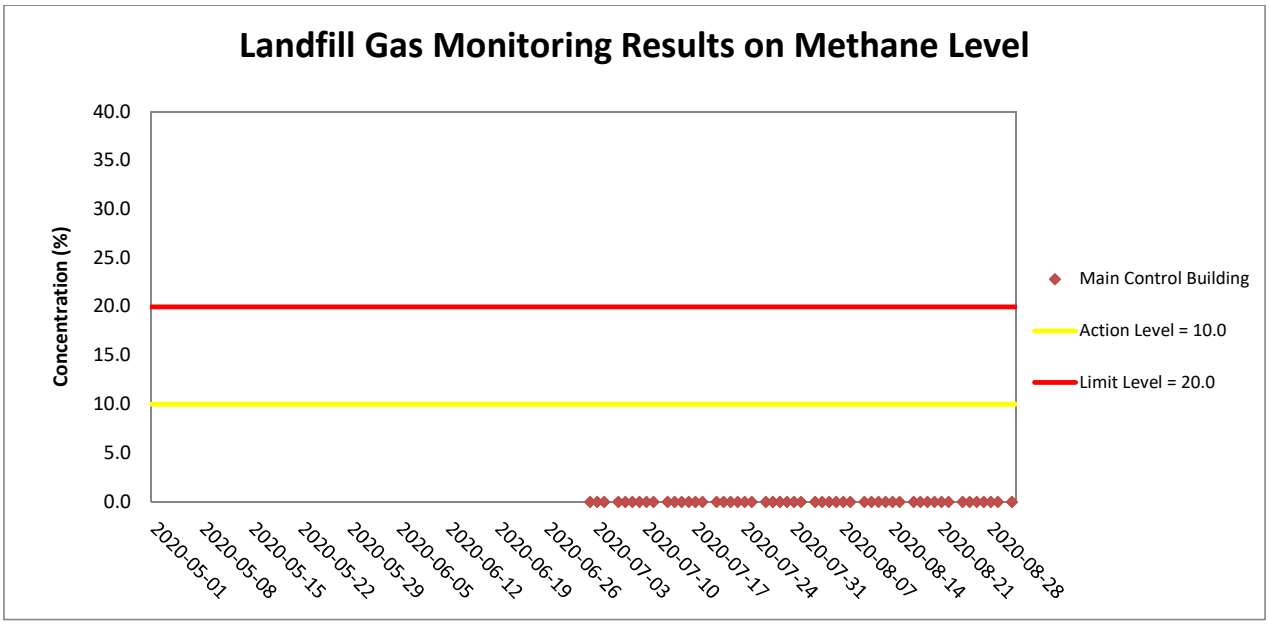
Project	Works	Date(yyyy-mm-dd)	Monitoring Location	Time (hh:mm, 24hour)	Results (%)	Action Level (%)	Limit Level (%)
TMCLKL	HY/2017/10	2020-08-01	Main Control Building	8:15	0	10.0	20.0
TMCLKL	HY/2017/10	2020-08-01	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-03	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-03	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-04	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-04	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-05	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-05	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-06	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-06	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-07	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-07	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-08	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-08	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-10	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-10	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-11	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-11	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-12	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-12	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-13	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-13	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-14	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-14	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-15	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-15	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-17	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-17	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-18	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-18	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-19	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-19	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-20	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-20	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-21	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-21	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-22	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-22	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-24	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-24	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-25	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-25	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-26	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-26	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-27	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-27	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-28	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-28	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-29	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-29	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-08-31	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-08-31	Main Control Building	13:15	0		
				Average	0		
				Min.	0		
				Max.	0		

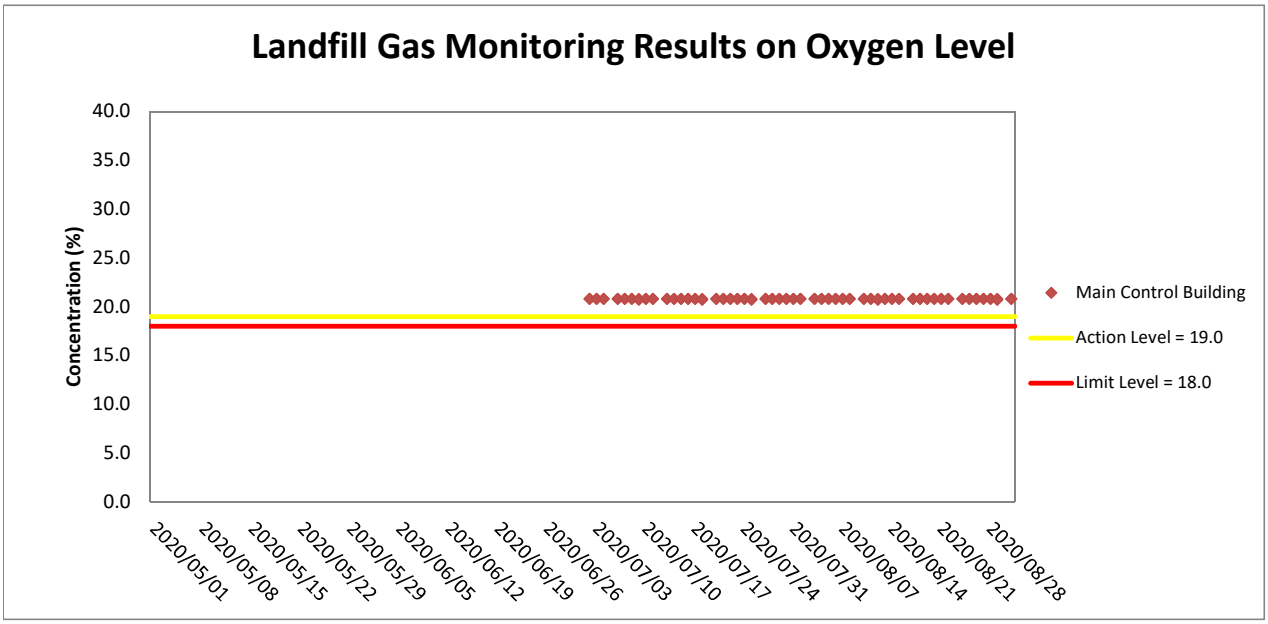
Landfill Gas Monitoring Results on Oxygen Level

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Results (%)	Action Level (%)	Limit Level (%)
TMCLKL	HY/2017/10	2020-08-01	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-01	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-03	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-03	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-04	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-04	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-05	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-05	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-06	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-06	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-07	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-07	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-08	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-08	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-10	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-10	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-11	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-11	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-12	Main Control Building	8:15	20.7		
TMCLKL	HY/2017/10	2020-08-12	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-13	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-13	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-14	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-14	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-15	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-15	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-17	Main Control Building	8:15	20.8	19.0	18.0
TMCLKL	HY/2017/10	2020-08-17	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-18	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-18	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-19	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-19	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-20	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-20	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-21	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-21	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-22	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-22	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-24	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-24	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-25	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-25	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-26	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-26	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-27	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-27	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-28	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-28	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-08-29	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-29	Main Control Building	13:15	20.7		
TMCLKL	HY/2017/10	2020-08-31	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-08-31	Main Control Building	13:15	20.8		
				Average	20.8		
				Min.	20.7		
				Max.	20.8		

Landfill Gas Monitoring Results on Carbon Dioxide Level

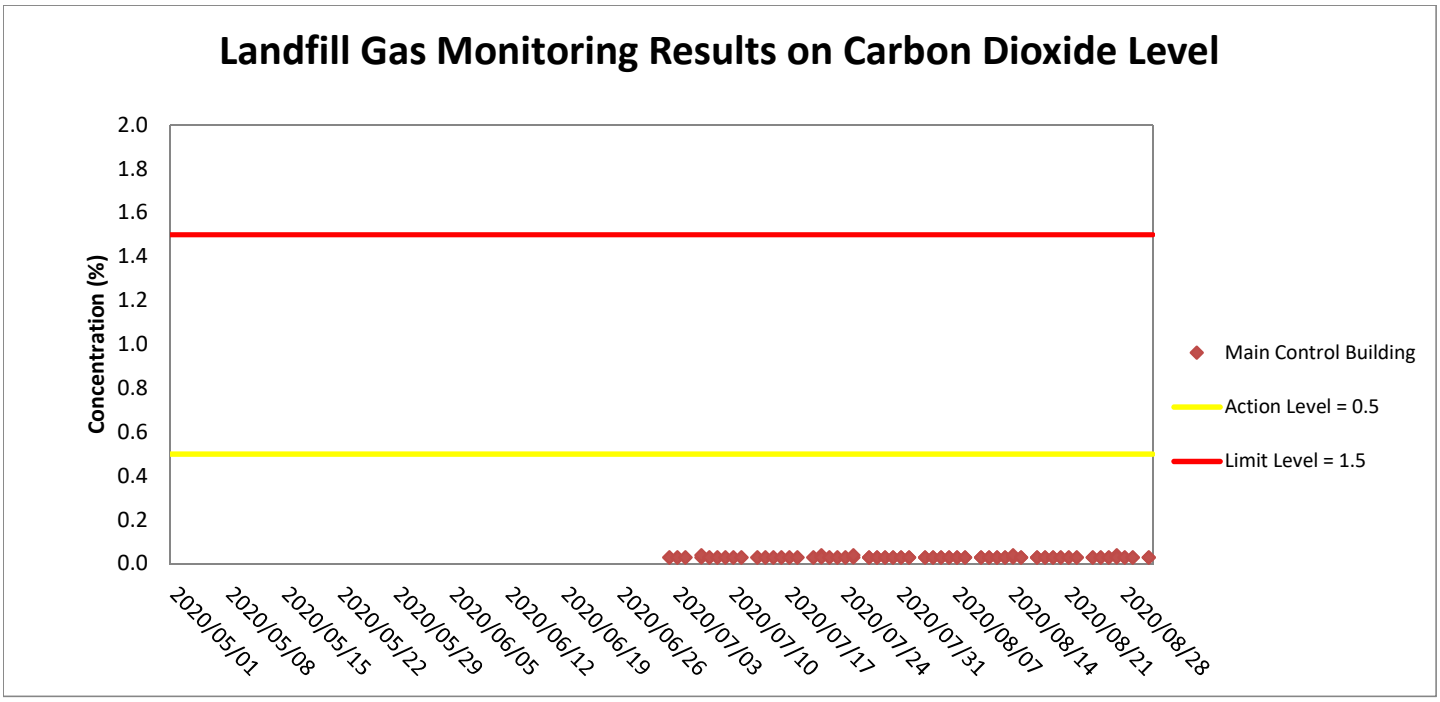
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Results (%)	Action Level (%)	Limit Level (%)
TMCLKL	HY/2017/10	2020-08-01	Main Control Building	8:15	0.03	0.5	1.5
TMCLKL	HY/2017/10	2020-08-01	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-03	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-03	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-04	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-04	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-05	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-05	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-06	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-06	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-07	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-07	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-08	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-08	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-10	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-10	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-11	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-11	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-12	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-12	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-13	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-13	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-14	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-14	Main Control Building	13:15	0.04		
TMCLKL	HY/2017/10	2020-08-15	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-15	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-17	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-17	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-18	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-18	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-19	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-19	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-20	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-20	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-21	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-21	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-22	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-22	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-24	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-24	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-25	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-25	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-26	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-26	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-27	Main Control Building	8:15	0.04		
TMCLKL	HY/2017/10	2020-08-27	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-28	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-28	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-29	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-29	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-08-31	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-08-31	Main Control Building	13:15	0.03		
				Average	0.03		
				Min.	0.03		
				Max.	0.04		





Weather condition within the reporting period was sunny to rainy
Major construction works undertaken within the reporting period include

- *Handover Inspection at Main Control Building;*
- *Electrical and Mechanical Works at Ventilation Plant Room;*
- *Handover Inspection at North Ventilation Building;*
- *Handover Inspection at Administration Building;*
- *Handover Inspection at Maintenance Depot;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;*
- *Electrical and Mechanical Works at Kiosk N2;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;*
- *Handover Inspection at Satellite Control Building;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;*
- *Handover Inspection at South Ventilation Building; and*
- *Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.*



Weather condition within the reporting period was sunny to rainy
Major construction works undertaken within the reporting period include

- *Handover Inspection at Main Control Building;*
- *Electrical and Mechanical Works at Ventilation Plant Room;*
- *Handover Inspection at North Ventilation Building;*
- *Handover Inspection at Administration Building;*
- *Handover Inspection at Maintenance Depot;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;*
- *Electrical and Mechanical Works at Kiosk N2;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;*
- *Handover Inspection at Satellite Control Building;*
- *Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;*
- *Handover Inspection at South Ventilation Building; and*
- *Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.*

Appendix I

Monthly Summary of Waste Flow Table

Contract No. : HY/2017/10

Tuen Mun Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Monthly Summary Waste Flow Table for 2020 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D wastes Generation		Actual Quantities of Recyclables Generation			
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	0.025	0.000	-	-	0.025	-	-	187.500	-	-	0.070	-
Feb	0.074	0.026	-	-	0.074	-	-	176.100	-	-	0.084	-
Mar	0.650	0.117	-	-	0.366	0.284	-	237.850	-	-	0.042	-
Apr	0.139	0.000	-	-	0.139	-	-	167.820	-	-	-	-
May	6.429	0.000	-	1.975	0.023	4.431	-	252.730	-	-	0.056	-
Jun	17.715	0.053	-	0.421	0.034	17.260	-	255.300	-	-	-	-
SUB-TOTAL	**25.032**	**0.196**	**0.000**	**2.396**	**0.661**	**21.975**	**0.000**	**1277.300**	**0.000**	**0.000**	**0.252**	**0.000**
Jul	41.044	0.008	-	6.284	0.035	34.725	-	134.530	-	-	0.056	-
Aug	10.705	0.007	-	-	0.163	10.541	-	132.420	-	-	0.035	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	**76.781**	**0.211**	**0.000**	**8.680**	**0.859**	**67.241**	**0.000**	**1,544.250**	**0.000**	**0.000**	**0.343**	**0.000**

Notes :

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

2 - Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

3 - Broken concrete for recycling into aggregates.

4 - Assumed 5 kg per damaged water-filled barrier.

5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

Appendix J

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Appendix J1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since contract commencement
1-Hr TSP	Action	1	45
	Limit	0	9
24-Hr TSP	Action	0	2
	Limit	0	0
Landfill gas hazard monitoring			
• Methane		0	0
• Oxygen		0	0
• Carbon Dioxide		0	0

Appendix J2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (August 2020)	0	0	0
Total No. received since contract commencement	1	0	0

Email message

Environmental Resources Management

2507,
25/F One Harbourfront,
18 Tak Fung Street,
Hung Hom, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jasmine.ng@erm.com

To	Ramboll Hong Kong Limited (ENPO)
From	ERM- Hong Kong, Limited
Ref/Project number	Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works
Subject	Notification of Exceedance for Air Quality Impact Monitoring
Date	19 August 2020

Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

Action Level Exceedance
0463091_12August2020_1hrTSP_Station ASR1

One (1) exceedance was recorded on 12 August 2020.

Regards,

Dr Jasmine Ng
Environmental Team Leader

ERM-Hong Kong, Limited

CONTRACT NO. HY/2017/10
TUEN MUN – CHEK LAP KOK LINK – NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

Air Quality Impact Monitoring

Notification of Exceedance

Log No.	**Action Level Exceedance** **0463091_12August2020_1hrTSP_Station ASR1** **[Total No. of Exceedances = 1]**	
Date	12 August 2020 (Measured) 19 August 2020 (*R*esults obtained from ENPO Website)	
Monitoring Station	ASR1	
Parameter(s) with Exceedance(s)	1- hr TSP	
Action Levels	1-hr TSP (µg/m^3)	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP (µg/m^3)	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
Limit Levels	1-hr TSP (µg/m^3)	500
	24-hr TSP (µg/m^3)	260
Measured Levels	Refer to *Appendix A* (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 12 August 2020 included • Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building; • Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building; and • Handover Inspection at North Ventilation Building	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedance is unlikely to be due to the Contract, in view of the following: • With reference to the recorded wind direction (ranged between 44° and 322°), blowing from a north-easterly/north-westerly direction) and wind speed (ranged between 0 and 0.9 m/s) when exceedance recorded, ASR1 is located downstream to Fire Services Department Building, Customs and Excise Department Building and North Ventilation Building. However, only inspection works, electrical and mechanical works and architectural builder's work and finishes were conducted which are considered not major dust generating works (refer to *Appendix B* and *C*). • The construction area under this Contract were mainly paved. The remaining unpaved area are seated by machines such as crane machines and generators or used as material storage area with proper cover of tarpaulin sheet. The exposed area are suppressed/covered. Dust are not anticipated. Based on the above, the exceedance is unlikely to be due to the Contract.	
Actions Taken / To Be Taken	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 12 August 2020, locations of air quality monitoring stations and wind data are attached (refer to *Appendix A*).	

Appendix A

Results of Air Quality Monitoring, Meteorological Data and Locations of Air Quality Monitoring Stations

Air quality monitoring results on 12/8/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	8:00:00	1-hour TSP	31	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	9:02:00	1-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	10:04:00	1-hour TSP	18	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	8:15:00	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	9:17:00	1-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	10:19:00	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	8:30:00	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	9:32:00	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	10:34:00	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	8:40:00	1-hour TSP	352	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	9:42:00	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	10:44:00	1-hour TSP	38	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	8:50:00	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	9:52:00	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	10:54:00	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	11:06:00	24-hour TSP	22	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	11:21:00	24-hour TSP	27	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	11:36:00	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	11:46:00	24-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	11:56:00	24-hour TSP	41	ug/m3

Action level exceedance
Limit level exceedance

Meteorological Data for Impact Monitoring in the reporting period			
Date (yy-mm-dd)	**Time (24hrs)**	**Average of Wind Speed (m/s)**	**Average of Wind Direction(degree)**
20/08/12	0:00	2.7	81
20/08/12	1:00	2.2	90
20/08/12	2:00	2.7	138
20/08/12	3:00	1.8	132
20/08/12	4:00	0.9	49
20/08/12	5:00	0.9	65
20/08/12	6:00	1.8	358
20/08/12	7:00	0	324
20/08/12	8:00	0	322
20/08/12	9:00	0.9	44
20/08/12	10:00	0.9	36
20/08/12	11:00	1.3	65
20/08/12	12:00	1.8	271
20/08/12	13:00	1.3	36
20/08/12	14:00	2.2	87
20/08/12	15:00	2.7	95
20/08/12	16:00	3.1	88
20/08/12	17:00	1.8	93
20/08/12	18:00	2.2	101
20/08/12	19:00	1.8	101
20/08/12	20:00	2.2	92
20/08/12	21:00	2.2	96
20/08/12	22:00	1.8	93
20/08/12	23:00	1.3	100

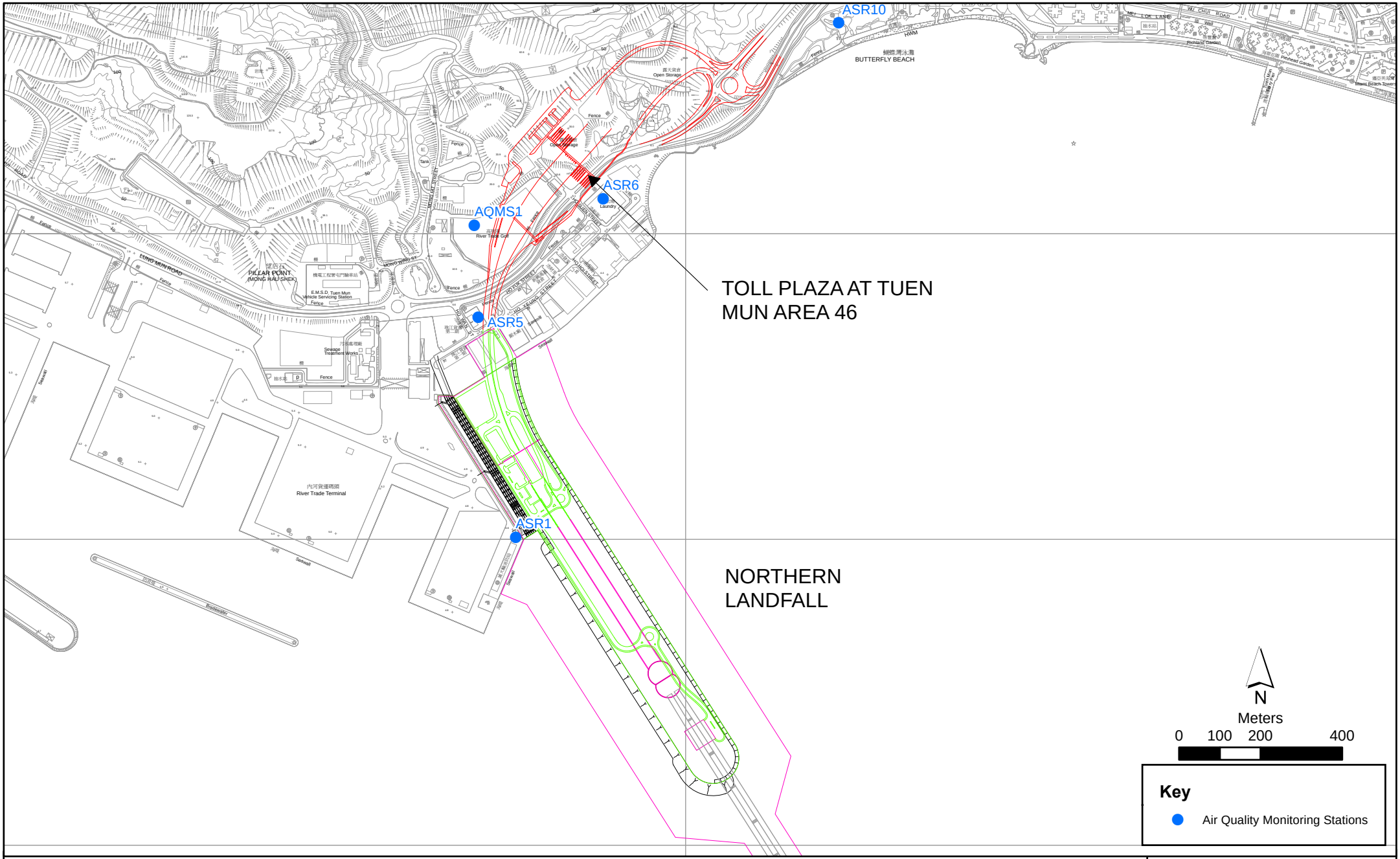


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring
(Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section)

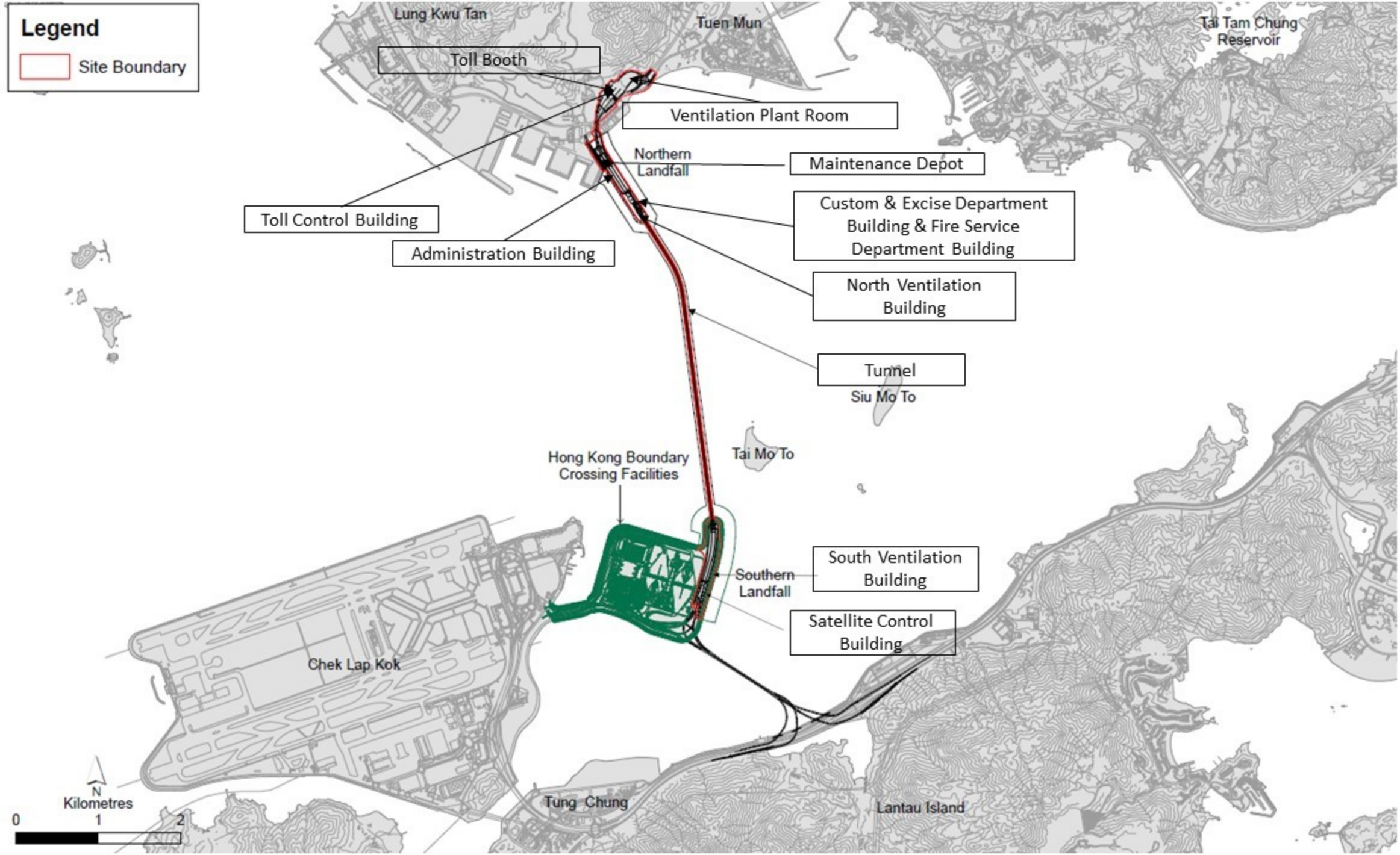
File: T:\GIS\CONTRACT\0212330\Mxd\0212330_ASR_for_Enhanced_TSP_monitoring.mxd
Date: 21/2/2014

Environmental Resources Management

ERM

Appendix B

Works Locations


Legend
Site Boundary
Lung Kwu Tan
Tuen Mun
Tai Tam Chung Reservoir
Toll Booth
Ventilation Plant Room
Northern Landfall
Maintenance Depot
Toll Control Building
Custom & Excise Department Building & Fire Service Department Building
Administration Building
North Ventilation Building
Tunnel
Siu Mo To
Tai Mo To
Hong Kong Boundary Crossing Facilities
South Ventilation Building
Southern Landfall
Satellite Control Building
Chek Lap Kok
N
Kilometres
0
1
2
Tung Chung
Lantau Island

Appendix C

Site Photo

Photo 1 – Fire Services Department Building & Customs and Excise Department Building

Photo 2 –North Ventilation Building

Appendix K

Landscape and Visual Monitoring for Establishment Period

Environmental Resources Management

2507, 25/F
One Harbourfront
18 Tak Fung Street
Hunghom, Kowloon
Hong Kong

Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660
E-mail: post.hk@erm.com
http://www.erm.com

5 September 2020

Our ref: 0215660_225_Establishment L&V Checklist Jun-Aug 2020.docx

By email

Mr Manson Yeung
Independent Environmental Checker
Ramboll Hong Kong Limited
21/F, BEA Harbour View Centre
56 Gloucester Road
Wan Chai, Hong Kong

Dear Sir,

Contract No. HY/2012/07
Tuen Mun–Chek Lap Kok Link –
Southern Connection Viaduct Section

Reporting of Landscape Planting Works during the 24-month Establishment Period (June to August 2020)

In accordance with *Section 7.3.1.2* of the *Updated EM&A Manual*, we are pleased to provide you with the *Establishment Landscape Monitoring Checklist for June to August 2020* for your perusal and counter-signature.

Should you require any further information or clarification, please do not hesitate to contact the undersigned.

Yours faithfully
For ERM-Hong Kong, Ltd

Dr Jasmine Ng
Environmental Team Leader
Direct Tel: (852) 2271 3311
E-mail: jasmine.ng@erm.com

c.c.
AECOM (Attn: Mr K P Wong)
GCL (Attn: Mr Roy Leung)

Registered Office
ERM-Hong Kong, Ltd
2507, 25/F
One Harbourfront
18 Tak Fung Street
Hunghom, Kowloon
Hong Kong

Offices worldwide

Establishment Inspection Checklist

Inspection Date: 16 & 22 June 2020 **Inspected By:** Ray Yam ; Candy Wong

Time: 9:30 a.m. – 4:30 p.m. **Weather Condition:** Sunny

Participants: 16th Jun : SOR – Simon Li (AM session), Spring Tsui , Adrian Wong (PM session) ;
Contractor – Roy Leung (AM session), Agnes Wong (PM session) ; IEC – Manson Yeung
22nd June – SOR – Adrian Wong , Spring Tsui (AM session)

1	Zone 1: Area along Cheung Tung Road	N/A or not observed	Yes	No	Remarks / Photo
1.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
1.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
1.3	Are trees or limb overhanging branches pruned?	☐	☑	☐	
1.4	Are pest and disease observed?	☐	☐	☑	
1.5	Are litter and debris removed?	☐	☑	☑ Ray	
1.6	Are plants/ grasses overgrown?	☐	☐	☑	
1.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☑	☐	☐	
1.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
1.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	☐	☑	☐	
		Good	Fair	Poor	
1.10	Overall health condition of the plants?	☑	☐	☐	

2	Zone 2: Southern Landfall, HKBCF	N/A or not observed	Yes	No	Remarks / Photo
2.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
2.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
2.3	Are trees or limb overhanging branches pruned?	☐	☑	☐	
2.4	Are pest and disease observed?	☐	☐	☑	
2.5	Are litter and debris removed?	☐	☑	☐	
2.6	Are plants/ grasses overgrown?	☐	☐	☑	
2.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☑	☐	☐	
2.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
2.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	☐	☑	☐	
		Good	Fair	Poor	
2.10	Overall health condition of the plants?	☑	☐	☐	

3	Zone 3: Area within Expressway Boundary	N/A or not observed	Yes	No	Remarks / Photo
3.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
3.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☐	☑	Obs. 1
3.3	Are trees or limb overhanging branches pruned?	☐	☑	☐	
3.4	Are pest and disease observed?	☐	☐	☑	
3.5	Are litter and debris removed?	☐	☐	☑	Obs. 3
3.6	Are plants/ grasses overgrown?	☐	☐	☑	
3.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☑	☐	☐	
3.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
3.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	☐	☑	☐	
		Good	Fair	Poor	
3.10	Overall health condition of the plants?	☑	☐	☐	Obs. 2

4	Zone 4: Slopes outside Expressway Boundary	N/A or not observed	Yes	No	Remarks / Photo
4.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
4.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
4.3	Are trees or limb overhanging branches pruned?	☐	☑	☐	
4.4	Are pest and disease observed?	☐	☐	☑	
4.5	Are litter and debris removed?	☐	☑	☐	
4.6	Are plants/ grasses overgrown?	☐	☐	☑	
4.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☑	☐	☐	
4.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
4.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	☐	☑	☐	
		Good	Fair	Poor	
4.10	Overall health condition of the plants?	☑	☐	☐	

5	General Document	N/A or not observed	Yes	No	Remarks / Photo
5.1	Are the records of watering, fertilizing, weeding, pruning and mowing kept for checking?	☐	☑	☐	

Follow up actions for previous Site Audit:

N/A

Observations:

Obs. 1 : Collapsed tree on slope (10NW-C/F13) should be rectified in upright position.

Obs. 2 : The tree with dead leaves should be renewed in terms of irrigation.

Obs. 3 : General refuse scattered on slope (10NW-C/F3) should be removed.

Corrective Actions (if any):

Health condition of trees as well as any supporting materials to trees should be regularly checked and reviewed.

General refuse should be avoided being discarded within landscape area.

General Conclusion:

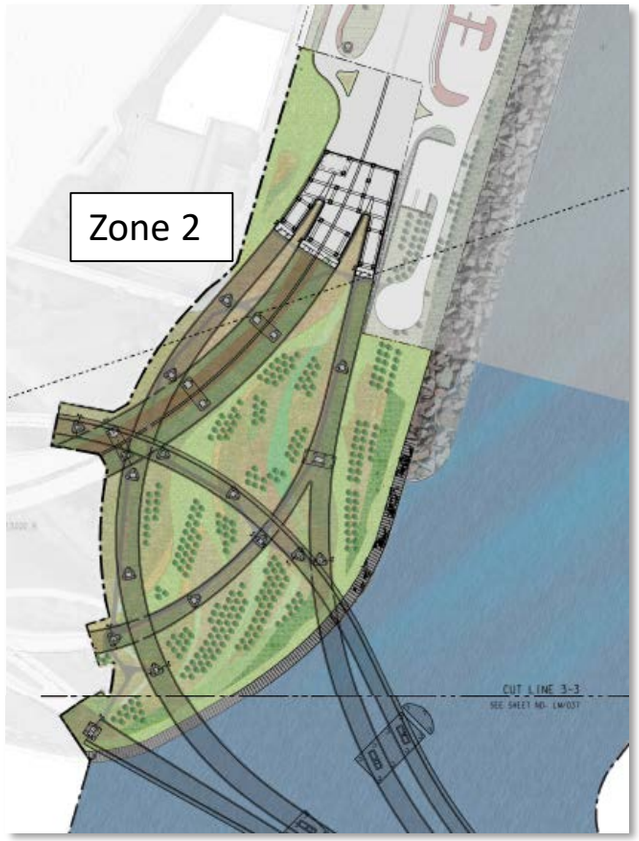
Total number of trees planted : Zone 1 : 72 ; Zone 2 : 275 ; Zone 3 : 714 ; Zone 4 : 143.

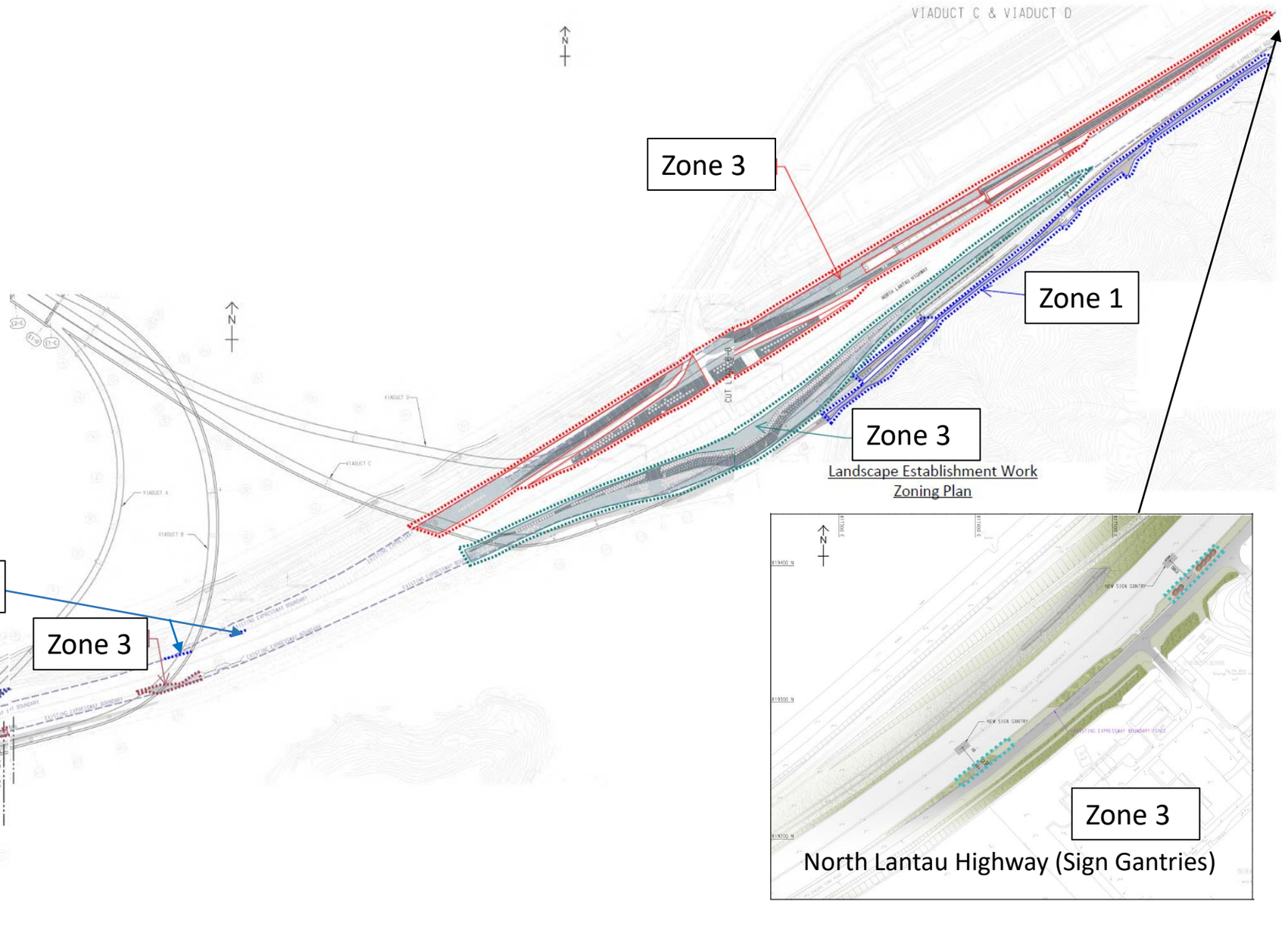
Planting area under Contract No. HY/2012/07 : 14.42ha (based on the survey data provided the SDR.

