

13 May 2021

By Post and Fax (2566 2192)

China State Construction Engineering (Hong Kong) Ltd.  
29/F, China Overseas Building  
139 Hennessy Road  
Hong Kong

Attention: Mr. Chris Leung

Dear Sir,

**Re: Contract No. HY/2009/15  
Central – Wan Chai Bypass – Tunnel (Causeway Bay Typhoon Shelter  
Section)  
Landscape Plan (Rev. 7)**

Reference is made to your submission of the Landscape Plan (Revision 7) dated 13 May 2021 received through email on 13 May 2021 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.10 of FEP-06/364/2009/A.

Thank you very much for your kind attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully,



David Yeung  
Independent Environmental Checker

c.c.	HyD	Mr. Enoch Wong	by fax: 2714 5289
	AECOM	Mr. David Kwan	by fax: 2142 5577
	Lam	Mr. Raymond Dai	by fax: 2882 3331



# Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

華益土力有限公司

Ref : G1938/CS/L318/CSHK  
Date : 13 May 2021

**China State Construction Engineering (Hong Kong) Ltd**  
29/F, China Overseas Building,  
129 Hennessy Road  
Hong Kong

**By Post & Fax: 2566 2192**

**Attn: Mr. Chris Leung**

Dear Mr. Leung,

**Contract No. HY/2019/18**  
**Wanchai Development Phase II and Central-Wanchai Bypass**  
**Sampling, Field Measurement and Testing Works (Stage 4)**

**Landscape Plan (Revision 7) under FEP-06/364/2009/A for Contract No. HY/2009/15**

Referring to the captioned submission dated on 13 May 2021 received through email on 13 May 2021, we have reviewed your submitted details and hereby certify the submission in accordance with condition 2.10 of FEP- 06/364/2009/A.

Yours faithfully,  
For and On Behalf of Lam Geotechnics Limited

Raymond Dai  
Environmental Team Leader

c.c. AECOM CWB  
Ramboll

- Mr. David Kwan  
- Mr. David Yeung

By fax: 3912-3010  
By fax: 3465-2899





**CONTRACT HY/2009/15**

**CENTRAL – WAN CHAI BYPASS  
TUNNEL (CAUSEWAY BAY TYPHOON SHELTER SECTION)**

# **Landscape Plan**

**Submission Status: For Approval**

<b>Revision</b>	<b>Description</b>	<b>Date</b>
0	1 <sup>st</sup> Submission	19 October 2011
1	2 <sup>nd</sup> Submission	13 August 2013
2	3 <sup>rd</sup> Submission	9 May 2014
3	4 <sup>th</sup> Submission	20 January 2015
4	5 <sup>th</sup> Submission	14 August 2018
5	6 <sup>th</sup> Submission	12 November 2020
6	7 <sup>th</sup> Submission	9 February 2021
7	8 <sup>th</sup> Submission	13 May 2021

Prepared by: Senior Environmental Officer	Gabriel Wong	13 May 2021
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## Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages				Relevant Legislation and Guidelines	Implementation Status	Cross - Reference to Landscape Plan
				Des	C	O	Dec			
<b>Construction Phase</b>										
<b>For the Whole Project</b>										
Table 10.5 (AEIAR-125/2008)	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	CEDD/HyD's Contractor	✓	✓			EIAO TM	Implemented	Section 5
Table 10.5 (AEIAR-125/2008)	CM2 Existing trees to be retained on site shall be carefully protected during construction (Site Tree Survey Report, Tree Preservation and Protection Plan, and Method Statement for Tree Transplanting Works have been submitted to the Engineer's Representatives for approval).	Work site / During Construction Phase	CEDD/HyD's Contractor	✓	✓			EIAO TM	Implemented	Section 7
Table 10.5 (AEIAR-125/2008)	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	CEDD/HyD's Contractor	✓	✓			EIAO TM	Implemented	Section 8
Table 10.5 (AEIAR-125/2008)	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	CEDD/HyD's Contractor	✓	✓			EIAO TM	Implemented	Section 10
Table 10.5 (AEIAR-125/2008)	CM5 Control of night-time lighting.	Work site / During Construction Phase	CEDD/HyD's Contractor		✓			EIAO TM	Implemented	Section 11



Table 10.5 (AEIAR-125/2008)	CM6 Erection of decorative screen hoarding compatible with the surrounding setting (Please refer to Appendix C).	Work site / During Construction Phase	CEDD/HyD's Contractor		✓			EIAO TM	Implemented	Section 12
Table 7.5 (AEIAR-041/2001)	Screen tree planting for Police Officers' Club (within Project boundary)	Adjacent to POC carpark	CEDD/HyD's Contractor		✓			WBTC 18/94	Implemented	Section 7



<b><u>PlanD's observation / comment via email dated 21 April 2021</u></b>	<b><u>Responses</u></b>
Central-Wan Chai Bypass –Tunnel (Causeway Bay Typhoon Shelter Section) <u>EP Condition 2.10: Landscape Plan (Rev.6)</u>	
i) You are required to include a set of latest record of all preserved tree within the project boundary of this FEP	Added in Appendix M



Revision	Summary of Revision	Submission	
		By	Date
0	Initial Revision	AY	19/10/2011
1	Appendix H	DS	13/8/2013
2	Section 2 – Master Green Plan Section 7 – Protection of existing Trees Section 8 – Transplantation of Existing Trees Section 9 – Felling of Existing Trees Section 10 – Trees Compensation	AM	9/5/2014
3	Section 8 – Transplantation of Existing Trees Section 9 – Felling of Existing Trees Section 10 – Trees Compensation Appendix H Appendix I	AM	20/1/2015
4	Section 8 – Transplantation of Existing Trees Section 10 – Trees Compensation Section 14 – Establishment Landscape Monitoring Appendix D Appendix F Appendix H Appendix I	DH	14/8/2018
5	Section 8 Section 13 Section 14 Appendix E Appendix I Appendix H Implementation schedule	GW	12/8/2020
6	Appendix L	GW	9/2/2021
7	Appendix M	GW	22/4/2021



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## APPENDICES

Appendix A	Site Layout Plan
Appendix B	Location Plan of Visual Sensitive Receivers
Appendix C	Design and Location Plan of Decorative Screen Hoarding
Appendix D	Location Plan of Retaining Tree and Existing Tree for transplanting
Appendix E	Tree Schedule for Retained Trees
Appendix F	Tree Schedule for Transplanted Trees and Transplanted Trees in Holding Nursery - Report of Dead Trees T1905, T1906, T1907 and T1909
Appendix G	Report of Tree Preservation and Protection Plan with photos of retained trees
Appendix H	Transplanted Trees Inspection Record with photos of transplanted trees
Appendix I	Permanent Location of compensatory trees
Appendix J	Tree Survey Report (Review of Existing Trees Proposed to be Felled at Portion 4 and 22)
Appendix K	Handover Record
Appendix L	Letter detailing HY/2009/15 Site Office Handing Over to HY/2010/08
Appendix M	Report of Tree Preservation with photos of retained trees conducted in Jan 2021



## **1. Introduction**

The purpose of this plan is to demonstrate design details, locations, implementation programme, maintenance and management schedules in accordance with contract requirement, Condition 2.14 of Environmental Permit No. EP-364/2009/H and Condition 2.10 of Further Environmental Permit No. FEP-06/364/2009/A.

## **2. Master Greening Plan**

The Master Greening Plan will not form part of the scope of this project. The final planting works will be carried out by another main contractor.

## **3. Identified Visual Sensitive Receivers**

The following visual sensitive receivers (VSRs) are likely to be affected during the construction phase of this project:

- C/R4 (Elizabeth House);
- C/R5 (Riviera Mansion);
- C/R6 (Prospect Mansion);
- C/R7 (Miami Mansion);
- C/R8 (Marco Polo Mansion);
- C/R9 (Victoria Park Mansion);
- C/R18 (Belle House);
- C32 (Excelsior Hotel);
- C36 (Citicorp Centre); and
- C37 (Victoria Centre).

The above VSRs are mapped in Appendix B.

## **4. Landscape Mitigation Measures**

The CEDD/HyD's Contractor shall be responsible for implementing a series of construction phase Landscape and visual mitigation measures. All mitigation measures stated in this plan are in compliance with relevant requirements in both CWB&IECL EIA Report (Register No. AEIAR-041/2001) and the WDII&CWB EIA Report (Register No. AEIAR-125/2008). While the operational phase mitigation measures as mentioned in EIA Reports should be carried out by other contractor(s) under separate contract(s).

The proposed landscape mitigation measures during construction phase for HY/2009/15, but not limited to, are listed as below:



## Implementation Schedule for Landscape and Visual Impact Mitigation (Specific in CWB)

**Table 1**

EIA Report Ref.	Environmental Protection Measures/ Mitigation Measures	Location /Timing	Implementation Agency	Relevant Legislation and Guidelines	Referring Section in this Plan
Table 10.5 (AEIAR-125/2008)	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	CEDD/HyD's Contractor	EIAO TM	Section 5
Table 10.5 (AEIAR-125/2008)	CM2 Existing trees to be retained on site shall be carefully protected during construction (Site Tree Survey Report, Tree Preservation and Protection Plan, and Method Statement for Tree Transplanting Works have been submitted to the Engineer's Representatives for approval).	Work site / During Construction Phase	CEDD/HyD's Contractor	EIAO TM	Section 7
Table 10.5 (AEIAR-125/2008)	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	CEDD/HyD's Contractor	EIAO TM	Section 8
Table 10.5 (AEIAR-125/2008)	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	CEDD/HyD's Contractor	EIAO TM	Section 10
Table 10.5 (AEIAR-125/2008)	CM5 Control of night-time lighting.	Work site / During Construction Phase	CEDD/HyD's Contractor	EIAO TM	Section 11
Table 10.5 (AEIAR-125/2008)	CM6 Erection of decorative screen hoarding compatible with the surrounding setting (Please refer to Appendix C).	Work site / During Construction Phase	CEDD/HyD's Contractor	EIAO TM	Section 12
Table 7.5 (AEIAR-041/2001)	Screen tree planting for Police Officers' Club (within Project boundary)	Adjacent to POC carpark	CEDD/HyD's Contractor	WBTC 18/94	Section 7

## **5. Topsoil**

Stripped topsoil will be re-used in the construction of the soft landscape works where practical. For the topsoil which comprises reclamation fill material and is not desirable from a horticultural maintenance point of view, approved new soil-mix will be specified for new planting areas.

## **6. Tree Preservation and Protection Measures**

There are a number of measures are adopted to protect trees and the details are described below.

### **i. Label all trees with tree numbers**

The preserved trees have been clearly labeled with tree reference numbers.

### **ii. Temporary protection fencing**

Temporary protection fencing of 1.2m height should be erected around tree protection zone to protect the preserved trees from construction damage.

### **iii. Regular monitoring of trees**

Trees shall be inspected regularly to check the health of the tree. Any sign of deterioration shall be notified to the Engineer's Representatives and remedial action shall be adopted.

### **iv. Insect and disease control**

Preserved tree shall be checked for insect attraction or fungal infestation. Dead or infected or infested branches should be pruned if necessary to prevent falling down.

Any infection and infestation shall be reported to Engineer's Representatives. Remedial eradication by use of sprayed insecticide or fungicide shall be carried out.

### **v. Watering**

Fresh water shall be used for watering and all planted areas shall be watered. Watering shall be carried out in early morning and later afternoon so as to keep the soil moist around the roots and plants.

Watering operation shall be completed within 24 hours of an inspection which deems watering to be necessary.

**vi. Pruning of tree branches**

If any branches of preserved trees interferes with construction works or is in poor condition which may affect public safety and health of the tree and thus pruning is required, the Engineer's approval should be obtained prior to carrying out pruning works. The pruning works shall be carried out in compliance with G.S. Clause 3.86.

( i to vi - apply to retained trees at CBTS and Police Officer's Club;  
i to ii - apply to retained trees at Siu Ho Wan)

**7. Protection of Existing Trees**

The existing trees recommended to be retained shall be protected by means of fencing to prevent vehicular, construction machines or pedestrian intrusion which may potentially damage tree canopies, trunks and root zones. Site tree survey report, and tree preservation and protection plan have been approved by Engineer's Representatives. Appendix D shows the location of trees namely T009, T010, T011, T012 and T013 are being retained and protected by HY/2009/15 in Siu Ho Wan, Lantau Island. While the trees being retained near Police Office's Club and at Portion 7 of the project area are also indicated. A tree schedule summarizes the details of retained trees is shown in Appendix E. A bi-monthly report of the Tree Preservation and Protection Plan with photos of retained trees is included in Appendix G. Referred to the follow-up discussion with Planning Department (PlanD), it has been clarified that the future progress photos of the retained trees would be forwarded to PlanD on bi-monthly basis by the contractor via regular submission for the tree reports.