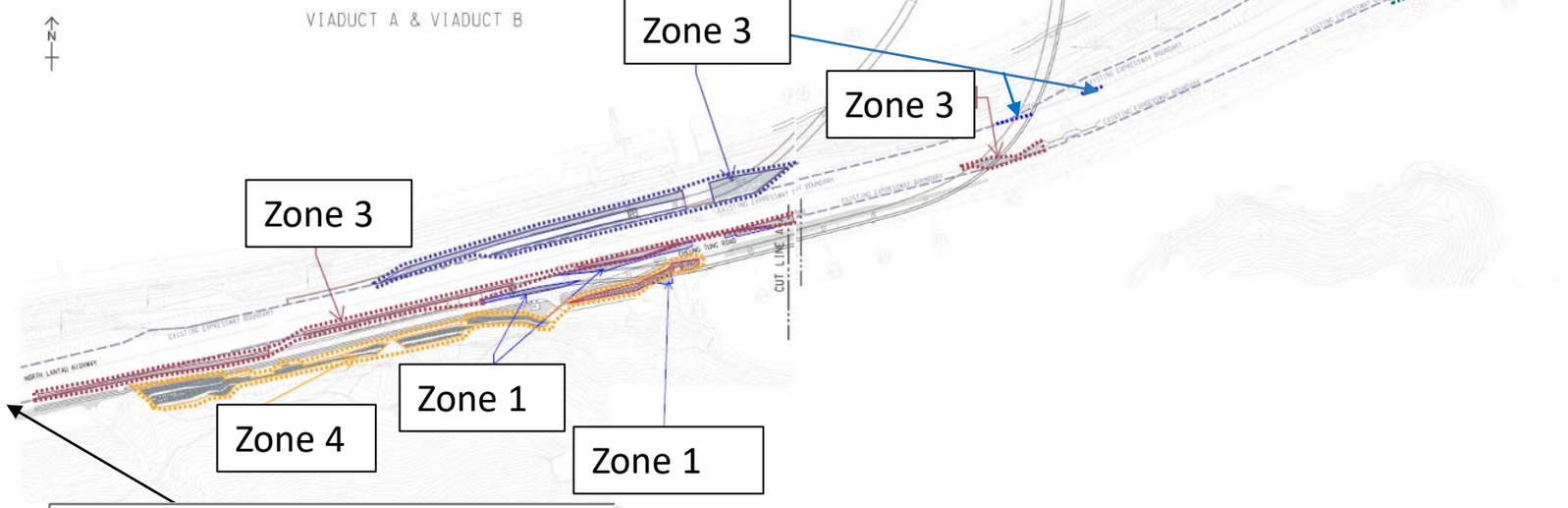
Inspected by (ET's Representative):	Ray Yan	Title:	Environmental Team
Signature:	Ray	Date:	22 Jun 2020
Reviewed by (RSS Landscape Representative):	Adrian Wong	Title:	RE
Signature:		Date:	22 JUNE 2020
Contractor's Representative:	Roy Leung	Title:	Env Officer
Signature:		Date:	22/6/2020
Checked by (IEC's Representative):	Manson Yeung	Title:	IEC
Signature:		Date:	14 Sep 20

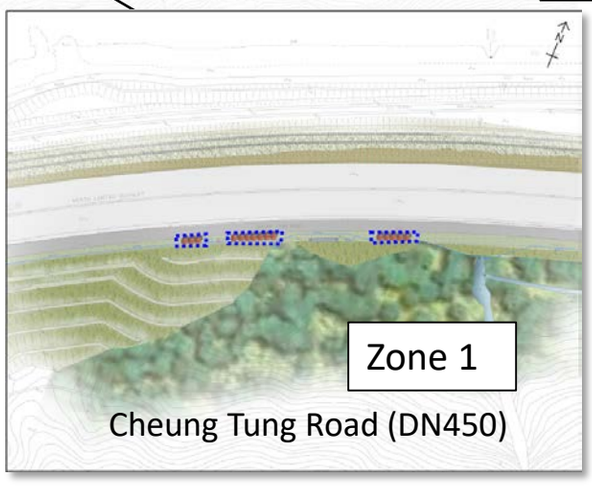
Location	Photo	Information
Zone 3 (10NW-C/F13)		Date: 22 June 2020 Observation 1: Collapsed tree on slope (10NW-C/F13) should be rectified in upright position. Species: *Bauhinia variegata*
Zone 3 (10NW-C/F15)		Date: 22 June 2020 Observation 2: The tree with dead leaves should be reviewed in terms of irrigation. Species: *Bauhinia variegata*
Zone 3 (10NW-C/F3)		Date: 22 June 2020 Observation 3: General refuse scattered on slope (10NW-C/F3) should be removed. Species: *Hymenocallis littoralis*, *Ficus microcarpa* 'Golden leaf', *Gardenia jasminoides*, *Pittosporum tobira*, *Rhodomyrtus tomentosa* and *Schefflera arboricola*

Annex A









CONTRACT NO. HY/2012/07
TUEN MUN – CHEK LAP KOK LINK
- SOUTHERN CONNECTION VIADUCT SECTION

ZONING PLAN – LANDSCAPE WORKS MONITORING (ESTABLISHMENT WORKS)

Slope Planting

CODE	BOTANCIAL 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
LIT.GLU.	*Litsea glutinosa* *	潺槁樹	WHIP	1500-2000
PHY.EMS.	*Phyllanthus emblica* *	餘甘子	WHIP	1500-2000
REE.THY.	*Reevesia thyrsoidea* *	梭羅樹	WHIP	1500-2000
TREE				
BAU.VAR.(A)	*Bauhinia variegata*	宮粉羊蹄甲	LIGHT STANDARD TREE	4000
BAU.VAR.(B)	*Bauhinia variegata*	宮粉羊蹄甲	STANDARD TREE	4000
BOM.CEI.	*Bombax ceiba*	木棉	LIGHT STANDARD TREE	4000-5000
BRI.TOM.	*Bridelia tomentosa* *	土蜜樹	LIGHT STANDARD TREE	3000
CIN.BUR.(A)	*Cinnamomum burmannii* *	陰香	LIGHT STANDARD TREE	4000
MEL.AZE.(A)	*Melia azedarach*	苦楝	LIGHT STANDARD TREE	4000
PLU.RUB.	*Plumeria rubra*	雞蛋花	2000 (H) X 2000 (S)	3500-4000
PALM				
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'	黃榕	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* *	毛茎	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* *	紅杜鵑	300(H) x 300(S)	500
RHO.TOM.	*Rhodomyrtus tomentosa* *	桃金娘	300(H) X 300(S)	500
SCH.ARB.	*Schefflera arboricola*	八葉	300(H) x 300(S)	500
GROUNDCOVER				
HYM.LIT.	*Hymenocallis littoralis*	蜘蛛蘭	300(H) X 300(S)	300
CLIMBER				
EPI.AUR.	*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
HYDROSEEDING / GRASS				
-	HYDROSEEDING	噴草	-	-

Roadside Planting

CODE	BOTANCIAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)
TREE				
BAU.VAR.(A)	*Bauhinia variegata*	宮粉羊蹄甲	LIGHT STANDARD TREE	4000
BAU.VAR.(B)	*Bauhinia variegata*	宮粉羊蹄甲	STANDARD TREE	5000
BAU.VAR.(H)	*Bauhinia variegata*	宮粉羊蹄甲	HEAVY STANDARD TREE	4000-5000
GAR.SUB.	*Garcinia subelliptica*	菲島福木	LIGHT STANDARD TREE	4000-5000
GRE.ROB.(H)	*Grevillea robusta*	銀樺	HEAVY STANDARD TREE	5000
ILE.ROT.	*Ilex rotunda*	鐵冬青	HEAVY STANDARD TREE	5000
LAG.SPE.	*Lagerstroemia speciosa*	大花紫薇	HEAVY STANDARD TREE	4000-4500
PLU.RUB.	*Plumeria rubra*	雞蛋花	2000 (H) X 2000 (S) - 2500 (H) X 2500 (S)	4000-5000
TAB.IMP	*Tabebuia impetiginosa*	風鈴木	HEAVY STANDARD TREE	5000
PALM				
LIV.CHI.	*Livistona chinensis*	蒲葵	2500(H) X 1500(S)	4000
PHO.SYL.	*Phoenix sylvestris*	銀海棗	2000(H) X 1500(S)	4000
SHRUB				
ALL.CAT.	*Allamanda cathartica*	軟枝黃蟬	300(H) X 300(S)	300/350
DUR.REP.	*Duranta repens*	假連翹	300(H) x 250(S)	400
FIC.MIC.'GOL'	*Ficus microcarpa* 'Golden Leaf'	黃榕	300(H) X 300(S)	350/500
GAR.JAS.	*Gardenia jasminoides* *	白蟬	300(H) x 300(S)	500
GOR.AXI.	*Gordonia axillaris* *	大頭茶	300(H) X 300(S)	350
IXO.CHI.	*Ixora chinensis* *	龍船花	300(H) x 300(S)	300
LIG.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* *	毛茎	300(H) X 300(S)	350
NER.OLE.	*Nerium oleander*	夾竹桃	400(H) x 250(S) / 300(H) X 300(S)	400/500
PIT.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
RHO.TOM.	*Rhodomyrtus tomentosa* *	桃金娘	300(H) X 300(S)	350/500
SCH.ARB.	*Schefflera arboricola*	八葉	300(H) x 300(S)	350/ 500
GROUNDCOVER				
ARA.DUR.	*Arachis duranensis*	金花生	100(H) X 200(S)	250
EPI.AUR.	*Epipremnum aureum*	綠蘿	200(H) x 300(S)	300
HYM.LIT.	*Hymenocallis littoralis*	蜘蛛蘭	300(H) X 300(S)	300
TRA.SPA.	*Tradescantia spathacea*	蚌花	150-200(H) x 150-300(S)	250
WED.TRI.	*Wedelia trilobata*	蟛蜞菊	200(H) X 150(S)	300
CLIMBER				
EPI.AUR.	*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
PAR.DAL.	*Parthenocissus dalzielii*	爬牆虎	MIN. 3 SHOOTS PER PLANT, 600-1000mm LONG	300
HYDROSEEDING / GRASS				
-	HYDROSEEDING	噴草	-	-
AXO.COM.	*Axonopus compressus*	地毯草(大葉草)	Whole piece turf 300(L)x300(W)x50(H)	-

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. GRASS SEED AS CEDD GENERAL SPECIFICATION 3.26(3).
4. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
5. PLANTING FOR SOUTHERN LANDFALL REFER TO FIGURE 6.4.

Status: Planting Schedule is a consolidated list of plant species based on the planting plans as commented/ approved by the relevant Government departments, i.e. LCSD or HyD/Landscape Division.

Planting Schedule - HY/2012/07 (Contract I) for Southern Landfall

CODE	BOTANCIAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)
TREE				
GRE.ROB.	*Grevillea robusta*	銀樺	HEAVY STANDARD TREE	4000-5000
PLU.RUB.	*Plumeria rubra*	雞蛋花(紅)	HEAVY STANDARD TREE	4000-5000
SHRUB				
RUS.EQU.	*Russelia equisetiformis*	爆仗竹	300(H) x 300(S)	250
GROUNDCOVER				
IPO.PES.	*Ipomoea pes-caprae* *	海灘牽牛	200(H) x 200(S)	200
LAN.MON.	*Lantana montevidensis*	蔓地興金鳳	200(H) x 200(S)	250
OPH.JAP.	*Ophiopogon japonicus* *	麥冬	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*	玫瑰葱蓮	100(H) x 200(S)	150
CLIMBER				
MON.DEL.	*Monstera deliciosa*	龜背竹	MIN. 5 SHOOTS PER PLANT, 300mm LONG	500
HYDROSEEDING / GRASS				
-	HYDROSEEDING	噴草	-	-
ZOY.JAP.	*Zoysia japonica*	朝鮮草	300(L)x300(W)x50(H)	-

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. GRASS SEED AS CEDD GENERAL SPECIFICATION 3.26(3).
4. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
5. 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).

Status: Planting Schedule is a consolidated list of plant species based on the planting plans as commented/ approved by the relevant Government departments, i.e. LCSD or HyD/Landscape Division.

Photo 1: *Ilex rotunda* along Cheung Tung Road within Zone 1
(Taken on: 22 June 2020)

Photo 2: *Ilex rotunda* along Cheung Tung Road within Zone 1
(Taken on: 22 June 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\01_Jun20-Aug20

Date: 25/07/20

Environmental Resources Management

ERM

Photo 3: *Ilex rotunda* along Cheung Tung Road within Zone 1
(Taken on: 22 June 2020)

Photo 4: *Ilex rotunda* along Cheung Tung Road within Zone 1
(Taken on: 22 June 2020)

Photo 5: (A): *Ilex rotunda*; and (B): *Tabebuia impetiginosa* along Cheung Tung Road within Zone 1 (Taken on: 22 June 2020)

Photo 6: *Ilex rotunda* along Cheung Tung Road within Zone 1 (Taken on: 22 June 2020)

Photo 7: *Garcinia subelliptica* along Cheung Tung Road within Zone 1
(Taken on: 22 June 2020)

Photo 8: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2
(Taken on: 16 June 2020)

Photo 9: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2 (Taken on: 16 June 2020)

Photo 10: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2 (Taken on: 16 June 2020)

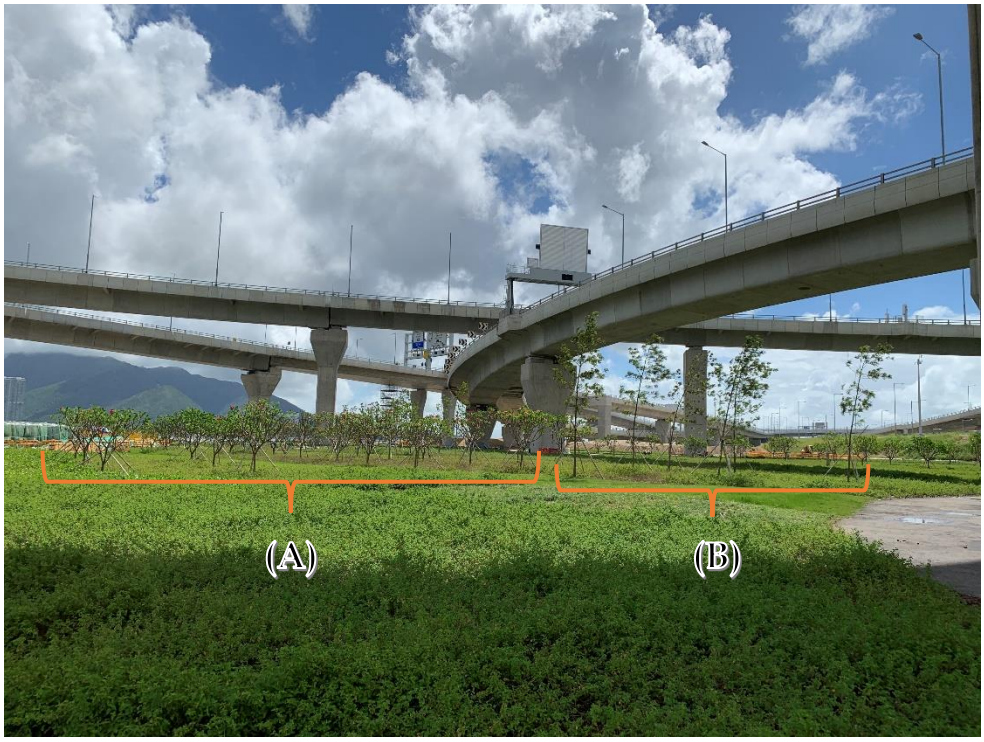


Photo 11: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2 (Taken on: 16 June 2020)

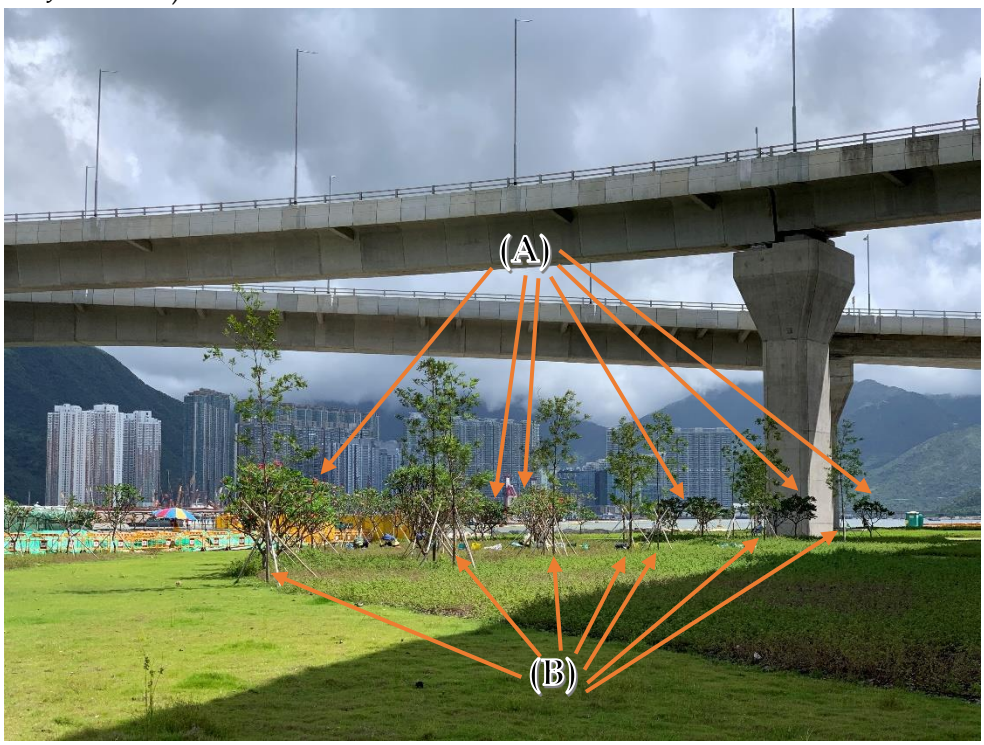


Photo 12: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2 (Taken on: 16 June 2020)

Photo 13: *Plumeria rubra* on HKBCF within Zone 2
(Taken on: 16 June 2020)

Photo 14: *Plumeria rubra* on HKBCF within Zone 2
(Taken on: 16 June 2020)

Photo 15: *Plumeria rubra* on HKBCF within Zone 2
(Taken on: 16 June 2020)

Photo 16: *Bauhinia variegata* along North Lantau Highway (East Bound) within Zone 3
(Taken on: 16 June 2020)

Photo 17: *Bauhinia variegata* along North Lantau Highway (West Bound) within Zone 3 (Taken on: 22 June 2020)

Photo 18: *Hymenocallis littoralis* along North Lantau Highway (West Bound) within Zone 3 (Taken on: 22 June 2020)

Photo 19: *Hymenocallis littoralis* along North Lantau Highway (East Bound) within Zone 3 (Taken on: 22 June 2020)

Photo 20: (A): *Hymenocallis littoralis*; (B): *Tradescantia spathacea*; and (C): *Gordonia axillaris*, *Melastoma candidum*, *Melastoma sanguineum* & *Rhodomyrtus tomentosa* along North Lantau Highway (slip road West Bound) within Zone 3 (Taken on: 22 June 2020)

Photo 21: *Plumeria rubra* opposite to Bridge Column C19 within Zone 3
(Taken on: 22 June 2020)

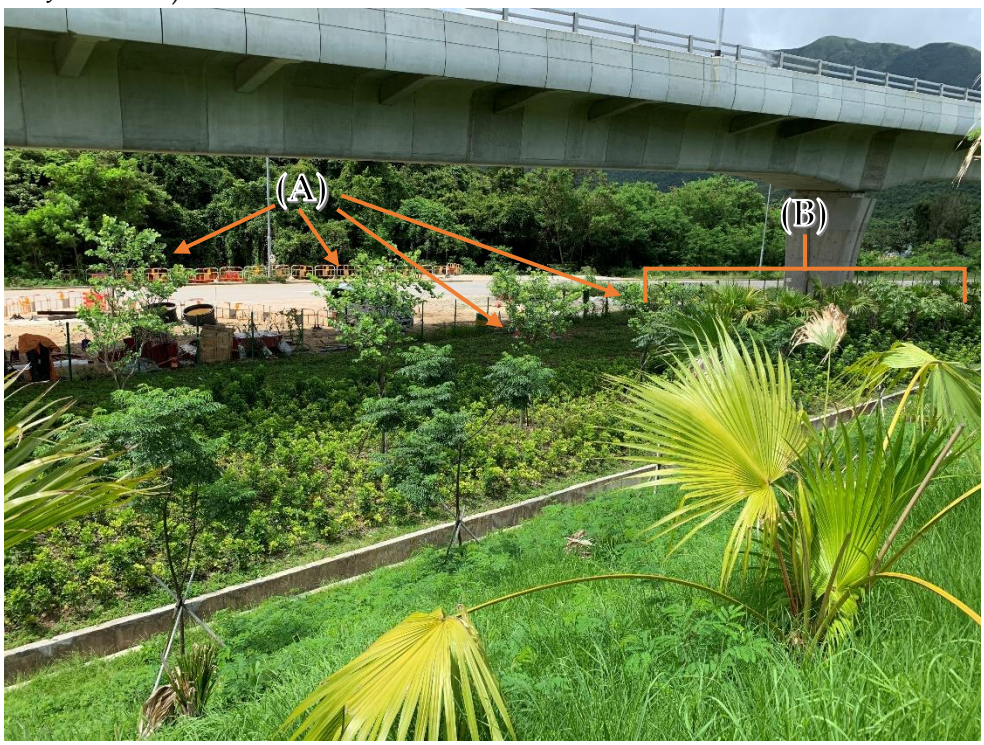


Photo 22: (A): *Bauhinia variegata*; and (B): *Livistona chinensis* between Bridge Columns C18 and C19 within Zone 3
(Taken on: 22 June 2020)

Photo 23: *Plumeria rubra* between Bridge Columns C13 and C14 within Zone 3
(Taken on: 22 June 2020)

Photo 24: *Grevillea robusta* in the vicinity of Bridge Column C13 within Zone 3
(Taken on: 22 June 2020)

Photo 25: (A): *Plumeria rubra*; (B): *Phoenix sylvestris*; and (C): *Bauhinia variegata* opposite to Bridge Column C12 within Zone 3

(Taken on: 22 June 2020)

Photo 26: (A): *Phoenix sylvestris*; and (B): *Plumeria rubra* opposite to Bridge Column C10 within Zone 3

(Taken on: 22 June 2020)

Photo 27: (A): *Bauhinia variegata;* and (B): *Plumeria rubra* in the vicinity of Bridge Column C9 within Zone 3
(Taken on: 22 June 2020)

Photo 28: *Bridelia tomentosa* in the vicinity of Bridge Column C9 within Zone 3
(Taken on: 22 June 2020)

Photo 29: *Livistona chinensis* on Slope 10NW-C/F15 within Zone 3
(Taken on: 22 June 2020)

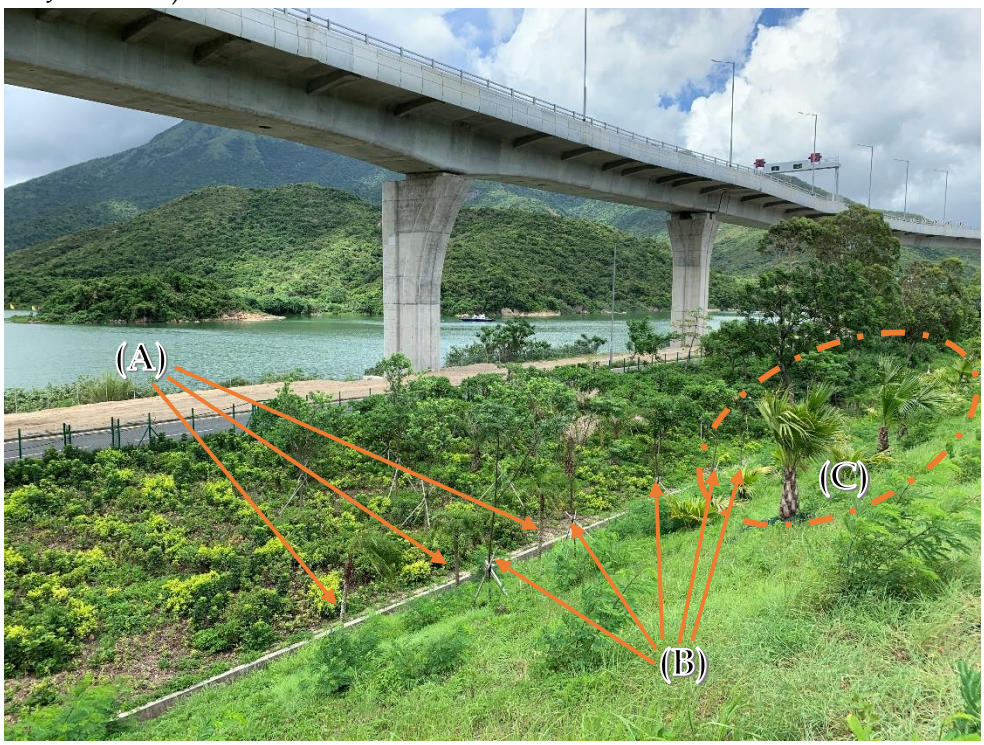


Photo 30: (A): *Phoenix roebelenii*; (B): *Melia azedarach*; and (C): *Livistona chinensis* on Slope 10NW-C/F15 within Zone 3
(Taken on: 22 June 2020)

Photo 31: *Livistona chinensis* on Slope 10NW-C/F14 within Zone 3
(Taken on: 22 June 2020)

Photo 32: *Livistona chinensis* on Slopes 10NW-C/F14 and 10NW-C/F15 within Zone 3
(Taken on: 22 June 2020)

Photo 33: (A): *Bridelia tomentosa*; and (B): *Melia azedarach* on Slope 10NW-C/F13 within Zone 3 (Taken on: 22 June 2020)

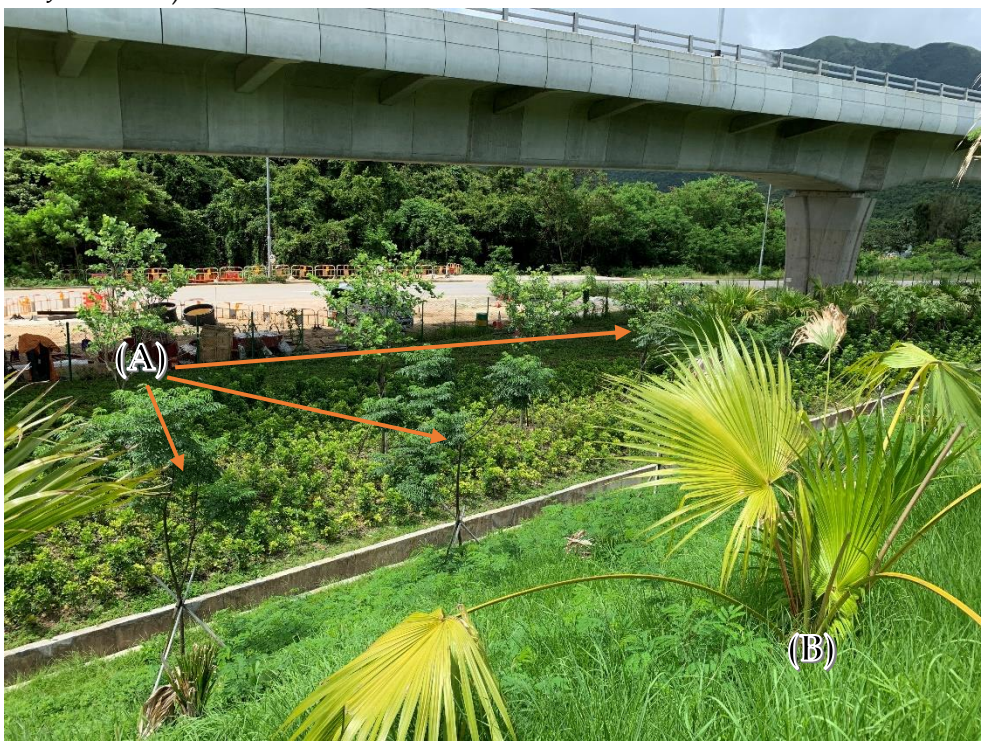


Photo 34: (A): *Melia azedarach*; and (B): *Livistona chinensis* on Slope 10NW-C/F13 within Zone 3 (Taken on: 22 June 2020)

Photo 35: *Phoenix roebelenii* on Slope 10NW-C/F13 within Zone 3
(Taken on: 22 June 2020)

Photo 36: *Livistona chinensis* on Slope 10NW-C/F13 within Zone 3
(Taken on: 22 June 2020)

Photo 37: *Hymenocallis littoralis* on Slope 10NW-C/F52 within Zone 3
(Taken on: 22 June 2020)

Photo 38: *Hymenocallis littoralis* adjacent to North Lantau Highway (East Bound) within Zone 3
(Taken on: 22 June 2020)

Photo 39: *Ficus microcarpa* "Golden Leaf" adjacent to North Lantau Highway (East Bound) within Zone 3
(Taken on: 22 June 2020)

Photo 40: *Bauhinia variegata* adjacent to North Lantau Highway (East Bound) within Zone 3
(Taken on: 22 June 2020)

Photo 41: *Bauhinia variegata* in the vicinity of Slope 10NW-C/F10 within Zone 3 (Taken on: 22 June 2020)

Photo 42: *Bauhinia variegata* in the vicinity of Slope 10NW-C/F10 within Zone 3 (Taken on: 22 June 2020)

Photo 43: (A): *Nerium oleander*; and (B): *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F11 within Zone 3
(Taken on: 22 June 2020)

Photo 44: (A): *Epipremnum aureum*; and (B): *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F10 within Zone 3
(Taken on: 22 June 2020)

Photo 45: (A): *Hymenocallis littoralis*; (B): *Epipremnum aureum*; and (C): *Ficus pumila* in the vicinity of Slope 10NW-C/FR17 within Zone 3
(Taken on: 22 June 2020)

Photo 46: *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F9 within Zone 3
(Taken on: 22 June 2020)

Photo 47: *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F9 within Zone 3
(Taken on: 22 June 2020)

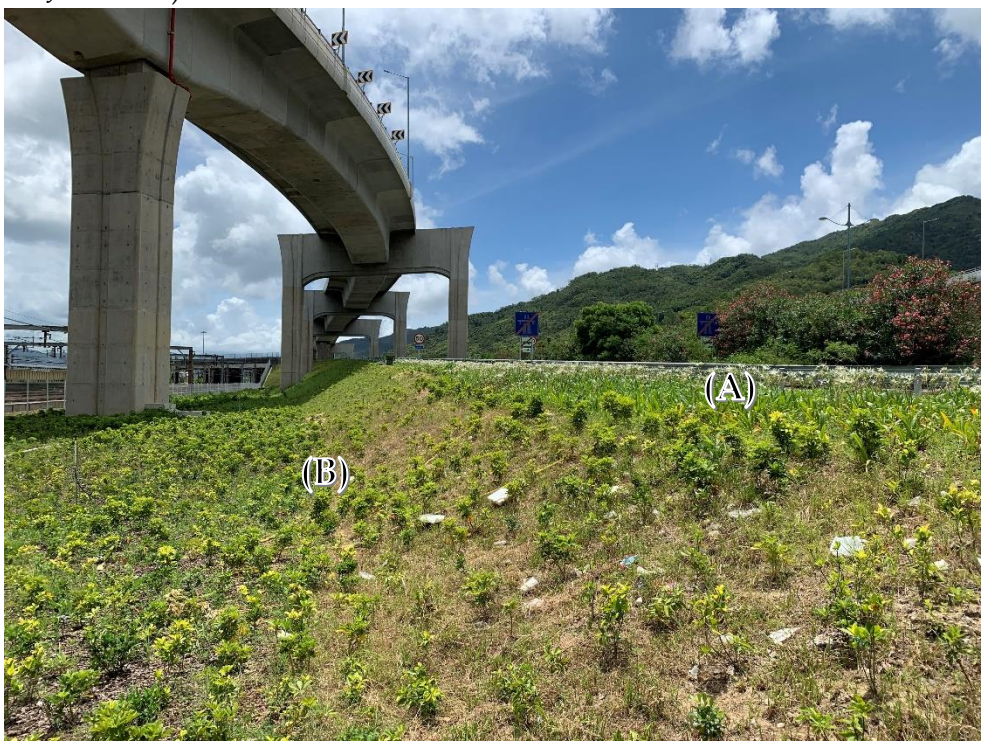


Photo 48: (A): *Hymenocallis littoralis*; and (B): *Ficus microcarpa* "Golden Leaf", *Gardenia jasminoides*, *Pittosporum tobira*, *Rhodomyrtus tomentosa* & *Schefflera arboricola* in the vicinity of and/or on Slope 10NW-C/F9 within Zone 3
(Taken on: 22 June 2020)

Photo 49: *Bauhinia variegata* in the vicinity of Bridge Column C8 within Zone 3
(Taken on: 22 June 2020)

Photo 50: *Bombax ceiba* in the vicinity of Bridge Column D10 within Zone 3
(Taken on: 22 June 2020)

Photo 51: *Bombax ceiba* on Slope 10NW-C/FR17 within Zone 3
(Taken on: 22 June 2020)

Photo 52: *Bombax ceiba* on Slope 10NW-C/FR17 within Zone 3
(Taken on: 22 June 2020)

Photo 53: *Bombax ceiba* on Slope 10NW-C/F11 within Zone 3
(Taken on: 22 June 2020)

Photo 54: *Bombax ceiba* on Slope 10NW-C/F11 within Zone 3
(Taken on: 22 June 2020)

Photo 55: *Bauhinia variegata* in the vicinity of sign gantry near North Lantau Highway (West Bound) within Zone 3
(Taken on: 16 June 2020)

Photo 56: *Litsea glutinosa* on Slope 9SE-B/C8 within Zone 4
(Taken on: 16 June 2020)

Photo 57: *Gordonia axillaris* on Slope 9SE-B/C9 within Zone 4
(Taken on: 16 June 2020)

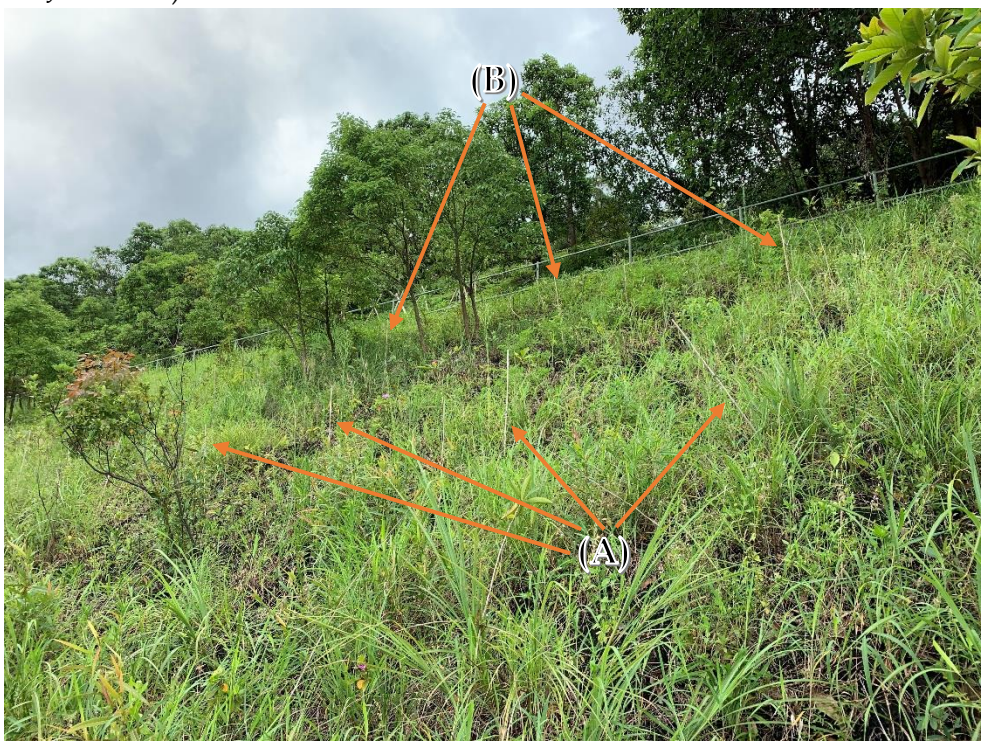


Photo 58: (A): *Bridelia tomentosa*; and (B): *Reevesia thysoidea* on Slope 9SE-B/C9 within Zone 4
(Taken on: 16 June 2020)

Photo 59: Existing vegetation on Slope 9SE-B/C112 within Zone 4
(Taken on: 16 June 2020)

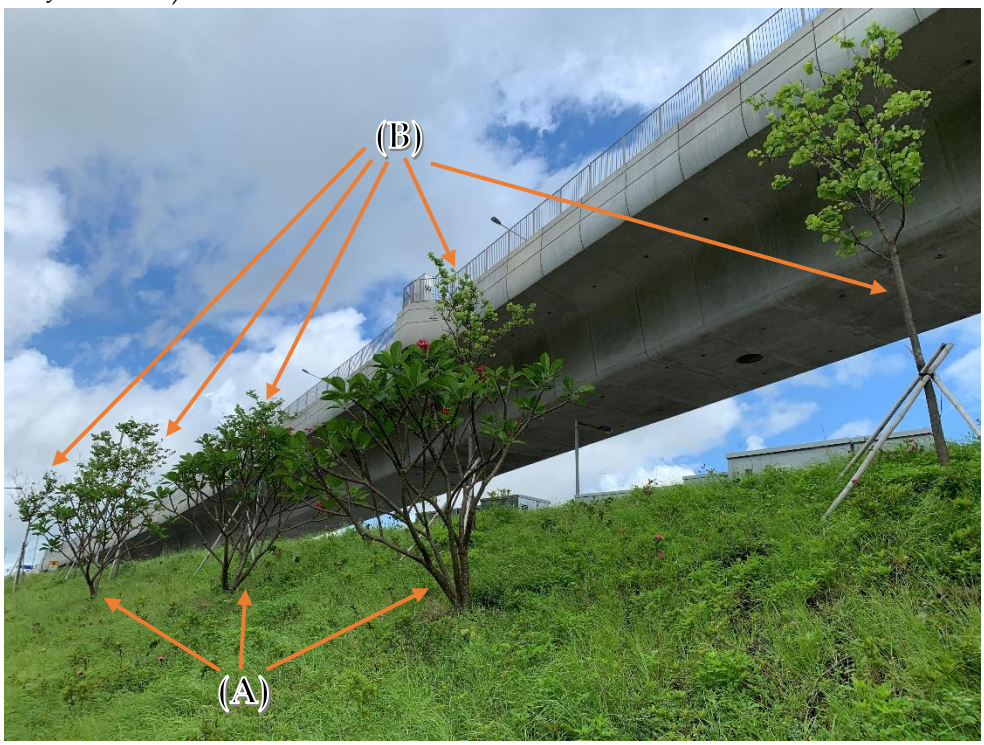


Photo 60: (A): *Plumeria rubra*; and (B): *Bauhinia variegata* on Slope 9SE-B/F85 within Zone 3
(Taken on: 16 June 2020)

Photo 61: (A): *Plumeria rubra;* and (B): *Bauhinia variegata* on Slope 9SE-B/F85 within Zone 3 (Taken on: 16 June 2020)

Photo 62: *Washingtonia robusta* on Slope 9SE-B/F85 within Zone 3 (Taken on: 16 June 2020)

Photo 63: *Phoenix roebelenii* on Slope 9SE-B/F85 within Zone 3
(Taken on: 16 June 2020)

Photo 64: *Caryota mitis* on Slope 9SE-B/F85 within Zone 3
(Taken on: 16 June 2020)

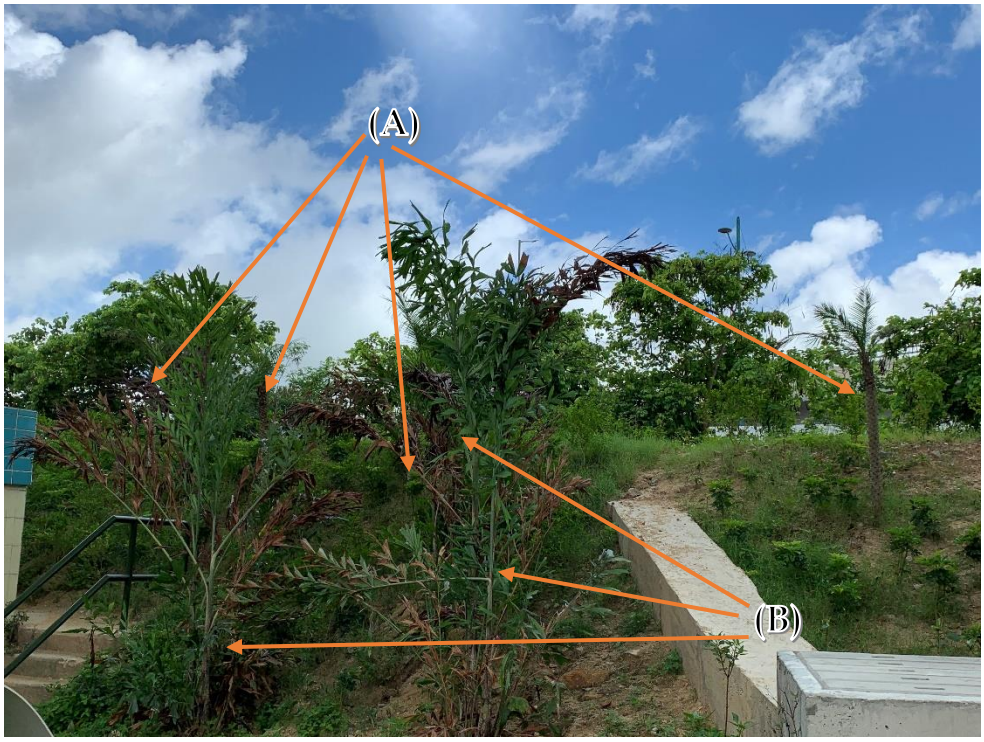


Photo 65: (A): *Phoenix roebelenii;* and (B): *Caryota mitis* on Slope 9SE-B/F85 within Zone 3 (Taken on: 16 June 2020)

Photo 66: *Caryota mitis* on Slope 9SE-B/F85 within Zone 3 (Taken on: 16 June 2020)

Photo 67: *Lagerstroemia speciosa* along Cheung Tung Road (DN450) within Zone 1 (Taken on: 22 June 2020)

Photo 68: *Lagerstroemia speciosa* along Cheung Tung Road (DN450) within Zone 1 (Taken on: 22 June 2020)

Photo 69: *Lagerstroemia speciosa* along Cheung Tung Road (DN450) within Zone 1 (Taken on: 22 June 2020)

Photo 70: *Lagerstroemia speciosa* along Cheung Tung Road (DN450) within Zone 1 (Taken on: 22 June 2020)

Photo 71: *Lagerstroemia speciosa* along Cheung Tung Road (DN450) within Zone 1 (Taken on: 22 June 2020)

Photo 72: *Lagerstroemia speciosa* along Cheung Tung Road (DN450) within Zone 1 (Taken on: 22 June 2020)

Total Tree Nos. = 72

N

SKYCITY

HKBCF

SIU HO WAN

SITE BOUNDARY

VIADUCT D

VIADUCT C

VIADUCT B

VIADUCT A

SK0323

SK0324

SK0325

SK0326

SK0327

SK0328

SK0329

SK0330

SK0331

SK0332

TUNG CHUNG

TAI HO WAN

TAI HO

NGAU TAU W

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

REV.	DATE	DESCRIPTION	DRAWN	PRC.	APP.
-	25/07/17	KEY PLAN FOR PLANTING PLAN & PROPOSED LANDSCAPE AREA UNDER MAINTENANCE RESPONSIBILITY OF LCSD	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
KEY PLAN OF PLANTING PLAN
FOR CHEUNG TUNG ROAD (LCSD)

SHEET 1 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0322 REV. -

Plot File by: RTOC1 23-Jul-16
PATH: K:\TO\DRAWINGS\SKETCH\SK0322-SK0333\SK0322 - KEY PLAN OF PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD).dgn

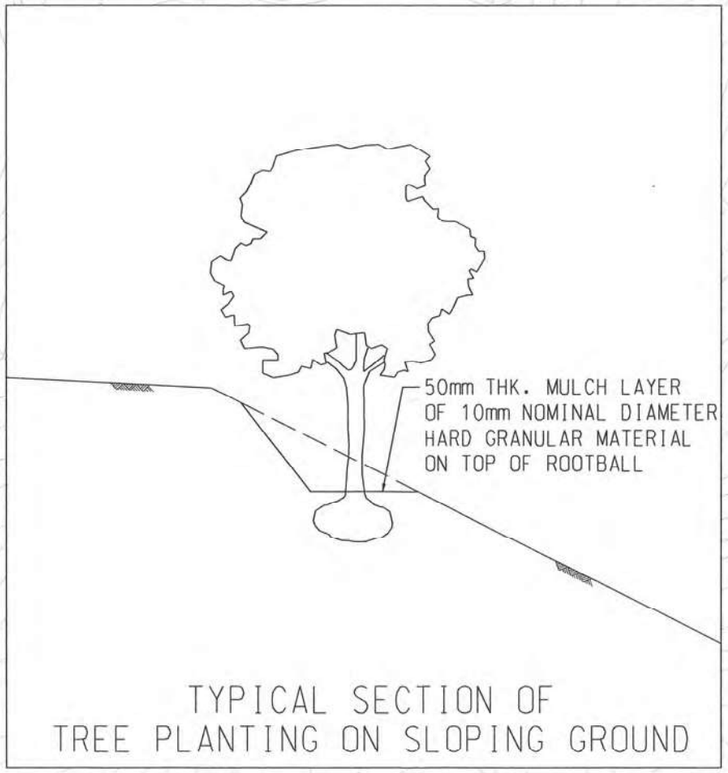
816300 E
816400 E
816500 E
816600 E
818700 N
818600 N
818500 N
N
13 m D.R.
NORTH LANTAU HIGHWAY
REALIGNED CHEUNG TUNG ROAD
3m APPROX.
AXO.COM. 1058m²
10NW-C/C26
ARA.DUR. 290m²
10NW-C/C27
ARA.DUR. 28m²
Photo 1
WED.TRI. 156m²
IXO.CHI. 70% 28m²
RHA.IND. 30% 12m²
10NW-C/C22
ILE.ROT.
5 nos. (LC01 - LC05)
Photo 2
AXO.COM. 159m²
PF2
ILE.ROT.
8 nos. (LC06 - LC13)
E.ROT. 6
CUT LINE A-A
SEE DRAWING NO. SK0324
Plot File by: RTOC1
PATH K:\TO\DRAWINGS\SKETCH\SK0323\SK0323A.dgn
03-Oct-18

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. 905.78m² (SPECIES / AREA(sq.m))
- CODE NOS. PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS



TYPICAL SECTION OF
TREE PLANTING ON SLOPING GROUND

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	03-10-18	PLANTING REVISED	GC	GH	CL
-	10-07-18	PLANTING ALONG CTR	GC	GH	CL

CLIENT
路 政 署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
CHEUNG TUNG ROAD (LCSD)

SHEET 2 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1744C	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0323 REV. A

818600 N

816000 E

816100 E

816200 E

816300 E

N

818500 N

818400 N

D19

CUT LINE B-B

SEE DRAWING NO. SK0325

CUT LINE A-A

SEE DRAWING NO. SK0323

REALIGNED CHEUNG TUNG ROAD

3m APPROX.

2m APPROX.

ABUTMENT C

PROPOSED FENCING

Photo 3

Photo 4

5 nos.
(LC14 - LC18)

6 nos.
(LC19 - LC24)

ARA.DUR.

ILE.ROT.

ESS

PILLAR B

ARA.DUR. 33m²

WED.TRI. 607m²

IXO.CHI. 70% 44m²

RHA.IND. 30% 19m²

AXO.COM. 1394m²

ILE.ROT. 6

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 — PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. 905.78m² — SPECIES / AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD — NL0482
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	03-10-18	PLANTING REVISED	GC	GH	CL
-	10-07-18	PLANTING ALONG CTR	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

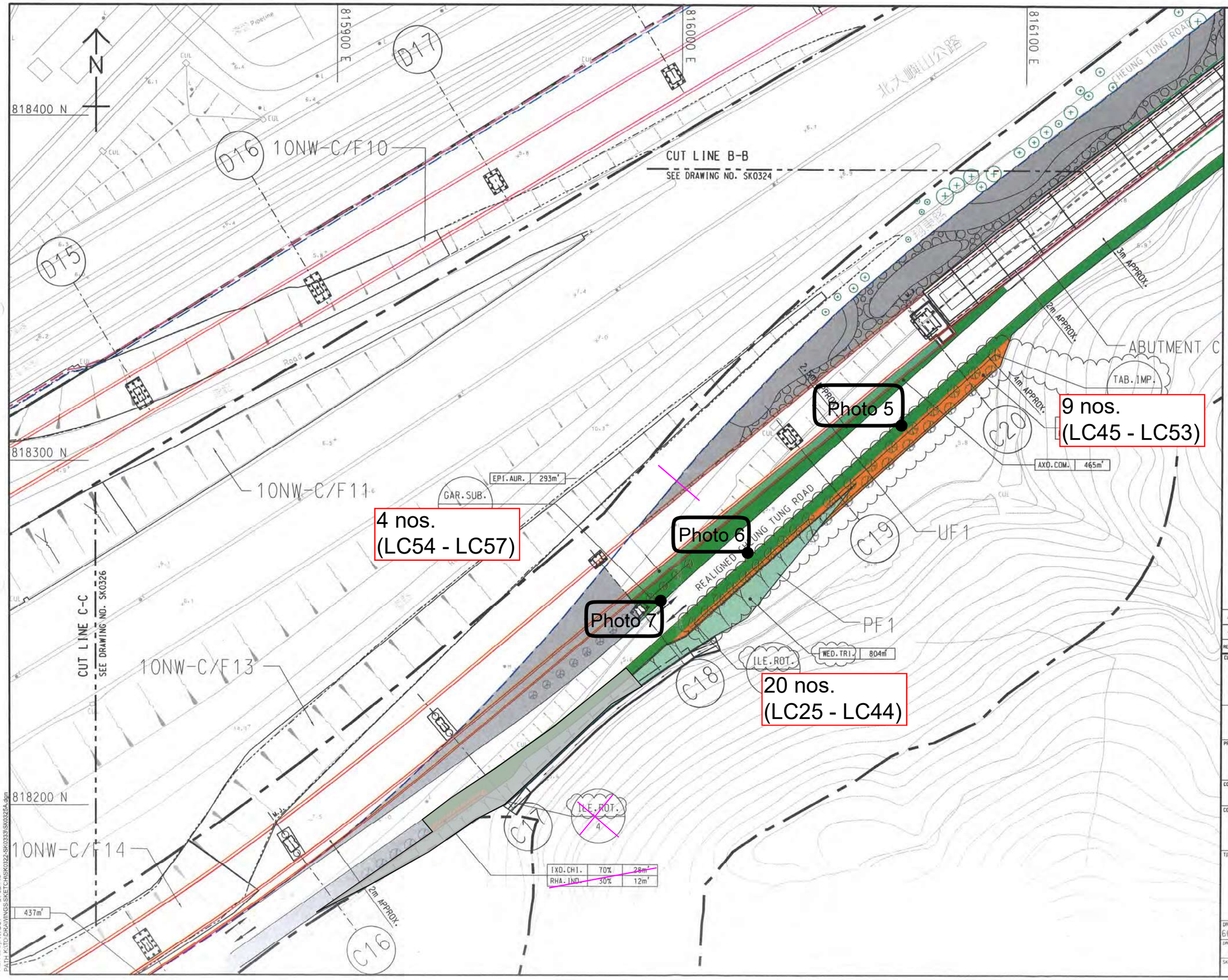
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
CHEUNG TUNG ROAD (LCSD)

SHEET 3 OF 12

DRAWING REFERENCE 60240249/C1/1754B
SCALE 1:1000 (A3)
DRAWN GC
PREPARED GH
APPROVED CL
SKETCH NO. SK0324
REV. A

Plot File by: RTOC1 03-Oct-18
PATH: K:\TO\DRAWINGS\SKETCH\SK0322-SK0333\SK0324A.dgn


NOTE:
1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.
LEGEND:
SITE BOUNDARY
EXISTING EXPRESSWAY BOUNDARY
PROPOSED EXPRESSWAY BOUNDARY
5SE - D/F10 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
PROPOSED ENGINEERING LAYOUT-VIADUCT
B15 PIER MARK
PROPOSED GROUNDCOVER
PROPOSED SHRUB
PROPOSED GRASS
RHA.EXC. 905.78m² SPECIES AREA(sq.m)
CODE NOS. PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
NL0482
EXISTING TREE (APPROXIMATE LOCATION)
PLANTING WORKS BY OTHERS
818400 N
818300 N
818200 N
815900 E
816000 E
816100 E
D15
D16
D17
10NW-C/F10
10NW-C/F11
10NW-C/F13
10NW-C/F14
CUT LINE B-B
SEE DRAWING NO. SK0324
CUT LINE C-C
SEE DRAWING NO. SK0326
CHEUNG TUNG ROAD
REALIGNED CHEUNG TUNG ROAD
ABUTMENT C
TAB.IMP.
2m APPROX.
3m APPROX.
4m APPROX.
2.5m APPROX.
C16
C17
C18
C19
C20
C39
EPI.AUR. 293m²
GAR.SUB.
AXO.COM. 465m²
UF1
PF1
WED.TRI. 804m²
ILE.ROT.
IXO.CH1. 70% 28m²
RHA.IND. 30% 12m²
437m²
Photo 5
9 nos.
(LC45 - LC53)
Photo 6
4 nos.
(LC54 - LC57)
Photo 7
20 nos.
(LC25 - LC44)
A 03-10-18 PLANTING REVISED GC GH CL
- 10-07-18 PLANTING ALONG CTR GC GH CL
REV. DATE DESCRIPTION DRAWN PRE. APP.
CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office
AECOM Imagine it. Delivered.
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO.
HY/2012/07
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION
TITLE
PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)
SHEET 4 OF 12
DRAWING REFERENCE 60240249/C1/1755B
SCALE 1:1000 (A3)
DRAWN GC PREPARED GH APPROVED CL
SKETCH NO. SK0325
REV. A
Plot Tile by: RTOC1 31-Jan-18
PATH: K:\TO\DRAWINGS\SKETCH\SK0322-SK0333\SK0325A.dgn

N

815600 E

815700 E

815800 E

818200 N

818100 N

D10

D11

D12

13m DR

1ONW-C/F9

1ONW-C/F11

1ONW-C/F14

1ONW-C/F15

1ONW-C/F17

CUT LINE C-C
SEE DRAWING NO. SK0325

CUT LINE D-D
SEE DRAWING NO. SK0327

CHEUNG TUNG ROAD

10m APPROX.

3m APPROX.

C11

C12

C13

C14

C15

M.J.

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 — PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. | 905.78M — SPECIES / AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
CHEUNG TUNG ROAD (LCSD)

SHEET 5 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1743B	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0326 REV. -

Plot File by: RTOC1 23-Jul-18
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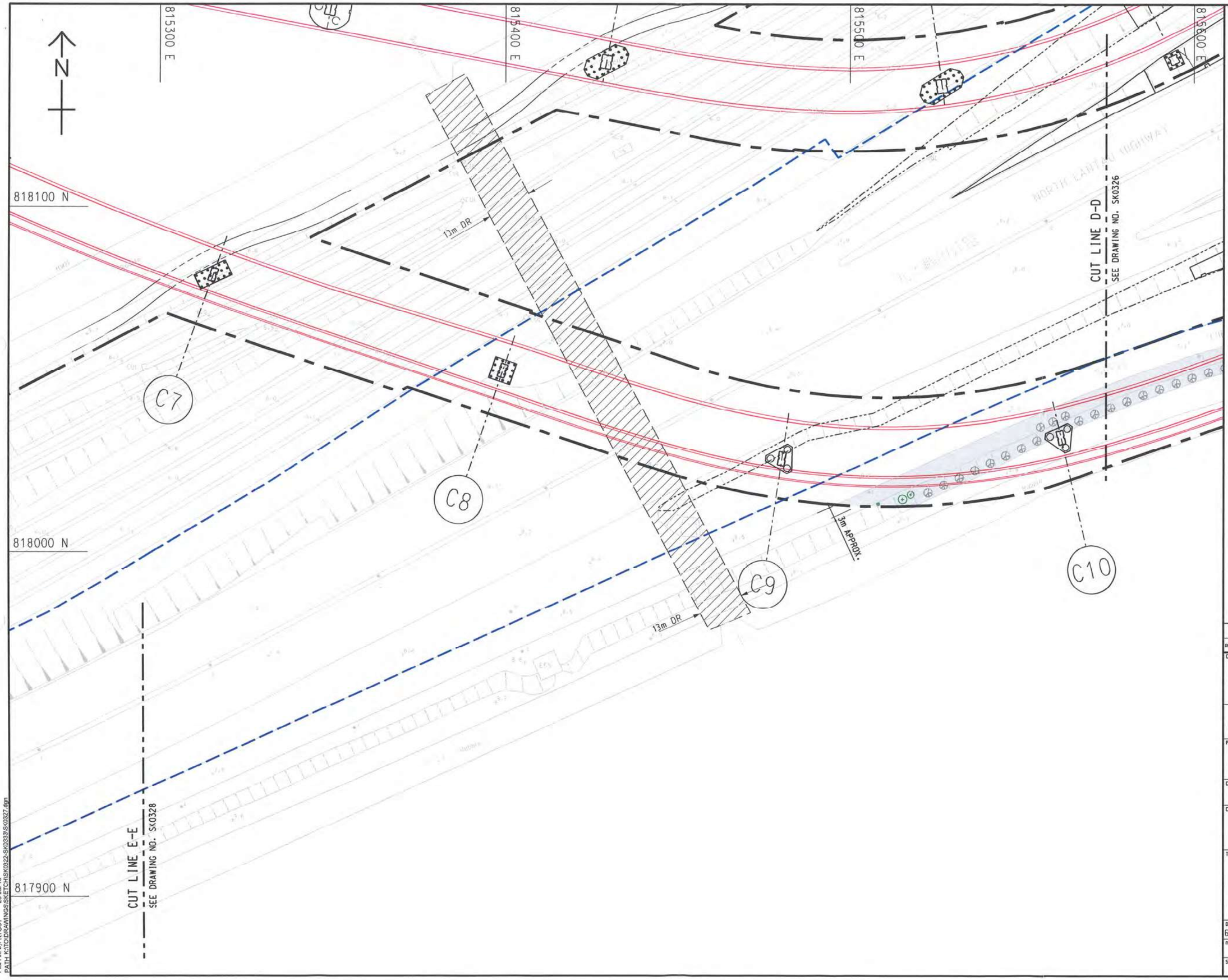

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. 905.78m — SPECIES / AREA(sq.m)
- CODE NOS. PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
CHEUNG TUNG ROAD (LCSD)

SHEET 6 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1743B	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0327 REV. -

Plot File by: RTOC1 23-Jul-18
PATH K:\TO\DRAWINGS\SKETCHES\SK0322-SK0333\SK0327.dgn

815000 E

815100 E

815200 E

815300 E

817900 N

817800 N

8m DR

8m DR

10SW-A/F53

B8

B9

B10

CUT LINE F-F
SEE DRAWING NO. SK0329

CUT LINE E-E
SEE DRAWING NO. SK0327

N

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. 905.78m² — SPECIES — AREA(sq.m)
- CODE NOS. PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD — NL0482
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
CHEUNG TUNG ROAD (LCSD)

SHEET 7 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1745C	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0328 REV. -

Plot File by: RTOC1 23-Jul-18
PATH: K:\TO\DRAWINGS\SKETCHES\SK0322-SK0333\SK0328.dgn

814700 E
814800 E
814900 E
815000 E
817900 N
817800 N
817700 N
N
A8
A9
B10
B11
B12
B13
B14
B15
CUT LINE E-E
SEE DRAWING NO. SK0328
CUT LINE F-F
SEE DRAWING NO. SK0330
9SE-B/R1&R2
AXO.COM. 205m²
TAI HO WAN
Road
Subway
Pipeline
M.J.

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F70 — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 — PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. 905.78m² — SPECIES / AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)

SHEET 8 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1745C	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0329 REV. -

Plot File by: RTOC1
23-Jul-18
PATH:K:\TO\DRAWINGS\SKETCH\SK0322-SK0333\SK0329.dgn

814400 E
814500 E
814600 E
814700 E
817800 N
817700 N
817600 N
N
9SE-B/R1&R2
A10
A11
B15
B16
B17
B18
9SE-B/F85
9SE-B/F9
9SE-B/C8
NORTH LANTAU HIGHWAY
REALIGNED CHEUNG TUNG ROAD
MTR (Tung Chung Line)
MTR (Airport Express)
Road
Runway
Rubble
Pipeline
WSD WASHOUT CHAMBER
ESS
EPI.AUR. 196m²
AXO.COM. 156m²
EPI.AUR. 53m²
1m APPROX.
2.5m APPROX.
2m APPROX.
ARA.DUR. 196m²
AXO.COM. 290m²
IXO.CH. 62m²
AXO.COM. 55m²
NL0506
NL0483
NL0498
NL0490
NL0489
A149
CUT LINE G-G
SEE DRAWING NO. SK0331
CUT LINE F-F
SEE DRAWING NO. SK0329

Transplant tree collapsed in holding nursery after typhoon

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 — PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. 905.78m² — SPECIES / AREA(sq.m)
- CODE NOS. — PROPOSED TREE. MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	21-12-18	PLANTING AT SLOPE No. 6SE-B/F85 REVISED	GC	GH	CL
-	24-05-18	PLANTING ALONG CTR	GC	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)

SHEET 9 OF 12

DRAWING REFERENCE 60240249/C1/1745C
SCALE 1:1000 (A3)
DRAWN GC | PREPARED GH | APPROVED CL
SKETCH NO. SK0330
REV. A

Plot File by: RTOC1 21-Dec-18
PATH: K:\TC\DRAWINGS\SKETCH\SK0322-SK0333\SK0330A.dgn

814200 E

814300 E

814400 E

9SE-B/FR8

817700 N

817600 N

817500 N

N

REALIGNED CHEUNG TUNG ROAD

CUT LINE H-H
SEE DRAWING NO. SK0332

CUT LINE G-G
SEE DRAWING NO. SK0330

PROPOSED FENCING

9SE-B/C8

9SE-B/C9

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/FT0 — EXISTING SJMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 — PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. | 905.78m — SPECIES / AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)

SHEET 10 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1746C	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0331 REV. -

Plot File by: RTOC1 23-Jul-18
PATH: K:\TO\DRAWINGS\SKETCHES\K0322-SK0331\SK0331.dgn

813900 E

814000 E

814100 E

817600 N

817500 N

N

NORTH LANTAU HIGHWAY

REALIGNED CHEUNG TUNG ROAD

NL0495

CUT LINE H-H
SEE DRAWING NO. SK0332

NOTE:

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- B15 — PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA.EXC. | 905.78m — SPECIES | AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT

TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.

HY/2012/07

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE

PLANTING PLAN FOR
CHEUNG TUNG ROAD (LCSD)

SHEET 11 OF 12

DRAWING REFERENCE	SCALE
60240249/C1/1746C	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0332 — REV. -

Plot File by: RTOC1 23-Jul-18
PATH K:\TO\DRAWINGS\SKETCHS\SK322-SK0333\SK0332.dgn

N

SIU HO WAN

HKBCF

SKYCITY

Ferry Terminal

DRAWING REFERENCE: APPROVED TREE REMOVAL APPLICATION
UNDER AGREEMENT NO. CE7/2011(HY)
SHEET NO. CP/021 TO CP/030

SITE BOUNDARY

SK0113

VIADUCT A

VIADUCT B

VIADUCT C

VIADUCT D

SK0005

SK0006

SK0007

SK0008

SK0009

SK0010

SK0011

SK0012

SK0013

SK0014

SK0015

TUNG CHUNG

TAI HO WAN

TAI HO

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	10/07/15	FOR TRA (LCSD NO.4)	YWK	GH	CL
A	05/03/14	SUPPLEMENTARY TRA	YWK	GH	CL
-	27/01/14	SUPPLEMENTARY TRA	KLH	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
COMPENSATORY PLANTING PLAN

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1)

DRAWN	PREPARED	APPROVED
YWK	GH	CL

SKETCH NO. SK0005 REV. B

Plot File by: RTOC2 15-Jul-15
PATH: K:\TO\DRAWINGS\SKETCH\SK0005-SK0017\SK0005B.dgn

LEGEND:

CODE NOS. — NOS. OF COMPENSATORY TREE MAINTENANCE UNDERTAKEN BY LCSD (SUBJECT TO DETAILED DESIGN)

DN450 — PROPOSED WATERMAIN (DN450)

LIGHT POLE NO. FB7361

LIGHT POLE NO. FB7360

Photos 67, 68 & 69

Photo 70

Photos 71 & 72

DN450

CAL.VIM.

6 nos.
(LC67 - LC72)

4 nos.
(LC63 - LC66)

5 nos.
(LC58 - LC62)

DSD VENT AND VENT STACK

MOBILE NETWORK BASE STATION

NOTES:

1. SETTING OUT OF COMPENSATORY TREE PLANTING TO ALIGN WITH EXISTING TREES.

2. SETTING OUT OF COMPENSATORY TREE PLANTING TO ADJUST ON SITE TO SUIT FOOTINGS OF DN450 WATERMAIN.

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	10/07/15	TRA FOR LCSD NO.4	YWK	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
COMPENSATORY PLANTING PLAN
FOR TRA LCSD NO.4

DRAWING REFERENCE	SCALE
NEW DRAWING	1:1000 (A3)

DRAWN	PREPARED	APPROVED
YWK	GH	CL

SKETCH NO. SK0113 — REV. -

Plot File by: RTOC2 15-Jul-15
PATH: K:\TD\DRAWINGS\SKETCH\SK0113-SK0114\SK0113.dgn

813600 E

813800 E

814000 E

819400 N

819200 N

819000 N

LAN.MON. 45m²
ZOY.JAP. 59m²
ZOY.JAP. 471m²
ZOY.JAP. 381m²
ZOY.JAP. 1220m²
HYDROSEEDING 200m²
OPH.JAP. 214m²
RUS.EQU. 19m²
MON.DEL. 19m²
LAN.MON. 156m²
SYN.POD. 83m²

SYN.POD. 25m²
SYN.POD. 904m²
OPH.JAP. 20m²
OPH.JAP. 189m²

SYN.POD. 82m²
ZEP.ROS. 199m²
OPH.JAP. 20m²
MON.DEL. 13m²
SYN.POD. 78m²
ZEP.ROS. 211m²
OPH.JAP. 86m²
SYN.POD. 289m²
SYN.POD. 194m²
LAN.MON. 971m²
SYN.POD. 462m²
OPH.JAP. 50m²
SYN.POD. 73m²
OPH.JAP. 1023m²
OPH.JAP. 189m²
LAN.MON. 36m²
OPH.JAP. 5m²
OPH.JAP. 8m²
OPH.JAP. 20m²
OPH.JAP. 17m²
LAN.MON. 13m²
OPH.JAP. 29m²

OPH.JAP. 19m²
OPH.JAP. 9m²
OPH.JAP. 43m²
OPH.JAP. 129m²
OPH.JAP. 55m²
LAN.MON. 77m²
OPH.JAP. 455m²
ZOY.JAP. 343m²
LAN.MON. 885m²
LAN.MON. 960m²
ZEP.ROS. 60m²
LAN.MON. 201m²

ZEP.ROS. 115m²
TRA.SPA. 143m²
ZEP.ROS. 181m²
OPH.JAP. 235m²
ZOY.JAP. 1524m²
LAN.MON. 145m²
LAN.MON. 367m²
ZEP.ROS. 265m²
OPH.JAP. 393m²

ZEP.ROS. 113m²
LAN.MON. 251m²

OPH.JAP. 24m²
ZEP.ROS. 229m²
LAN.MON. 249m²

IPO.PES. 136m²
LAN.MON. 826m²
OPH.JAP. 1109m²
LAN.MON. 382m²
ZOY.JAP. 1415m²
LAN.MON. 1627m²
IPO.PES. 850m²
IPO.PES. 473m²
LAN.MON. 850m²
ZOY.JAP. 41m²
LAN.MON. 142m²
OPH.JAP. 53m²
LAN.MON. 297m²
ZOY.JAP. 846m²
OPH.JAP. 50m²
LAN.MON. 52m²
TRA.SPA. 324m²
OPH.JAP. 191m²
LAN.MON. 174m²
LAN.MON. 486m²
OPH.JAP. 67m²
OPH.JAP. 270m²
LAN.MON. 294m²
LAN.MON. 1262m²
TRA.SPA. 229m²
OPH.JAP. 578m²
LAN.MON. 1050m²
OPH.JAP. 539m²
TRA.SPA. 38m²
ZOY.JAP. 44m²
IPO.PES. 850m²
LAN.MON. 1464m²
ZOY.JAP. 2496m²

MON.DEL. 20m²
SYN.POD. 176m²
OPH.JAP. 50m²
OPH.JAP. 174m²
LAN.MON. 198m²
LAN.MON. 7m²
ZEP.ROS. 28m²
ZOY.JAP. 99m²
ZOY.JAP. 923m²
OPH.JAP. 490m²

E13-A
E13-B
E13-C
E14-D
MJ
110m - TUNG CHUNG NAVIGATION CHANNEL

N

NOTES:

1. THE PROPOSED PLANTING SPECIES AND ARRANGEMENT ON THE SOUTHERN LANDFALL SHALL FOLLOW THE GUIDELINES IN HONG KONG INTERNATIONAL AIRPORT APPROVED PLANT SPECIES LIST (REVISION 3.1:JUNE 2007). AS ATTACHED IN ER AREA 4.
2. THE DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET NOS. 60240249/C1/1741 TO 1746 AND 1771.

LEGEND:

- SITE BOUNDARY
- AS-BUILT U-Channel
- AS-BUILT MAINTENANCE ACCESS
- AS-BUILT MAINTENANCE FOOTPATH
- AS-BUILT SHRUB PLANTING
- AS-BUILT ENGINEERING LAYOUT-VIADUCT
- D19 PIER MARK
- RHA.EXC. 905.78 m² (SPECIES / AREA(sq.m))
- 10NW - C/F11 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS

DRAFT

REV.	DATE	DESCRIPTION	CHK'D CWN
Z	NOV/19	AS-CONSTRUCTED	

CLIENT

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
SHRUB PLANTING PLAN

SHEET 1 OF 6

STATUS	SCALE
AS-BUILT DRAWING	1:1000 (A1) 1:2000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

DRAWING NO. 60240249/C1/1741 REV. Z

Plot File by: RTOC1 21-Jan-20
PATH K:\TO\DRAWINGS\As-built\As-built Drawing\60240249_C1_1741Z.dgn

813600 E

813800 E

814000 E

819400 N

819200 N

819000 N

PLU.RUB. 37

GRE.ROB. (H) 4

PLU.RUB. 14

PLU.RUB. 30

PLU.RUB. 50

PLU.RUB. 22

GRE.ROB. (H) 17

GRE.ROB. (H) 16

PLU.RUB. 70

PLU.RUB. 3

GRE.ROB. (H) 5

PLU.RUB. 7

Photo 8

Photo 9

Photo 15

Photo 11

Photo 10

Photo 14

Photo 13

Photo 12

N

GENERAL NOTES FOR LANDSCAPE WORKS:

1. GENERAL INFORMATION
THESE DRAWINGS INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGNS, REFER TO ENGINEERING DRAWINGS. FOR CONTRACTOR OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGES AND UTILITIES, REFER TO ENGINEERING DRAWINGS. THE CONTRACTOR SHALL REPORT TO THE SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.

2. DRAWING DIMENSIONS
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

3. EXISTING TREES / VEGETATION
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN ER PART 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING / RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.

4. TREE FELLING
NO TREES SHALL BE FELLED OR REMOVED WITHOUT DLO APPROVAL.

5. GROUND PREPARATION WORKS
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.

6. SOIL MIX AND SOIL CONDITIONER
SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE FROM DELETERIOUS MATERIALS AS SPECIFIED IN CLAUSE 3.30 AND 3.31 OF ER PART 14.

7. MULCHING
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25MM BELOW ADJACENT FINISHED SURFACES, AND COMPLY WITH CLAUSE 3.32 OF ER PART 14.

8. PLANT NAME
BOTNAICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.

9. PLANTING PATTERN
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.

10. TREE PLANTING
LOCATIONS OF TREES ARE SHOWN ON THE DRAWINGS. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCMENT OF PLANTING.

11. STAKING
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENED TWICE A YEAR.

12. DRAINAGE
ALL PLANTING AREA AND DRAINAGE DETAILS SHALL REFER TO ENGINEERING DRAWINGS.

13. UNDERGROUND UTILITIES
UTILITY COVERS SERVICES SHOWN ON THE PLANS ARE INDICATIVE. EXACT LOCATIONS TO BE CONFIRMED BY THE SO. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSD'S VALVES, OR WITHIN A DISTANCE OF 1M FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2M OF A ROAD KERB OR ENGINEERING STRUCTURE.

14. WATER
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84. - WATERING.

15. ESTABLISHMENT WORKS
ALL PLANTED MATERIAL SHALL BE MAINTAINED AFTER PLANTING FOR A PERIOD AS SPECIFIED IN THE CONTRACT DOCUMENTS.

16. PLANTING AREA
1) ALL PLANTING AREAS ARE BACKFILLED WITH 1.2m COMPACTED DEPTH OF SOIL MIX.

2) ALL EDGES OF PLANTING AREA AT ROADWAYS ARE GRANITE KERBS IN ACCORDANCE WITH DETAILS.

3) ALL EDGES OF PLANTING AREA ADJACENT TO PATHWAY ARE 40MM BELOW ADJACENT PAVEMENT AND IN ACCORDANCE WITH THE DETAILS.

4) ALL SOIL LEVELS ARE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING. ALL PLANTING WORK ARE DIRECTED ON SITE BY THE SUPERVISING OFFICER.

5) ALL SPACING FOR SHRUBS AND GROUNDCOVER PLANTING ARE AT STAGGERED SPACING.

6) ALL FINAL TREE LOCATIONS ARE SUBJECT TO DIRECTION BY THE SUPERVISING OFFICER.

7) ALL HEIGHT INDICATED FOR TREES ARE OVERALL HEIGHT.

8) ALL HEIGHT INDICATED FOR PALMS ARE CLEAR TRUNK HEIGHT.

9) ALL TREES ARE STAKED/GUYED ACCORDING TO THE SPECIFICATION AND DETAILS.

10) ROOT BARRIERS ARE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDER.

17. THE PROPOSED PLANTING SPECIES AND ARRANGEMENT ON THE SOUTHERN LANDFALL SHALL FOLLOW THE GUIDELINES IN HONG KONG INTERNATIONAL AIRPORT APPROVED PLANT SPECIES LIST (REVISION 3.1:JUNE 2007) AS ATTACHED IN ER PART 4.