**8. Transplantation of Existing Trees**

A total of 13 nos. trees were originally required to be transplanted at the commencement of the Contract. However, the trees T1905 and T1909 were found dead in November 2010(T1905) and in January 2011(T1909) respectively before any works had been carried out in the initial stage of the project. As agreed with the Engineer's Representative, CSHK has compensated for the dead trees T1905

and T1909. A total of 13 nos. trees were transplanted to the temporary holding nursery in Tai Po Lam Tsuen on 11 May 2011.

During the holding period, two trees T1906 and T1907 were confirmed dead in November 2011 at the temporary hold nursery. As agreed with the Engineer's Representative, CSHK has compensated for the dead trees T1906 and T1907. On 16 January 2013, the temporary holding nursery was moved from Lam Tsuen to Lau Fau Shan .

Appendix F presents the tree schedule for all transplanted trees. A Transplanted Trees Inspection Record with photos of transplanted trees is included in Appendix H. Referred to the follow-up discussion with PlanD, it has been clarified that the future progress photos of the transplanted trees would be forwarded to PlanD on bi-monthly basis by the contractor via regular submission for the tree reports. The transplanted trees temporarily stored at holding nursery will be handed over to Central Interchange by contract HY/2009/18. The final permanent locations of the transplanted trees will be determined by contract HY/2009/18. The corresponding planting plans are included in the landscape plan under contract HY/2009/18. Referring to the planting plans under contract HY/2009/18, all the transplanted trees under contract HY/2009/15, thirteen in total (including tree numbers T1900, T1902, T1903, T1904, T1905, T1906, T1907, T1908, T1909, T1910, T1911, T1912 and T2015), had been handed over to contract HY/2009/18 by the end of August 2016. The location plan of all transplant trees in holding nursery has been supplemented in Appendix F

## **9. Felling of Existing Trees**

In case of EIA specifically identified trees required to be felled during the construction phase, proposal and compensation scheme will be submitted to relevant government department(s) for approval and implemented accordingly upon receipt of approval. T1905, T1906, T1907 and T1909 are not EIA identified trees, the compensation of the felled trees would be handled according to the Contract and DEVB TC(W)No. 4/2020. T1905, T1906, T1907 and T1909 were observed decay in wound. As agreed with the Engineer's Representative, CSHK has compensated for the tree T1905, T1906 , T1907 and

T1909.

## 10. Trees Compensation

According to the Contract, compensatory trees for any dead tree shall be provided, and the provision of compensatory trees would be tentatively completed before end of contract. Compensatory planting shall be provided in accordance with the requirements of DEVB TC(W)No. 4/2020. This being of a ratio not less than 1:1 in terms of the total numbers of aggregated girth size of compensatory trees and shall not be less than that of dead trees. The size of compensatory trees should be at least of “heavy standard”. (Please refer to Table 2 for details.) Compensatory trees will be planted in our holding nursery and had been handed over to Central Interchange by contract HY/2009/18 by the end of August 2016. Please refer to Appendix I for the permanent location.

**Table 2**

Tree No.	Botanical Name	Chinese Name	Size	Quantity
T1905	<i>Macaranga tanarius</i>	血桐	325 mm=< DBH=<650mm	1
T1906	<i>Celtis sinensis</i>	朴樹	375 mm=< DBH=<750mm	1
T1907	<i>Ficus variegata</i>	青果榕	185 mm=< DBH=<370mm	1
T1909	<i>Bombax ceiba</i>	木棉	165mm=< DBH=<330mm	1

The aforementioned trees were compensated and have been handed over to contract HY/2009/18 holding nursery.

The details of compensated trees are listed below:

**Table 3**

Tree No.	Botanical Name	Chinese Name	Size (DBH)	Quantity	Transplant date
T1905	<i>Macaranga tanarius</i>	血桐	330mm	1	24 Aug 16
T1906	<i>Celtis sinensis</i>	朴樹	380mm	1	25 Jan 16
T1907	<i>Ficus variegata</i>	青果榕	190mm	1	25 Jan 16
T1909	<i>Bombax ceiba</i>	木棉	170mm	1	7 Jun 16

## **11. Control of Night-time Lighting**

Sources of night-time lighting impacts during construction phase would include:

- Night-time terrestrial works;
- Construction site traffic;
- Lighting devices at site offices;

The following measures, but not limited to, would be implemented where practical to minimize impact:

- a. Carefully planning of any night-time work would be adopted to minimize the use of unnatural lighting;
- b. The need of using lighting devices would be carefully assessed based on work task to minimize usage;
- c. Where lighting devices are needed to be operated, the devices would be aimed away from the visual sensitive receivers where necessary.
- d. Site office lighting will be oriented away from VSRs.

The lighting impact will be monitored and assessed by designated person during night-time construction work. Upon any public concerns or complaints, the lights will be repositioned or shielded where necessary.

## **12. Erection of Decorative Screen Hoarding Compatible with the Surrounding Setting**

Decorative screen hoarding not less than 2.4m high from ground level shall be supplied, erected and maintained in good condition, and to be removed upon completion of the works. The design of hoarding is compatible with the surround setting and has been approved by the Engineer. The design and location plan can be found in attached Appendix C.

## **13. Screening of Tree Planting at POC**

Existing trees adjacent to the Police Officer's Club car park boundary (within site boundary) are retained to act as screen planting to mitigate source of landscape impact from the construction of tunnel portal.



#### **14. Establishment Landscape Monitoring**

All transplanted trees under contract HY/2009/15, thirteen in total (namely tree numbers T1900, T1902, T1903, T1904, T1905, T1906, T1907, T1908, T1909, T1910, T1911, T1912 and T2015) had been handed over to contract HY/2009/18 by end of August 2016.

No permanent landscape works to be undertaken by contract HY/2009/15.

All retained tree under contract HY/2009/15, 11 nos. of retained trees under HY/2009/15 (namely tree numbers T009, T010, T011, T012, T013, T1920, T1921, T1922, T1923, T1924, T1925) had been handed over to contract HY/2010/08 by July 2017. Contract HY/2010/08 would be responsible for the maintenance and protection of above-mentioned retained trees as agreed with the Engineer's Representative.

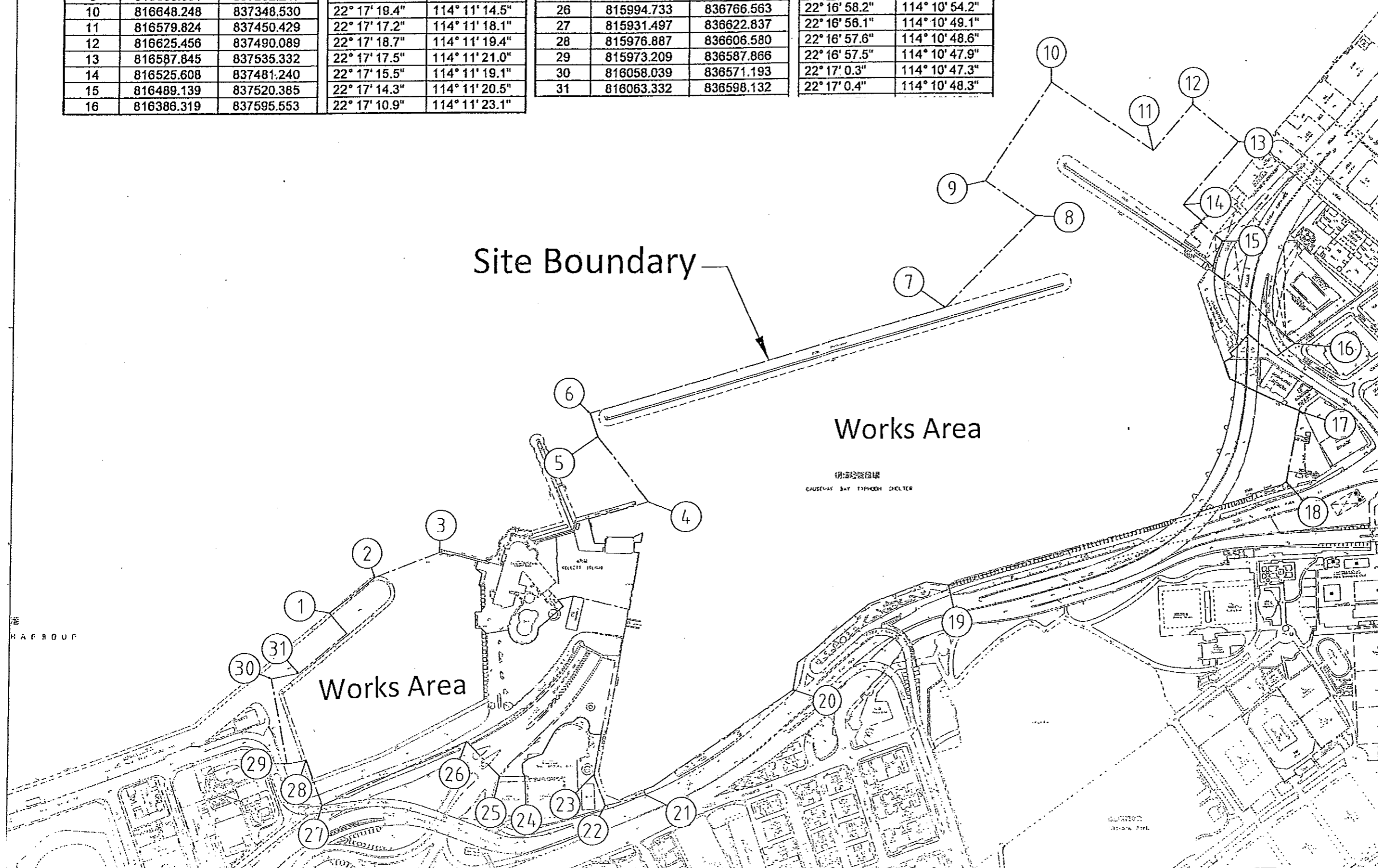
All retained tree under contract HY/2009/15, 2 nos. of retained trees under contract HY/2009/15, two in total (namely tree numbers T2013 and T2014) has been handed over to MTRC by July 2017.

No permanent landscape works to be undertaken by contract HY/2009/15.

**Appendix A**  
**Site Location Plan**

Point	HK 1980 Grid Coordinate		WGS 84 (Deg°MM'SS.S")	
	Northing(m)	Easting(m)	Latitude(N)	Longitude(E)
1	816123.163	836627.778	22° 17' 2.4"	114° 10' 49.3"
2	816158.294	836672.793	22° 17' 3.5"	114° 10' 50.9"
3	816183.090	836737.200	22° 17' 4.3"	114° 10' 53.1"
4	816233.339	836944.955	22° 17' 6.0"	114° 11' 0.4"
5	816297.883	836893.247	22° 17' 8.1"	114° 10' 58.6"
6	816321.616	836885.404	22° 17' 8.8"	114° 10' 58.3"
7	816424.234	837243.006	22° 17' 12.2"	114° 11' 10.8"
8	816515.377	837333.839	22° 17' 15.1"	114° 11' 14.0"
9	816550.091	837282.247	22° 17' 16.3"	114° 11' 12.2"
10	816648.248	837348.530	22° 17' 19.4"	114° 11' 14.5"
11	816579.824	837450.429	22° 17' 17.2"	114° 11' 18.1"
12	816625.456	837490.089	22° 17' 18.7"	114° 11' 19.4"
13	816587.845	837535.332	22° 17' 17.5"	114° 11' 21.0"
14	816525.608	837481.240	22° 17' 15.5"	114° 11' 19.1"
15	816489.139	837520.385	22° 17' 14.3"	114° 11' 20.5"
16	816386.319	837595.553	22° 17' 10.9"	114° 11' 23.1"

Point	HK 1980 Grid Coordinate		WGS 84 (Deg°MM'SS.S")	
	Northing(m)	Easting(m)	Latitude(N)	Longitude(E)
17	816318.982	837600.533	22° 17' 8.7"	114° 11' 23.3"
18	816248.756	837588.973	22° 17' 6.5"	114° 11' 22.9"
19	816147.576	837248.874	22° 17' 3.2"	114° 11' 11.0"
20	816044.312	837091.645	22° 16' 59.8"	114° 11' 5.5"
21	815941.724	836945.745	22° 16' 56.5"	114° 11' 0.4"
22	815931.125	836905.152	22° 16' 56.1"	114° 10' 59.0"
23	815961.289	836893.217	22° 16' 57.1"	114° 10' 58.8"
24	815960.075	836824.609	22° 16' 57.1"	114° 10' 56.2"
25	815959.749	836799.530	22° 16' 57.1"	114° 10' 55.3"
26	815994.733	836766.563	22° 16' 58.2"	114° 10' 54.2"
27	815931.497	836622.837	22° 16' 56.1"	114° 10' 49.1"
28	815976.887	836606.580	22° 16' 57.6"	114° 10' 48.6"
29	815973.209	836587.866	22° 16' 57.5"	114° 10' 47.9"
30	816058.039	836571.193	22° 17' 0.3"	114° 10' 47.3"
31	816063.332	836598.132	22° 17' 0.4"	114° 10' 48.3"



路政署  
 HIGHWAYS DEPARTMENT  
 主要工程管理處  
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS  
 AND IEC LINK

TITLE  
 General Layout Plan

AECOM  
 AECOM Asia Co. Ltd.  
 (Formerly known as Mounsell Consultants Asia Ltd.)

中國建築工程(香港)有限公司  
 CHINA STATE CONSTRUCTION ENG'G. (HONG KONG) LTD.

DRG. NO. 圖紙編號	CWB/MN/SK-001	
CONTRACT NO. 合約編號	HY/2009/15	DATE OF ISSUE 發出日期
		21-09-2010
CHECKED BY 校核	KYCHAN	DRAWN BY 繪圖
		KCCHUNG
SCALE 比例	1:4000	STATUS 階段
DIMENSIONS ARE IN 單位尺寸	METRES	PAPER SIZE 圖紙尺寸
		A3

**Appendix B**  
**Location Plan of Visual Sensitive**  
**Receivers**

**KEY FOR VISUAL SENSITIVE RECEIVERS**

- C1 International Finance Centre
- C2 Hong Kong Station Development Phase 2
- C3 Exchange Square
- C4 Jardine House
- C5 Mandarin Hotel
- C6 Hong Kong Club
- C7 Ritz Carlton Hotel
- C8 AIA Tower
- C9 Hutchison House
- C10 Bank of America Tower
- C11 Far East Financial Centre
- C12 Admiralty Centre
- C13 United Centre
- C14 CITIC Tower
- C15 Fleet Arcade
- C16 Asian House
- C17 Chung Nam Building
- C18 Fleet House, Harcourt House
- C19 Telecom House, Hong Kong Arts Centre, Harbour View International House
- C20 Shui On Centre
- C21 Central Plaza
- C22 Grand Hyatt Hotel
- C23 Renaissance Harbour View Hotel
- C24 Hong Kong Convention and Exhibition Centre
- C25 Great Eagle Centre
- C26 Harbour Centre
- C27 China Resources Building
- C28 Sun Hung Kai Centre
- C29 AXA Centre
- C30 Sino Plaza
- C31 World Trade Centre
- C32 Excelsior Hotel
- C33 The Park Lane Hotel
- C34 Windsor House
- C35 19-31 Yee Wo Street
- C36 Citicorp Centre
- C37 Victoria Centre
- C38 Ocean Terminal
- C39 Star House
- C40 Peninsula Hotel
- C41 Sheraton Hotel
- C42 InterContinental Hotel
- C43 New World Centre and Hotel
- C44 Wing On Plaza
- C45 Shangri-La Hotel
- C46 Tsim Sha Tsui Centre
- C47 Empire Centre
- C48 Grand Stanford Harbour View Hotel
- C49 Nikko Hotel
- C50 Four Season Hotel
- C51 Harbour Plaza Metropolis
- C52 AIA Tower
- C53 Newton Hotel
- C54 Electric Centre
- C54A Sea View Estate

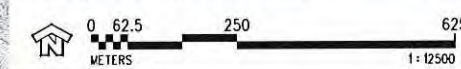
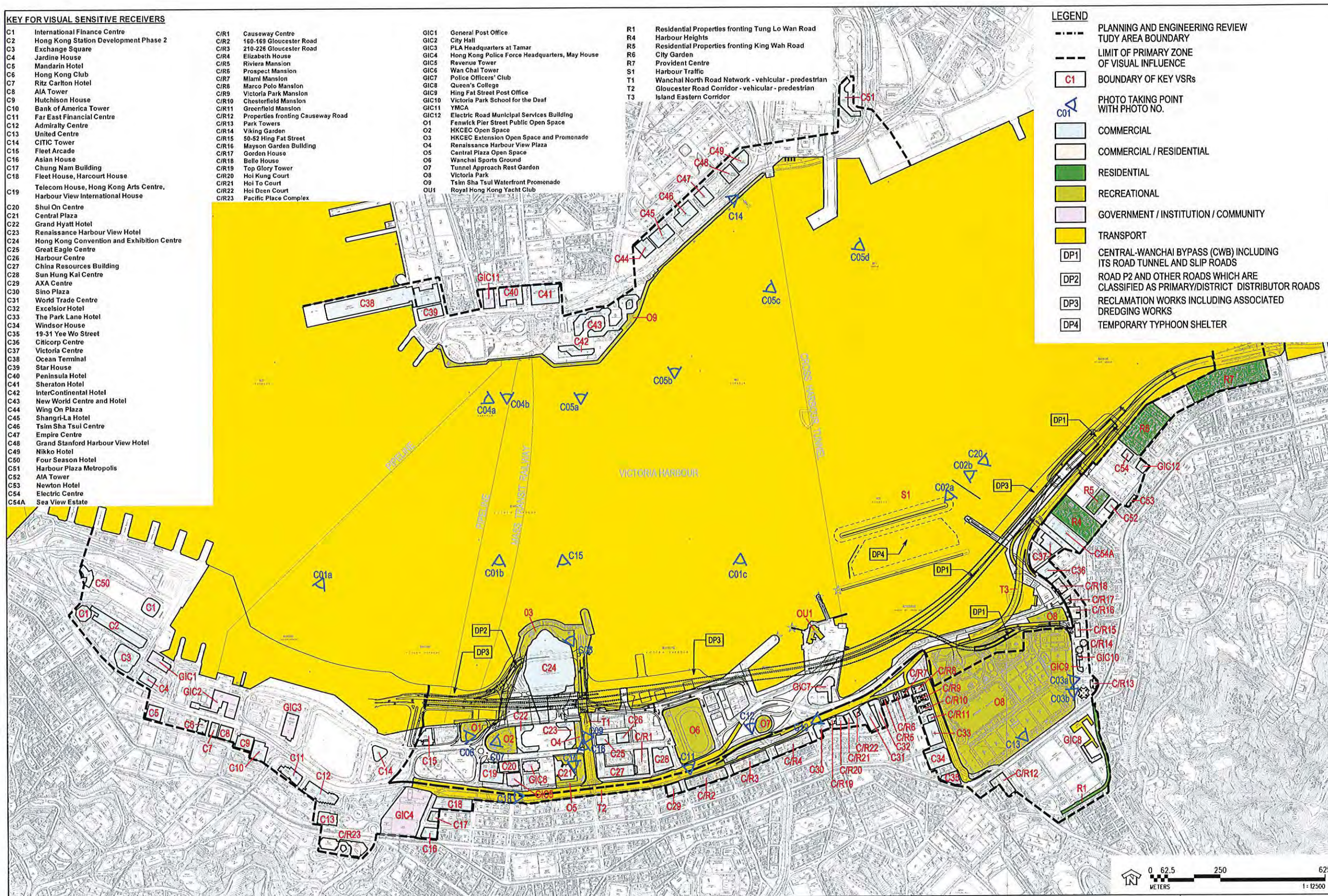
- C/R1 Causeway Centre
- C/R2 160-169 Gloucester Road
- C/R3 218-226 Gloucester Road
- C/R4 Elizabeth House
- C/R5 Riviera Mansion
- C/R6 Prospect Mansion
- C/R7 Mlami Mansion
- C/R8 Marco Polo Mansion
- C/R9 Victoria Park Mansion
- C/R10 Chesterfield Mansion
- C/R11 Greenfield Mansion
- C/R12 Properties fronting Causeway Road
- C/R13 Park Towers
- C/R14 Viking Garden
- C/R15 50-52 Hing Fat Street
- C/R16 Mayson Garden Building
- C/R17 Garden House
- C/R18 Belle House
- C/R19 Top Glory Tower
- C/R20 Hoi Kung Court
- C/R21 Hoi To Court
- C/R22 Hoi Deen Court
- C/R23 Pacific Place Complex

- GIC1 General Post Office
- GIC2 City Hall
- GIC3 PLA Headquarters at Tamar
- GIC4 Hong Kong Police Force Headquarters, May House
- GIC5 Revenue Tower
- GIC6 Wan Chai Tower
- GIC7 Police Officers' Club
- GIC8 Queen's College
- GIC9 Hing Fat Street Post Office
- GIC10 Victoria Park School for the Deaf
- GIC11 YMCA
- GIC12 Electric Road Municipal Services Building
- O1 Fenwick Pier Street Public Open Space
- O2 HKCEC Open Space
- O3 HKCEC Extension Open Space and Promenade
- O4 Renaissance Harbour View Plaza
- O5 Central Plaza Open Space
- O6 Wanchai Sports Ground
- O7 Tunnel Approach Rest Garden
- O8 Victoria Park
- O9 Tsim Sha Tsui Waterfront Promenade
- OU1 Royal Hong Kong Yacht Club

- R1 Residential Properties fronting Tung Lo Wan Road
- R4 Harbour Heights
- R5 Residential Properties fronting King Wah Road
- R6 City Garden
- R7 Provident Centre
- S1 Harbour Traffic
- T1 Wanchai North Road Network - vehicular - pedestrian
- T2 Gloucester Road Corridor - vehicular - pedestrian
- T3 Island Eastern Corridor

**LEGEND**

- PLANNING AND ENGINEERING REVIEW
- STUDY AREA BOUNDARY
- LIMIT OF PRIMARY ZONE OF VISUAL INFLUENCE
- C1 BOUNDARY OF KEY VSRs
- C01 PHOTO TAKING POINT WITH PHOTO NO.
- COMMERCIAL
- COMMERCIAL / RESIDENTIAL
- RESIDENTIAL
- RECREATIONAL
- GOVERNMENT / INSTITUTION / COMMUNITY
- TRANSPORT
- DP1 CENTRAL-WANCHAI BYPASS (CWB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS
- DP2 ROAD P2 AND OTHER ROADS WHICH ARE CLASSIFIED AS PRIMARY/DISTRICT DISTRIBUTOR ROADS
- DP3 RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS
- DP4 TEMPORARY TYPHOON SHELTER



WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

**KEY VSRs AND PRIMARY ZONE OF VISUAL INFLUENCE DURING CONSTRUCTION**

**FIGURE 10.4**

**Appendix C  
Design and Location Plan of  
Decorative Screen Hoarding**

**CONTROLLED COPY  
FOR CONSTRUCTION**



**KEY PLAN**  
SCALE A1 : 20000  
A3 : 40000

- NOTES:**
1. ALL HOARDING ALIGNMENT/SETTING OUT SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL SUBMIT PROPOSED HOARDING PLANS PHASE BY PHASE SHOWING THE HOARDING INCLUDING STREET FURNITURE, DETAILS OF ANY PROPOSED TEMPORARY VEHICULAR ACCESS, EXISTING TRAFFIC SIGNS OR TRAFFIC PROVISIONS AND EXISTING TREES, AS WELL AS OTHER RELEVANT INFORMATION FOR THE ENGINEER'S AGREEMENT.
  2. DETAILS OF THE HOARDING SHALL REFER TO HyD STANDARD DRAWING H6110-H6111.
  3. THE REQUIREMENTS OF THE AESTHETIC DESIGN OF THE HOARDING SHALL REFER TO PARTICULAR SPECIFICATION.
  4. THE HOARDING ARRANGEMENT AT CONTRACT INTERFACE SHALL BE AGREED WITH OTHER CONTRACTORS.
  5. ANY MODIFICATION OF STANDARD DRAWING TO SUIT EXISTING CONDITIONS SHALL BE SUBMITTED TO THE ENGINEER FOR CONSENT.