LEGEND:

- SITE BOUNDARY
- AS-BUILT U-Channel
- AS-BUILT MAINTENANCE ACCESS
- AS-BUILT MAINTENANCE FOOTPATH
- AS-BUILT TREE (CODE NOS.)
- AS-BUILT ENGINEERING LAYOUT-VIADUCT
- D19 PIER MARK
- 10NW - C/F11 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS

DRAFT

REV.	DATE	DESCRIPTION	CHK.
Z	NOV/19	AS-CONSTRUCTED	CWN

CLIENT

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
TREE PLANTING PLAN

SHEET 1 OF 11

STATUS	SCALE
AS-BUILT DRAWING	1:1000 (A1) 1:2000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

DRAWING NO. 60240249/C1/1751 REV. Z

Plot File by: RTOC1 05-Dec-19
PATH: K:\TOD\DRAWINGS\As-built\As-built Drawing\60240249_C1_1751Z.dgn

N

HKBCF

SIU HO WAN

SITE BOUNDARY

VIADUCT D

VIADUCT C

VIADUCT B

VIADUCT A

SK0146

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

TUNG CHUNG

REV.	DATE	DESCRIPTION	DRAWN	PRF.	APP.
-	22/08/16	KEY PLAN FOR PLANTING PLAN	KYL	GH	CL

CLIENT
路訊署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
KEY PLAN FOR PLANTING PLAN

DRAWING REFERENCE
60240249/C1/1000A

SCALE 1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO.
SK0194

REV.
-

Plot File by: RSTOC1 22-Aug-16
PATH: K:\TO\DRAWINGS\SKETCH\SK0194\SK0194 2D.dgn

9SE-B/F85, EXISTING SLOPE AFFECTED BY FOUNDATION CONSTRUCTION WORKS TO BE REINSTATED WITH 95% DEGREE OF COMPACTION AT ±3% OPTIMUM MOISTURE CONTENT

EXISTING STAIRWAY TO REMAIN

REALIGNED CHEUNG TUNG ROAD

VIADUCT B

MODIFIED 9SE-B/F85

Draft as-built feature boundary

FOOTPATH

VERGE WITH PLANTING

APPROX. 3.7m

25° MAX.

25° MAX.

Photo 60

Photo 61

Photo 62

Photo 63

Photo 64

Photo 65

Photo 66

BAU.VAR.(B) 8 7

PLU.RUB. 16 4

WAS.ROB.(A) 8

PHO.ROE. 6

CAR.MIT. 5

PHO.ROE. 4

CAR.MIT. 7

PROPOSED MAX 25° COMPACTED FILL SLOPE

B15

B16

B17

EXISTING TRAPEZOIDAL CHANNEL

PROPOSED MAX 25° COMPACTED FILL SLOPE

PROPOSED MAX 25° GRADE 200 ROCKFILL SLOPE

N

LEGEND:

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- B15 PIER MARK
- PROPOSED MAX 25° COMPACTED FILL SLOPE
- PROPOSED MAX 25° GRADE 200 ROCKFILL SLOPE
- PROPOSED TREE MAINTENANCE UNDERTAKEN BY HYD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE NL0482
- PROPOSED SHRUB MIX A
- PROPOSED SHRUB MIX B (RHA.EXC. 905.78m; SPECIES; AREA(sq.m))
- PROPOSED CLIMBER MIX AT SOIL/ROCK INTERFACE AND AT TOE OF SOILCUT SLOPES
- PROPOSED CLIMBER FOR PIERS OF VIADUCT

NOTES:
1. SETTING OUT OF TREE PLANTING ON SLPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
2. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT(PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
3. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0147 REV. A.

27 August 2019

As-built feature boundary and tree locations

0 10 20 30 40 50
METRES
1 : 500 (A3)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	17-10-16	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	25-08-16	PLANTING ON SLOPES	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

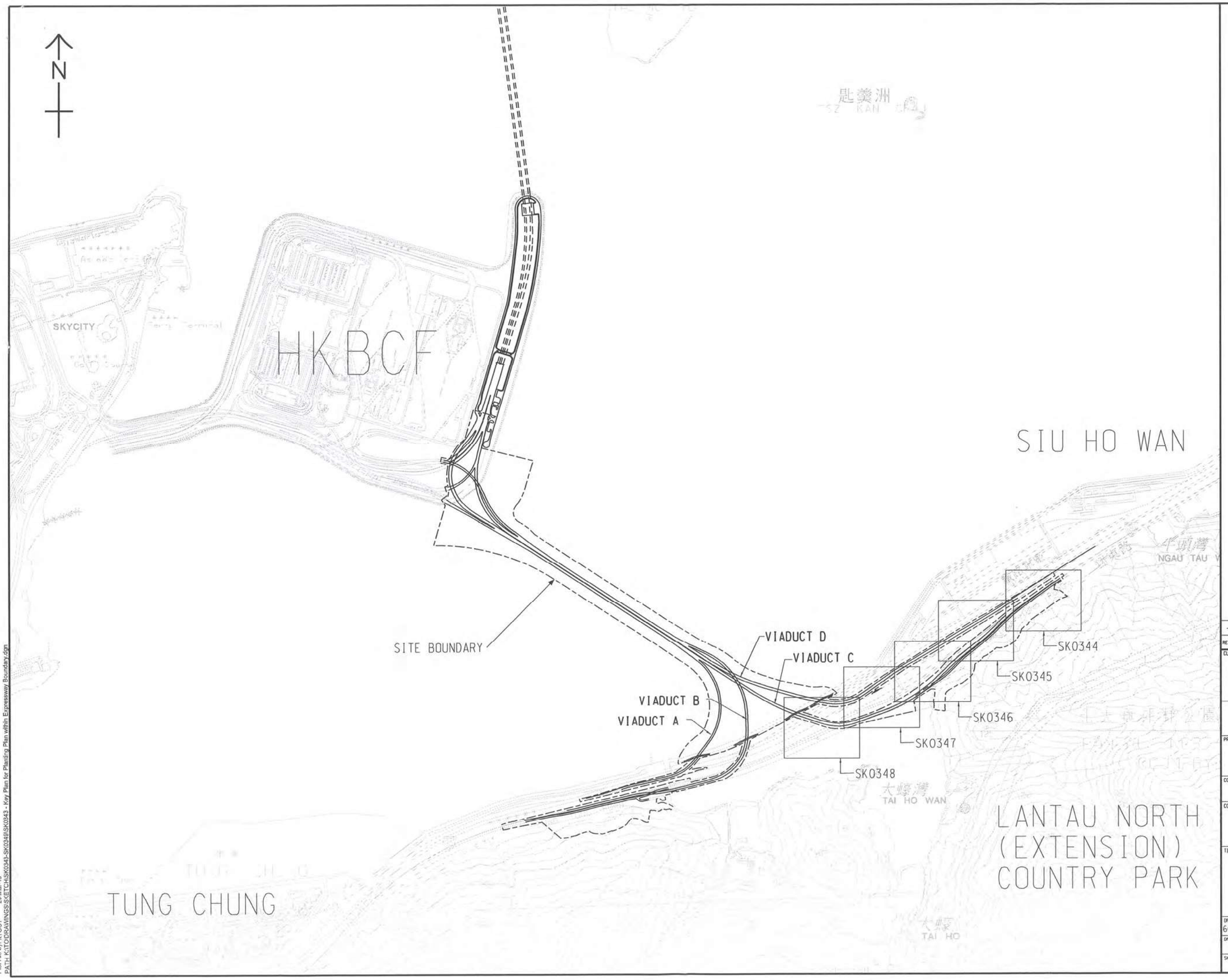
CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR FEATURE NO. 9SE-B/F85

DRAWING REFERENCE 60240249/C1/1745C
SCALE 1:500 (A3)
DRAWN KYL
PREPARED GH
APPROVED CL
SKETCH NO. SK0146
REV. A

Plot File by: RSTOC1 14-Nov-16
PATH: K:\TO\DRAWINGS\SKETCH\SK0146-SK0147\SK0146 Rev. A - 14-11-2016 (To EPD).dgn



REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	23/03/18	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON ROAD) VIADUCT D	GC	CH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
KEY PLAN OF PLANTING PLAN
FOR NORTH LANTAU HIGHWAY
(KOWLOON ROAD)
VIADUCT D

SHEET 1 OF 7

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0343 REV. -

Plot File by: RTOC1 21-Mar-18
PATH: K:\TO\DRAWINGS\SKETCH\SK0343-SK0349\SK0343 - Key Plan for Planting Plan within Expressway Boundary.dgn

816300 E
816400 E
816500 E
816600 E
N
818700 N
818600 N
818500 N
LOCATION OF MTRC STANDARD FENCE
PLANTER WALL BEHIND PROFILE BARRIER
FIC.MIC.'GOL' 20m'
ALL.CAT. 300m'
LOCATION OF MTRC STANDARD FENCE
FIC.MIC.'GOL' 997m'
10NW-C/F50
CHEUNG TUNG ROAD
10NW-C/C26
MTRC PROTECTION BOUNDARY
1
10NW-C/C27
10NW-C/C22
13 m DR
13 m DR
13 m DR
46m'
SEE DRAWING NO. SK0345A
CUT LINE A-A
NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- SSE - D/F70 — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 — PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED PLANTING MAINTENANCE UNDERTAKEN BY MTRC
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD (NL0482)
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	27-08-18	PLANTING REVISED	GC	GH	CL
A	19-04-18	LEGEND AND NOTE REVISED	GC	GH	CL
-	23-03-18	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D	GC	GH	CL

CLIENT
HIGHWAYS DEPARTMENT
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D

SHEET 2 OF 7

DRAWING REFERENCE 60240249/C1/1753A
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC | PREPARED GH | APPROVED CL
SKETCH NO. SK0344
REV. B

Plot File by: RSTOIC1 19-Oct-18
PATH: K:\TC\DRAWINGS\SKETCH\SK0343-SK0349\SK0344.dgn

816000 E
816100 E
816200 E
816300 E
818600 N
818500 N
818400 N
N
Photo 37
Photo 38
Photo 39
Photo 40
NEW FILL SLOPES AT APPROACH RAMP D
EXISTING SHRUBS AT PROFILE BARRIER TO BE REINSTATED
MTRC PROTECTION BOUNDARY
PROPOSED ROAD FENCING
APPROACH RAMP C
CUT LINE A-A
SEE DRAWING NO. SK0344A
CUT LINE B-B
SEE DRAWING NO. SK0346A
ESS
D19
D18
3m
3m
3m
3m
FIC.MIC.'GOL' 150m'
HYDROSEEDING 470m'
ARA.DUR. 146m'
HYM.LIT. 645m'
HYM.LIT. 124m'
HYM.LIT. 389m'
FIC.MIC.'GOL' 20% 547m'
GAR.JAS. 10% 274m'
PIT.TOB. 10% 274m'
RHO.TOM. 40% 1095m'
SCH.ARB. 20% 547m'
FIC.MIC.'GOL' 50% 836m'
SCH.ARB. 50% 836m'
FIC.MIC.'GOL' 20% 178m'
GAR.JAS. 10% 89m'
PIT.TOB. 10% 89m'
RHO.TOM. 40% 356m'
SCH.ARB. 20% 178m'
DUR. 598m'
BAU.VAR.(H) 12
BAU.VAR.(A) 5
BAU.VAR.(A) 2
NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

LEGEND:
- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS (SSE - 0/FTO)
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED PLANTING MAINTENANCE UNDERTAKEN BY MTRC
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD (NL0482)
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
C	27-08-18	PLANTING REVISED	GC	GH	CL
B	02-05-18	PLANTING REVISED	GC	GH	CL
A	19-04-18	PLANTING AND LEGEND REVISED	GC	GH	CL
-	23-03-18	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D	GC	GH	CL

CLIENT
HIGHWAYS DEPARTMENT
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D

SHEET 3 OF 7

DRAWING REFERENCE 60240249/C1/1754B
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC PREPARED GH APPROVED CL
SKETCH NO. SK0345 REV. C

Plot File by: RSTOC1 19-Oct-18
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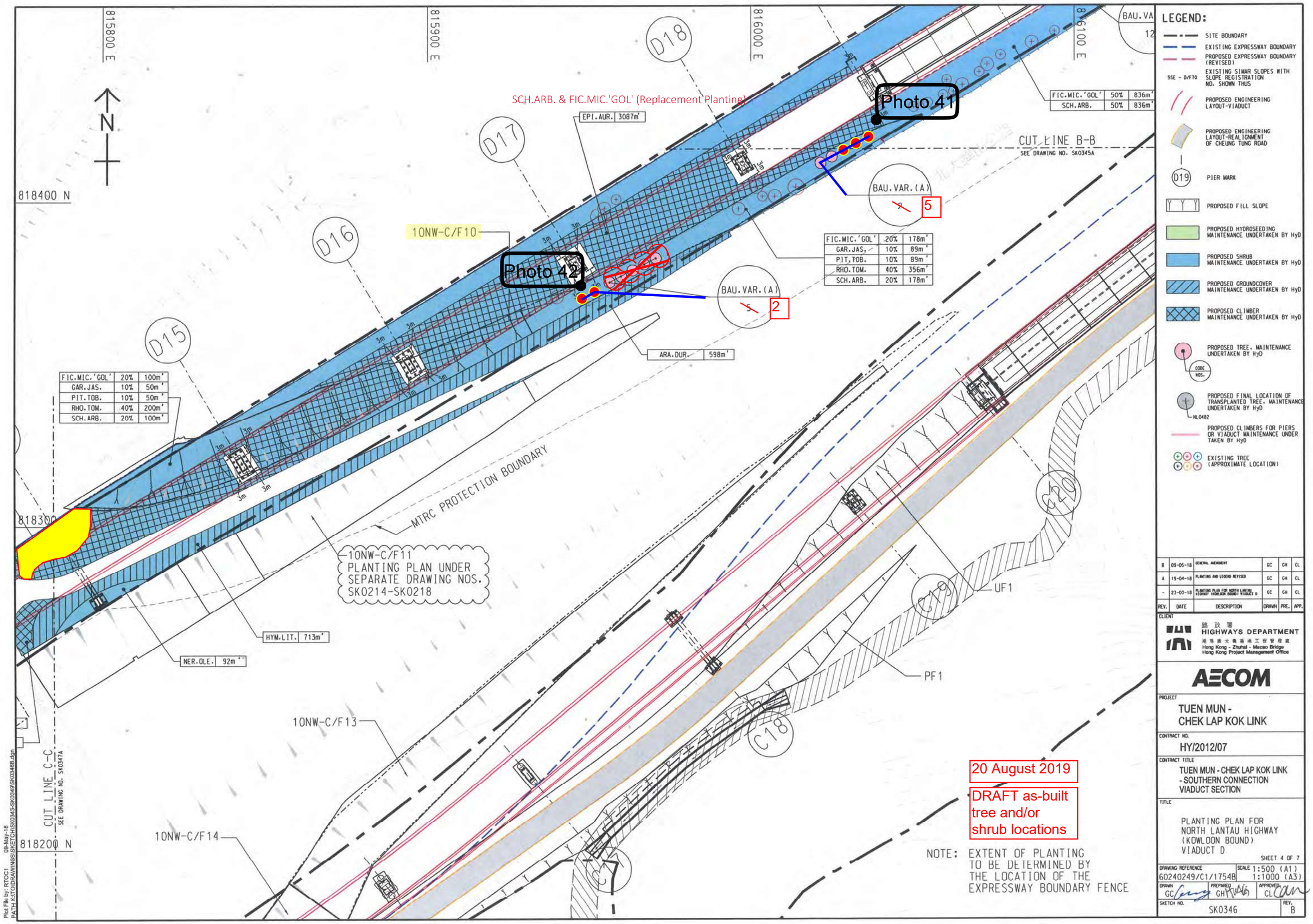
815800 E
815900 E
816000 E
816100 E
BAU. VA
N
818400 N
818300
818200 N
D18
D17
D16
D15
SCH.ARB. & FIC.MIC.'GOL' (Replacement Planting)
EPI.AUR. 3087m²
Photo 41
Photo 42
CUT LINE B-B
SEE DRAWING NO. SK0345A
10NW-C/F10
BAU.VAR.(A)
5
2
FIC.MIC.'GOL' 50% 836m²
SCH.ARB. 50% 836m²
FIC.MIC.'GOL' 20% 178m²
GAR.JAS. 10% 89m²
PIT.TOB. 10% 89m²
RHO.TOM. 40% 356m²
SCH.ARB. 20% 178m²
ARA.DUR. 598m²
FIC.MIC.'GOL' 20% 100m²
GAR.JAS. 10% 50m²
PIT.TOB. 10% 50m²
RHO.TOM. 40% 200m²
SCH.ARB. 20% 100m²
MTRC PROTECTION BOUNDARY
10NW-C/F11
PLANTING PLAN UNDER
SEPARATE DRAWING NOS.
SK0214-SK0218
HYM.LIT. 713m²
NER.OLE. 92m²
10NW-C/F13
10NW-C/F14
CUT LINE C-C
SEE DRAWING NO. SK0347A
C20
C19
C18
C17
UF1
PF1
20 August 2019
DRAFT as-built tree and/or shrub locations
NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE
LEGEND:
SITE BOUNDARY
EXISTING EXPRESSWAY BOUNDARY
PROPOSED EXPRESSWAY BOUNDARY (REVISED)
5SE - D/FTO EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
PROPOSED ENGINEERING LAYOUT-VIADUCT
PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
D19 PIER MARK
PROPOSED FILL SLOPE
PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
CODE NOS.
PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
NL0402
PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
EXISTING TREE (APPROXIMATE LOCATION)
B 09-05-18 GENERAL AMENDMENT GC GH CL
A 19-04-18 PLANTING AND LEGEND REVISED GC GH CL
- 23-03-18 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D GC GH CL
REV. DATE DESCRIPTION DRAWN PRE. APP.
CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
AECOM
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO.
HY/2012/07
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION
TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D
SHEET 4 OF 7
DRAWING REFERENCE 60240249/C1/1754B
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC PREPARED GH APPROVED CL
SKETCH NO. SK0346 REV. B
Plot File by: RTOC1 09-May-18
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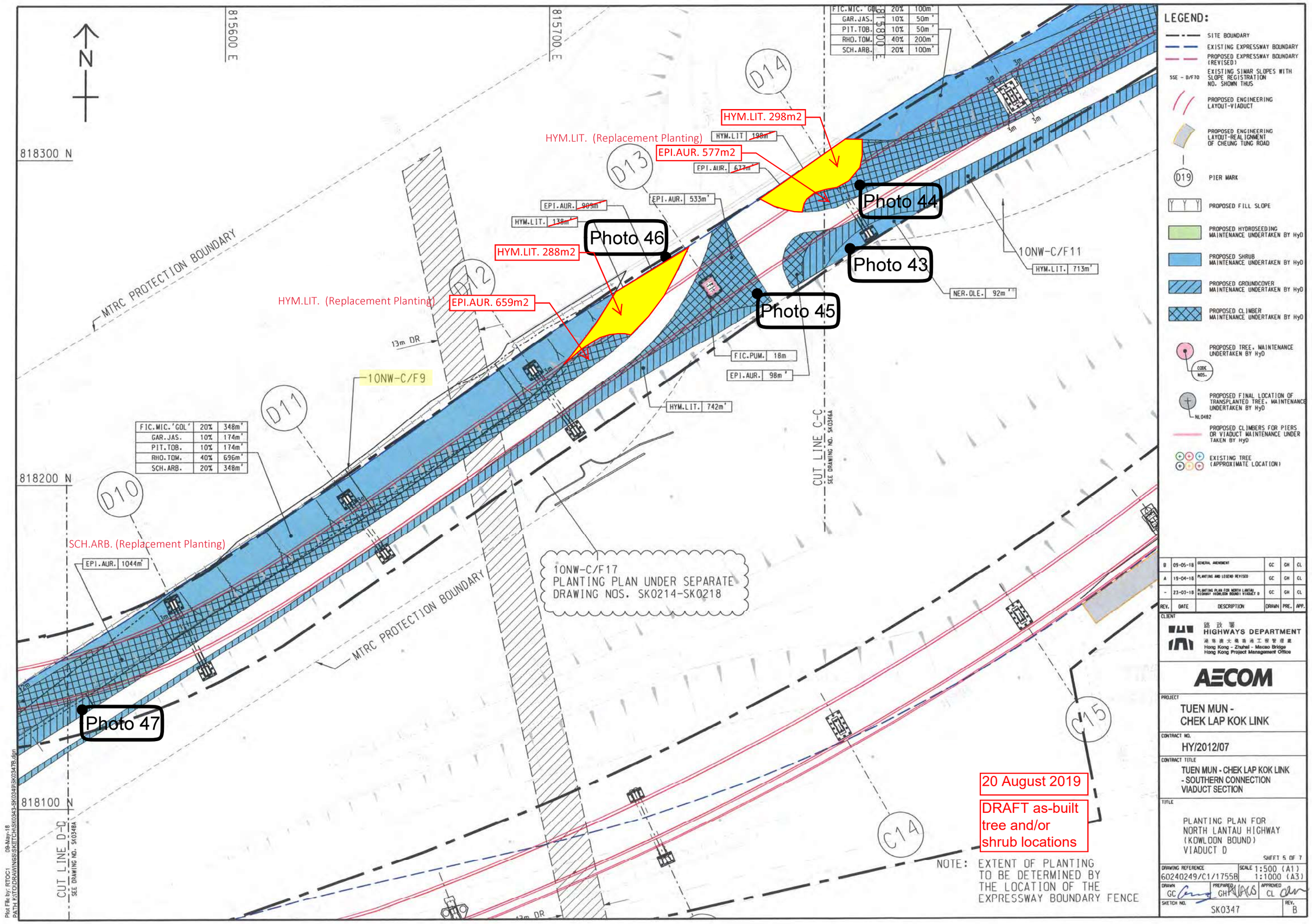
815600 E
815700 E
815800 E
818300 N
818200 N
818100 N
MTRC PROTECTION BOUNDARY
D14
D13
D12
D11
D10
C15
C14
HYM.LIT. 298m2
HYM.LIT. (Replacement Planting)
EPI.AUR. 577m2
HYM.LIT. 288m2
HYM.LIT. (Replacement Planting)
EPI.AUR. 659m2
SCH.ARB. (Replacement Planting)
EPI.AUR. 1044m'
Photo 44
Photo 43
Photo 45
Photo 46
Photo 47
10NW-C/F11
10NW-C/F9
10NW-C/F17
PLANTING PLAN UNDER SEPARATE DRAWING NOS. SK0214-SK0218
13m DR
CUT LINE C-C
SEE DRAWING NO. SK0346A
CUT LINE D-D
SEE DRAWING NO. SK0348A
FIC.MIC.'GOL' 20% 348m'
GAR.JAS. 10% 174m'
PIT.TOB. 10% 174m'
RHO.TOM. 40% 696m'
SCH.ARB. 20% 348m'
FIC.MIC.'GOL' 20% 100m'
GAR.JAS. 10% 50m'
PIT.TOB. 10% 50m'
RHO.TOM. 40% 200m'
SCH.ARB. 20% 100m'
HYM.LIT. 713m'
NER.OLE. 92m'
FIC.PUM. 18m
EPI.AUR. 98m'
HYM.LIT. 742m'
EPI.AUR. 533m'
HYM.LIT. 138m'
EPI.AUR. 909m'
HYM.LIT. 198m'
EPI.AUR. 677m'
LEGEND:
SITE BOUNDARY
EXISTING EXPRESSWAY BOUNDARY
PROPOSED EXPRESSWAY BOUNDARY (REVISED)
EXISTING SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
PROPOSED ENGINEERING LAYOUT-VIADUCT
PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
PIER MARK
PROPOSED FILL SLOPE
PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
EXISTING TREE (APPROXIMATE LOCATION)
B 05-05-18 GENERAL AMENDMENT GC GH CL
A 19-04-18 PLANTING AND LEGEND REVISED GC GH CL
- 23-03-18 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D GC GH CL
REV. DATE DESCRIPTION DRAWN PRE. APP.
CLIENT
HIGHWAYS DEPARTMENT
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
AECOM
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO.
HY/2012/07
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION
TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D
SHEET 5 OF 7
DRAWING REFERENCE 60240249/C1/1755B
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC
PREPARED GH
APPROVED CL
SKETCH NO. SK0347
REV. B
20 August 2019
DRAFT as-built tree and/or shrub locations
NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE
Plot File by: RTOC1 09-May-18
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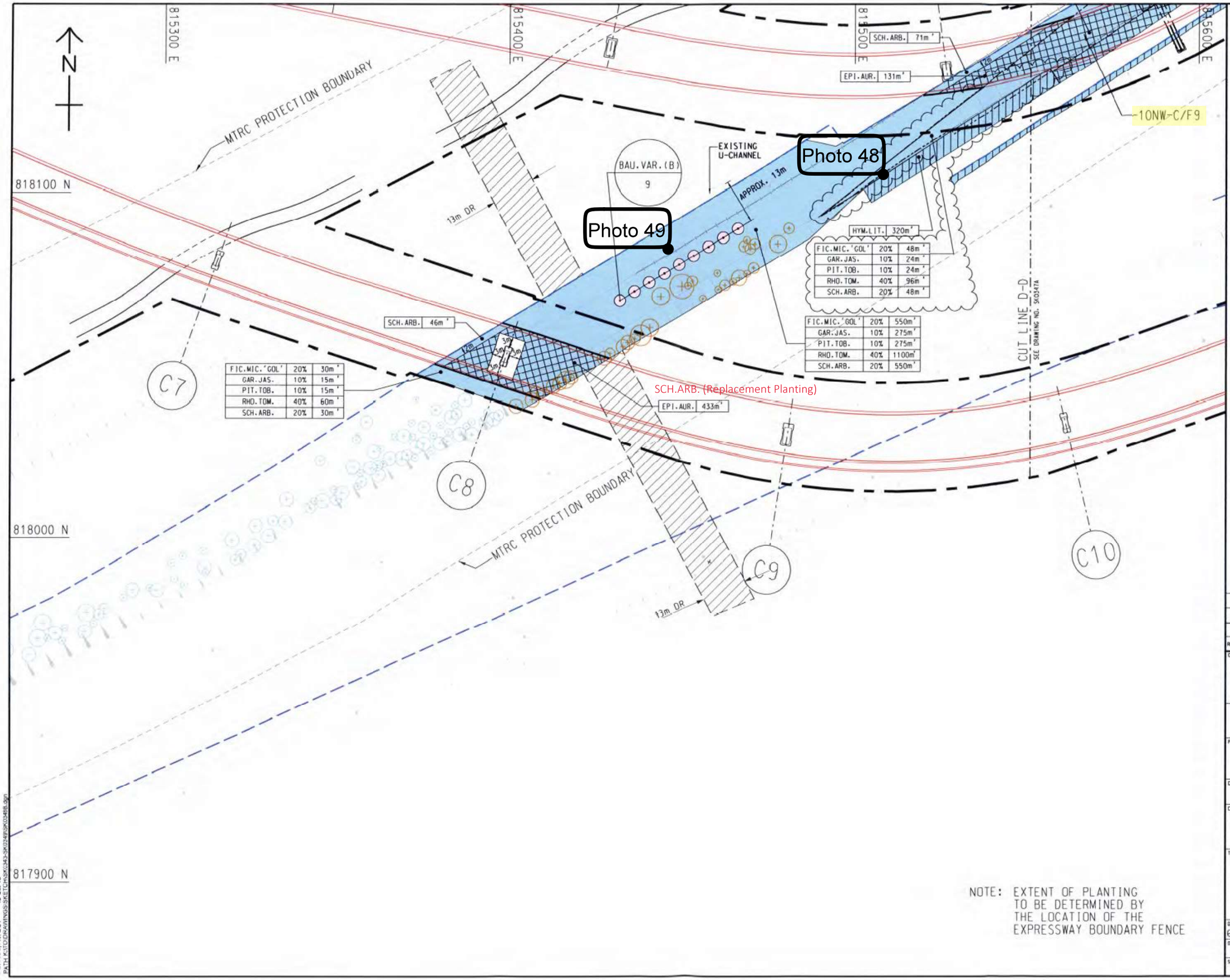
815300 E
815400 E
815500 E
815600 E
N
MTRC PROTECTION BOUNDARY
818100 N
818000 N
817900 N
BAU. VAR. (B)
9
EXISTING U-CHANNEL
APPROX. 13m
13m DR
Photo 48
Photo 49
SCH. ARB. 71m'
EPI. AUR. 131m'
10NW-C/F9
HYM. LIT. 320m'
FIC. MIC. 'GOL' 20% 48m'
GAR. JAS. 10% 24m'
PIT. TOB. 10% 24m'
RHO. TOM. 40% 96m'
SCH. ARB. 20% 48m'
FIC. MIC. 'GOL' 20% 550m'
GAR. JAS. 10% 275m'
PIT. TOB. 10% 275m'
RHO. TOM. 40% 1100m'
SCH. ARB. 20% 550m'
CUT LINE D-D
SEE DRAWING NO. SK0347A
SCH. ARB. 46m'
12m
3m
3m
3m
FIC. MIC. 'GOL' 20% 30m'
GAR. JAS. 10% 15m'
PIT. TOB. 10% 15m'
RHO. TOM. 40% 60m'
SCH. ARB. 20% 30m'
SCH. ARB. (Replacement Planting)
EPI. AUR. 433m'
C7
C8
C9
C10
MTRC PROTECTION BOUNDARY
13m DR
NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE
LEGEND:
SITE BOUNDARY
EXISTING EXPRESSWAY BOUNDARY
PROPOSED EXPRESSWAY BOUNDARY (REVISED)
EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
SSE - 0VF10
PROPOSED ENGINEERING LAYOUT-VIADUCT
PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
D19
PIER MARK
PROPOSED FILL SLOPE
PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
CODE NOS.
PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
NL0482
PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
EXISTING TREE (APPROXIMATE LOCATION)
B 24-08-18 PLANTING REVISED GC GH CL
A 15-04-18 PLANTING AND LEGEND REVISED GC GH CL
- 23-03-18 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D GC GH CL
REV. DATE DESCRIPTION DRAWN PRE. APP.
CLIENT
路 設 署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office
AECOM
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO.
HY/2012/07
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION
TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D
SHEET 6 OF 7
DRAWING REFERENCE 60240249/C1/1756B
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC
PREPARED GH
APPROVED CL
SKETCH NO. SK0348
REV. B
Plot File by: RTOC1 12-Oct-18
PATH K:\TO\DRAWINGS\SKETCH\SK\343-SK0349\SK0348.dgn

N

SKYCITY

HKBCF

SIU HO WAN

SITE BOUNDARY

VIADUCT D

VIADUCT C

VIADUCT B

VIADUCT A

SK0217

SK0216

SK0215

TAI HO WAN

NGAU TAU

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

TUNG CHUNG

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19/01/17	KEY PLAN OF PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
KEY PLAN OF PLANTING PLAN
FOR FEATURE NOS 10NW-C/F11
AND 10NW-C/F17

SHEET 1 OF 5

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0214 REV. -

Plot File by: RSTOC1 19-Jan-17
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N

D9

D10

D11

Platform

CUT LINE A-A
SEE DRAWING NO. 60240249/C1/SK0216

Photo 51

13m DR

10NW-C/F17

Photo 50

APPROX. 6m

APPROX. 7m

BOM. CEIL. 31

MTRC PROTECTION BOUNDARY

2 rows of *Gardenia jasminoides*

PROPOSED MAX 27° SOIL FILL SLOPE

ZONE OF EXISTING FEATURE
10NW-C/F17 TO BE LEFT UNCHANGED

AY BOUNDARY

NORTH LANTAU HIGHWAY

13 August 2019

DRAFT as-built shrub locations

0 2.5 5 7.5 10 12.5
METRES
1 : 500 (A3)

NOTES:

1. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
2. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
3. THE DRAWING SHALL BE READ IN CONJUCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0218.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F70 — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- C9 — PIER MARK
- PROPOSED MAX 27° SOIL FILL SLOPE
- PROPOSED SHRUB MIX
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD (NL0462)
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT, MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19-01-17	PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17

SHEET 2 OF 5

DRAWING REFERENCE	SCALE
60240249/C1/1743B	1:250 (A1) 1:500 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0215 REV. -

Plot File by: RSTOC1 19-Jan-17
PATH: K:\TO\DRAWINGS\SKETCH\SK0214-SK0216\SK0215 - Planting Plan for Features Nos. 10NW-C/F11 & 10NW-C/F17.dgn

N

D12

EXPRESSWAY BOUNDARY

M.J.

Road

Elevated Road

CUT LINE A-A
SEE DRAWING NO. 60240249/C1/SK0215

CUT LINE B-B
SEE DRAWING NO. 60240249/C1/SK0217

10NW-C/F11

10NW-C/F17

APPROX. 12m

APPROX. 9m

Photo 52

Photo 53

ZONE OF EXISTING FEATURE 10NW-C/F11 TO BE LEFT UNCHANGED

BOM. CEI. 12

BOM. CEI. 24

WAS. ROB. (A) 32

PROPOSED MAX 27° SOIL FILL SLOPE

RELOCATED POLICE OBSERVATION PLATFORM

MTRC PROTECTION BOUNDARY

2 rows of *Gardenia jasminoides*

2 rows of *Gardenia jasminoides*

13m DR

13m DR

13 August 2019

DRAFT as-built shrub locations

0 2.5 5 7.5 10 12.5
METRES
1 : 500 (A3)

NOTES:

1. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
2. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
3. THE DRAWING SHALL BE READ IN CONJUCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0218.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F70 — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- C9 — PIER MARK
- PROPOSED MAX 27° SOIL FILL SLOPE
- PROPOSED SHRUB MIX
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- NL0462 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT, MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19-01-17	PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17

SHEET 3 OF 5

DRAWING REFERENCE	SCALE
60240249/C1/1743B	1:250 (A1) 1:500 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0216 REV. -

Plot File by: RSTOC1 19-Jan-17
PATH: K:\TO\DRAWINGS\SKETCHS\K0214-SK0218\SK0216 - Planting Plan for Features Nos. 10NW-C F11 & 10NW-C F17.dgn

N

D16

EXPRESSWAY BOUNDARY

2 rows of *Gardenia jasminoides*

Photo 54

APPROX. 8m

BOM.CEI.
17

10NW-C/F11

ZONE OF EXISTING FEATURE
10NW-C/F11 TO BE LEFT UNCHANGED

2 rows of *Gardenia jasminoides*

MTRC PROTECTION BOUNDARY

APPROX. 6m

PROPOSED MAX 27°
SOIL FILL SLOPE

ZONE OF EXISTING FEATURE
10NW-C/F11 TO BE LEFT UNCHANGED

CUT LINE B-B

SEE DRAWING NO.
60240249/C1/SK0216

13 August 2019

DRAFT as-built shrub locations

0 2.5 5 7.5 10 12.5
METRES
1 : 500 (A3)

NOTES:

1. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
2. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
3. THE DRAWING SHALL BE READ IN CONJUCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0218.