- LEGEND:**
- SITE BOUNDARY
  - HOARDING TO BE ERRECTED ON EXISTING LAND
  - HOARDING WITH AESTHETIC DESIGN TO BE ERRECTED ON EXISTING LAND
  - HOARDING TO BE ERRECTED ON TEMPORARY RECLAIMED LAND
  - HOARDING WITH AESTHETIC DESIGN TO BE ERRECTED ON TEMPORARY RECLAIMED LAND
  - BOUNDARY FOR TEMPORARY RECLAMATION

12 OCT 2010

B	WORKING DRAWING	SPM	BDC	OCT 10
A	TENDER DRAWING	JTC	ACC	MAY 10

Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH  
工務計劃項目編號

CENTRAL WAN CHAI BYPASS - TUNNEL  
(CAUSEWAY BAY TYPHOON SHELTER SECTION)

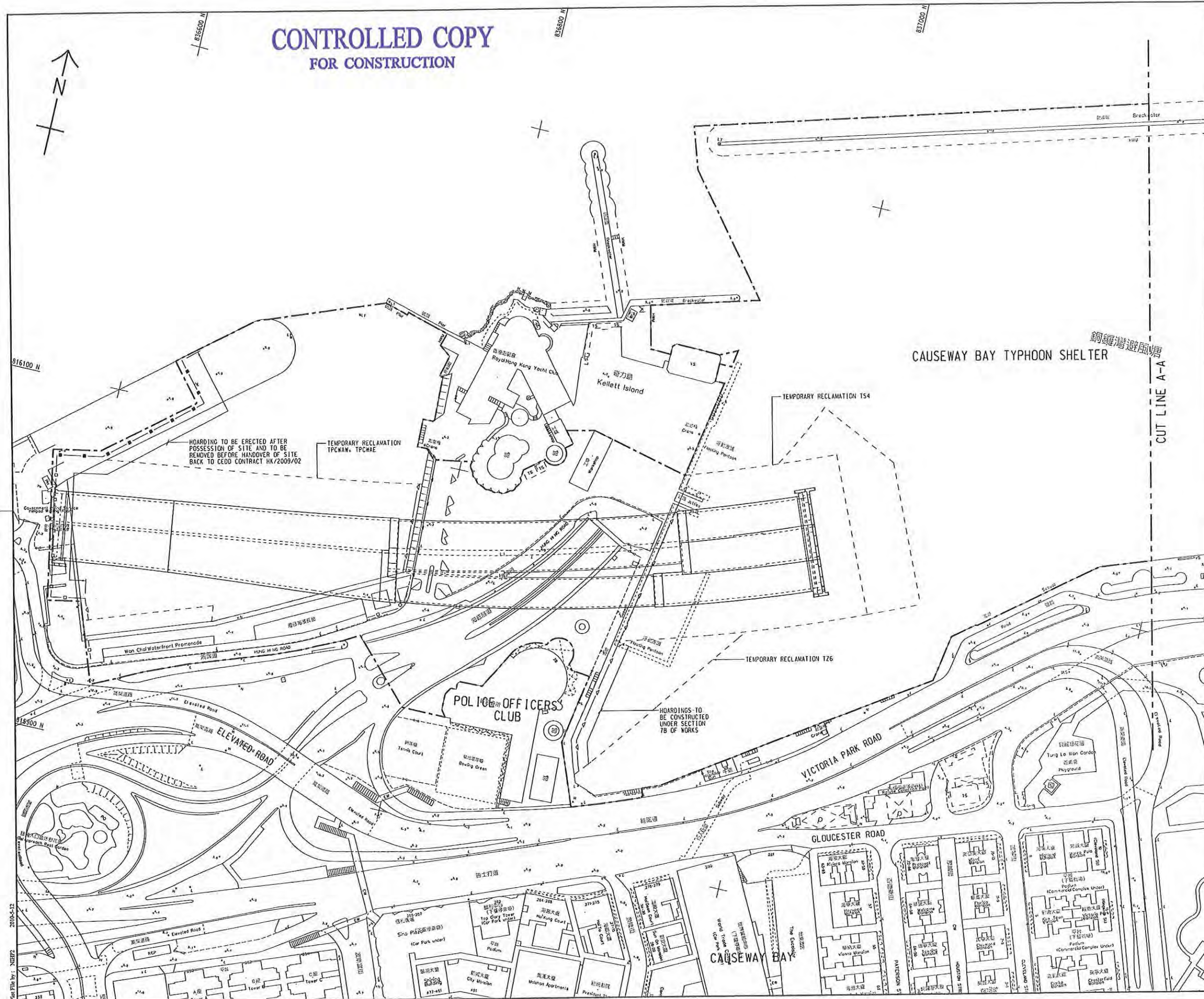
**HOARDING PLAN**  
SHEET 1 OF 2

**AECOM**

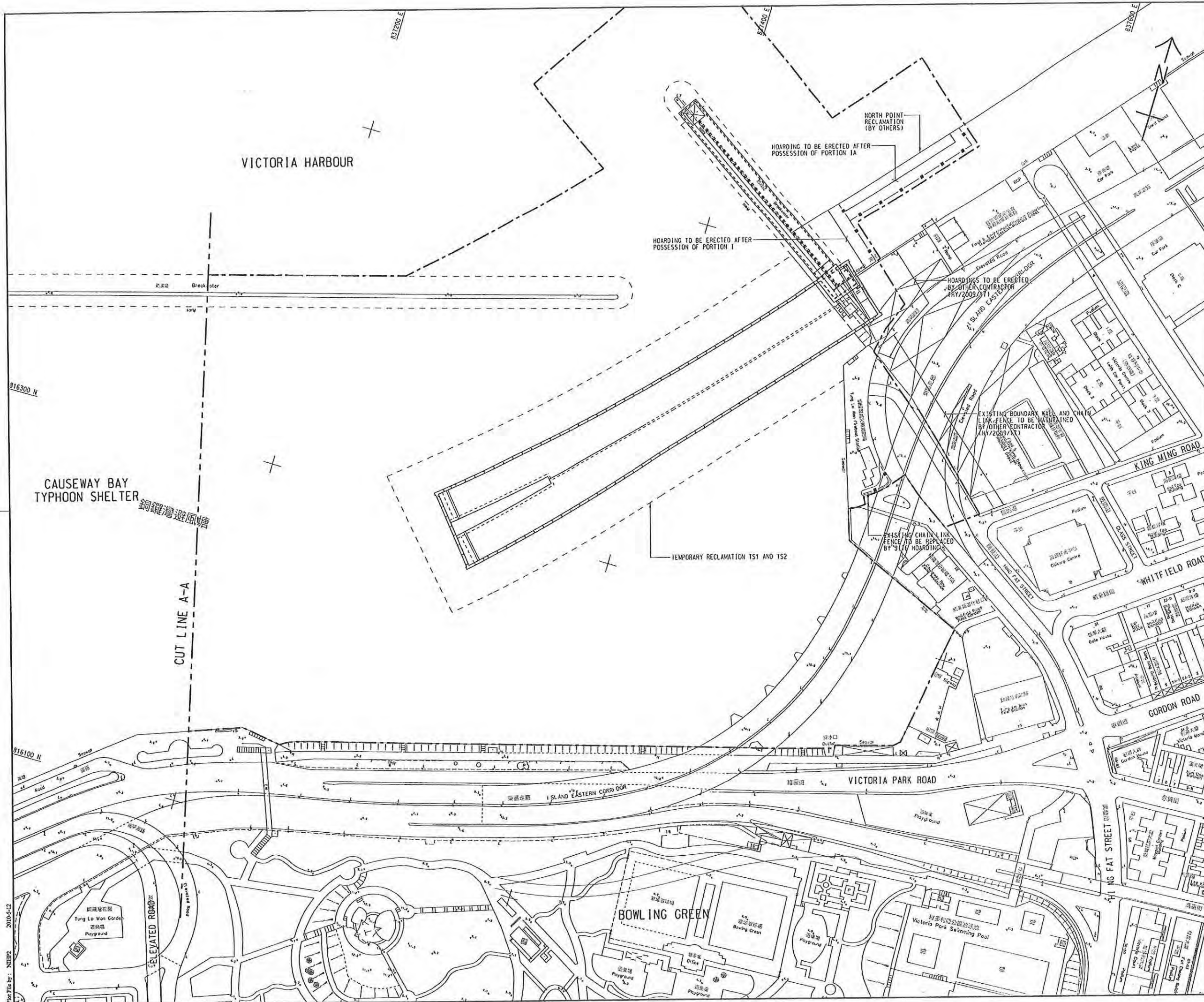
DRG. NO. 60095653/T1/1271B  
圖紙編號

DESIGNED BY VLMK  
SCALE A1 : 1000  
A3 : 2000  
STATUS WYP  
DATE 11/2009/15  
P. E.C. APPROVED CW

**WORKING DRAWING**  
DIMENSIONS ARE IN METRES  
© COPYRIGHT RESERVED  
版權所有



2010-6-15  
For File by: NHF2



KEY PLAN  
SCALE A1 1 : 2000  
A3 1 : 4000

NOTE:  
1. FOR NOTES AND LEGEND, REFER TO DRAWING NO. 60095653/T1/1271.

CONTROLLED COPY FOR CONSTRUCTION

12 OCT 2010

B	WORKING DRAWING	BTCL/BCC	OCT 10
A	TENDER DRAWING	JTCL/BCC	MAY 10

Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH  
工務計劃項目編號

CENTRAL WAN CHAI BYPASS - TUNNEL  
(CAUSEWAY BAY TYPHOON SHELTER SECTION)

HOARDING PLAN

SHEET 2 OF 2

**AECOM**

DRG. NO. 60095653/T1/1272B  
圖紙編號

DESIGNED BY VLMK  
STATUS WYP  
CONTRACT NO. HY/2009/15  
APPROVER CW

SCALE A1 1 : 1000  
A3 1 : 2000  
DIMENSIONS ARE IN METRES

WORKING DRAWING  
© COPYRIGHT RESERVED



2m

2m

2m



15m

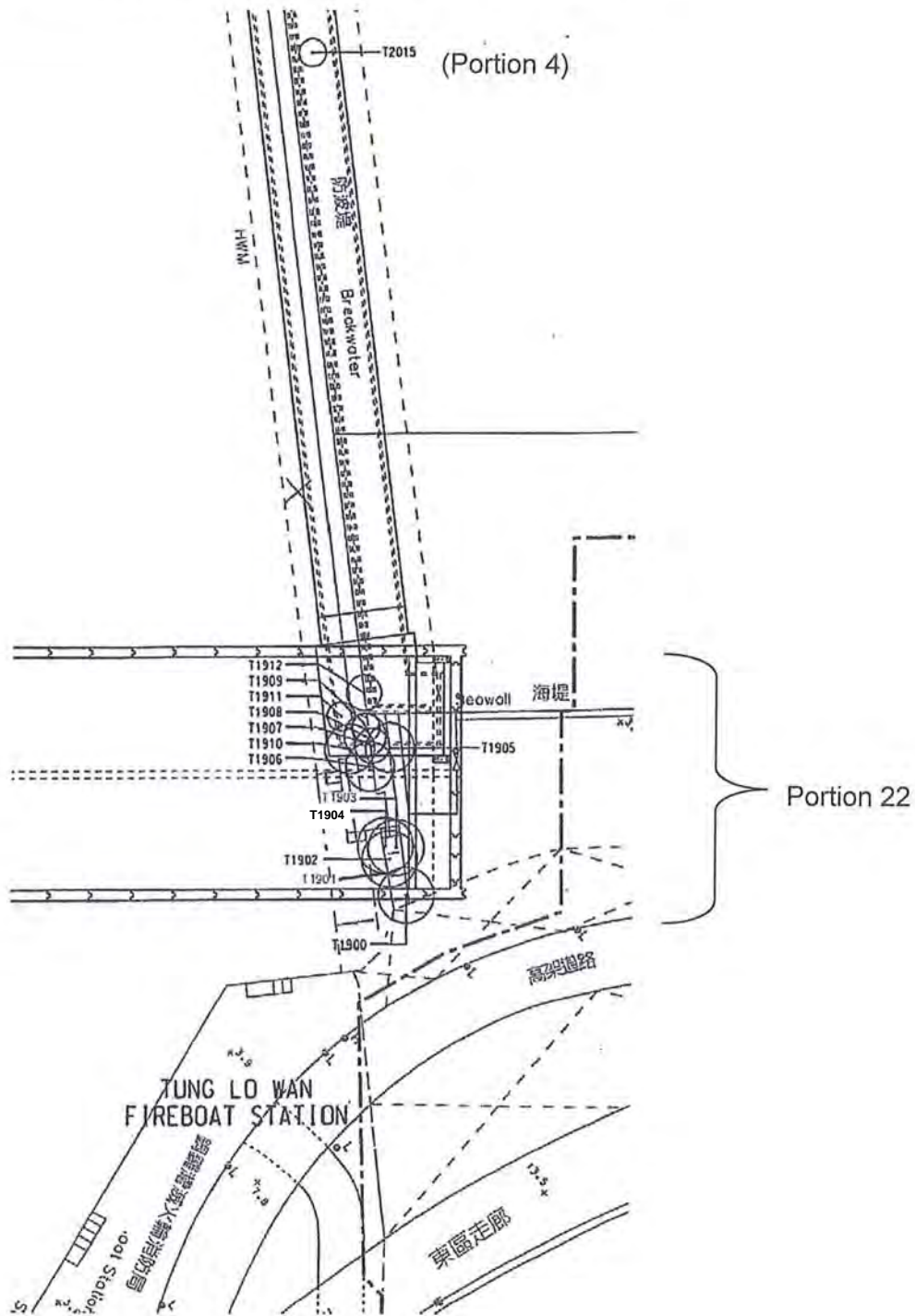
15m

36m

**Appendix D**  
**Location Plan of Retaining Trees and**  
**Existing Tree for Transplanting**

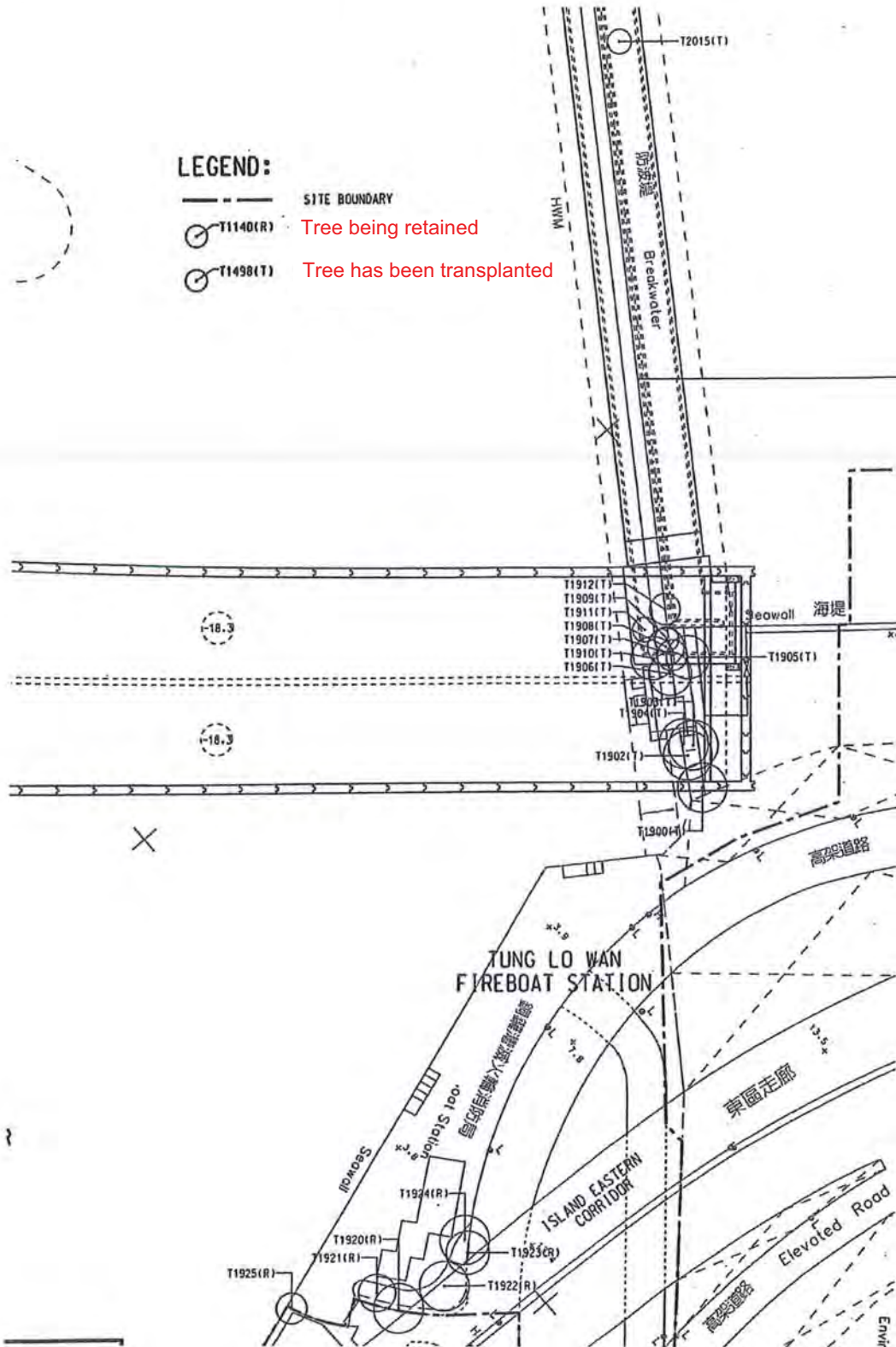


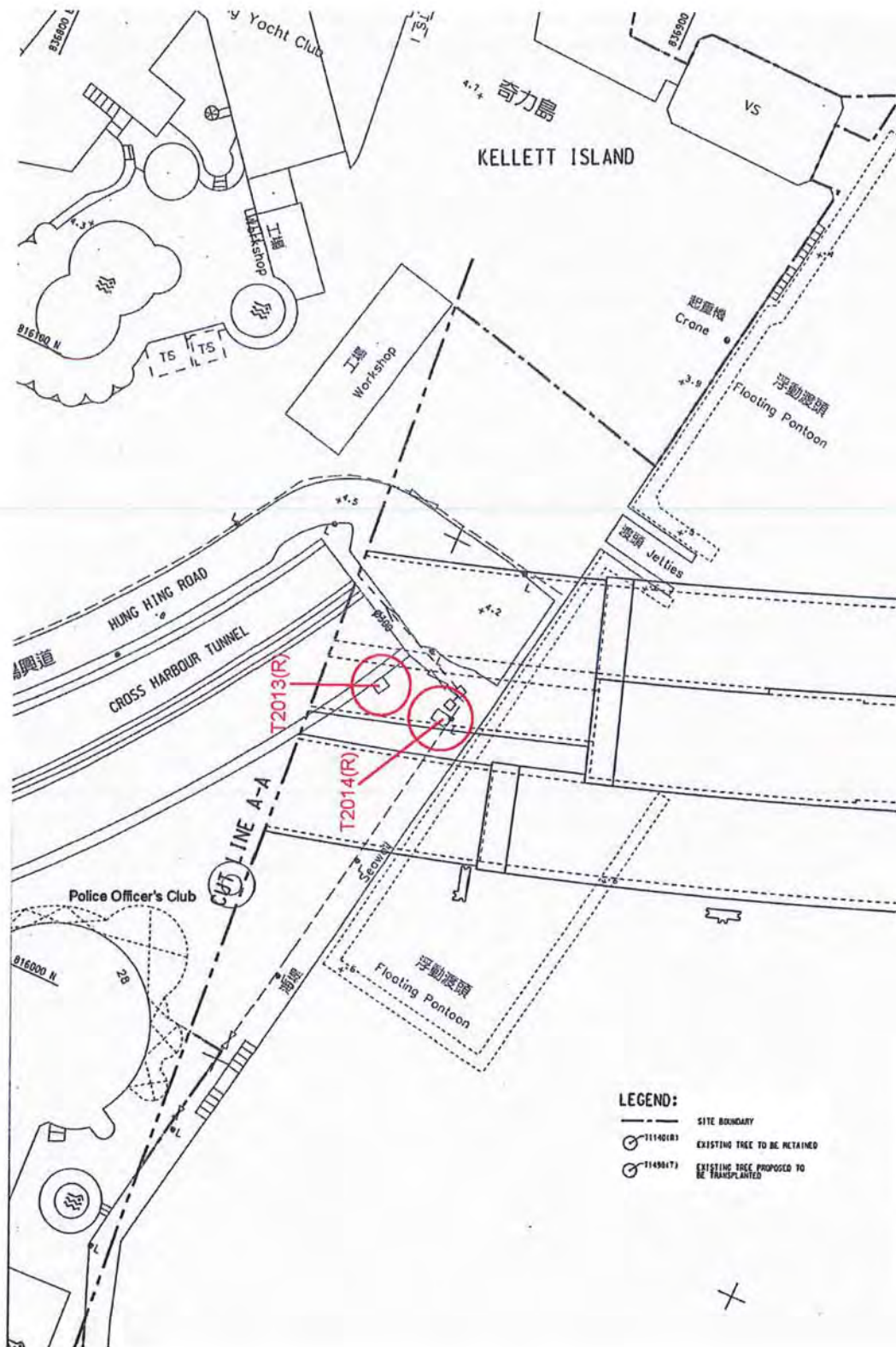
## 2. Location Plan of Existing Trees





**1. Location Plans showing the Preserved Trees**












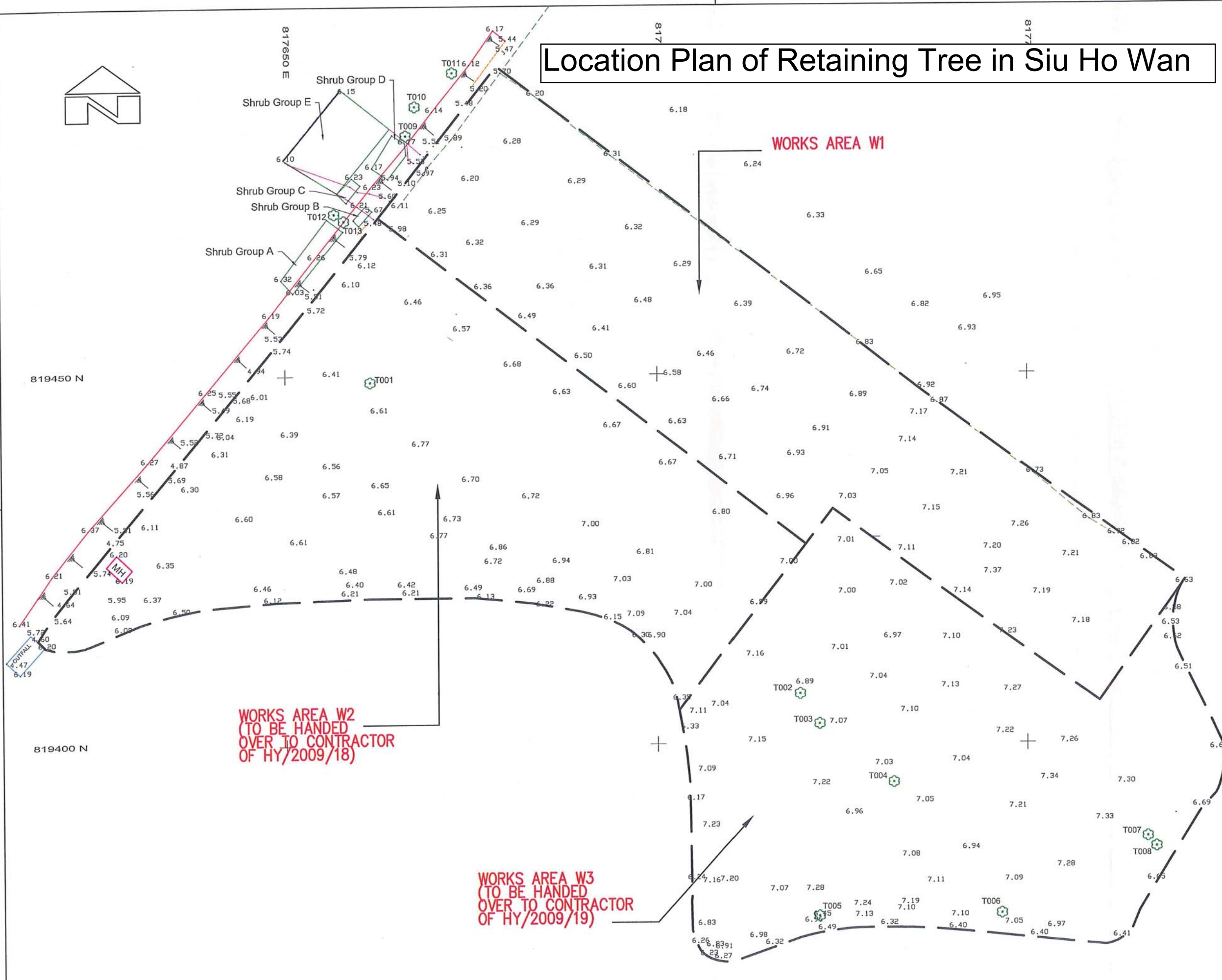


# Location Plan of Retaining Tree in Siu Ho Wan

- NOTES:
1. ALL LEVELS SHOWN ARE IN METRES REFER TO HONG KONG PRINCIPAL DATUM (HKMPD) UNLESS OTHERWISE STATED.
  2. GRID LINES ARE IN H.K. METRIC GRID 1980
  3. DECIMAL POINT OF SPOT HEIGHT IS THE SURVEYED POSITION OF SURVEYED POINT.

LEGEND:

-  TREE
-  SIGN POLE
-  KERB
-  FENCING
-  SLOPE
-  SLOPE TOP
-  SLOPE BOTTOM
-  51.89 SPOT LEVEL
-  GATE



**WORKS AREA W2  
(TO BE HANDED  
OVER TO CONTRACTOR  
OF HY/2009/18)**

**WORKS AREA W3  
(TO BE HANDED  
OVER TO CONTRACTOR  
OF HY/2009/19)**

路政署  
Highways Department  
主要工程管理處  
Major Works Project Management Office

**AECOM**

CENTRAL - WAN CHAI BYPASS - TUNNEL  
(CAUSEWAY BAY TYPHOON SHELTER SECTION)

TITLE:  
Initial Record Survey Plan  
(Works Area W1~W3)

中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.