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- C9 — PIER MARK
- PROPOSED MAX 27° SOIL FILL SLOPE
- PROPOSED SHRUB MIX
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT, MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19-01-17	PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	GH	CL

CLIENT
HIGHWAYS DEPARTMENT
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17

SHEET 4 OF 5

DRAWING REFERENCE	SCALE
60240249/C1/1743B	1:250 (A1) 1:500 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0217 REV. -

Plot File by: RSTOC1 19-Jan-17
PATH: K:\TO\DRAWINGS\SKETCH\SK0214-SK0218\SK0217 - Planting Plan for Features Nos. 10NW-C, F11 & 10NW-C, F17.dgn

N

SKYCITY

HKBCF

SITE BOUNDARY

VIADUCT A

VIADUCT B

VIADUCT C

VIADUCT D

SK0152

SK0153

SK0154

SK0155

SK0156

TUNG CHUNG

TAI HO WAN

SIU HO WAN

NGAU TAU W

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	12/04/17	KEY PLAN OF PLANTING PLAN FOR FEATURE NOS. 10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

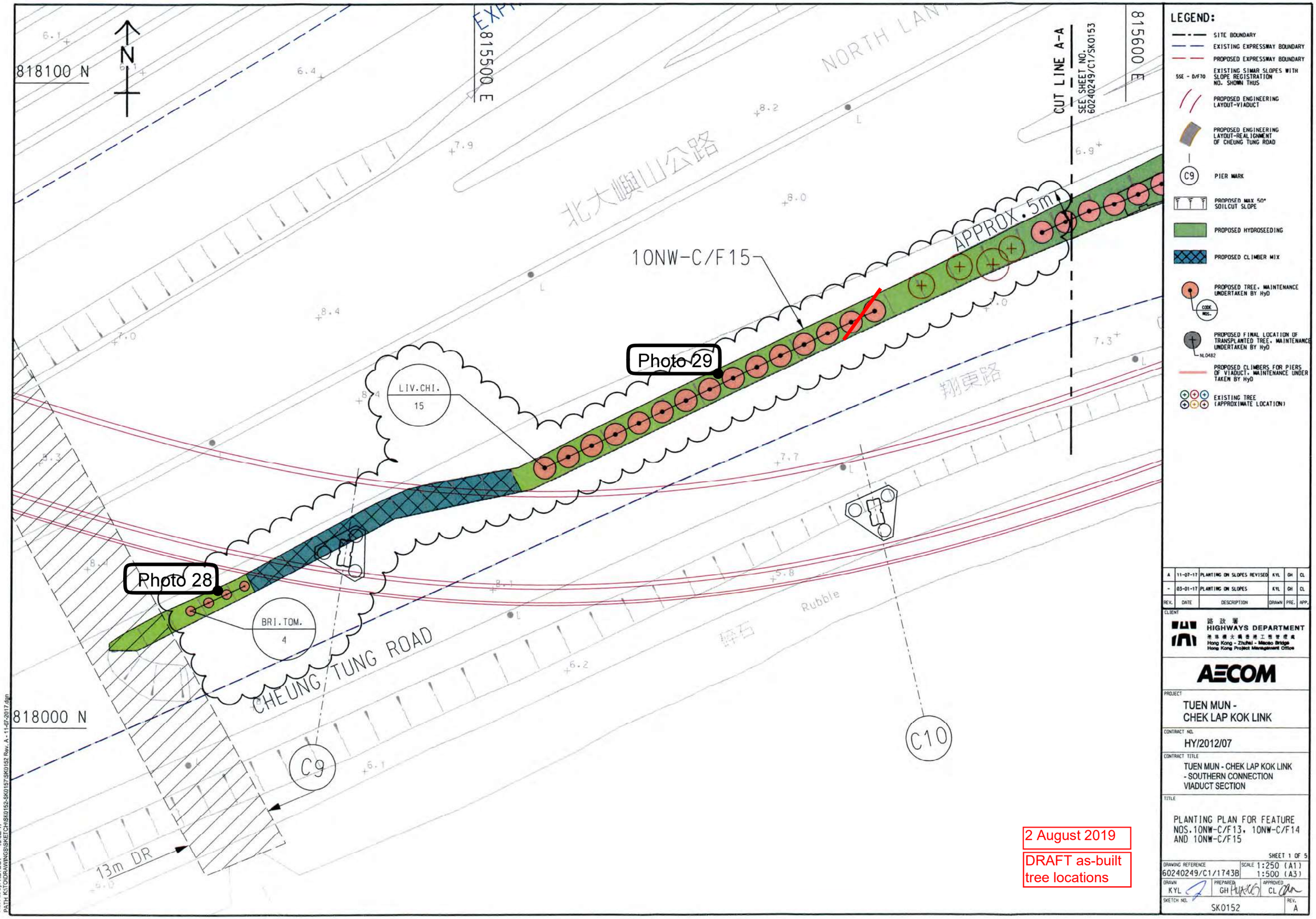
TITLE
KEY PLAN OF PLANTING PLAN
FOR FEATURE NOS. 10NW-C/F13
10NW-C/F14 AND 10NW-C/F15

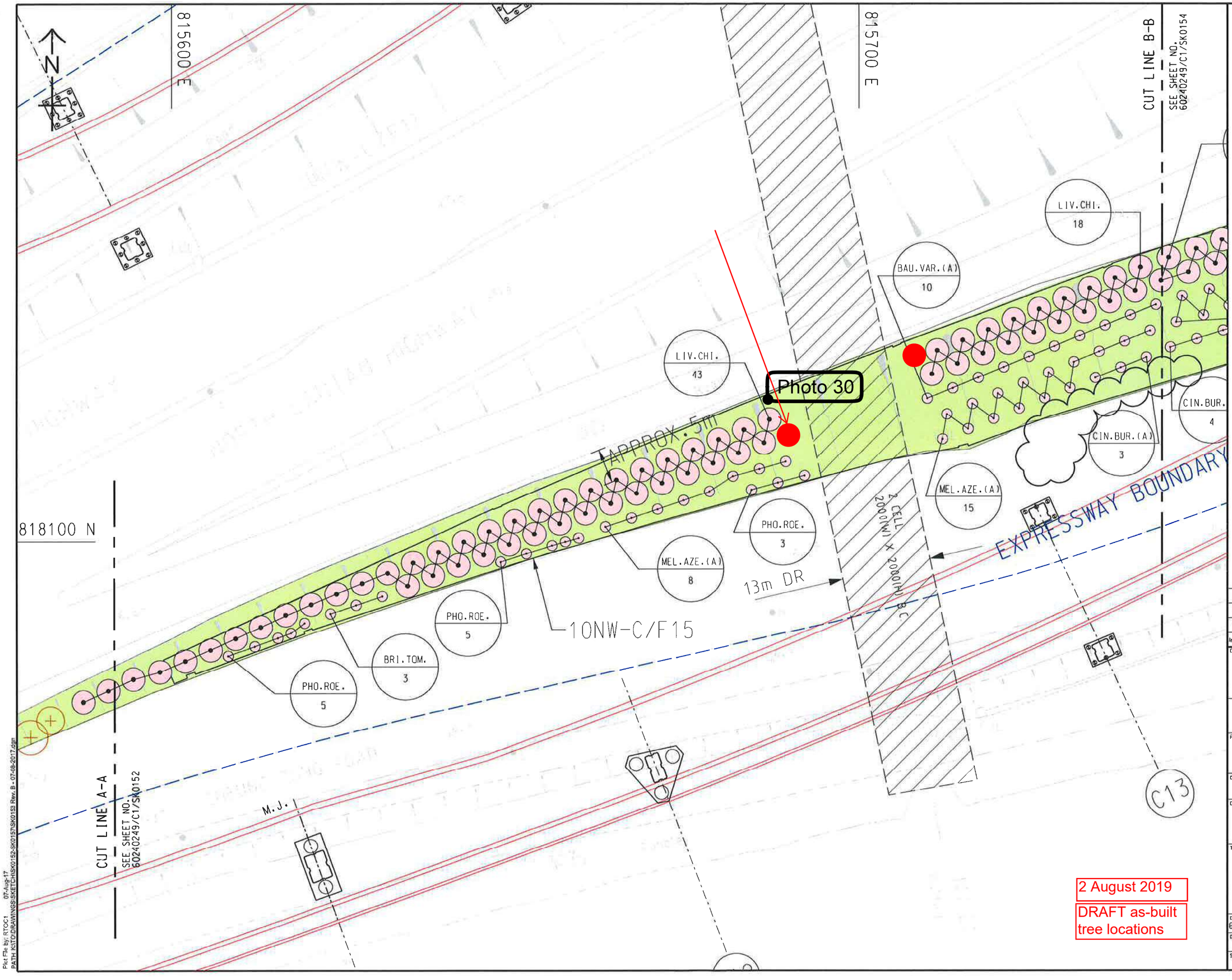
DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0220 REV. -

Plot File by: RTOC1 12-Apr-17
PATH: K:\TO\DRAWINGS\SKETCH\SK0220\SK0220 - Key Plan for Planting Plan of Feature Nos. 10NW-C_F13, 10NW-C_F14 & 10NW-C_F15.dgn


818100 N
N
815500 E
815600 E
CUT LINE A-A
SEE SHEET NO. 60240249/C1/SK0153
北大嶼山公路
NORTH LANTAU EXPRESSWAY
APPROX. 5m
10NW-C/F15
Photo 29
Photo 28
LIV.CHI.
15
BRI.TOM.
4
CHEUNG TUNG ROAD
翔東路
Rubble
C9
C10
818000 N
13m DR
LEGEND:
SITE BOUNDARY
EXISTING EXPRESSWAY BOUNDARY
PROPOSED EXPRESSWAY BOUNDARY
5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
PROPOSED ENGINEERING LAYOUT-VIADUCT
PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
C9 PIER MARK
PROPOSED MAX 50° SOILCUT SLOPE
PROPOSED HYDROSEEDING
PROPOSED CLIMBER MIX
PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
CODE NOS.
PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
NL0482
PROPOSED CLIMBERS FOR PIERS OF VIADUCT, MAINTENANCE UNDERTAKEN BY HyD
EXISTING TREE (APPROXIMATE LOCATION)
A 11-07-17 PLANTING ON SLOPES REVISED KYL GH CL
- 03-01-17 PLANTING ON SLOPES KYL GH CL
REV. DATE DESCRIPTION DRAWN PRE. APP.
CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
AECOM
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO.
HY/2012/07
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION
TITLE
PLANTING PLAN FOR FEATURE NOS.10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15
SHEET 1 OF 5
DRAWING REFERENCE 60240249/C1/1743B
SCALE 1:250 (A1) 1:500 (A3)
DRAWN KYL
PREPARED GH
APPROVED CL
SKETCH NO. SK0152
REV. A
2 August 2019
DRAFT as-built tree locations
Plot File by: RSTOC1 13-Jul-17
PATH: K:\TO\DRAWINGS\SKETCHES\SK0152-SK0157\SK0152 Rev. A - 11-07-2017.dgn



LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- SSE - D/F TO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- C9 — PIER MARK
- PROPOSED MAX 50° SOIL CUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED CLIMBER MIX
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OF VIADUCT, MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	07-08-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR FEATURE NOS.10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15

SHEET 2 OF 5

DRAWING REFERENCE 60240249/C1/1743B
SCALE 1:250 (A1) 1:500 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0153 REV. B

2 August 2019

DRAFT as-built tree locations

Plot File by: RTOC1 07-Aug-17
PATH: K:\TO\DRAWINGS\SKETCH\SK0152-SK0157\SK0153 Rev. B - 07-08-2017.dgn

N

818200 N

815800 E

815900 E

CUT LINE C-C

SEE SHEET NO.
60240249/C1/SK0155

LIV.CHI.
69

BAU.VAR.(A)
20

M.J.

Photo 31

Photo 32

CUT LINE B-B

SEE SHEET NO.
60240249/C1/SK01

LIV.CHI.
70

APPROX.5m

C16

C15

C14

10NW-C/F14

CIN.BUR.(A)
4

BRI.TOM.
31

IN.BUR.(A)
3

BAU.VAR.(A)
32

AY BOUNDARY

818100 N

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- C9 — PIER MARK
- PROPOSED MAX 50° SOILCUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED CLIMBER MIX
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OF VIADUCT, MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	07-08-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR FEATURE NOS.10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15

SHEET 3 OF 5

DRAWING REFERENCE
60240249/C1/1743B

SCALE 1:250 (A1)
1:500 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0154

REV. B

2 August 2019

DRAFT as-built tree locations

Plot File by: RTOC1
07-Aug-17
PATH: K:\TO\DRAWINGS\SKETCHES\SK0152-SK0157\SK0154 Rev. B - 07-08-2017.dgn

N

815900 E

816000 E

818300 N

818200 N

CUT LINE D-D

SEE SHEET NO.
60240249/C1/SK0156

CUT LINE C-C

SEE SHEET NO.
60240249/C1/SK0154

Photo 33

Photo 34

10NW-C/F13

APPROX.5m

PHO.ROE.
5

BRI.TOM.
6

MEL.AZE.(A)
9

BRI.TOM.
1

BAU.VAR.(A)
36 → 30

LIV.CHI.
69

C18

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- 5SE - D/F10 — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- C9 — PIER MARK
- PROPOSED MAX 50° SOILCUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED CLIMBER MIX
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OF VIADUCT, MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	07-08-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR FEATURE NOS.10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15

SHEET 4 OF 5

DRAWING REFERENCE	SCALE
60240249/C1/1743B	1:250 (A1) 1:500 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0155 REV. B

2 August 2019

DRAFT as-built tree locations

Plot File by: RTOC1
08-Aug-17
PATH: K:\TO\DRAWINGS\SKETCHES\SK0152-SK0155\SK0155 Rev. B - 07-08-2017.dgn

818400 N

816000 E

817000 E

N

10NW-C/F13

Photo 35

Photo 36

PHO.ROE. 12

LIV.CHI. 26

PHO.ROE. 9

PHO.ROE. 5

BRI.TOM. 6

APPROX. 7m

EXPRESSWAY BOUNDARY

NORTH LANTAU HIGHWAY

CUT LINE D-D

SEE SHEET NO. 60240249/C1/SK0155

818300 N

C19

C20

M.J.

CUL

2 August 2019

DRAFT as-built tree locations

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- SSE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- C9 — PIER MARK
- PROPOSED MAX 50° SOILCUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED CLIMBER MIX
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE REQ.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD (NL0482)
- PROPOSED CLIMBERS FOR PIERS OF VIADUCT, MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT: 路政署 HIGHWAYS DEPARTMENT 香港特別行政區政府土木工程拓展處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT: TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.: HY/2012/07

CONTRACT TITLE: TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE: PLANTING PLAN FOR FEATURE NOS. 10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15

SHEET 5 OF 5

DRAWING REFERENCE: 60240249/C1/1743B

SCALE: 1:250 (A1) 1:500 (A3)

DRAWN: KYL | PREPARED: GH | APPROVED: CL

SKETCH NO.: SK0156 | REV.: A

Plot File by: RSTOC1 14-Jul-17
PATH: K:\TO\DRAWINGS\SKETCH\SK0152-SK0157\SK0156 Rev. A - 11-07-2017.dgn

N

HKBCF

SKYCITY

AsiaWorld-Expo

Ferry Terminal

SITE BOUNDARY

VIADUCT D

VIADUCT C

VIADUCT B

VIADUCT A

SK0296

SK0297

SIU HO WAN

NGAU TAU

TAI HO WAN

TAI HO

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

TUNG CHUNG

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	21/11/17	KEY PLAN OF PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.

HY/2012/07

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE

KEY PLAN OF PLANTING
PLAN FOR RESUMED
AREA AT VIADUCT A

SHEET 1 OF 4

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0295 REV. -

Plot File by: RSTOC1 22-Nov-17
PATH: K:\TO\DRAWINGS\SKETCH\SK0295-SK0298\SK0295 - Key Plan for Planting Plan for Resumed Area at ...uct A.dgn

814700 E
814800 E
814900 E
815000 E
817900 N
817800 N
817700 N

MTRC PROTECTION BOUNDARY
CUT LINE A-A
SEE DRAWING NO. SK0297B

FIC.MIC.'GDL'	20%	28m²
GAR.JAS.	10%	14m²
PIT.TOB.	10%	14m²
RHO.TOM.	40%	56m²
SCH.ARB.	20%	28m²

SCH.ARB. (Replacement Planting)

SCH.ARB	55m²

EPI.AUR.	64m²

FIC.MIC.'GDL'	20%	106m²
GAR.JAS.	10%	53m²
PIT.TOB.	10%	53m²
RHO.TOM.	40%	212m²
SCH.ARB.	20%	106m²

SCH.ARB. (Replacement Planting)

EPI.AUR.	281m²

VIADUCT A
10SW-A/F52
EXISTING SHRUBS AT PROFILE
BARRIER TO BE REINSTATED
MTRC PROTECTION BOUNDARY
BAU.VAR.(H)
5
Photo 16
MIN. 8.5m
1m
3m
3m
3m
A8
A9
B10
B11
B12
B13
B14
B15

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- SSE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 — PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD — CODE NOS.
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	19-04-18	PROPOSED PLANTING AND LEGEND AMENDED	GC	GH	CL
A	08-02-18	PROPOSED PLANTING AMENDED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR RESUMED AREA AT VIADUCT A

SHEET 2 OF 4

DRAWING REFERENCE 60240249/C1/17450
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC | PREPARED GH | APPROVED CL
SKETCH NO. SK0296
REV. B

Plot File by: RTOC1 27-Apr-18
PATH K:\TO\DRAWINGS\SKETCH\SK0296-SK0298\SK0296B.dgn

814400 E

814500 E

814600 E

814700 E

N

817800 N

817700 N

817600 N

APPROACH RAMP A

REALIGNED CHEUNG TUNG ROAD

NORTH LANTAU HIGHWAY

MTRC PROTECTION BOUNDARY

EXISTING SHRUBS AT PROFILE BARRIER TO BE REINSTATED

Photo 19

FIC.MIC.'GOL'	20%	140m²
GAR.JAS.	10%	70m²
PIT.TOB.	10%	70m²
RHO.TOM.	40%	280m²
SCH.ARB.	20%	140m²

EPI.AUR. 94m²

EPI.AUR.

HYM.LIT. 652m²

HYM.LIT. 191m²

NER.OLE 99m²

3m

3m

A10

A11

B15

B16

B17

B18

E55

9SE-B/F85

9SE-B/F9

9SE-B/C8

CUT LINE A-A
SEE DRAWING NO. SK02968

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 — PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD — CODE NOS.
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD — NL0482
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	19-04-18	PROPOSED PLANTING AND LEGEND AMENDED	GC	GH	CL
A	08-02-18	PROPOSED PLANTING AMENDED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR RESUMED AREA AT VIADUCT A

SHEET 3 OF 4

DRAWING REFERENCE 60240249/C1/17450
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC PREPARED GH APPROVED CL
SKETCH NO. SK0297 REV. B

Plot File by: RTOC1 21-Apr-18
PATH K:\TO\DRAWINGS\SKETCH\SK0295-SK0298\SK0297B.dgn

N

HKBCF

SKYCITY

SITE BOUNDARY

VIADUCT D

VIADUCT C

VIADUCT B

VIADUCT A

SK0315

SK0316

SK0317

SK0318

SK0319

SIU HO WAN

TUNG CHUNG

TAI HO WAN

TAI HO

NGAU TAU W

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	29/12/17	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
KEY PLAN OF PLANTING PLAN
FOR NORTH LANTAU HIGHWAY
(TUNG CHUNG BOUND)
VIADUCT B

SHEET 1 OF 7

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0314 REV. -

Plot File by: BETOC1 24-Dec-17
PATH: K:\TO\DRAWINGS\SKETCH\SK0314-SK0320\SK0314 - Key Plan for Planting Plan for North Lantau Highway (Tung Chun... und) Viaduct B.dgn

815000 E

815100 E

815200 E

815300 E

N

817900 N

817800 N

EXISTING DRAINAGE RESERVE

8m DR

8m DR

B8

B9

B10

Reinstatement of shrub planting

ALL.CAT.	40%	114m'
FIC.MIC.'GOL'	30%	86m'
SCH.ARB.	30%	86m'

Photo 17

BAU.VAR. (B) 3

SCH.ARB. (Replacement Planting)

~~EPI.AUR.~~	144m'

CUT LINE F-F
SEE DRAWING NO. SK0316A

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- 5SE - D/FTO — EXISTING SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 — PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED TREE. MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT B

SHEET 2 OF 7

DRAWING REFERENCE	SCALE
60240249/C1/1758	1:500 (A1) 1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0315 REV. A

Plot File by: RTOC1 26-Apr-18
PATH: K:\TO\DRAWINGS\SKETCH\SK0314-SK0320\SK0315A - Sheet 2 of 7.dgn

814700 E
814800 E
814900 E
815000 E
817900 N
817800 N
817700 N
A8
A9
B10
B11
B12
B13
B14
B15
CUT LINE G-G
SEE DRAWING NO. SK0317A
CUT LINE F-F
SEE DRAWING NO. SK0315A

FIC.MIC.'GOL'	50%	144m²
SCH.ARB.	50%	144m²

GOL'	50%	215m²
B.	50%	215m²

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE EXTENT OF THE EXISTING CONCRETE GROUND PROFILE

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- SSE - D/FTO EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HyD
- CODE NOS. PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- NL0482 PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
NORTH LANTAU HIGHWAY
(TUNG CHUNG BOUND)
VIADUCT B

SHEET 3 OF 7

DRAWING REFERENCE 60240249/C1/1759A
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC
PREPARED GH
APPROVED CL
SKETCH NO. SK316
REV. A

Plot File by: &TOC1 24-Apr-18
PATH: K:\TO\DRAWINGS\SKETCHS\SK0314-SK0320\SK0316A - Sheet 3 of 7.dgn

814400 E
814500 E
814600 E
814700 E
817800 N
817700 N
817600 N
A11
A10
B15
B16
B17
B18
ESS
25° MAX.
50° MAX.
REALIGNED CHEUNG TUNG ROAD
9SE-B/F85
9SE-B/F9
9SE-B/C8
CUT LINE H-H
SEE DRAWING NO. SK0318A
CUT LINE G-G
SEE DRAWING NO. SK0316A
ENCING

FIC.MIC.'GOL'	50%	215m²
SCH.ARB.	50%	215m²

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE EXTENT OF THE EXISTING CONCRETE GROUND PROFILE

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- 5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HyD
- CODE NOS. PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- NL0482 PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT B

SHEET 4 OF 7

DRAWING REFERENCE 60240249/C1/1760A
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC | PREPARED GH | APPROVED CL
SKETCH NO. SK0317 | REV. A

Plot File by: TOC1 28-Apr-18
PATH K:\TO\DRAWINGS\SKETCH\SK0314-SK0320\SK0317A - Sheet 4 of 7.dgn

814200 E

814300 E

814400 E

N

817700 N

817600 N

817500 N

HYM.LIT. 261m²

ARA.DUR. 124m²

Photo 18

REALIGNED CHEUNG TUNG ROAD

PROPOSED FENCING

CUT LINE I-I
SEE DRAWING NO. SK0319A

CUT LINE H-H
SEE DRAWING NO. SK0317A

9SE-B/C9

9SE-B/C8

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 — PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD (NL0482)
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
NORTH LANTAU HIGHWAY
(TUNG CHUNG BOUND)
VIADUCT B

SHEET 5 OF 7

DRAWING REFERENCE 60240249/C1/1716B
SCALE 1:500 (A1) 1:1000 (A3)

DRAWN GC | PREPARED GH | APPROVED CL

SKETCH NO. SK0318 | REV. A

Plot File by: RTOC1
30-Apr-18
PATH K:\TO\DRAWINGS\SKETCH\SK0314-SK0320\SK0318A - Sheet 5 of 7.dgn

817700 N

813900 E

814000 E

814100 E

817600 N

817500 N

HYM.LIT. 609m'

REALIGNED CHEUNG TUNG ROAD

CUT LINE I-I
SEE DRAWING NO. SK03184

9SE-B/C8

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- 5SE - D/FTO — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 — PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER. MAINTENANCE UNDERTAKEN BY HyD
- CODE NOS. — PROPOSED TREE. MAINTENANCE UNDERTAKEN BY HyD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
NORTH LANTAU HIGHWAY
(TUNG CHUNG BOUND)
VIADUCT B

SHEET 6 OF 7

DRAWING REFERENCE
60240249/C1/1762A

SCALE 1:500 (A1)
1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0319

REV. A

Plot File by: RTOC1 26-Apr-18
PATH K:\TO\DRAWINGS\SKETCHS\SK0314-SK0320\SK0319A - Sheet 6 of 7.dgn

N

HKBCF

SITE BOUNDARY

VIADUCT A

VIADUCT B

VIADUCT C

VIADUCT D

SK0308

SK0309

SK0310

SK0311

SK0312

SIU HO WAN

TAI HO WAN

TAI HO

NGAU TAU

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

TUNG CHUNG

SKYCITY

Ferry Terminal

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	27/12/17	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
KEY PLAN OF PLANTING PLAN
FOR NORTH LANTAU HIGHWAY
(TUNG CHUNG BOUND)
VIADUCT C

SHEET 1 OF 7

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0307 REV. -

Plot File by: RSTOC1 27-Dec-17
PATH: K:\TC\DRAWINGS\SKETCH\SK0307-SK0313\SK0307 - Key Plan for Planting Plan for North Lantau Highway (Tung Chung Bound) Viaduct C.dgn

816300 E
816400 E
816500 E
816600 E
N
818700 N
818600 N
818500 N
10NW-C/F50
MTRC PROTECTION BOUNDARY
CHEUNG TUNG ROAD
10NW-C/C26
10NW-C/C27
10NW-C/C22
ARA PUR. 202m
Area not feasible for planting
13 m D.R
EXISTING DRAINAGE RESERVE
CUT LINE A-A
SEE DRAWING NO. SK0309A

LEGEND:
- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- 5SE - D/FTO EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
- CODE NOS. PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- NL0482 PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

2 August 2019
DRAFT as-built

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE EXTENT OF CONCRETE GROUND PROFILE

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	16-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	27-12-17	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C

SHEET 2 OF 7

DRAWING REFERENCE 60240249/C1/1753A
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC
PREPARED GH
APPROVED CL
SKETCH NO. SK0308
REV. A

Plot File by: RTOC1 30-Apr-18
PATH K:\TO\DRAWINGS\SKETCH\SK0307-SK0313\SK0308A - Sheet 2 of 7.dgn

818600 N

816000 E

816100 E

816200 E

816300 E

N

PROPOSED EXPRESSWAY BOUNDARY (REVISED)

818500 N

ARA.DUR. 449m²

MTRC PROTECTION BOUNDARY

REALIGNED CHEUNG TUNG ROAD

ESS

SEE DRAWING NO. SK0494

CUT LINE A-A

D19

PROPOSED ROAD FENCING

EXISTING DRAINAGE RESERVE

APPROACH RAMP C

FIC.MIC.'GOL'	50%	961m'
SCH.ARB.	50%	961m'

NOTE:
REMAINING EXISTING SHRUBS INCLUDE
.CALLIANDRA HAEMATOCEPHALA
.FICUS MICROCARPA 'GOLDEN LEAF'
.NERIUM OLEANDER
.SCHEFFLERA ARBORICOLA

818400 N

CUT LINE B-B

SEE DRAWING NO. SK0495

MEL.CAN.	33.3%	270m²
MEL.SAN.	33.3%	270m²
RHO.TOM.	33.3%	270m²

PLU.RUB.
5

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- SSE - 04F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
- CODE NOS. PROPOSED TREE. MAINTENANCE UNDERTAKEN BY HyD
- NL0482 PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	15-04-19	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND HyD)	KYL	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
PLANTING PLAN FOR
NORTH LANTAU HIGHWAY
(TUNG CHUNG BOUND)
VIADUCT C
(HyD)

SHEET 3 OF 7

DRAWING REFERENCE
60240249/C1/1754B

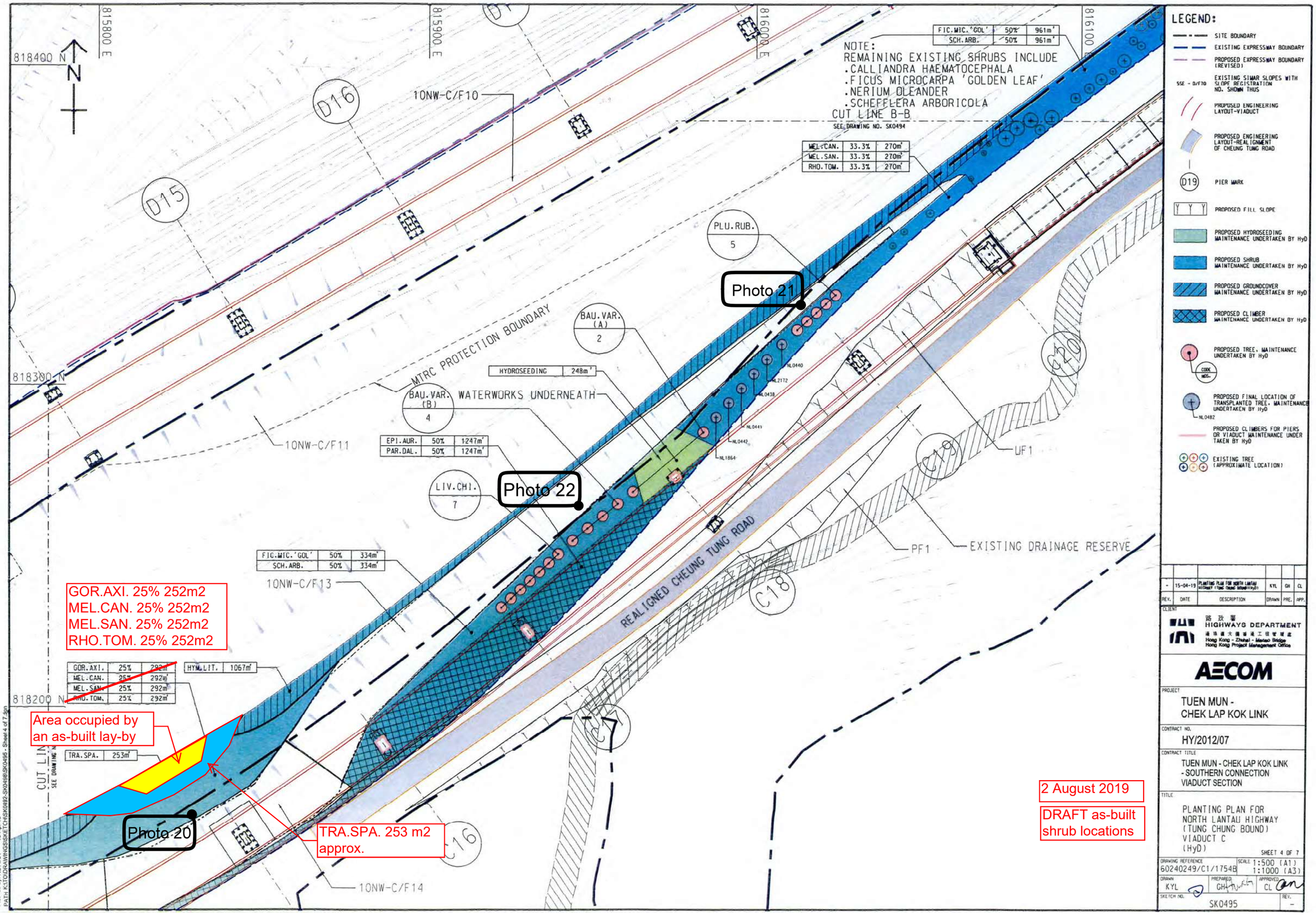
SCALE 1:500 (A1)
1:1000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO.
SK0494

REV.
-

Plot file by: RSTOC1 15-Apr-19
PATH: K:\TO\DRAWINGS\SKETCH\SK0492-SK0498\SK0494 - Sheet 3 of 7.jpn


818400 N
815800 E
815900 E
816000 E
816100 E
D16
D15
10NW-C/F10
10NW-C/F11
10NW-C/F13
10NW-C/F14
818300 N
818200 N
MTRC PROTECTION BOUNDARY
WATERWORKS UNDERNEATH
REALIGNED CHEUNG TUNG ROAD
EXISTING DRAINAGE RESERVE
UF1
PF1
C16
C17
C18
C19
C20
NOTE:
REMAINING EXISTING SHRUBS INCLUDE
.CALLIANDRA HAEMATOCEPHALA
.FICUS MICROCARPA 'GOLDEN LEAF'
.NERIUM OLEANDER
.SCHEFFLERA ARBORICOLA
CUT LINE B-B
SEE DRAWING NO. SK0494
FIC.MIC.'GOL' 50% 961m²
SCH.ARB. 50% 961m²
MEL.CAN. 33.3% 270m²
MEL.SAN. 33.3% 270m²
RHO.TOM. 33.3% 270m²
PLU.RUB. 5
BAU.VAR. (A) 2
BAU.VAR. (B) 4
HYDROSEEDING 248m²
EPI.AUR. 50% 1247m²
PAR.DAL. 50% 1247m²
LIV.CHI. 7
FIC.MIC.'GOL' 50% 334m²
SCH.ARB. 50% 334m²
HYM.LIT. 1067m²
GOR.AXI. 25% 292m²
MEL.CAN. 25% 292m²
MEL.SAN. 25% 292m²
RHO.TOM. 25% 292m²
TRA.SPA. 253m²
Photo 20
Photo 21
Photo 22
GOR.AXI. 25% 252m2
MEL.CAN. 25% 252m2
MEL.SAN. 25% 252m2
RHO.TOM. 25% 252m2
Area occupied by an as-built lay-by
TRA.SPA. 253 m2 approx.
CUT LIN
SEE DRAWING NO.
NL0440
NL2172
NL0438
NL0441
NL0442
NL1864
NL0482
LEGEND:
SITE BOUNDARY
EXISTING EXPRESSWAY BOUNDARY
PROPOSED EXPRESSWAY BOUNDARY (REVISED)
EXISTING SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
5SE - D/F70
PROPOSED ENGINEERING LAYOUT-VIADUCT
PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
D19
PIER MARK
PROPOSED FILL SLOPE
PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
CODE NOS.
PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
EXISTING TREE (APPROXIMATE LOCATION)
- 15-04-19 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)(HyD) KYL GH CL
REV. DATE DESCRIPTION DRAWN PRE. APP.
CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
AECOM
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO.
HY/2012/07
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION
TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C (HyD)
SHEET 4 OF 7
DRAWING REFERENCE 60240249/C1/1754B
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN KYL
PREPARED GH
APPROVED CL
SKETCH NO. SK0495
REV. -
2 August 2019
DRAFT as-built shrub locations
Plot File by: RSTOC1 15-Apr-19
PATH: K:\TO\DRAWINGS\SKETCH\SK0492-SK0496\SK0495 - Sheet 4 of 7.dgn

N

MTRC PROTECTION BOUNDARY

13m DR

10NW-C/F9

10NW-C/F11

10NW-C/F15
PLANTING PLAN UNDER
SEPARATE DRAWING NOS.
SK0152-SK0157 AND SK0220

10NW-C/F14

CUT LINE C-C
SEE DRAWING NO. SK0495

CUT LINE D-D
SEE DRAWING NO. SK0497

D10 D11 D12 D13 C12 C13 C14 C15

FIC.MIC.'GOL'	50%	334m²
SCH.ARB.	50%	334m²

GOR.AXI. 25% 252m2
MEL.CAN. 25% 252m2
MEL.SAN. 25% 252m2
RHO.TOM. 25% 252m2

GOR.AXI.	25%	292m²
MEL.CAN.	25%	292m²
MEL.SAN.	25%	292m²
RHO.TOM.	25%	292m²

HYM.LIT. 1067m²

Area occupied by
an as-built lay-by

TRA.SPA. 253m²

HYM.LIT. 997m²

PHO.SYL. 5

BAU.VAR.(A) 4

GRE.ROB.(H) 10

PLU.RUB. 6

PLU.RUB. 15

PLU.RUB. 13

BAU.VAR.(H) 6

VIADUCT C

Photo 23

Photo 24

Photo 25

FIC.MIC.'GOL'	16.6%	620m²
GOR.AXI.	16.6%	620m²
MEL.CAN.	16.6%	620m²
MEL.SAN.	16.6%	620m²
RHO.TOM.	16.6%	620m²
SCH.ARB.	16.6%	620m²

NOTE:
REMAINING EXISTING SHRUBS INCLUDE
.CALLIANDRA HAEMATOCEPHALA
.LANTANA CAMERA
.NERIUM OLEANDER
.THEVETIA PERUVIANA
.YUCCA GLORIOSA

LEGEND:

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- SSE - D/F70 EXISTING SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 PIER MARK
- PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD (NL0482)
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	15-04-19	Planting Plan for North Lantau Highway (Tung Chung Bound) Viaduct C (HyD)	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C (HyD)

SHEET 5 OF 7

DRAWING REFERENCE 60240249/C1/1755B
SCALE 1:500 (A1) 1:1000 (A3)

DRAWN KYL | PREPARED GH | APPROVED CL

SKETCH NO. SK0496 REV. -

Plot File by: RSTOC1 15-Apr-19
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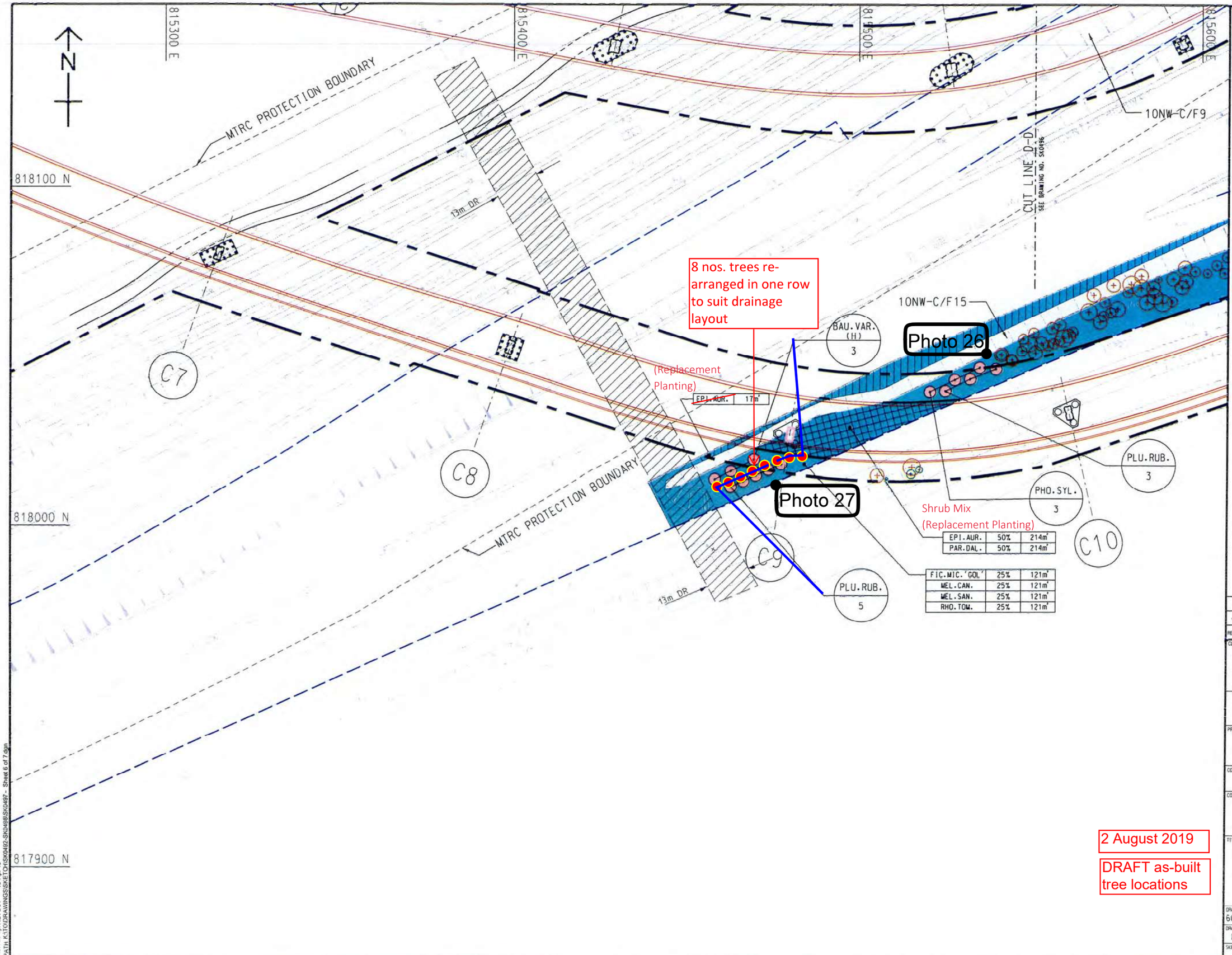