DRG. NO.  
圖紙編號 CCW/INT/W1-3/01

CONTRACT NO.  
合約編號 HY/2009/15

DATE OF ISSUE  
發出日期 28-03-2010

CHECKED BY  
校核 LF Wong

DRAWN BY  
繪圖 KH Wong

SCALE  
比例 1:500

STATUS  
階段

DIMENSIONS ARE IN  
單位尺寸 METRES

PAPER SIZE  
圖紙尺寸 A3

**Appendix E**  
**Tree Schedule for Retained Trees**



## Tree Schedule

Handed over to HY/2010/08

Tree no.	Botanical Name	Chinese Name	Location	Size			Ground Level (mPD)	Form (G/F/P)	Health (G/F/P)	Tree Condition	Mitigation Measures
				Height (m)	Crown Spread (m)	Girth (m)					
T1920	<i>Ficus virens</i>	大葉榕, 黃葛樹	At Portion 7	10	7	760	4.8	G	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1921	<i>Morus alba</i>	桑	At Portion 7	8	7	330	4.4	G	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1922	<i>Ficus virens</i>	大葉榕, 黃葛樹	At Portion 7	9	6	360	4.74	P	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1923	<i>Ficus microcarpa</i>	榕樹, 細葉榕	At Portion 7	9	7	420	4.84	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1924	<i>Morus alba</i>	桑	At Portion 7	8	7	360	4.77	P	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1925	<i>Ficus virens</i>	大葉榕, 黃葛樹	At Portion 7	6	5	270	3.7	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T009	<i>Liquidambar formosana</i>	楓香	Works Area W1 at Siu Ho Wan	4	3	100	6.17	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T010	<i>Acacia Confusa</i>	臺灣相思	Works Area W1 at Siu Ho Wan	5	5	115	6.14	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T011	<i>Liquidambar formosana</i>	楓香	Works Area W1 at Siu Ho Wan	4	3	95	6.12	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T012	<i>Acacia Confusa</i>	臺灣相思	Works Area W1 at Siu Ho Wan	9	7	302	6.21	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T013	<i>Acacia Confusa</i>	臺灣相思	Works Area W1 at Siu Ho Wan	8	5	153	6.21	F	F	No significant defect observed 未有察覺明顯缺陷	Nil





Taken over by MTRC

T2013	<i>Aleurites moluccana</i>	石栗	Police Officer's Club	7	5	414	5.38	G	G	Taken over by MTRC 轉由MTRC負責	Nil
T2014	<i>Aleurites moluccana</i>	石栗	Police Officer's Club	8	4.5	481	5.48	G	G	Taken over by MTRC 轉由MTRC負責	Nil

**Appendix F**  
**Location Plan of Transplanted Trees**  
**in Holding Nursery and Transplanted**  
**Trees in Holding Nursery – Report of**  
**Dead Trees T1906 and T1907**



**Tree Survey Schedule of Transplanted Trees at Holding Nursery**  
 (for August 2016)

Tree No.	Botanical Name	Chinese Name	Size (m)			Health Condition (Good / Fair / Poor / Dead)	Form (G/F/P)	Health (G/F/P)	Date of Transplant to Tai Po Lam Tsuen	Date of Re-Transplant to Lau Fau Shan	* Date of Transplant by Contractor (HY/2009/18)	Area of Land Occupied	Remarks
			Height (m)	Crown Spread (m)	DBH (mm)								
T1900	<i>Ficus virens</i>	大葉榕, 黃葛樹	8	10.0	300	Fair	F	F	21/2/2011	16/1/2013	2/2/2016	21 m <sup>2</sup>	T1900 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1902	<i>Ficus benjamina</i>	垂葉榕	8	10.0	370	Fair	F	F	22/2/2011	16/1/2013	25/1/2016	24 m <sup>2</sup>	T1902 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1903	<i>Ficus benjamina</i>	垂葉榕	11	10.0	360	Fair	F	F	22/2/2011	16/1/2013	25/1/2016	21 m <sup>2</sup>	T1903 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1904	<i>Ficus benjamina</i>	垂葉榕	11	8.0	385	Fair	F	F	21/2/2011	16/1/2013	29/1/2016	21 m <sup>2</sup>	T1904 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1905	<i>Macaranga tanarius</i>	血桐	7	5.0	330	Fair	F	F	Nil	26/2/2016	24/8/2016	24 m <sup>2</sup>	Refer to CCW/CSF/LDS/007627, it had been replaced by contractor on Dec 2015. Compensation tree planting at the end of Feb 2016. T1905 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1906	<i>Celtis sinensis</i>	朴樹	8.5	6.0	380	Fair	F	F	21/2/2011	16/1/2013	25/1/2016	24 m <sup>2</sup>	Refer to CCW/CSF/LDS/002073, it had been replaced by contractor on Feb 2015. Replacement by heavy standard size on Feb 2015. T1906 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1907	<i>Ficus variegata</i>	青果榕	8	4.0	190	Fair	F	F	18/2/2011	16/1/2013	25/1/2016	21 m <sup>2</sup>	Refer to CCW/CSF/LDS/002073, it had been replaced by contractor on Dec 2015. Compensation tree planting at the end of Feb 2016. T1907 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1908	<i>Albizia lebeck</i>	大葉合歡	8.5	7.0	280	Fair	F	F	18/2/2011	16/1/2013	25/1/2016	21 m <sup>2</sup>	T1908 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1909	<i>Bombax ceiba</i>	木棉	4.5	0.0	170	Fair	F	F	Nil	26/2/2016	7/6/2016	21 m <sup>2</sup>	Refer to CCW/CSF/LDS/007627, it had been replaced by contractor on Dec 2015. Compensation tree planting at the end of Feb 2016. T1909 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1910	<i>Ficus virens</i>	大葉榕, 黃葛樹	6	5.0	600	Fair	F	F	23/2/2011	16/1/2013	26/1/2016	24 m <sup>2</sup>	T1910 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1911	<i>Albizia lebeck</i>	大葉合歡	2.5	5.0	130	Fair	F	F	18/2/2011	16/1/2013	28/1/2016	10 m <sup>2</sup>	T1911 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T1912	<i>Ficus benjamina</i>	垂葉榕	3.5	4.0	170	Fair	F	F	18/2/2011	16/1/2013	26/1/2016	10 m <sup>2</sup>	T1912 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.
T2015	<i>Ficus microcarpa</i>	榕樹, 細葉榕	3.5	7.0	212	Fair	F	F	23/2/2011	16/1/2013	28/1/2016	30 m <sup>2</sup>	T2015 had been handed over to Contract HY/2009/18 temporary holding nursery near Yoho Town by end of August 2016.

Total area of land occupied by the trees : 293 m<sup>2</sup>

\* Remark: All transplanted trees under contract HY/2009/15, thirteen in total had been handed over to contract HY/2009/18 by end of August 2016



# Location Plan of Transplanted Tree (HY/2009/18)

Melofield's Holding Nursery near YOHO Town

## Tree Assessment Plan





HY/2009/15: Central – Wan Chai Bypass-Tunnel  
(Causeway Bay Typhoon Shelter Section)

## Contractor's Submission Form

To: The Engineer's Representative – Attn: Mr Peter Poon

Title of Submission: Transplanted Trees in Holding Nursery –  
Report of Dead Trees T1906 and T1907

Submission Ref. No.: CCW/CSF/LDS/002073

Description of Contents: (for materials submissions, use Material Submission Form)

Please refer to attachment

See Below

### Specification/Drawing Reference (if applicable):

We refer to your correspondence ref CWB/(HY/2009/15)/C30/940/15B004797 dated 3 January 2012 concerning the dead trees T1906 and T1907 in the holding nursery.

Pursuant to PS Clause 3.101(3), we submit herewith a report for the aforesaid dead trees for your perusal.

### Purpose of Submission:

For Approval

For Information

For Record Purposes

### From: Contractor's Representative

Name:

Signature:

Date Response required by:

David Lau

N/A

Date: 17/01/2012

Prepared by: DL/RC/GC  
cc: MasterFile/QA/



# Report of Damages to the Plant in Holding Nursery

Central-Wan Chai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)

Contract  
HY/2009/15

MS

Revision :

A

Tree Mark:

T1906 and T1907

## 1. Report of Damages

Pursuant to PS Clause 3.101(3)(b), we report that the trees T1906 and T1907, transplanted from Portion IV of the Site to the temporary holding nursery in Yuen Long, were both identified dead during our routine inspection for the month in November 2011. The photographic records are appended in Annex A.

## 2. Reason of Damages

After thorough investigation, the reasons that the trees die are as follow:

1. The trees grew near the seaside of the rocky embankment of the East Breakwater before they were transplanted. During the transplanting works in early 2011, concrete and rock breaking around their root balls could not be avoided. During the process, we also found that the root balls were not intact attached with soil and hence no pruning works were done for the transplanting. After transplanted to the holding nursery, they intended to grow unhealthily and became weak gradually and died as a consequence.
2. Referring to the Tree Survey Report submitted under cover of Contractor's Submission ref CCW/CSF/LDS/000037B dated 23 December 2010, our landscape specialist had already highlighted the following:
  - (a) For tree No. T1906, the root system distorted due to confined growing space between rock. Preparation of root ball was unfeasible for survival of transplanting.
  - (b) For tree No. T1907, the root system distorted due to rock and limited root system coverage for stability.

## 3. Remedial Measure

There were pre-existed conditions that the trees T1906 and T1907 were not suitable for being transplanted that we had pointed out before the execution of such works. Nevertheless, we have made our best endeavors to maintain the trees in healthy conditions during the whole process of the transplanting and in the holding nursery as required under the Contract. Therefore, under such circumstances, it is considered that we are not responsible for remedial works or replacement for the dead trees.



## Report of Damages to the Plant in Holding Nursery

Central-Wan Chai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)

Contract  
HY/2009/15

MS

Revision :

A

Tree Mark:

T1906 and T1907

### Annex A

Record Photos of Dead Trees T1906 and T1907





# Report of Damages to the Plant in Holding Nursery

Central-Wan Chai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)

Contract  
HY/2009/15

MS

Revision :

A

Tree Mark:

T1906 and T1907





# Report of Damages to the Plant in Holding Nursery

Central-Wan Chai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)

Contract  
HY/2009/15

MS

Revision :

A

Tree Mark:

T1906 and T1907



Sign of wilting



# Report of Damages to the Plant in Holding Nursery

Central-Wan Chai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)

Contract  
HY/2009/15

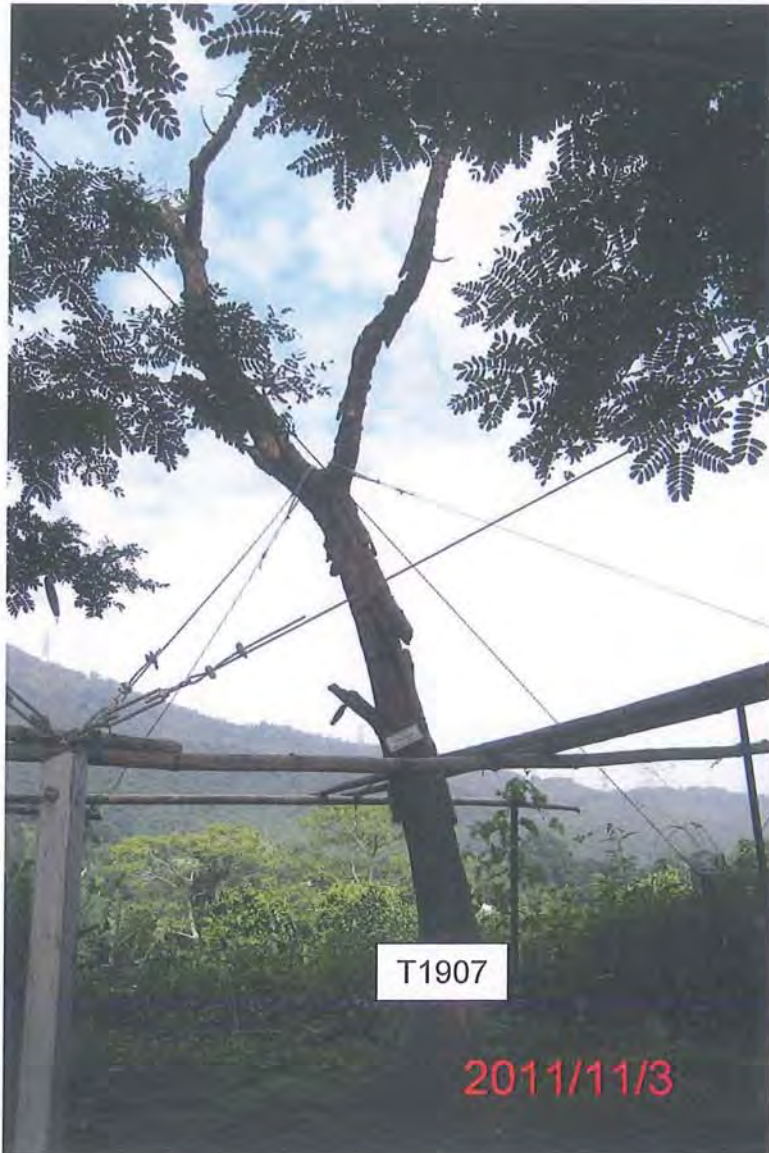
MS

Revision :

A

Tree Mark:

T1906 and T1907





# Report of Damages to the Plant in Holding Nursery

Central-Wan Chai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)

Contract  
HY/2009/15

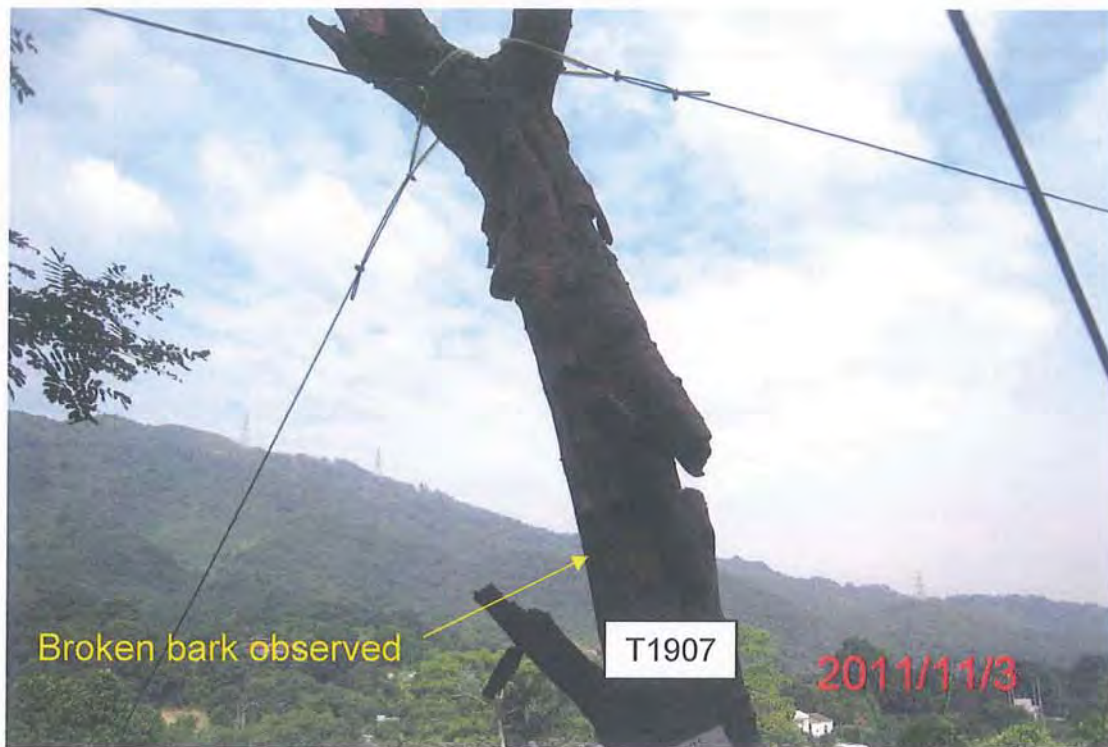
MS

Revision :

A

Tree Mark:

T1906 and T1907



**Appendix G**  
**Report of Tree Preservation and**  
**Protection Plan with Photos of**  
**Retained Trees**



**中國建築工程(香港)有限公司**  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Contract No. HY/2009/15  
Central - Wan Chai Bypass – Tunnel  
(Causeway Bay Typhoon Shelter Section)

## CONTRACTOR'S SUBMISSION FORM

**To : The Engineer's Representative**  
**Attn : Mr. Peter Poon**

**CSF Ref. No.:**

**CCW / 2002 / CSF / LDS / ALL / 008594**

Old CSF ref. no. (if applicable) :  
AECOM ref. no. (if applicable) :

**Title of Submission:** **Bi-Monthly Report No.41 of the Tree Preservation and Protection Plan**

**Description of Contents:**

Please refer to attachment

See Below

**Specification/Drawing Reference (if applicable):**

We are pleased to submit herewith the bi-monthly report no.41 of the tree preservation and protection plan for your perusal.

Encl.

**Purpose of Submission:**

For Approval

For Information

For Record Purposes

**From: Contractor's Representative**

Name : Chris Leung

Date Response required by:

Signature:

*P.P.*  
*Patrick Ho*

Date : 18/09/2017

Prepared by: DC/GL  
cc: MasterFile / QA /



# Tree Preservation and Protection Plan

## Bi-Monthly Report No. 41

(For the Month of September 2017)

Endorsed by:

A handwritten signature in blue ink, appearing to be 'David Bloxham', written over a horizontal line.

David Bloxham

Senior Landscape Architect  
China State Construction  
Engineering(Hong Kong)Ltd.



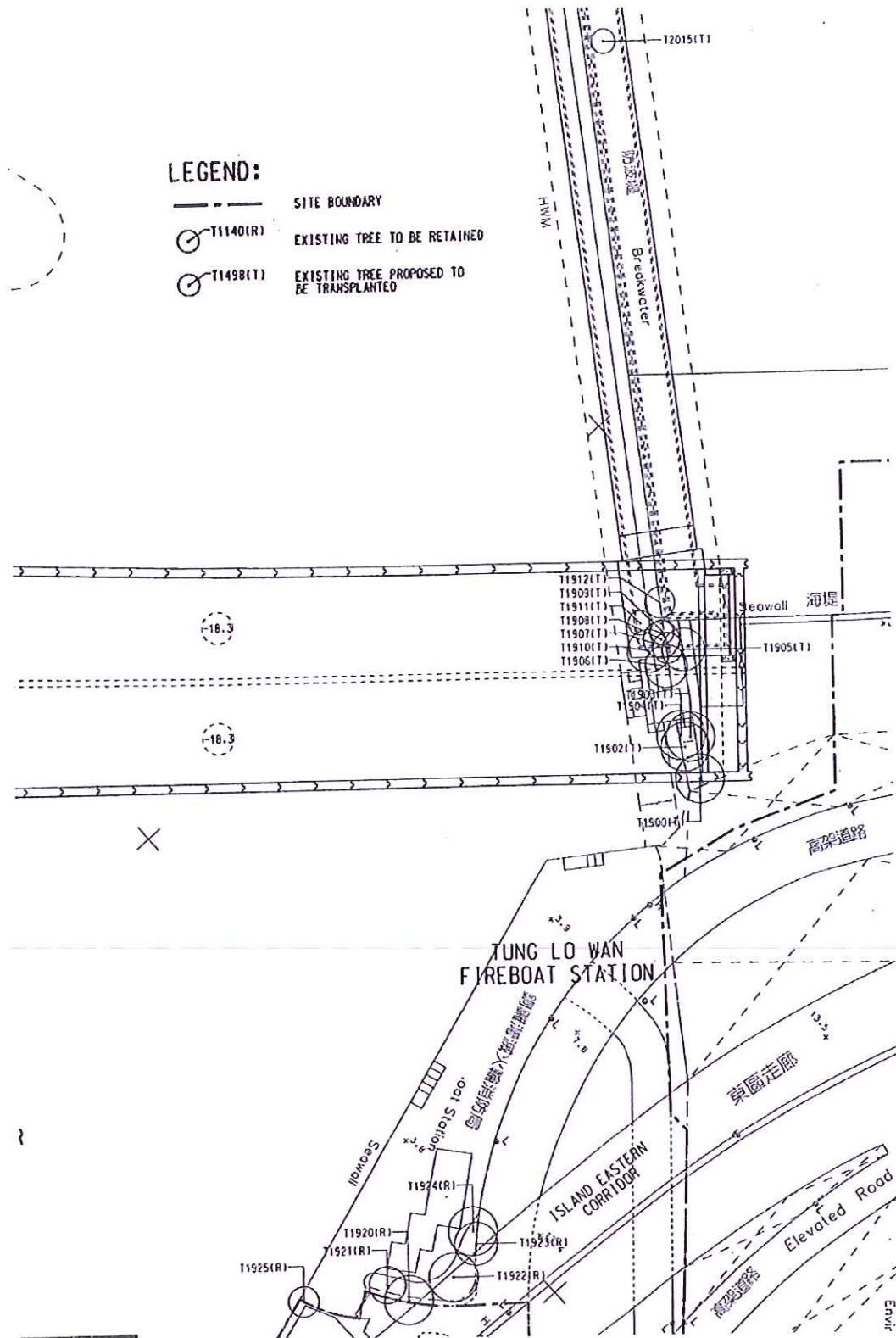
Contents –

1. Location plans showing the preserved trees
2. Tree Schedule
3. Photographic Records of the Preserved Trees

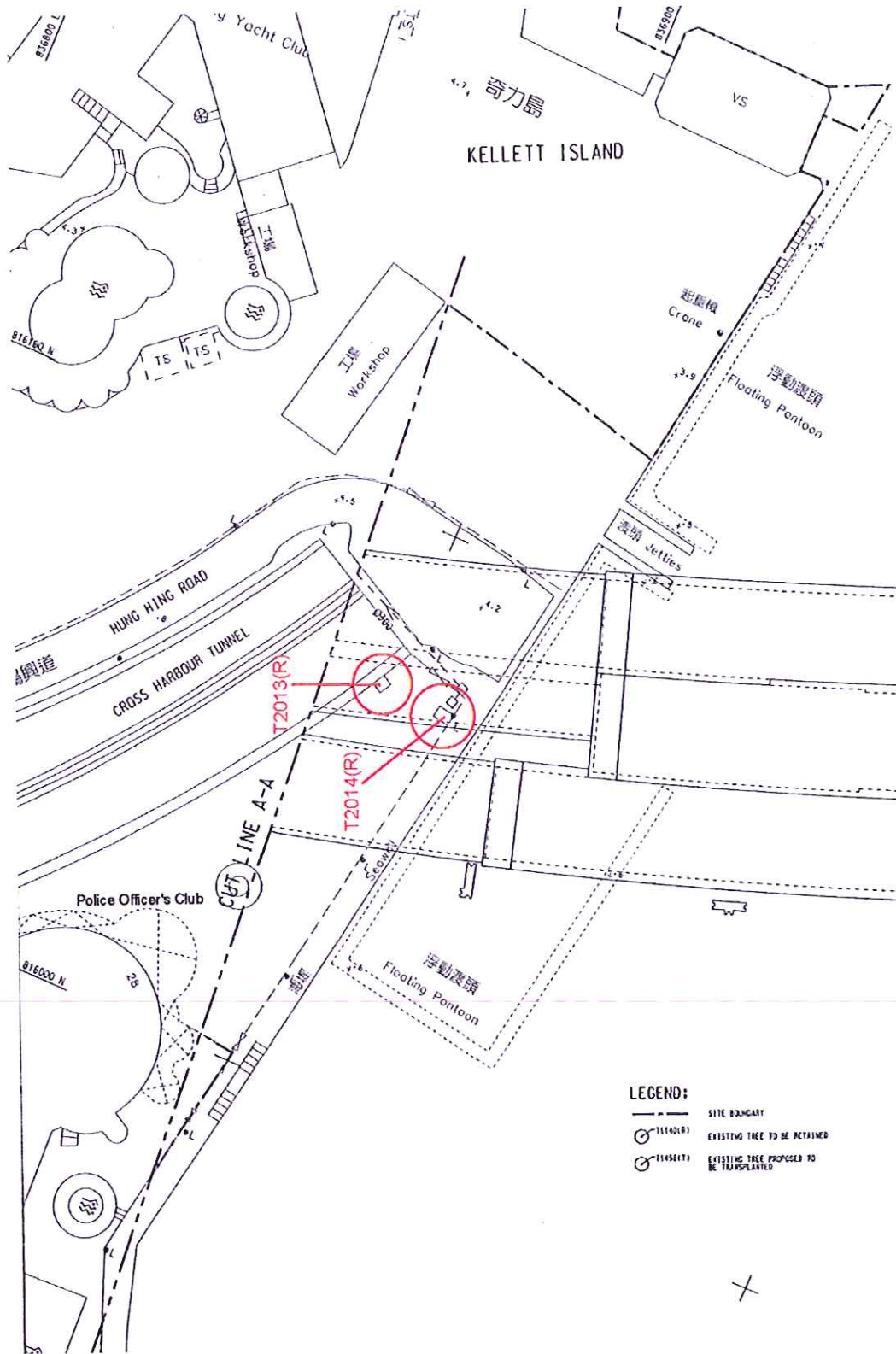




1. Location Plans showing the Preserved Trees



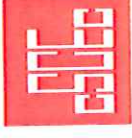
Contract No. HY/2009/15  
 Central – Wanchai Bypass – Tunnel  
 (Causeway Bay Typhoon Shelter Section)