815300 E
815400 E
815500 E
815600 E
N
MTRC PROTECTION BOUNDARY
818100 N
818000 N
817900 N
13m DR
C7
C8
C9
C10
CUT LINE D-D
SEE DRAWING NO. SK0496
10NW-C/F9
10NW-C/F15
8 nos. trees re-arranged in one row to suit drainage layout
(Replacement Planting)
Photo 26
Photo 27
BAU.VAR. (H) 3
PLU.RUB. 3
PHO.SYL. 3
PLU.RUB. 5
EPI.AUR. 17m²
Shrub Mix
(Replacement Planting)
EPI.AUR. 50% 214m²
PAR.DAL. 50% 214m²
FIC.MIC.'GOL' 25% 121m²
MEL.CAN. 25% 121m²
MEL.SAN. 25% 121m²
RHO.TOM. 25% 121m²
LEGEND:
SITE BOUNDARY
EXISTING EXPRESSWAY BOUNDARY
PROPOSED EXPRESSWAY BOUNDARY (REVISED)
EXISTING SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
PROPOSED ENGINEERING LAYOUT-VIADUCT
PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
PIER MARK
PROPOSED FILL SLOPE
PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDER TAKEN BY HyD
EXISTING TREE (APPROXIMATE LOCATION)
2 August 2019
DRAFT as-built tree locations
REV. DATE DESCRIPTION DRAWN PRE. APP.
- 15-04-19 KYL GH CL
CLIENT
HIGHWAYS DEPARTMENT
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
AECOM
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO.
HY/2012/07
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION
TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C (HyD)
SHEET 6 OF 7
DRAWING REFERENCE 60240249/C1/1756B
SCALE 1:500 (A1) 1:1000 (A3)
DRAWN KYL
PREPARED GH
APPROVED CL
SKETCH NO. SK0497
REV. -
Plot File by: RSTOC1 15-Apr-19
PATH K:\10\DRAWINGS\SKETCH\SK0492-SK0498\SK0497 - Sheet 6 of 7.dgn

N

HKBCF

SITE BOUNDARY

VIADUCT A

VIADUCT B

VIADUCT C

VIADUCT D

TUNG CHUNG

TAI HO WAN

LANTAU NORTH
(EXTENSION)
COUNTRY PARK

NGAU TAU WAN

SIU HO WAN

SK0500

SIU HO WAN

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	15/04/19	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)	GC	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
KEY PLAN OF PLANTING PLAN
FOR NORTH LANTAU HIGHWAY
(TUNG CHUNG BOUND)
SIGN GANTRIES
(HyD)

SHEET 1 OF 3

DRAWING REFERENCE
60240249/C1/1000A

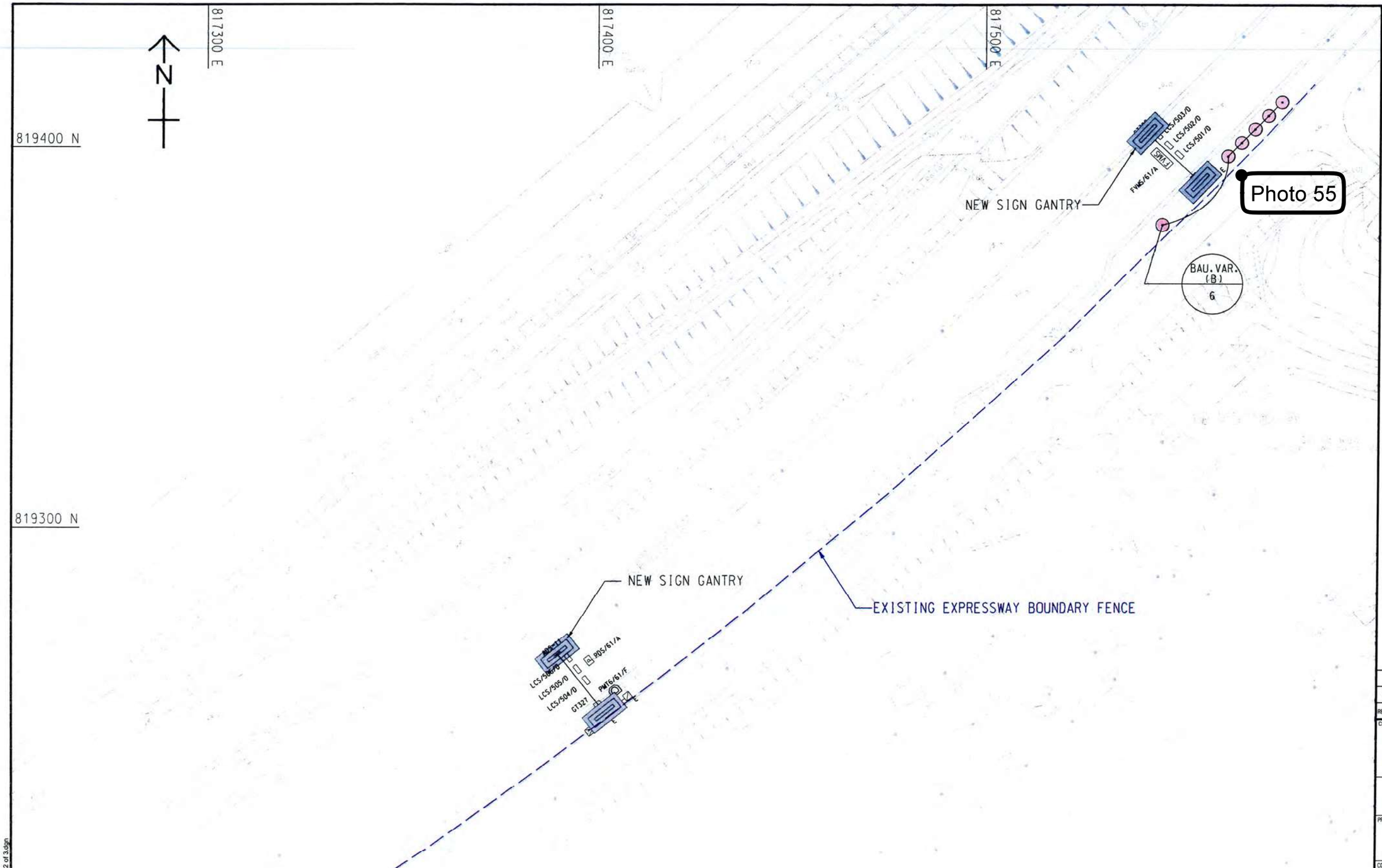
SCALE
1:8000 (A1)
1:16000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO.
SK0499

REV.
-

Plot File by: RSTOC1 16-Apr-19
PATH: K:\TO\DRAWINGS\SKETCH\SK0499-SK0501\SK0499 - Key Plan Sheet 1 of 3.dgn



LEGEND:

PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD (CODE NOS.)

FVMS FULLY VARIABLE MESSAGE SIGN

NOTES:

1. LOCATION REFER TO KEY PLAN DRAWING NO. SK0499.
2. FOR SHRUB PLANTING, REFER TO REINSTATEMENT PLANTING PROPOSAL, DRAWING NOS. J3518/T/GCL/SK/1083 REV.B AND J3518/T/GCL/SK1083 REV.D

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	15/04/19	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) SIGN GANTRIES (HyD)	KYL	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) SIGN GANTRIES (HyD)

SHEET 2 OF 3

DRAWING REFERENCE GCL DRAWING: J3518/T/GCL/SK/0936C

SCALE 1:500 (A1) 1:1000 (A3)

DRAWN	PREPARED	APPROVED
KYL	GH	CL

SKETCH NO. SK0500

REV. -

Plot File by: RSTCC1 16-Apr-19
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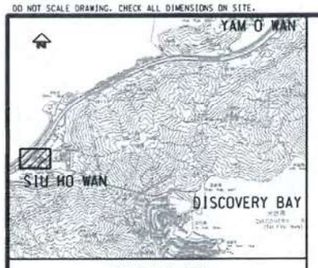
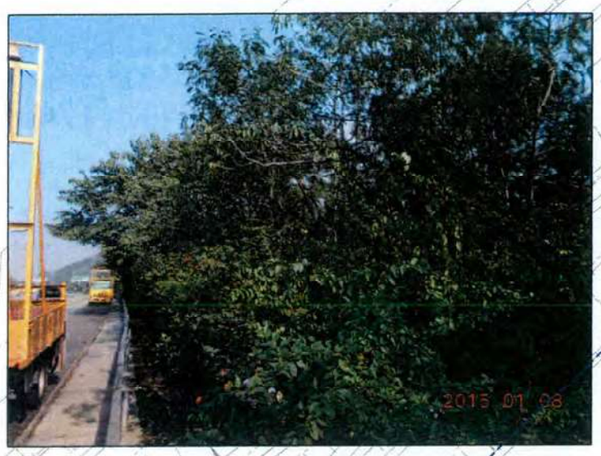
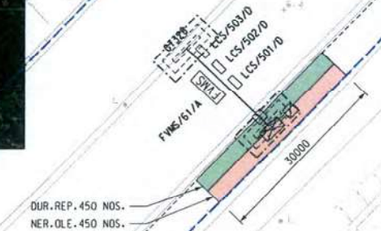
DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



KEY PLAN
SCALE 1 : 40000





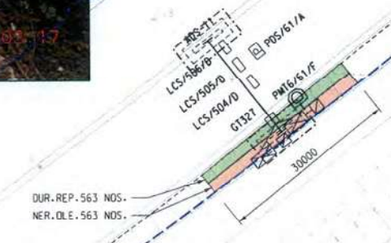


ABB	SCIENTIFIC NAME	CHINESE NAME	SPACING (mm)	OVERALL HEIGHT & WIDTH (mm)	QTY
DUR. REP.	DURANTA REPENS	假連翹	400	300 x 250mm	1013
NER. OLE.	NERIUM OLEANDER	夾竹桃	400	400 x 250mm	1013

LEGEND :

- SITE BOUNDARY
- EXPRESSWAY BOUNDARY
- MTRC RAILWAY PROTECTION BOUNDARY
- BOUNDARY OF LOT MTRL 2RP
- LCSD / AFCD — DEMARCATION LINE WITH VETTING DEPARTMENTS SHOWN THUS
- 5SE-D/F70 — EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
  - DUR.REP.
  - BOU.SPE.

Rev	Description	By	Date
A	FIRST ISSUE	PSK	17MAR15
B	SECOND ISSUE	PSK	21APR15

Drawn	Date
AY	17/MAR/2015
Checked	Approved
PSK	BK
Scale	1:500 @ A1 / 1:1000 @ A3

Client: 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

Project Title: Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Drawing title: REINSTATEMENT PLANTING PROPOSAL

Supervising Officer: AECOM

Contractor: Gammon

Originator: LAMBETH

Drawing no. J3518/T/GCL/SK/1083 Rev. B

Printed by : 4/21/2015
Filename : M:\Job\J3518 - TMCLK Southern Connection Viaduct Section\Drawings\Design\Sketch\Tree Penstation\J3518_T_GCL_SK_10833.dgn

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.

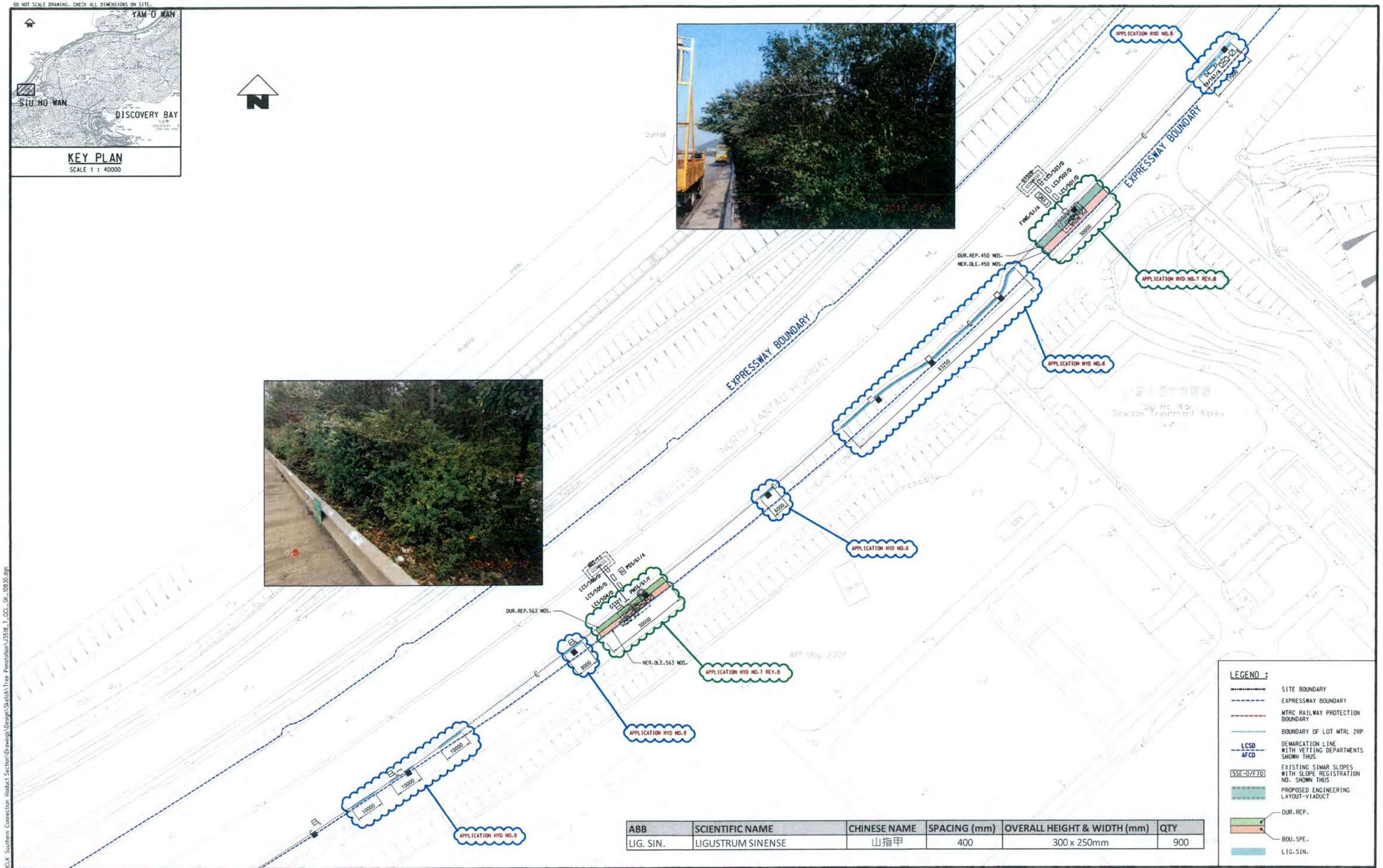


ABB	SCIENTIFIC NAME	CHINESE NAME	SPACING (mm)	OVERALL HEIGHT & WIDTH (mm)	QTY
LIG. SIN.	LIGUSTRUM SINENSE	山指甲	400	300 x 250mm	900

Rev	Description	By	Date
A	FIRST ISSUE	PSK	17MAR15
B	SECOND ISSUE	PSK	21APR15
C	THIRD ISSUE	PSK	16JUL15
D	FOURTH ISSUE	PSK	19AUG15

Drawn: AY
Date: 17/MAR/2015
Checked: PSK
Approved: BK
Scale: 1:600 @ A1 / 1:1200 @ A3

Client: 路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Supervising Officer: AECOM
Contractor: Gammon
Originator: LAMBETH

Project Title:
Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

Drawing title: REINSTATEMENT PLANTING PROPOSAL

Drawing no. J3518/T/GCL/SK/1083 Rev. D

Printed by : 8/19/2015
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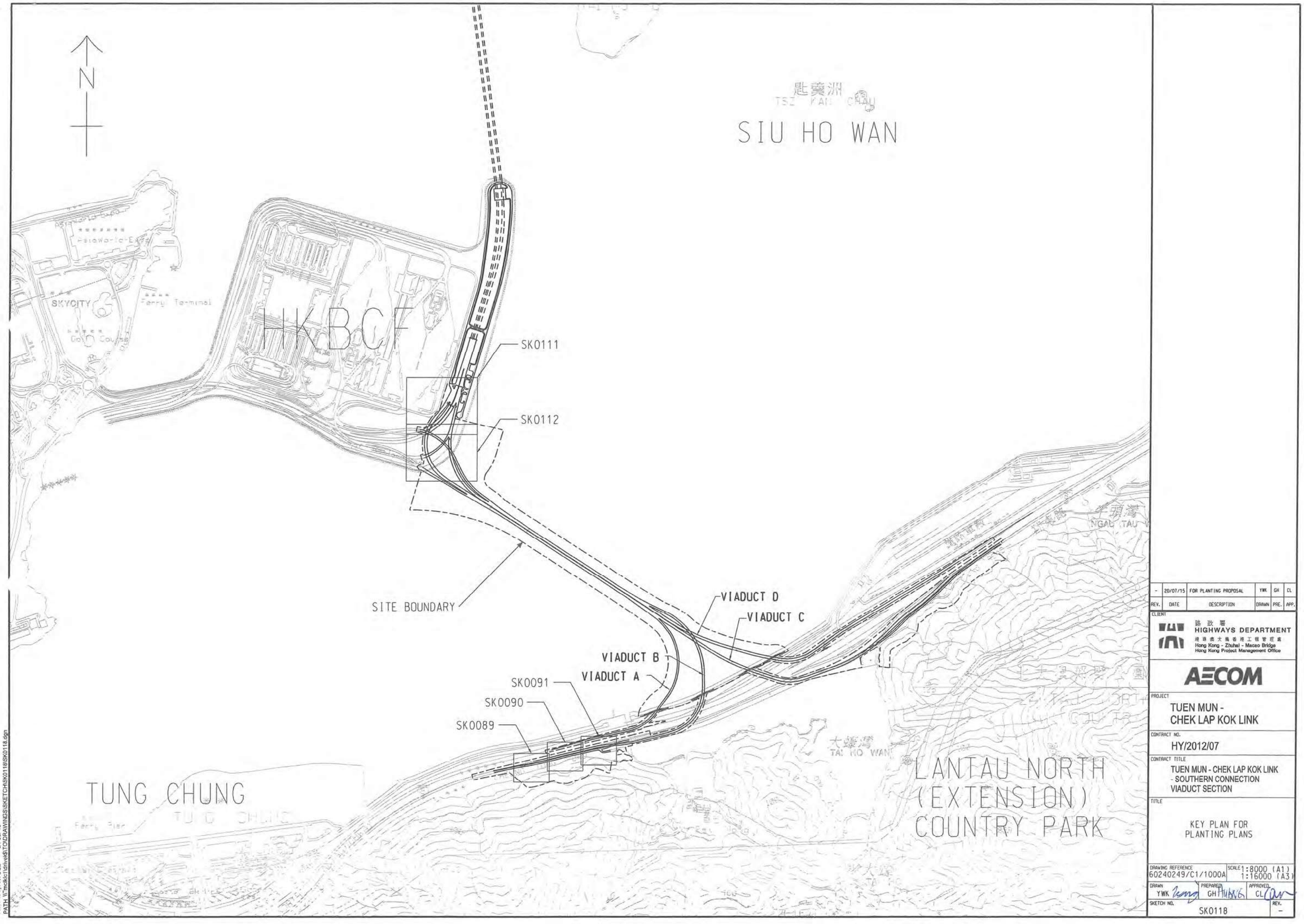

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	20/07/15	FOR PLANTING PROPOSAL	YWK	GH	CL

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT NO.

HY/2012/07

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE

KEY PLAN FOR
PLANTING PLANS

DRAWING REFERENCE	SCALE
60240249/C1/1000A	1:8000 (A1) 1:16000 (A3)

DRAWN	PREPARED	APPROVED
YWK	GH	CL

SKETCH NO. SK0118

REV. -

Plot File by: RTOC2 24-Jul-15
PATH: \\Tmelkic1drive$\TO\DRAWINGS\SKETCH\SK0116\SK0118.dgn

N

EXISTING EXPRESSWAY BOUNDARY

PROPOSED APPROACH ROAD OF VIADUCT B TO MERGE WITH NLH AIRPORT BOUND CARRIAGEWAY

REALIGNED CHEUNG TUNG ROAD

EXISTING EXPRESSWAY BOUNDARY

PROPOSED EXPRESSWAY BOUNDARY

EXISTING EXPR

Photo 58

9SE-B/C9

EXISTING ROCK OUTCROPS APPROX. EXTENT

EXISTING ROCK OUTCROPS APPROX. EXTENT

CUT LINE A-A

SEE SHEET NO. 60240249/C1/SK0090

LEGEND:

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- LIMIT OF WORKS AREA
- PROPOSED TREE MAINTENANCE UNDER TAKEN BY HyD (CODE NOS.)
- 5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- PROPOSED MAX 70° ROCK CUT SLOPE
- PROPOSED SOIL NAIL
- PROPOSED RAKING DRAIN (TYPE 1)
- PROPOSED RAKING DRAIN (TYPE 2)
- PROPOSED RAKING DRAIN (TYPE 3)
- PROPOSED PULL OUT TEST
- PROPOSED MAX 50° SOILCUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED SHRUB MIX
- PROPOSED CLIMBER MIX AT SOIL/ROCK INTERFACE AND AT TOE OF SOILCUT SLOPES
- PROPOSED CLIMBER MIX

NOTES:

1. AREAS AND LOCATIONS OF HYDROSEEDING AND SHRUB MIX SHOWN ARE APPROXIMATE ONLY, TO BE ADJUSTED ON SITE TO SUIT THE EXISTING ROCK OUTCROPS, SOIL NAILS AND RAKING DRAINS.
2. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE LOCATIONS OF SOIL NAILS, ROCK OUTCROPS AND RAKING DRAINS.
3. AREA AND LOCATIONS OF CLIMBER MIX PLANTING TO BE ADJUSTED ON SITE TO SUIT THE SOIL CUT SLOPES, ROCK OUTCROPS AND SOIL NAILS.
4. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT(PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
5. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0108

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-03-15	PLANTING ON SLOPES	YWK	GH	CL

CLIENT

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR SLOPES 9SE-B/C8, 9SE-B/C9 AND 9SE-B/F9 ADJACENT TO CHEUNG TUNG ROAD, NORTH LANTAU

SHEET 1 OF 3

DRAWING REFERENCE	SCALE
60240249/C1/1746C	1:500 (A3)

DRAWN	PREPARED	APPROVED
YWK	GH	CL

SKETCH NO. SK0089 REV. -

Plot File by: RTOC2 28-Jul-15
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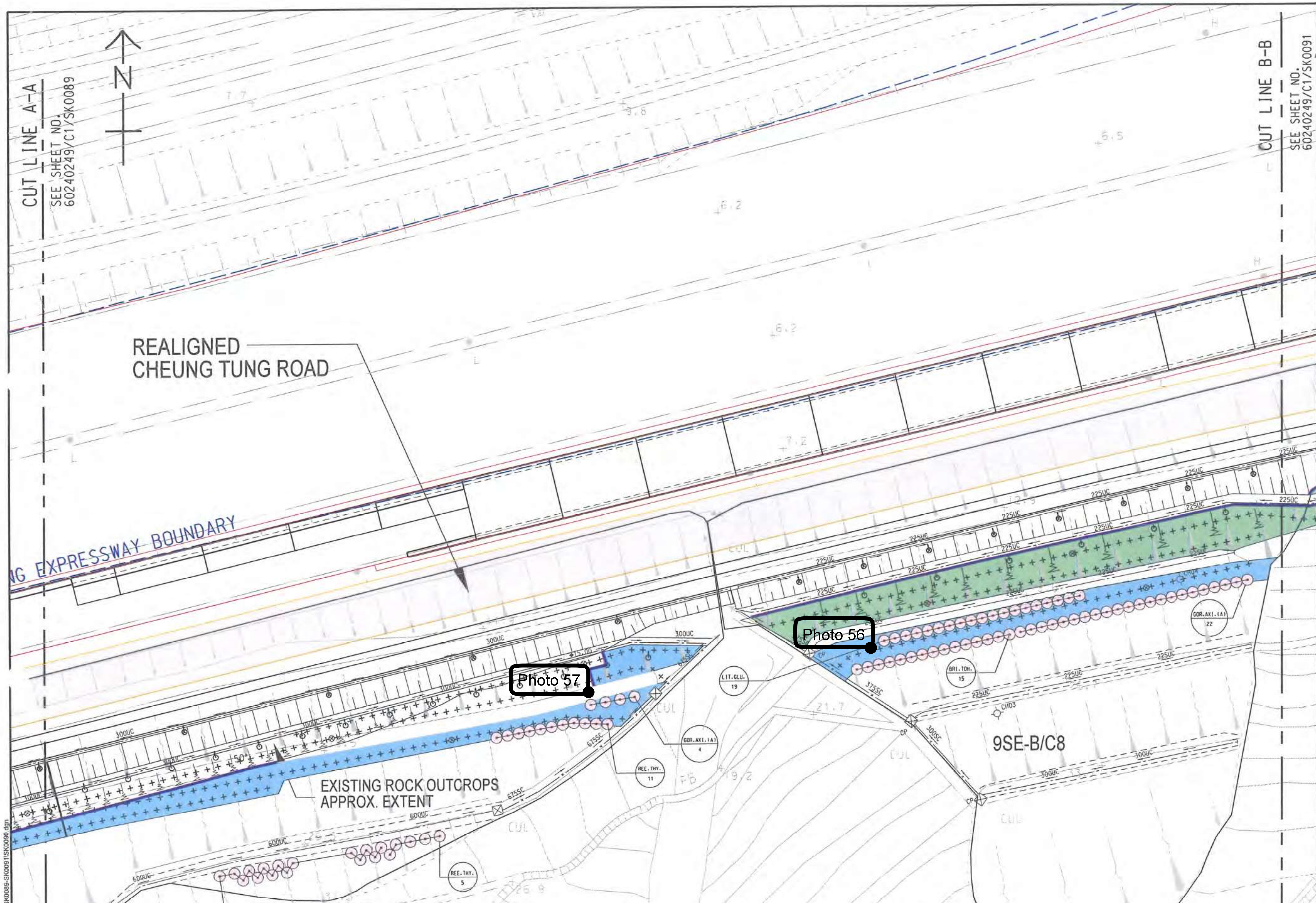


NOTES:

1. AREAS AND LOCATIONS OF HYDROSEEDING AND SHRUB MIX SHOWN ARE APPROXIMATE ONLY, TO BE ADJUSTED ON SITE TO SUIT THE EXISTING ROCK OUTCROPS, SOIL NAILS AND RAKING DRAINS.
2. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE LOCATIONS OF SOIL NAILS, ROCK OUTCROPS AND RAKING DRAINS.
3. AREA AND LOCATIONS OF CLIMBER MIX PLANTING TO BE ADJUSTED ON SITE TO SUIT THE SOIL CUT SLOPES, ROCK OUTCROPS AND SOIL NAILS.
4. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT(PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
5. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0108

LEGEND:

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- LIMIT OF WORKS AREA
- PROPOSED TREE MAINTENANCE UNDER TAKEN BY HyD (CODE / NOS.)
- 5SE - D/FTO: EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- PROPOSED MAX 70° ROCK CUT SLOPE
- PROPOSED SOIL NAIL
- PROPOSED RAKING DRAIN (TYPE 1)
- PROPOSED RAKING DRAIN (TYPE 2)
- PROPOSED RAKING DRAIN (TYPE 3)
- PROPOSED PULL OUT TEST
- PROPOSED MAX 50° SOILCUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED SHRUB MIX
- PROPOSED CLIMBER MIX AT SOIL/ROCK INTERFACE AND AT TOE OF SOILCUT SLOPES
- PROPOSED CLIMBER MIX

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25/03/15	PLANTING ON SLOPES	YWK	GH	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE
PLANTING PLAN FOR SLOPES 9SE-B/C8, 9SE-B/C9 AND 9SE-B/F9 ADJACENT TO CHEUNG TUNG ROAD, NORTH LANTAU

SHEET 2 OF 3

DRAWING REFERENCE 60240249/C1/1746C
SCALE 1:500 (A3)
DRAWN YWK
PREPARED GH
APPROVED CL
SKETCH NO. SK0090
REV. -

Plot File by: RTOC2 28-Jul-15
PATH \\Tmclkc1\drivel$\TO\DRAWINGS\SKETCH\SK0089-SK0091\SK0090.dgn

CUT LINE B-B

SEE SHEET NO. 60240249/C1/SK0090

REALIGNED CHEUNG TUNG ROAD

ABUTMENT OF VIADUCT B

M.J.

NORTH LANTAU HIGHWAY

北大嶼山公路

CHEUNG TUNG ROAD

翔東路

CUL

ESS

B17

B18

Photo 59

9SE-B/F9

Registered as: 9SE-B/C112

225UC

50° MAX.

LEGEND:

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- LIMIT OF WORKS AREA
- PROPOSED TREE MAINTENANCE UNDER TAKEN BY HyD (CODE NOS.)
- 5SE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- PROPOSED MAX 70° ROCK CUT SLOPE
- PROPOSED SOIL NAIL
- PROPOSED RAKING DRAIN (TYPE 1)
- PROPOSED RAKING DRAIN (TYPE 2)
- PROPOSED RAKING DRAIN (TYPE 3)
- PROPOSED PULL OUT TEST
- PROPOSED MAX 50° SOILCUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED SHRUB MIX
- PROPOSED CLIMBER MIX AT SOIL/ROCK INTERFACE AND AT TOE OF SOILCUT SLOPES
- PROPOSED CLIMBER MIX

NOTES:

1. AREAS AND LOCATIONS OF HYDROSEEDING AND SHRUB MIX SHOWN ARE APPROXIMATE ONLY, TO BE ADJUSTED ON SITE TO SUIT THE EXISTING ROCK OUTCROPS, SOIL NAILS AND RAKING DRAINS.
2. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE LOCATIONS OF SOIL NAILS, ROCK OUTCROPS AND RAKING DRAINS.
3. AREA AND LOCATIONS OF CLIMBER MIX PLANTING TO BE ADJUSTED ON SITE TO SUIT THE SOIL CUT SLOPES, ROCK OUTCROPS AND SOIL NAILS.
4. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT(PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
5. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0108

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-03-15	PLANTING ON SLOPES	YWK	GH	CL

CLIENT

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT: TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.: HY/2012/07

CONTRACT TITLE: TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE: PLANTING PLAN FOR SLOPES 9SE-B/C8, 9SE-B/C9 AND 9SE-B/F9 ADJACENT TO CHEUNG TUNG ROAD, NORTH LANTAU

SHEET 3 OF 3

DRAWING REFERENCE	SCALE
60240249/C1/1746C	1:500 (A3)

DRAWN	PREPARED	APPROVED
YWK	GH	CL

SKETCH NO.: SK0091 REV.: -

Plot File by: RTOC2 28-Jul-15
PATH \\fmclkc-1\drive$\ST0\DRAWINGS\SKETCH\SK0085-SK0091\SK0091.dgn

Contract No. HY/2012/07 (C1) Landscape Area Checking for EP Condition 2.9

Area Code	Location	Plan Area (sq.m.) Approx.	Average Slope Angle	Plane Area (sq.m.) Approx.
N1	CTR	1580	0	1575
N2	CTR	266	0	264
N3	NLH	34	0	34
N4	NLH	30	0	1824
N5	CTR	1779	0	725
N6	CTR	725	0	14273
N7	NLH	14273	0	9095
N8	NLH	9095	0	918
N9	NLH	918	0	1302
N10	NLH	1302	0	6413
N11	NLH	6413	0	29
N12	NLH	489	0	489
N13	CTR and NLH	447	0	447
N14	CTR and NLH	969	0	983
N15	CTR	132	0	359
N16	CTR	132	0	132
N17	NLH	963	0	963
N18	NLH	454	0	454
N19	NLH	1028	0	1028
N20	NLH	450	0	464
N21	NLH	609	0	370
S1	CTR - PF2	607	27	681
S2	CTR - PF1	230	27	258
S3	10NW-C/F13, C/F14, C/F15	8483	26	9438
S4	10NW-C/F50(de-registered)	968	20	1030
S5	10NW-C/F52	619	27	695
S6	NLH - RD1	317	27	356
S7	10NW-C/F10	2515	27	2823
S8	10NW-C/F11	2893	27	3247
S9	10NW-C/F17	3138	27	3522
S10	10NW-C/F9	3052	26	3396
S11	9SE-B/F85	726	25	801
S12	9SE-B/C112	450	50	700
S13	9SE-B/C8	2832	40	3697
S14	9SE-B/C9	7361	45	10410
-	Southern Landfall	47023	0	47120
Sub-total (A)				**130315**
DSD Project: DC/2016/01 Entrusted Landscape Works along Cheung Tung Road	CTR	14097	0	13834
Sub-total (B)				**13834**
Total (A) + (B)				**144149**

ABBREVIATIONS

CTR	Cheung Tung Road
NLH	North Lantau Highway

813600 E

813800 E

814000 E

819400 N

819200 N

819000 N

AREA 47120m²

110m - TUNG CHUNG NAVIGATION CHANNEL

N

LEGEND:

- SITE BOUNDARY
- AS-BUILT U-Channel
- AS-BUILT MAINTENANCE ACCESS
- AS-BUILT MAINTENANCE FOOTPATH
- AS-BUILT PLANTING
- ENGINEERING LAYOUT-VIADUCT
- D19 PIER MARK
- AREA BOUNDARY

APPROVED AND CONFIRMED BY

TITLE
AECOM (RLS)

NAME
SAMMY TSOI

SIGNATURE

FOR INFORMATION

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.

CLIENT

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

TITLE
LANDSCAPE AREA
(SOUTHERN LANDFALL)

DRAWING REFERENCE	SCALE
NEW DRAWING	1:1000 (A1) 1:2000 (A3)

DRAWN	PREPARED	APPROVED
KW	CL	CL

SKETCH NO. SK-0600 REV. –

Plot File by: kathrinawong 10/09/2020
PATH: $FILE1$

APPROVED AND CONFIRMED BY

TITLE
AECOM (RLS)

NAME
SAMMY TSOI

SIGNATURE

VIADUCT A

VIADUCT B

VIADUCT C

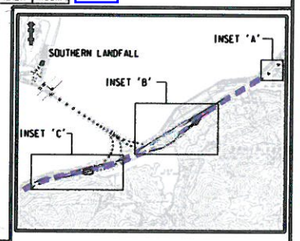
VIADUCT D

NORTH LANTAU HIGHWAY

CHEUNG TUNG ROAD

N1 AREA 1575m²
N2 AREA 264m²
N3 AREA 34m²
N4 AREA 1824m²
N5 AREA 725m²
N6 AREA 14273m²
N7 AREA 9095m²
N8 AREA 918m²
N9 AREA 1302m²
N10 AREA 6413m²
N11 AREA 29m² AREA 22m²
N12 AREA 489m²
N13 AREA 447m²
N14 AREA 983m²
N15 AREA 359m²
N16 AREA 132m²
N17 AREA 963m²
N18 AREA 454m²
N19 AREA 1028m²
N20 AREA 464m²
N21 AREA 370m²

S1 AREA 607m²
S2 AREA 230m²
S3 AREA 8483m²
S4 AREA 968m²
S5 AREA 619m²
S6 AREA 317m²
S7 AREA 2515m²
S8 AREA 2893m²
S9 AREA 3138m²
S10 AREA 3052m²
S11 AREA 726m²
S12 AREA 450m²
S13 AREA 2832m²
S14 AREA 7361m²



INSET 'C'
SCALE 1 : 4000 (A3)
SCALE 1 : 2000 (A1)

INSET 'B'
SCALE 1 : 4000 (A3)
SCALE 1 : 2000 (A1)

INSET 'A'
SCALE 1 : 4000 (A3)
SCALE 1 : 2000 (A1)

NOTE:

1. AREA OF SLOPES SHOWN ARE MEASURED BY THE PLAN AREA.
2. DATA OF SLOPES AND ROAD ALIGNMENT BASED ON CERTIFIED DRAWINGS OF INDEPENDENT DESIGN CHECKER.

LEGEND:

- EXISTING EXPRESSWAY BOUNDARY
- REVISED EXPRESSWAY BOUNDARY
- MTRC BOUNDARY FENCE
- ENGINEERING LAYOUT-VIADUCT
- D19 PIER MARK
- NON-SLOPE AREA
- SLOPE AREA

FOR INFORMATION

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	03/09/20	LANDSCAPE AREA	KW	CL	CL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.
HY/2012/07

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

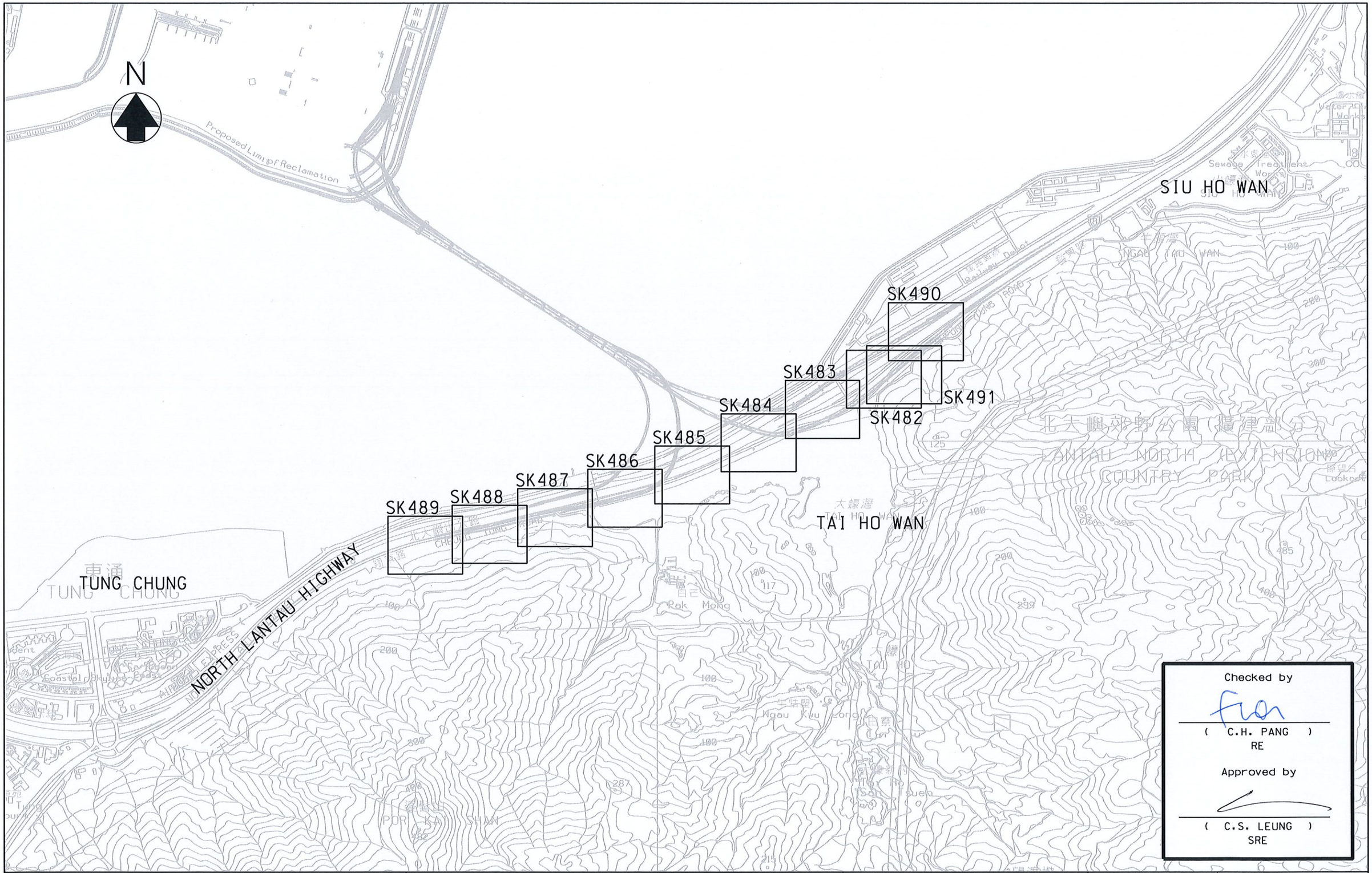
TITLE
LANDSCAPE AREA

DRAWING REFERENCE	SCALE
-	1:2000(A1) 1:4000(A3)

DRAWN	PREPARED	APPROVED
KW	CL	CL

SKETCH NO. SK0598 REV. -

Plot File by: kathrinawong 11/09/2020
PATH: $FILE$



Checked by

(C.H. PANG)
RE

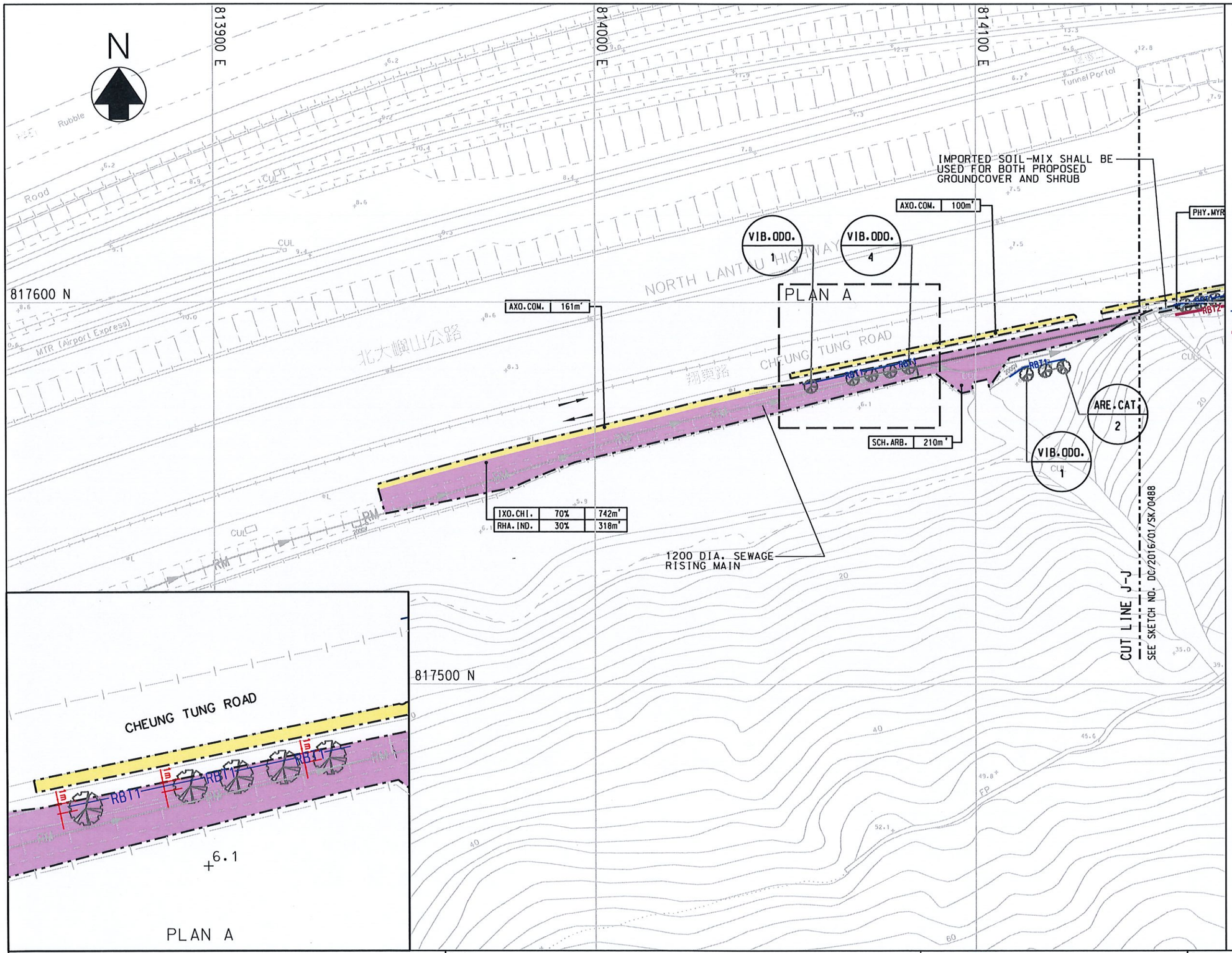
Approved by

(C.S. LEUNG)
SRE

Project: CONTRACT NO. DC/2016/01 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS 建造東涌至小蠔灣額外污水泵喉及附屬工程	香港特別行政區政府渠務署 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT	Drawn by: P L	Date: 14/06/2018	
Title: KEY PLAN OF PLANTING PLAN	BLACK & VEATCH HONG KONG LIMITED 博威工程顧問有限公司	Checked by: F N T	Scale: A3 1 : 15000	
		Approved by: T C	Sketch no.: DC/2016/01/SK/0481	Revision: B

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK481B.dgn



LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN
- PROPOSED GROUNDCOVER (1200mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED PIT PLANTING (INDIVIDUAL EXCAVATIONS TO ACCOMMODATE REPLANTED TREES 600mm THK. FOR SHRUB 1200mm THK. FOR TREES)
- RHA.EXC. 905.76m² — SPECIES — AREA (sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- -RBT1—RBT1- ROOT BARRIER (TYPE I)
- =RBT2=RBT2= ROOT BARRIER (TYPE II)

1531m²

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 8 OF 8)

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by: W T L	Date: 19/07/2019
Checked by: F P	Scale: A3 1 : 1000
Approved by: C L	Sketch no.: DC/2016/01/SK/0489
	Revision: F

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK489F.dgn

N

817700 N

817600 N

817500 N

814200 E

814300 E

814400 E

Road

Tunnel Portal

ICUL

CUL

FB

FP

VIB. ODO. 27

ARE. CAT. 26

ARE. CAT. 2

.ODO. 1

1200 DIA. SEWAGE RISING MAIN

A

A

PHY. MYR. 401m²

EXTENT OF PROPOSED ROOT BARRIER (TYPE I AND TYPE II)

EXTENT OF PROPOSED ROOT BARRIER (TYPE II)

EXTENT OF RAISED PLANTING AREA

IMPORTED SOIL-MIX SHALL BE USED FOR PROPOSED GROUNDCOVER

CUT LINE J-J

SEE SKETCH NO. DC/2016/01/SK/0489

CUT LINE H-H

SEE SKETCH NO. DC/2016/01/SK/0487

RBT1 RBT2

LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN
- PROPOSED GROUNDCOVER (1200mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED PIT PLATING (INDIVIDUAL EXCAVATIONS TO ACCOMMODATE REPLANTED TREES 600mm THK. FOR SHRUB 1200mm THK. FOR TREES)

RHA.EXC. | 905.78m² — SPECIES — AREA (sq.m)

CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD

-RBT1—RBT1- ROOT BARRIER (TYPE I)

=RBT2=RBT2= ROOT BARRIER (TYPE II)

401m²

END OF RAISED PLANTING AREA

PLANTER WALL (TO BE CONSTRUCTED BY OTHERS)

1200

1200

1200 DIA. SEWAGE RISING MAIN (TO BE CONSTRUCTED BY OTHERS)

DOUBLE AIR VALVE CHAMBER (TO BE CONSTRUCTED BY OTHERS)

SECTION A - A

N.T.S.

TO BE DETERMINED ON SITE BY THE ENGINEER

RAILING

STONE COPING 25 x 25 CHAMFER

100 THK. STONE SET IN 1:3 CEMENT SAND MORTAR WITH 5mm RECESS STONE JOINT

STONE FACING AS SPECIFIED

BITUMINOUS PAINTING AT THE REAR FACE OF THE RETAINING WALL

75ø WEEPHOLES AT 1200 c/c OF FALL 1:15

FINISHED GROUND LEVEL TO BE MATCH WITH EXISTING GROUND LEVEL

SOIL MIX TO BE BACKFILLED

C283 MESH REINFORCEMENT

NON-WOVEN GEOTEXTILE MEMBRANE

25mm CHAMBER

850

1000

1400

150

50

225 U - CHANNEL CONNECTING TO DRAINAGE SYSTEM PROVIDED BY HyD's TM-CLK LINK PROJECT

PROPOSED GROUND LEVEL

TREE AS SPECIFIED (SPECIES WITH AGGRESSIVE ROOT SYSTEM AND/OR LARGE ROOT FLARE/BUTTRESS SHALL BE AVOIDED)

ROOT BALL (APPROX. 500 DEPTH)

75mm BLINDING LAYER

PROPOSED PROPRIETARY JOINTLESS ROOT BARRIER (TYPE II)

SLOPE FACE

1:2

COVERED U-CHANNEL CONNECTING TO DRAINAGE SYSTEM PROVIDED BY HyD'S TM-CLK LINK PROJECT

75mm BLINDING LAYER TO BE GRADE 10/200

C283 MESH REINFORCEMENT

CONCRETE FILL

250 MIN.

200

20 x 20 GREY POLYSULPHIDE SEALING COMPOUND OR SIMILAR APPROVED MATERIAL AND 20 THK. APPROVED JOINT FILLER

EXISTING CLP CABLES

FOUNDATION LEVEL TO BE DETERMINED ON SITE

150 MIN. 150 1200 150 1500

PROPOSED DSD ø1200 SEWAGE RISING MAIN WITH CONCRETE SURROUND

TYPICAL SECTION OF RAISED PLANTER AREA

N.T.S.

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 7 OF 8)

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by	W T L	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0488
		Revision	G

Plot Date = 9/9/2020

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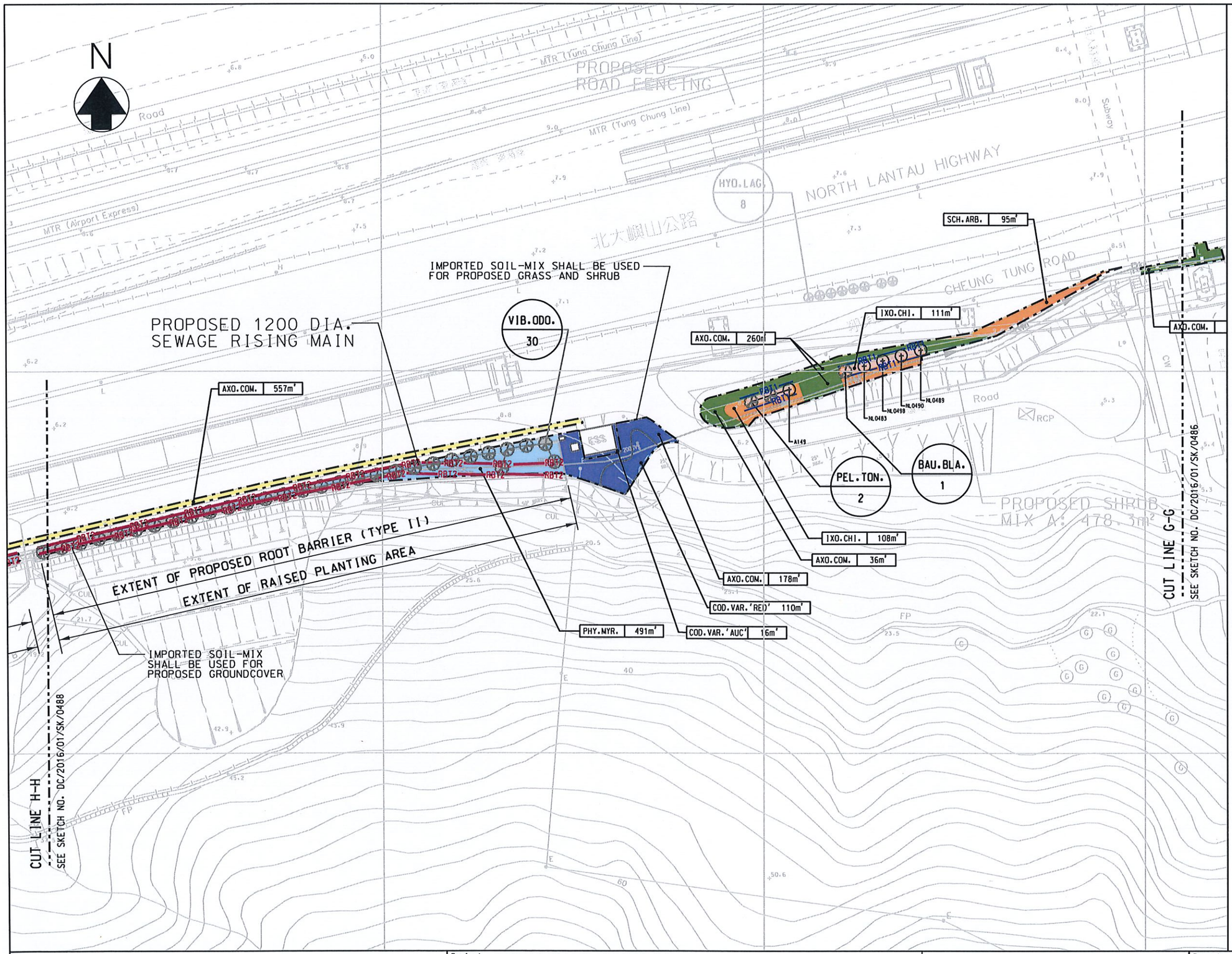

LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN
- PROPOSED GROUNDCOVER (1200mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
- PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
- PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
- PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
- PROPOSED GRASS AND SHRUB (600mm THK. SOIL-MIX FOR GRASS AND SHRUB PLANTING)

RHA.EXC. 905.7m² (SPECIES / AREA(sq.m))

CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD

NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD

-RBT1——RBT1- ROOT BARRIER (TYPE I)

=RBT2==RBT2= ROOT BARRIER (TYPE II)

1962m²

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 6 OF 8)

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by	Date
C F	31/07/2019
Checked by: F P	Scale: A3 1 : 1000
Approved by: C L	Sketch no.: DC/2016/01/SK/0487 — Revision: K

Plot Date = 9/9/2020

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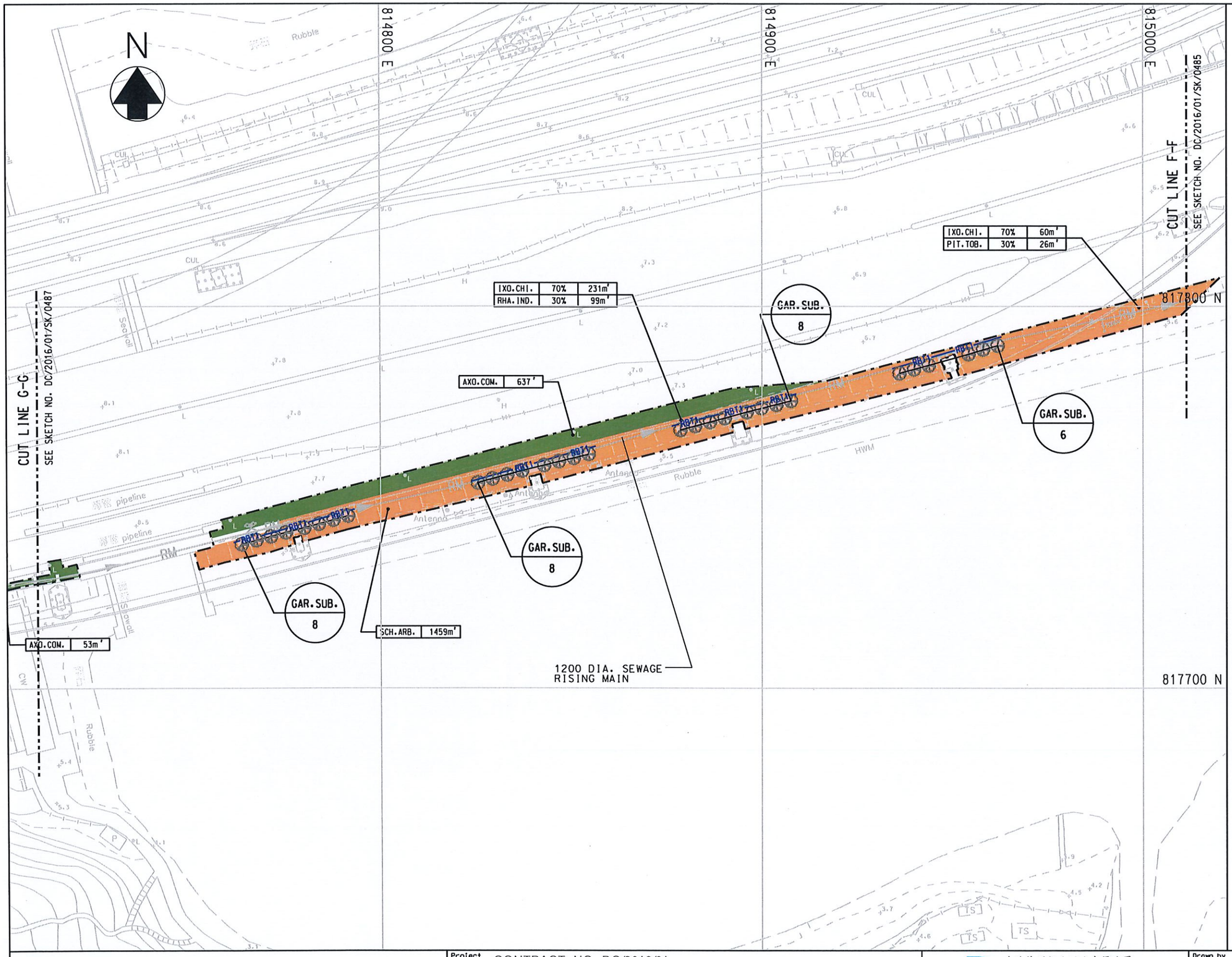


LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN
- PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
- PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
- PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
- PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
- RHA.EXC. 905.76m² — SPECIES / AREA(SQ.m)
- COCK NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- -RBT1—RBT1- ROOT BARRIER (TYPE I)
- =RBT2=RBT2= ROOT BARRIER (TYPE II)

2565m²

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 5 OF 8)

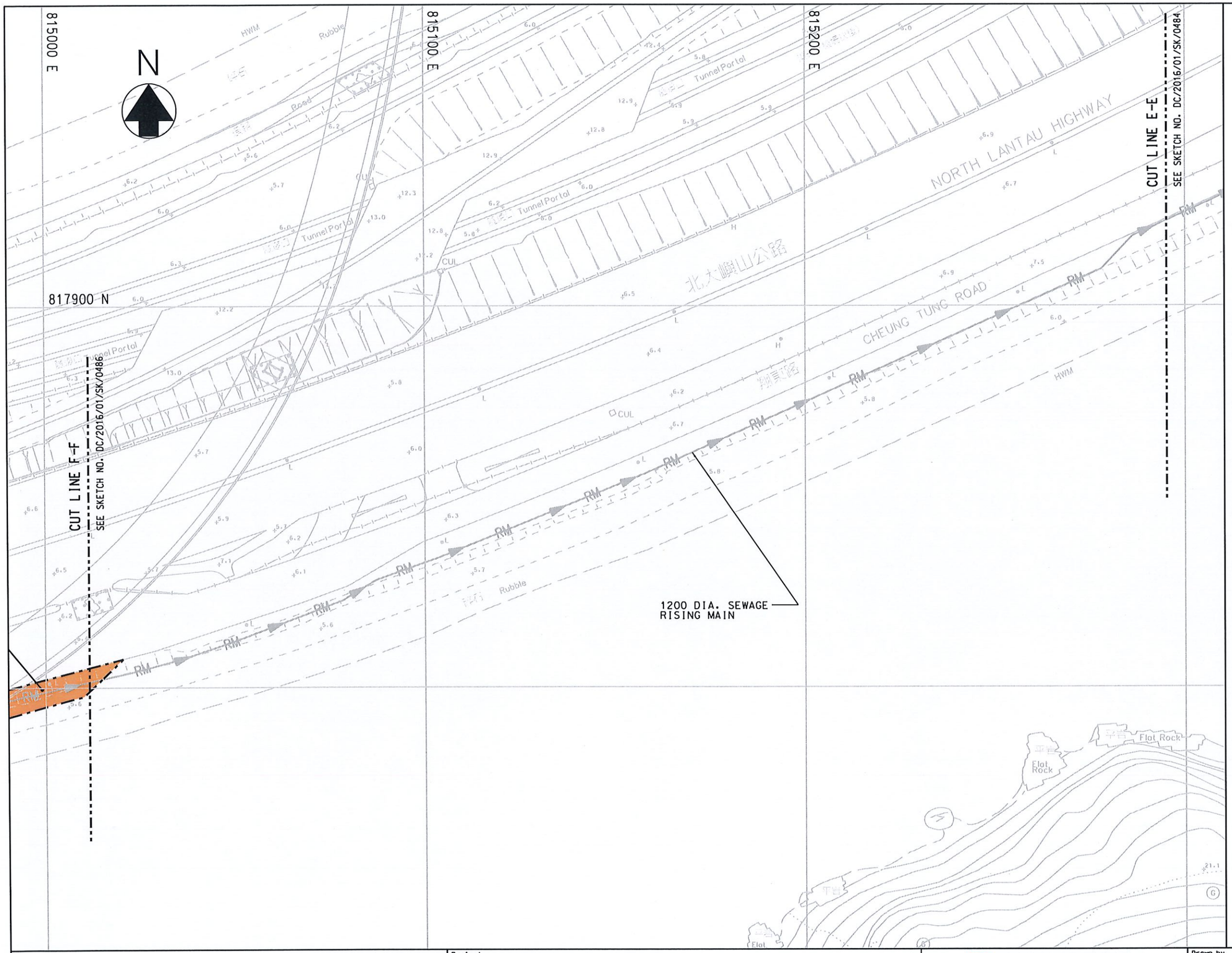
香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by	Date
C F	31/07/2019
Checked by	Scale
F P	A3 1 : 1000
Approved by	Sketch no. / Revision
C L	DC/2016/01/SK/0486 / H

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK486H.dgn



LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN
- PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
- PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
- PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
- PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
- RHA.EXC. 905.78m² — SPECIES / AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- -RBT1—RBT1- ROOT BARRIER (TYPE I)
- =RBT2=RBT2= ROOT BARRIER (TYPE II)

NOTES:

1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 4 OF 8)

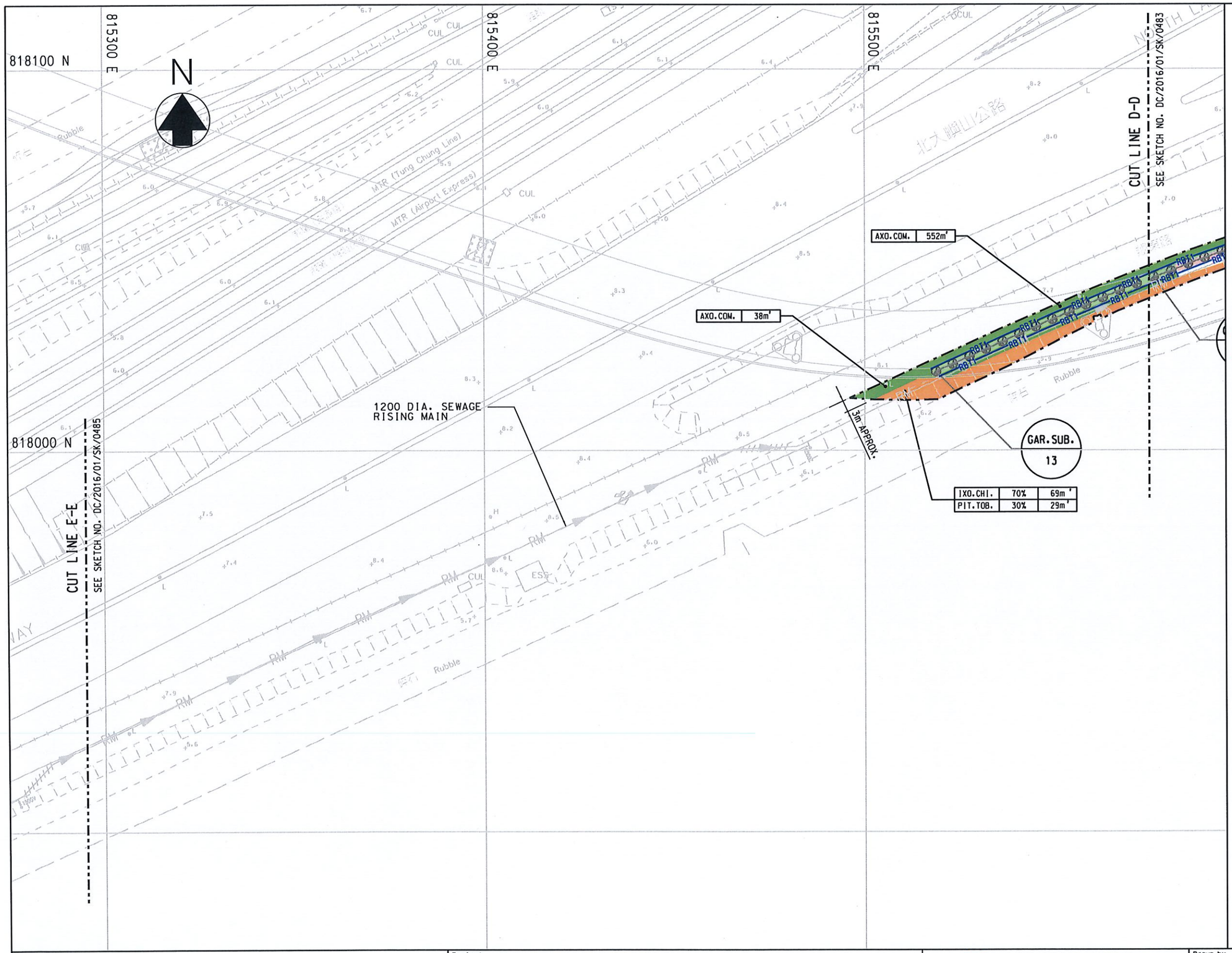
香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by: W T L	Date: 31/07/2019		
Checked by: F P	Scale: A3 1 : 1000		
Approved by: C L	Sketch no.: DC/2016/01/SK/0485	Revision: D	

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK485D.dgn



LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN
- PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
- PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
- PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
- PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
- RHA.EXC. 905.78m — SPECIES — AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- -RBT1——RBT1- ROOT BARRIER (TYPE I)
- =RBT2——RBT2= ROOT BARRIER (TYPE II)

688m²

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 3 OF 8)

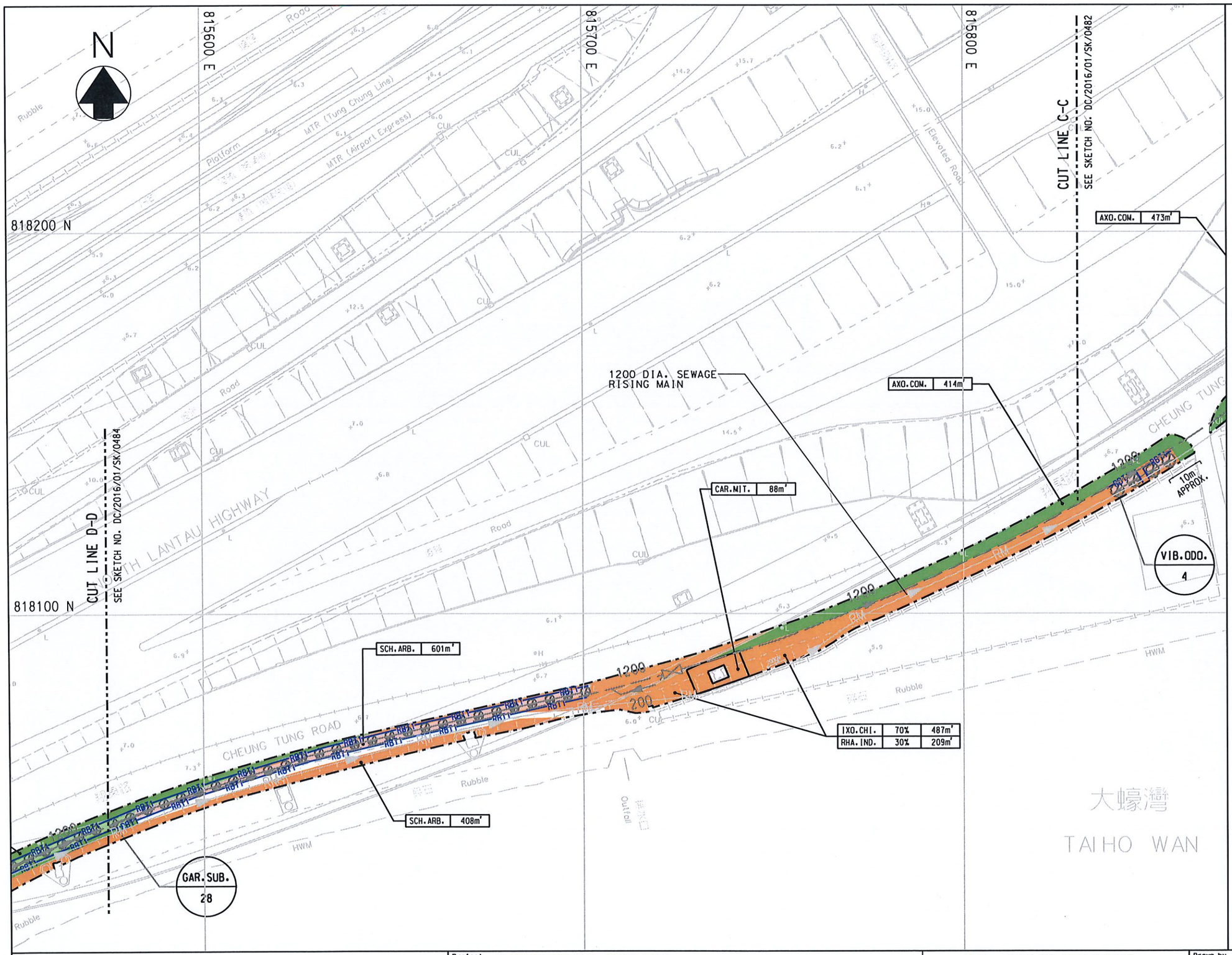
香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by: W T L	Date: 31/07/2019		
Checked by: F P	Scale: A3 1 : 1000		
Approved by: C L	Sketch no.: DC/2016/01/SK/0484	Revision: E	

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK484E.dgn



LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN
- PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
- PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
- PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
- PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
- RHA.EXC. 905.76m² — SPECIES — AREA(sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- -RBT1——RBT1- ROOT BARRIER (TYPE I)
- =RBT2——RBT2= ROOT BARRIER (TYPE II)

2207m²

Checked by
fcn
(C.H. PANG)
RE

Approved by
(C.S. LEUNG)
SRE

NOTES:
1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 2 OF 8)

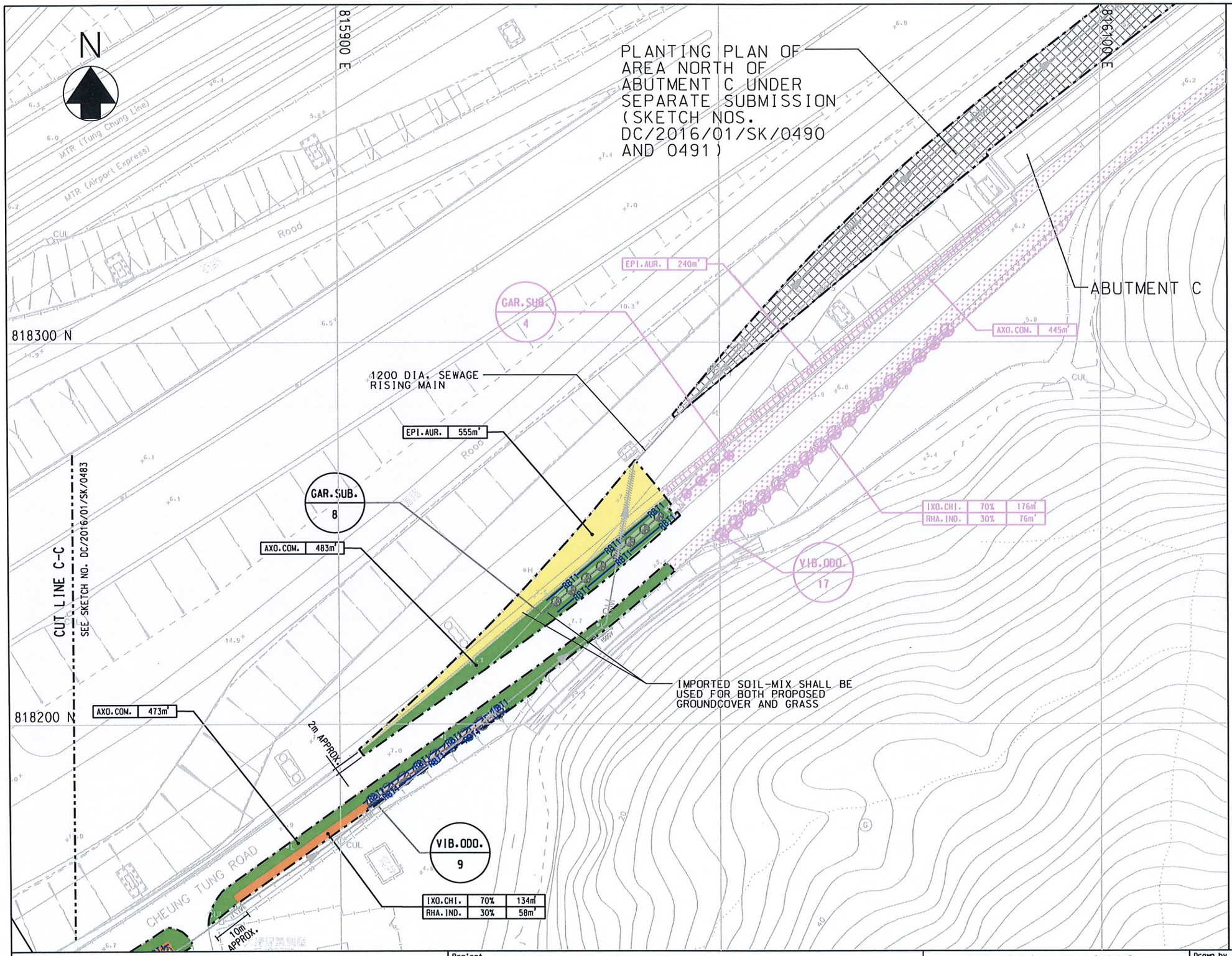
香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by	W T L	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0483
		Revision	E

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK483E.dgn



LEGEND:

- LANDSCAPE LIMIT
- RM — PROPOSED DN1200 RISING MAIN
- RBT1 — RBT1 — ROOT BARRIER (TYPE I)
- RBT2 — RBT2 — ROOT BARRIER (TYPE II)
- HL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY LCSD

HANDOVER BY DC/2016/01

- PROPOSED GROUNDCOVER (450mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
- PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
- PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
- PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)

RHA.EXC. 505.78m² (SPECIES, AREA(sq.m))

CODE NOS. — PROPOSED TREE. MAINTENANCE UNDERTAKEN BY LCSD

1703m²

HANDOVER BY HY/2012/07

- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS

RHA.EXC. 505.78m² (SPECIES, AREA(sq.m))

CODE NOS. — PROPOSED TREE. MAINTENANCE UNDERTAKEN BY LCSD (HANDOVER BY HY/2012/07)

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 1 OF 8)

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by: W T L	Date: 31/07/2019
Checked by: F P	Scale: A3 1 : 1000
Approved by: C L	Sketch no.: DC/2016/01/SK/0482
	Revision: K

Plot Date = 9/9/2020

CAD Filename = O:\Technical\TO\Site Sketch\SK482K.dgn

818400 N

818300 N

818200 N

816000 E

816100 E

816200 E

N

IMPORTED SOIL-MIX SHALL BE USED FOR BOTH PROPOSED GROUNDCOVER AND SHRUB

PROPOSED HARD GRANULAR MATERIAL

PHY.MYR. 226m²

NEP.AUR. 193m²

PHY.MYR. 55m²

NEP.AUR. 275m²

ASP.DEN. 147m²

1200 DIA. SEWAGE RISING MAIN (TO BE CONSTRUCTED BY OTHERS)

CUT LINE B-B

SEE SKETCH NO. DC/2016/01/SK/0490

ABUTMENT C

CHEUNG TUNG ROAD

Road

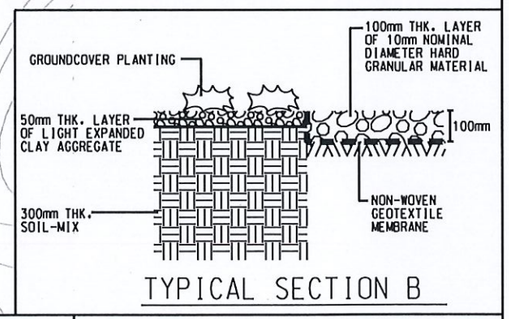
CUL

RM

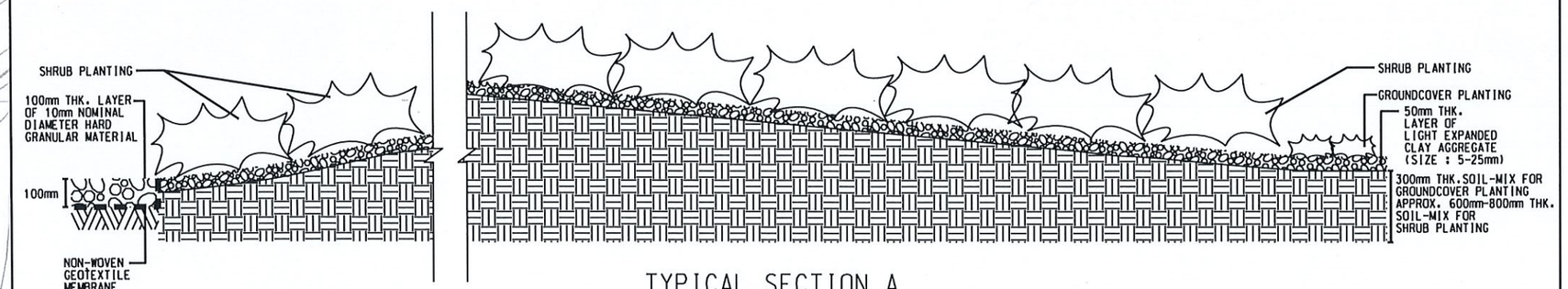
LEGEND:

- LANDSCAPE LIMIT
- RM — RISING MAIN (TO BE CONSTRUCTED BY OTHERS)
- 5SE - D/F70 — EXISTING STMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED SHRUB (600mm THK. MIN. SOIL-MIX FOR SHRUB PLANTING)
- RHA.EXC. 905.76M² — SPECIES / AREA(sq.m)
- COOK NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD

896m²



TYPICAL SECTION B



TYPICAL SECTION A

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
2. IMPORTED SOIL-MIX SHALL BE USED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR AREA NORTH OF ABUTMENT C (SHEET 2 OF 2)

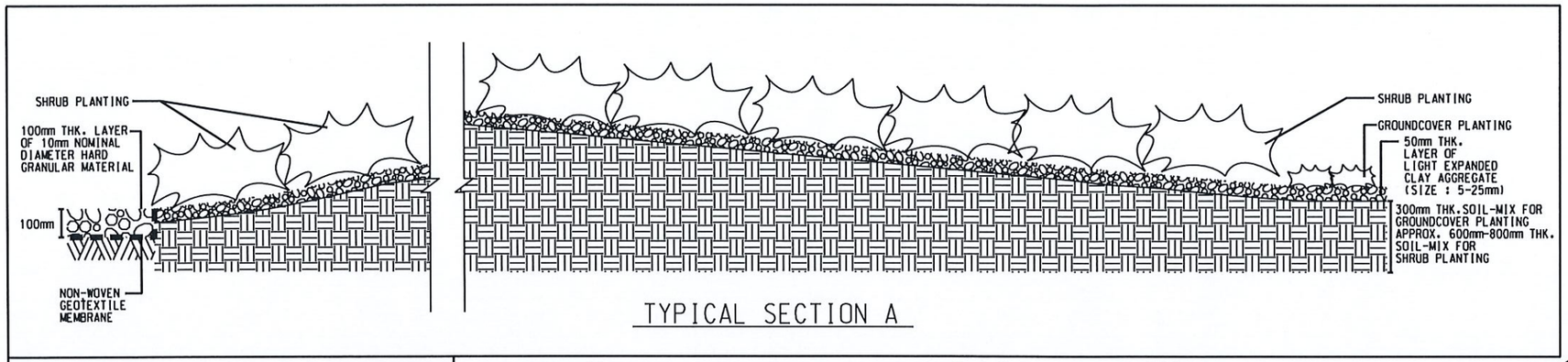
香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

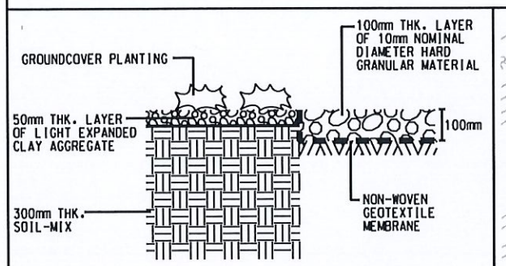
Drawn by	Date
P L	03/07/2018
Checked by	Scale
F N T	A3 1 : 1000
Approved by	Sketch no. / Revision
T C	DC/2016/01/SK/0491 / D

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK491D.dgn



TYPICAL SECTION A



TYPICAL SECTION B

LEGEND:

- LANDSCAPE (TML)
- RM — RISING MAIN (TO BE CONSTRUCTED BY OTHERS)
- 5SE - D/F70 — EXISTING STMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED SHRUB (600mm THK. MIN. SOIL-MIX FOR SHRUB PLANTING)
- RHA.EXC. 905.78m² — SPECIES / AREA (sq.m)
- CODE NOS. — PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- NL0482 — PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD

1881m²

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

NOTES:

1. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
2. IMPORTED SOIL-MIX SHALL BE USED.

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING PLAN FOR AREA NORTH OF ABUTMENT C (SHEET 1 OF 2)

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by	Date
P L	03/07/2018
Checked by	Scale
F N T	A3 1 : 1000
Approved by	Sketch no. / Revision
T C	DC/2016/01/SK/0490 / E

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK490E.dgn

PLANTING SCHEDULE FOR CHEUNG TUNG ROAD (UNDER MAINTENANCE OF LCSD)								
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)	NO./m²	%MIX.	QUANTITY (APPROX. NOS.)	REMARK
TREE PLANTING								
GAR.SUB.	Garcinia subelliptica	非洲福木	Light Standard	4000-5000	-	-	79	-
BAU.BLA	Bauhinia x blakeana	洋紫荊	Heavy Standard	5000	-	-	1	-
PEL.TON.	Peltophorum tonkinense	銀珠	Heavy Standard	5000	-	-	2	
VIB.ODO.	Viburnum odoratissimum	珊瑚樹	Heavy Standard	5000	-	-	76	-
PALM PLANTING - EXOTIC								
ARE.CAT	Areca catechu	檳榔	4000(H)	4000	-	-	28	-
GROUND COVER PLANTING								-
EPI.AUR.	Epipremnum aureum	綠蘿	200(H) x 300(S)	300	12.54	-	6264	-
SHRUB PLANTING								
IXO.CHI.	Ixora chinensis	龍船花	300(H) x 300(S)	300	12.54	-	19482	PLANT ALL SPECIES IN STAGGERED PATTERN.
PHY.MYR.	Phyllanthus myrtifolius	錫蘭葉下珠	300(H) x 300(S)	300	12.54	-	8949	
CAR.MIT.	Caryota mitis	短穗魚尾葵	2500(H),min 4 clumps pre plant	750	1.95	-	137	
SCH.ARB.	Schefflera arboricola	八葉	300(H) x 300(S)	300	12.54	-	27819	
COD.VAR.'AUC'	Codiaeum variegatum 'aucubaefolium'	灑金榕	300(H) x 300(S)	300	12.54	-	161	
COD.VAR.'RED'	Codiaeum variegatum 'red'	灑金榕（紅色）	300(H) x 300(S)	300	12.54	-	1104	
PIT.TOB.	Pittosporum tobira	海桐花	300(H) x 300(S)	300	12.54	-	552	
RHA.IND.	Rhaphlolepis indica	車輪梅	300(H) x 300(S)	300	12.54	-	6862	
GRASS PLANTING								
AXO.COM.	Axonopus compressus	地毯草（大葉草）	WHOLE PIECE TURF 300(L) x 300(W) x 50(H)	-	m²	-	3548	25mm HIGH SWORD AND 25mm SOIL BASE OF TURF

NOTES:
1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. DC/2016/01/SK/0482 TO DC/2016/01/SK/0489.

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

Project: CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title: PLANTING SCHEDULE FOR CHEUNG TUNG ROAD (LCSD)

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by	Date
W T L	28/11/2019
Checked by	Scale
F P	SCHEDULE
Approved by	Sketch no. / Revision
C L	DC/2016/01/SK/0343 / E

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK343E.dgn

PLANTING SCHEDULE FOR AREA NORTH OF ABUTMENT C (UNDER MAINTENANCE OF LCSD)								
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)	NO./m²	%MIX.	QUANTITY (APPROX. NOS.)	REMARK
SHRUB PLANTING								
ZAM.FUR.	Zamia furfuracea	牙買加蘇鐵	400(H) x 500 (S)	500	4.6	-	1366	PLANT IN STAGGERED PATTERN.
PHY.MYR.	Phyllanthus myrtifolius	錫蘭葉下珠	300(H) x 300 (S)	300	12.54	-	3939	
GROUNDCOVER PLANTING								
ASP.DEN.	Asparagus densiflorus	非洲天門冬	200(H) x 300 (S)	200	29	-	3837	PLANT ALL SPECIES IN STAGGERED PATTERN.
NEP.AUR.	Nephrolepis auriculate	腎蕨	250(H) x 250 (S)	150	51.59	-	90587	

NOTES:
1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. DC/2016/01/SK/0490 TO DC/2016/01/SK/0491.

Checked by

(C.H. PANG)
RE

Approved by

(C.S. LEUNG)
SRE

REV	DESCRIPTION
B	QUANTITY REVISED
A	NOTE REVISED

Project
CONTRACT NO. DC/2016/01
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title
PLANTING SCHEDULE FOR AREA NORTH OF ABUTMENT C (LCSD)

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Drawn by: W T L	Date: 28/11/2019
Checked by: F P	Scale: SCHEDULE
Approved by: C L	Sketch no.: DC/2016/01/SK/0347
	Revision: B

Plot Date = 9/9/2020

CAD Filename = Q:\Technical\TO\Site Sketch\SK347B.dgn

Establishment Inspection Checklist

Inspection Date: **17 & 26 August 2020** **Inspected By:** **AUES**

Time: **10:00 – 17:00** **Weather Condition:** **Sunny**

Participants: **AECOM (RSS), Ramboll (IEC), AUES (ET) & CKJV (Contractor) Rep.**

1	**Zone: Area along Lung Mun Road and Lung Fu Road**	**N/A or not observed**	**Yes**	**No**	**Remarks / Photo**
1.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
1.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
1.3	Are trees or limb overhanging branches pruned?	☑	☐	☐	
1.4	Are pest and disease observed?	☐	☐	☑	
1.5	Are litter and debris removed?	☐	☑	☐	
1.6	Are plants/ grasses overgrown?	☐	☐	☑	
1.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☐	☑	☐	
1.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
1.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	☐	☑	☐	
		Good	**Fair**	**Poor**	
1.10	Overall health condition of the plants?	☐	☑	☐	

2	**Zone: Area along cycling track near Butterfly Bay Beach and Raised Planter at Abutment Sides of Bridge H1 and G1**	**N/A or not observed**	**Yes**	**No**	**Remarks / Photo**
2.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
2.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
2.3	Are trees or limb overhanging branches pruned?	☐	☐	☑	
2.4	Are pest and disease observed?	☐	☐	☑	
2.5	Are litter and debris removed?	☐	☑	☐	
2.6	Are plants/ grasses overgrown?	☐	☐	☑	
2.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☐	☑	☐	
2.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
2.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	☐	☑	☐	
		Good	**Fair**	**Poor**	

				Establishment	Inspection	Checklist
2.10	Overall health condition of the plants?	☑	☐	☐		

3	Zone: Area on Toll Plaza	N/A or not observed	Yes	No	Remarks / Photo
3.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
3.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
3.3	Are trees or limb overhanging branches pruned?	☑	☐	☐	
3.4	Are pest and disease observed?	☐	☐	☑	
3.5	Are litter and debris removed?	☐	☑	☐	
3.6	Are plants/ grasses overgrown?	☐	☐	☑	
3.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☐	☑	☐	
3.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
3.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	☐	☑	☐	
		Good	**Fair**	**Poor**	
3.10	Overall health condition of the plants?	☑	☐	☐	

4	Zone: Slopes on Toll Plaza near the East and West Portals	N/A or not observed	Yes	No	Remarks / Photo
4.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
4.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
4.3	Are trees or limb overhanging branches pruned?	☑	☐	☐	
4.4	Are pest and disease observed?	☐	☐	☑	
4.5	Are litter and debris removed?	☐	☑	☐	
4.6	Are plants/ grasses overgrown?	☐	☐	☑	
4.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☐	☑	☐	
4.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
4.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	☐	☑	☐	
		Good	**Fair**	**Poor**	
4.10	Overall health condition of the plants?	☐	☑	☐	

5	Zone: Slopes along Lung Mun Road and Lung Fu Road	N/A or not observed	Yes	No	Remarks / Photo
5.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	☐	☑	☐	
5.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	☐	☑	☐	
5.3	Are trees or limb overhanging branches pruned?	☑	☐	☐	
5.4	Are pest and disease observed?	☐	☐	☑	
5.5	Are litter and debris removed?	☐	☑	☐	
5.6	Are plants/ grasses overgrown?	☐	☐	☑	
5.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☐	☑	☐	
5.8	Are planting locations and tree spacing matched with the approved planting plans?	☐	☑	☐	
5.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	☐	☐	☑	Please refer to the attached comment
		Good	**Fair**	**Poor**	
5.10	Overall health condition of the plants?	☐	☑	☐	

6	General Document	N/A or not observed	Yes	No	Remarks / Photo
6.1	Are the records of watering, fertilizing, weeding, pruning and mowing kept for checking?	☐	☑	☐	

Follow up actions for previous Site Audit:

NA

Observations:

Refer to the attachment

Corrective Actions (if any):

1. **Incorrect species of tree should be replaced according to the approved planting plan**
2. **Some missing or poor health condition planting should be replaced ASAP**

General Conclusion:

The establishment planting for the contract is generally in fair and good condition. Regularly watering, fertilizing, weeding, pruning and mowing had been provided by Contractor. Some tree planting species are different from the approved tree planting plan should be rectified.

Inspected by (ET's Representative):	**Ben Tam**	Title:	**Environmental Consultant**
Signature:		Date:	**26 August 2020**
Reviewed by (RSS Landscape Representative):	Candy Lau	Title:	Senior Resident Landscape Architect
Signature:	Candy	Date:	11 September 2020
Contractor's Representative:	Tommy Law	Title:	Environmental Supervision
Signature:		Date:	11 Sep 20
Checked by (IEC's Representative):	Manson Yeung	Title:	IEC
Signature:		Date:	14 Sep 20

Zone 1

Lung Mun Road/Lung Fu Road Roundabout area

One heavy standard *Tabebuia impetiginosa* was missing, Aecom said the tree was fallen and removed, and there will be a replacement.

	
General View	General View
	
General View	Missing *Tabebuia impetiginosa*

Lung Mun Road

Two light standard *Garcinia subelliptica* was missing, Aecom said the tree was dead and removed, and there will be a replacement.

	
General View	General View
	
General View	General View

Zone 2

Lung Mun Road

	
General View	General View
	
General View	General View

Zone 3

Toe planter at Slope TP_A and TP_B

 General View	

Toe planter and toll plaza

Some *Tabebuia chrysantha* were leaning, Aecom said it will be re-staked.

One transplanted *Melaleuca cajuputi* subsp. *Cumingiana* (T2820) was missing, Aecom said the tree was fallen and removed, and there will be a replacement.

 General View	 General View

	
Leaning	Leaning
	
General View	Missing transplant tree

Zone 4

Slope TP A and TP B

One light standard *Sterculia lanceolata* was missing. Aecom said the tree was fallen and removed, and there will be a replacement.

Some trees were in poor health condition and dead and Aecom said there will be a replacement.

Some whips were dead and Aecom said it will be replaced.

 General View	 General View
 General View	 General View

Slope TP_D

Some whips (*Gordonia axillaris*) were dead and missing. Aecom said it will be replaced.

Zone 5

5SE-D/C170

Four light standard *Bauhinia variegata* was missing. Aecom said the trees were fallen and removed and there will be a replacement.

Fifteen *Schima superba* have been changed to *Sterculia lanceolata*, please review the planting plan and schedule.

Some trees were in poor health condition and dead and Aecom said there will be a replacement.

Some whips were dead and missing (*Sapium discolor*), Aecom said it will be replaced.

	
General View	General View
	
The whips were covered by weed	Dead whips

	
Fallen tree	Trees with poor health

TP C

	
General View	General View

5SE-D/C171

	
General View	

5SE-D/C21

 General View	

5SE-D/C215

 General View	 General View

5SE-D/C16

	
General View	General View

5SE-D/C18

	
General View	

Appendix A
Zoning Plan for Contract No. HY/2013/12

Annex A

Zoning Plan

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

East Portal
West Portal
SLOPE TP_A
SLOPE TP_B
SLOPE TP_C
SLOPE TP_D
SLOPE TP_E
VEHICULAR UNDERPASS
RETAINING STRUCTURE TP_G
SEWERAGE CULVERT
RETAINING STRUCTURE RW_A
TOLL PLAZA DECKING TD2
RETAINING STRUCTURE RW_B
TOLL PLAZA DECKING TD1
TOLL CONTROL BUILDING
RETAINING STRUCTURE TP_F
BRIDGE H1
BRIDGE G2
BRIDGE G1
ER's OFFICE
RETAINING STRUCTURE RW_E

826200 N
826000 N
825800 N
825600 N
825400 N
821100 N
820900 N
813200 E
813000 E
812800 E
812600 E

CONTRACT NO. HY/2013/12
TUEN MUN - CHEK LAP KOK LINK
- NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

DF0035

Appendix B
Summary of Compensatory Planting Area for Contract No. HY/2013/12

Contract No. HY/2013/12 (C3) Landscape Area Summary for EP Condition 2.9

Area Code	Location	Plan Area (sq.m.) Approx.	Average Slope Angle	Plane Area (sq.m.) Approx.
N1	Lung Fu Road	1276	0	1276
N2	Lung Mun Road	126	0	126
N3	Lung Mun Road	221	0	221
N4	Lung Mun Road	1416	0	1416
N5	Lung Mun Road - cycle track	578	0	578
N6	Lung Mun Road - cycle track	91	0	91
N7	Lung Mun Road - cycle track	792	0	792
N8	Lung Mun Road	1059	0	1059
N9	Lung Mun Road/ Lung Fu Road	1124	0	1124
N10	Lung Mun Road - under deck	346	0	346
N11	Lung Mun Road	673	0	673
N12	Deck - Parapet Planter	300	0	300
N13	Lung Mun Road - under deck	129	0	129
N14	Lung Mun Road	79	0	79
N15	Lung Mun Road - under deck	487	0	487
N16	Lung Mun Road	794	0	794
N17	Lung Mun Road - cycle track	606	0	606
N18	Lung Mun Road	379	0	379
N19	Lung Mun Road	536	0	536
N20	Near Footbridge	325	0	325
N21	Toe of Slope TP_E	450	0	450
	Toe of Slope TP_E (PDA)	-281	0	-281
N22	Toe of Slope TP_E	151	0	151
N23	Toll Plaza - roadside	36	0	36
N24	Toll Plaza - roadside	820	0	820
N25	Toe of 5SE-D/C116	53	0	53
N26	Toe of Slope TP_A & Slope TP_B	89	0	89
N27	Toe of Slope TP_B	210	0	210
N28	Lung Fu Road	113	0	113
N29	Island near Roundabout	334	0	334
N30	Island near Roundabout	530	0	530
N31	Toe of 5SE-D/C170	1940	0	1940
N32	Lung Fu Road	169	0	169
N33	Roundabout	1018	0	1018
N34	Retaining Structure RW_E	272	0	272
S1	5SE-D/C215	3103	14	3198
S2	5SE-D/C165	471	30	544
S3	5SE-D/C171	799	35	975
S4	5SE-D/C21	483	35	590
S5	5SE-D/C170 (PART 1)	5035	17	5265
S6	5SE-D/C170 (PART 2)	622	28	704
S7	5SE-D/C18	89	30	103
S8	5SE-D/C209 (Slope TP_C)	1655	30	1911
S9	5SE-D/C210 (Slope TP_B)	5424	35	6621
S10	5SE-D/C211 (Slope TP_A)	1874	37	2347
S11	5SE-D/C214 (Slope TP_D)	1867	50	2905
S12	5SE-D/C116	1515	35	1849
S13	5SE-D/C212 (Slope TP_E)	8134	60	16268
	5SE-D/C212 (Slope TP_E) (PDA)	-4132	60	-8264
S14	5SE-D/C16 (Non-PDA)	1150	32	1356
Sub-Total				53613

ABBREVIATIONS

PDA Potential Development Area (not counted towards landscape area for EP Condition 2.9)

SLOPE TOE PLANTER UNDER TM-CLKL CONTRACT 4 37m² (C4)
SLOPE TOE PLANTER 53m² N25
SLOPE TP_D
VEHICULAR UNDERPASS
SLOPE TP_A
SLOPE TOE PLANTER
210m² N27
N28
113m²
134m² N29
SLOPE TP_B
89m² N26
SLOPE TP_E
AT-GRADE PLANTER UNDER TM-CLKL CONTRACT 4
TOLL CONTROL BUILDING
SLOPE TOE PLANTER
151m² N22
360m² N23
625m² N24
SLOPE TP_C
N30 530m²
N31 940m²
101m² N33
N32 69m²
LUNG FU ROAD 龍富路
LUNG MUN ROAD 龍門路
N1 1276m²
126m² N2
221m² N3
RETAINING STRUCTURE TP_G
蝴蝶灣泳灘
BUTTERFLY BEACH
416m² N4
578m² N5
91m² N6
792m² N7
1059m² N8
1124m² N9
RETAINING STRUCTURE RW_A
TOLL PLAZA DECKING TD2
RETAINING STRUCTURE RW_B
TOLL PLAZA DECKING TD1
TOLL PLAZA DECKING PARAPET PLANTER 390m² N12
N21 450m²
N20 375m²
RETAINING STRUCTURE TP_F
1628m²
346m² (UNDER DECK) + 673m² (OPEN) N10 N11
89m²
123m² (UNDER DECK) + 79m² (OPEN) N15 N13 N14
487m² (UNDER DECK) + 794m² (OPEN) N16
506m² N17
TOLL PLAZA FOOTBRIDGE 102m²
MONG FAT STREET 旺發街
BRIDGE G2
N19 535m²
478m²
522m²
LUNG MUN ROAD 龍門路
379m² N18
HO YEUNG STREET 浩洋街
BRIDGE H1
香港內河碼頭 River Trade Terminal
望后石污水處理廠
Pillar Point Sewage Treatment Works
BRIDGE G1
珠江貨倉
N34 272m²
RETAINING STRUCTURE RW_E

LEGEND:

SITE BOUNDARY

LANDSCAPE AREA (NON-SLOPE)

APPROVED AND CONFIRMED BY
TITLE
AECOM_C3 (RLS)
NAME
SAMMY TSOI
SIGNATURE

FOR INFORMATION

REV.	DATE	DESCRIPTION	CHK.	PREP.	DRAWN
-	SEP. 20	FOR INFORMATION	CL	CHT	JL

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

PROJECT NO.	CONTRACT NO.
60240249	HY/2013/12
SCALE: A3 N.T.S	DATE: 09 SEP 2020

AMENDMENT TO WORKING DRAWING NO.
60240249/C3/DF2210

CHECKED	PREPARED	DRAWN
CL	CHT	JL/TMC

TITLE
LANDSCAPE AREA (NON-SLOPE)

SKETCH NO.
IR-1736A

Plot File by: rssoe1 9/9/2020 9:50:02 AM
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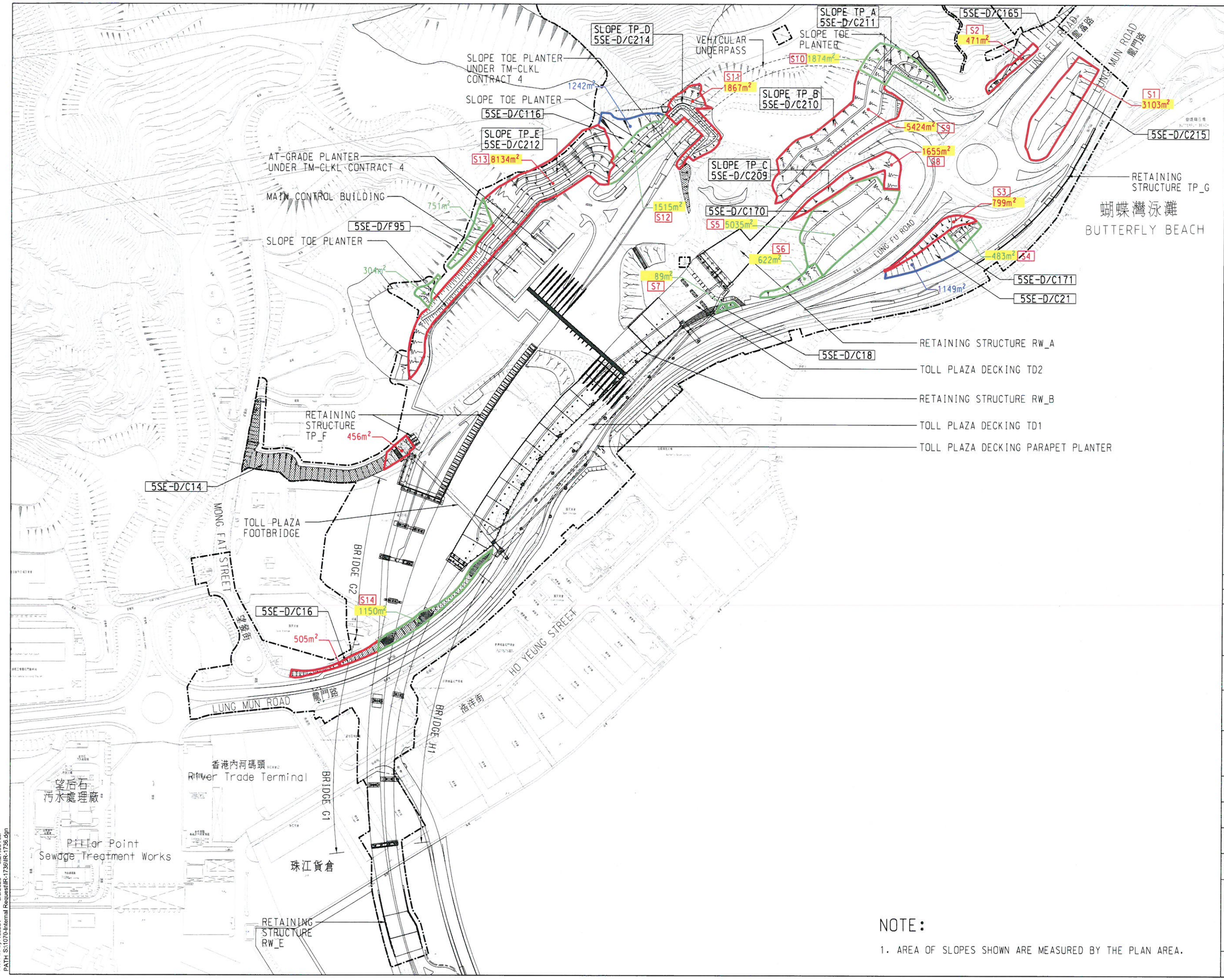

NOTE:

1. AREA OF SLOPES SHOWN ARE MEASURED BY THE PLAN AREA.

APPROVED AND CONFIRMED BY
TITLE
AECOM_C3 (RLS)
NAME
SAMMY TSOI
SIGNATURE

FOR INFORMATION

REV.	DATE	DESCRIPTION	CHK.	PREP.	DRAWN
-	SEP. 20	FOR INFORMATION	CL	CHT	JL

CLIENT
路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

AECOM Imagine it. Delivered.

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

PROJECT NO.	CONTRACT NO.
60240249	HY/2013/12
SCALE: A3 N.T.S	DATE: 09 SEP 2020

AMENDMENT TO WORKING DRAWING NO.
60240249/C3/DF2208

CHECKED	PREPARED	DRAWN
CL	CHT	JL/TMC

TITLE
LANDSCAPE AREA (SLOPE)

SKETCH NO.
IR-1736

Plot File by: rssce1 9/9/2020 9:27:30 AM
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Appendix C
Approved Planting Schedule for Contract No. HY/2013/12

Slope Planting

CODE	BOTANCIAL 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
GOR.AXI.	*Gordonia axillaris* *	大頭茶	WHIP	1000
LIT.GLU.	*Litsea glutinosa* *	潺槁樹	WHIP	1000
MAL.PAN.	*Mallotus paniculatus* *	白楸	WHIP	1000
PHY.EMB.	*Phyllanthus emblica* *	餘甘子	WHIP	1000
SAP.DIS.	*Sapium discolor* *	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.(H)	*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* *	假蘋婆	LIGHT STANDARD	3000
STE.LAN.	*Sterculia lanceolata* *	假蘋婆	HEAVY STANDARD	4500-5000
VIB.ODO.	*Viburnum odoratissimum* *	珊瑚樹	LIGHT STANDARD	3000
SHRUB				
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)	500
MEL.SAN.	*Melastoma sanguineum* *	毛蕊	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.	*Schefflera arboricola*	八葉木	300(H) X 300(S)	500
SCH.VAR.	*Schefflera arboricola 'variegata'*	花葉八葉木	300(H) X 300(S)	500
GROUNDCOVER				
NEP.AUR.	*Nephrolepis auriculata* *	腎蕨	300(H) X 300(S)	100-300
NEP.HIR.	*Nephrolepis hirsutula* *	毛葉腎蕨	300(H) X 300(S)	100-300
CLIMBER				
BAU.COR.	*Bauhinia corymbosa*	首冠藤	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300-1000
BOU.SPE.	*Bougainvillea spectabilis*	簕杜鵑	MIN. 5 SHOOTS PER PLANT, 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*	蟛蜞菊	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300

Roadside Planting

CODE	BOTANCIAL 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*	福木	LIGHT STANDARD	3000
MEL.CUM.	*Melaleuca cajuputi subsp. cumingiana*	白千層	HEAVY STANDARD	4000
STE.LAN.	*Sterculia lanceolata* *	假蘋婆	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 'goldern'*	金連翹	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.	*Ixora 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'*	花葉八葉木	300(H) X 300(S)	300
GROUNDCOVER				
ASP.DEN.	*Asparagus densiflorus 'myersii'*	狐尾天冬	300(H) X 300(S)	250
ARA.DUR.	*Arachis duranensis*	金花生	100(H) X 200(S)	200
ASP.SPR.	*Asparagus densiflorus 'sprengeri'*	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(紫花)	200(H) X 200(S)	200
NEP.AUR.	*Nephrolepis auriculata* *	腎蕨	300(H) X 300(S)	150-250
OPH.JAP.	*Ophiopogon japonicus* *	沿階草	200(H) X 200(S)	200

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. GRASS SEED AS CEDD GENERAL SPECIFICATION 3.26(3).
4. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.

Status: Planting Schedule is a consolidated list of plant species based on the planting plans as commented/ approved by the relevant Government departments, i.e. LCSD or HyD/ Landscape Division.

Appendix D
Summary of tree Quantity for Contract No. HY/2013/12

Summary of tree Quantity for Contract No. HY/2013/12

Trees				Planting Plan Information						1st Quarter Site Checking						
				Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Total quantity to be planted as required in contract	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Total quantity observed on site	Remarks
CODE	BOTANCIAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)													
Whip Tree																
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	WHIP	-	-	-	-	52	52	-	-	-	-	52	52	
BRI.TOM.	Bridelia tomentosa	土密樹	WHIP	-	-	-	68	25	93	-	-	-	68	25	93	
GOR.AXI	Gordonia axillaris	大頭茶	WHIP	-	-	-	88	52	140	-	-	-	68	52	120	20 missing
LIT.GLU.	Litsea glutinosa	潺槁樹	WHIP	-	-	-	-	38	38	-	-	-	-	38	38	
MAL.PAN.	Mallotus paniculatus	白楸	WHIP	-	-	-	-	38	38	-	-	-	-	38	38	
PHY.EMB.	Phyllanthus emblica	餘甘子	WHIP	-	-	-	-	38	38	-	-	-	-	38	38	
SAP.DIS.	Sapium discolor	山烏桕	WHIP	-	-	-	-	12	12	-	-	-	-	5	5	7 missing
Tree (Light Standard, Heavy Standard)																
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD	-	-	-	34	191	225	-	-	-	34	187	221	4 missing
BOM.CEI.(L)	Bombax ceiba	木棉	LIGHT STANDARD	-	-	-	-	32	32	-	-	-	-	32	32	
BRI.TOM.	Bridelia tomentosa	土密樹	LIGHT STANDARD	-	-	-	15	66	81	-	-	-	15	66	81	
CIN.BUR.	Cinnamomum burmannii	陰香	LIGHT STANDARD	-	-	-	-	51	51	-	-	-	-	51	51	
GAR.SUB	Garcinia subelliptica	福木	LIGHT STANDARD	16	4	10	-	-	30	14	4	10	-	-	28	2 missing in zone 1
LIQ.FOR.	Liquidambar formosana	楓香	LIGHT STANDARD	-	-	-	-	32	32	-	-	-	-	32	32	
LIT.GLU.(L)	Litsea glutinosa	潺槁木	LIGHT STANDARD	-	-	-	19	-	19	-	-	-	19	-	19	
MAC.CHE.	Machilus chekiangensis	浙江潤楠	LIGHT STANDARD	-	-	-	17	44	61	-	-	-	17	44	61	
REE.THY.	Reevesia thyrsoidea	梭羅樹	LIGHT STANDARD	-	-	-	7	29	36	-	-	-	7	29	36	
SCH.SUP.	Schima superba	木荷（荷樹）	LIGHT STANDARD	-	-	-	-	32	32	-	-	-	-	17	17	15 missing
STE.LAN.	Sterculia lanceolata	假蘋婆	LIGHT STANDARD	-	-	-	6	47	53	-	-	-	5	62	67	1 missing in zone 4 and 15 additional in zone 5
VIB.ODO.	Viburnum odoratissimum	珊瑚樹	LIGHT STANDARD	-	-	-	16	58	74	-	-	-	16	58	74	
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	-	-	-	-	41	41	-	-	-	-	41	41	
BOM.CEI.(L)	Bombax ceiba	木棉	HEAVY STANDARD	-	-	-	-	16	16	-	-	-	-	16	16	
BRA. ACE	Brachychiton acerifolius	槭葉蘋婆	HEAVY STANDARD	-	-	18	-	-	18	-	-	18	-	-	18	
CIN.BUR.	Cinnamomum burmannii	陰香	HEAVY STANDARD	-	-	-	-	23	23	-	-	-	-	23	23	
STE.LAN.	Sterculia lanceolata	假蘋婆	HEAVY STANDARD	-	-	3	-	10	13	-	-	3	-	10	13	
DEL.REG	Delonix regia	鳳凰木	HEAVY STANDARD	1	-	-	-	-	1	1	-	-	-	-	1	
MEL.CUM	Melaleuca cajuputi Subsp. cumingiana	白千層	HEAVY STANDARD	35	16	-	-	-	51	35	16	-	-	-	51	
TAB.CHR	Tabebuia chrysantha	黃花風鈴木	HEAVY STANDARD	-	-	4	-	-	4	-	-	4	-	-	4	
TAB.IMP	Tabebuia impetiginosa	風鈴木	HEAVY STANDARD	66	-	3	-	-	69	65	-	3	-	-	68	1 missing in zone 1
TER.MAN	Terminalia mantaly	小葉欖仁	HEAVY STANDARD	-	8	-	-	-	8	-	8	-	-	-	8	
Palm																
ARC.ALE	Archontophoenix alexandrae	假檳榔	3500(H) x 1500(S)	-	58	-	-	-	58	-	58	-	-	-	58	
LIV.CHI	Livistona chinensis	蒲葵	2000(H) x 1500(S)	24	-	-	-	-	24	24	-	-	-	-	24	
PHO.ROE	Phoenix roebelenii	日本葵	2000(H) x 1500(S)	50	-	4	-	-	54	50	-	4	-	-	54	
WOD.BIF	Wodyetia bifurcata	狐尾椰子	2500(H) x 1500(S)	-	-	26	-	-	26	-	-	26	-	-	26	
				192	86	68	270	927	1543	189	86	68	249	916	1508	