**LEGEND:**

- SITE BOUNDARY
- ⊙ (T114218) EXISTING TREE TO BE RETAINED
- ⊙ (T145447) EXISTING TREE PROPOSED TO BE TRANSPLANTED





Contract No. HY/2009/15  
 Central – Wanchai Bypass – Tunnel  
 (Causeway Bay Typhoon Shelter Section)

Tree Schedule

Tree No.	Botanical Name	Chinese Name	Location	Size			Ground Level (mPD)	Form (G/F/P)	Health (G/F/P)	Tree Condition	Mitigation Measures
				Height (m)	Crown Spread (m)	Girth (mm)					
T1920	Ficus virens	大葉榕, 黃葛樹	At Portion 7	10	7	760	4.8	G	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1921	Morus alba	桑	At Portion 7	8	7	330	4.4	G	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1922	Ficus virens	大葉榕, 黃葛樹	At Portion 7	9	6	360	4.74	P	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1923	Ficus microcarpa	榕樹, 細葉榕	At Portion 7	9	7	420	4.84	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1924	Morus alba	桑	At Portion 7	8	7	360	4.77	P	F	No significant defect observed 未有察覺明顯缺陷	Nil
T1925	Ficus virens	大葉榕, 黃葛樹	At Portion 7	6	5	270	3.7	F	P	No significant defect observed 未有察覺明顯缺陷	Nil
T2013	Aleurites moluccana	石栗	Police Officer's Club	7	5	414	5.38	G	G	Taken over by MTRC 轉由MTRC 負責	Nil
T2014	Aleurites moluccana	石栗	Police Officer's Club	8	4.5	481	5.48	G	G	Taken over by MTRC 轉由MTRC 負責	Nil
T009	Liquidamber Formosana	楓香	Works Area W1 at Siu Ho Wan	4	3	100	6.17	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T010	Acacia Confusa	臺灣相思	Works Area W1 at Siu Ho Wan	5	5	115	6.14	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T011	Liquidamber Formosana	楓香	Works Area W1 at Siu Ho Wan	4	3	95	6.12	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T012	Acacia Confusa	臺灣相思	Works Area W1 at Siu Ho Wan	9	7	302	6.21	F	F	No significant defect observed 未有察覺明顯缺陷	Nil
T013	Acacia Confusa	臺灣相思	Works Area W1 at Siu Ho Wan	8	5	153	6.21	F	F	No significant defect observed 未有察覺明顯缺陷	Nil



**3. Photographic Records of the Preserved Trees**

T1920 - *Ficus virens* 大葉榕, 黃葛樹





T1921 - Morus alba 桑







T1922 - *Ficus virens* 大葉榕, 黃葛樹







T1922 - *Ficus virens* 大葉榕, 黃葛樹





T1924 - Morus alba 桑





T1923 - *Ficus microcarpa* 榕樹, 細葉榕  
T1924 - *Morus alba* 桑



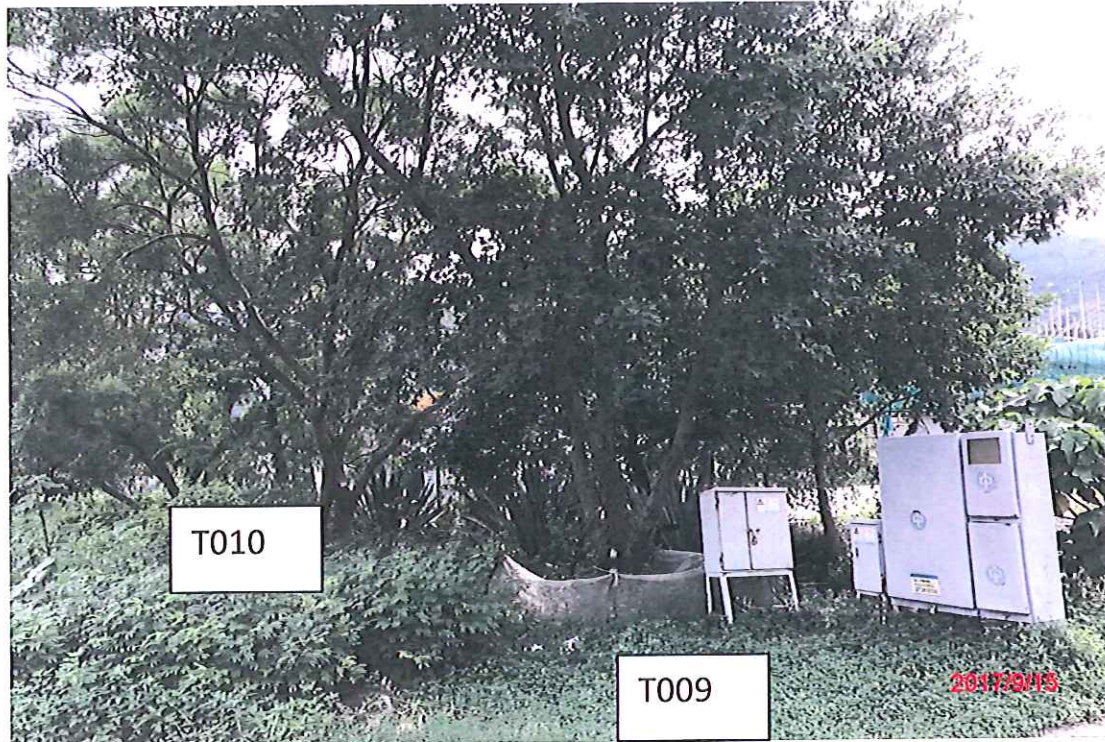


T1925 Ficus virens 大葉榕, 黃葛樹





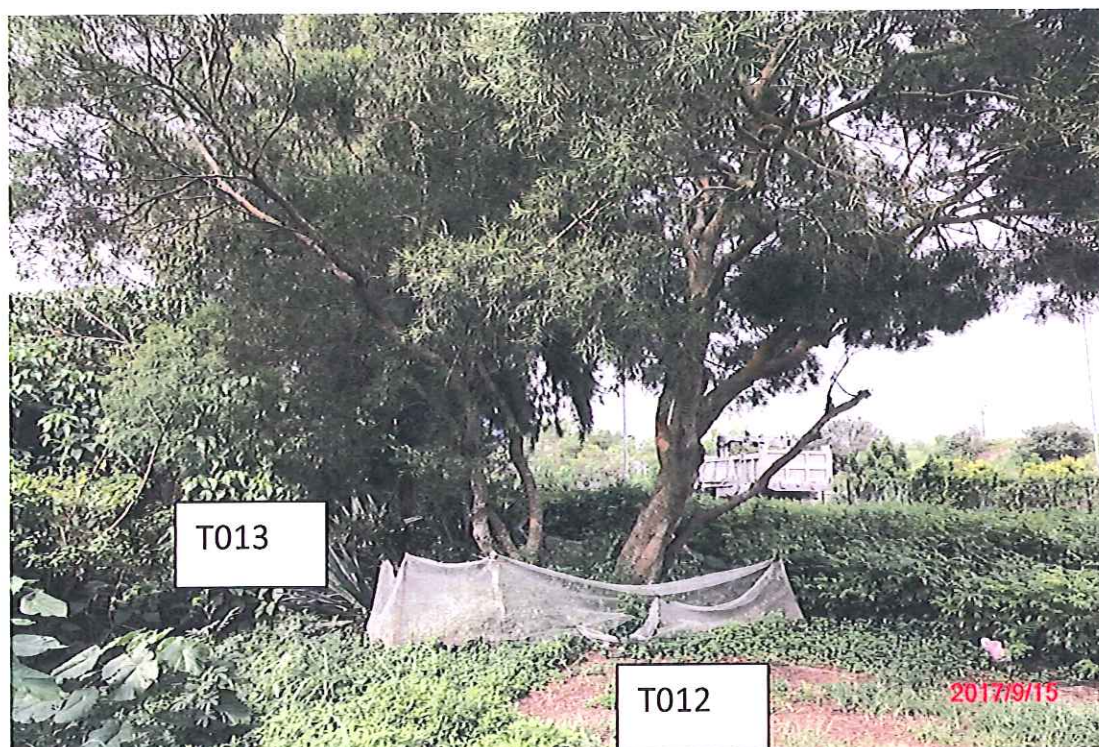
T009 Liquidamber Formosana 楓香  
T010 Acacia Confusa 臺灣相思





T012 Acacia Confusa 臺灣相思

T013 Acacia Confusa 臺灣相思





T011 Liquidamber Formosana 楓香



**Appendix H**  
**Transplanted Trees Inspection Record**  
**with Photos of Transplanted Trees**





# **Transplanted Trees Inspection Record**

## **For the Month of August 2016**



## Content

1. Tree Survey Schedule of Transplanted Trees at Holding Nursery
2. Photographic Records



### 1. Tree Survey Schedule of Transplanted Trees at Holding Nursery

(for August 2016)

Tree No.	Botanical Name	Chinese Name	Size (m)			Health Condition ( Good / Fair / Poor / Dead )	Form (G/F/P )	Health (G/F/P )	Date of Transplant to Tai Po Lam Tsuen	Date of Re-Transplant to Lau Fau Shan	Date of Transplant by Contractor (HY/2009/18)	Area of Land Occupied	Remarks
			Height (m)	Crown Spread (m)	DBH (mm)								
T1900	Ficus virens	大葉榕,黃葛樹	8	10.0	300	Fair	F	F	21/2/2011	16/1/2013	2/2/2016	21 m <sup>2</sup>	
T1902	Ficus benjamina	垂葉榕	8	10.0	370	-			22/2/2011	16/1/2013	25/1/2016	24 m <sup>2</sup>	It had been replaced by contractor on Feb 2015 due to decay in woung. Replacement by heavy standard size on Feb 2015.
T1903	Ficus benjamina	垂葉榕	11	10.0	360	-			22/2/2011	16/1/2013	25/1/2016	21 m <sup>2</sup>	It had been replaced by contractor on Feb 2015 due to decay in woung. Replacement by heavy standard size on Feb 2015.
T1904	Ficus benjamina	垂葉榕	11	8.0	385	Fair	F	F	21/2/2011	16/1/2013	29/1/2016	21 m <sup>2</sup>	
T1905	Macaranga tanarius	血桐	7	5.0	330	-			Nil	26/2/2016	24/8/2016		Termite attack and removal before tree transplanting . Refer to letter bar code 15A000937. Compensation tree planting at the end of Feb 2016.Rejected on May 2016 due to poor condition. Replacement tree on June 2016 but rejected due to poor health condition. Replacement by heavy standard size on July 2016
T1906	Celtis sinensis	朴樹	8.5	6.0	380	-			21/2/2011	16/1/2013	25/1/2016	24 m <sup>2</sup>	Refer to CCW/CSF/LDS002073, it had been replaced by contractor on Feb 2015. Replacement by heavy standard size on Feb 2015
T1907	Ficus variegata	青果榕	8	4.0	190	-			18/2/2011	16/1/2013	25/1/2016	21 m <sup>2</sup>	Refer to CCW/CSF/LDS/002073, it had been replaced by contractor on Dec 2015. Compensation tree planting at the end of Feb 2016
T1908	Albizia lebbeck	大葉合歡	8.5	7.0	280	-			18/2/2011	16/1/2013	25/1/2016	21 m <sup>2</sup>	It had been replaced by contractor on Dec 2015 due to decay in woung and seropus tree bark damage. Replacement by heavy standard size on Dec 2015.
T1909	Bombax ceiba	木棉	4.5	0.0	170	-			Nil	26/2/2016	7/6/2016		Dead before site possession. It was felled by Contractor on 23/01/2011. Compensation tree planting at the end of Feb 2016
T1910	Ficus virens	大葉榕,黃葛樹	6	5.0	600	-			23/2/2011	16/1/2013	26/1/2016	24 m <sup>2</sup>	It had been replaced by contractor on Dec 2015 due to decay in woung and seropus tree bark damage. Replacement by heavy standard size on Dec 2015.
T1911	Albizia lebbeck	大葉合歡	2.5	5.0	130	Fair	F	F	18/2/2011	16/1/2013	28/1/2016	10 m <sup>2</sup>	
T1912	Ficus benjamina	垂葉榕	3.5	4.0	170	Fair	F	F	18/2/2011	16/1/2013	26/1/2016	10 m <sup>2</sup>	
T2015	Ficus microcarpa	榕樹,細葉榕	3.5	7.0	212	Fair	F	F	23/2/2011	16/1/2013	28/1/2016	30 m <sup>2</sup>	

Total area of land occupied by the trees : 227 m<sup>2</sup>



## 2. Photographic Records

General View of the Holding Nursery

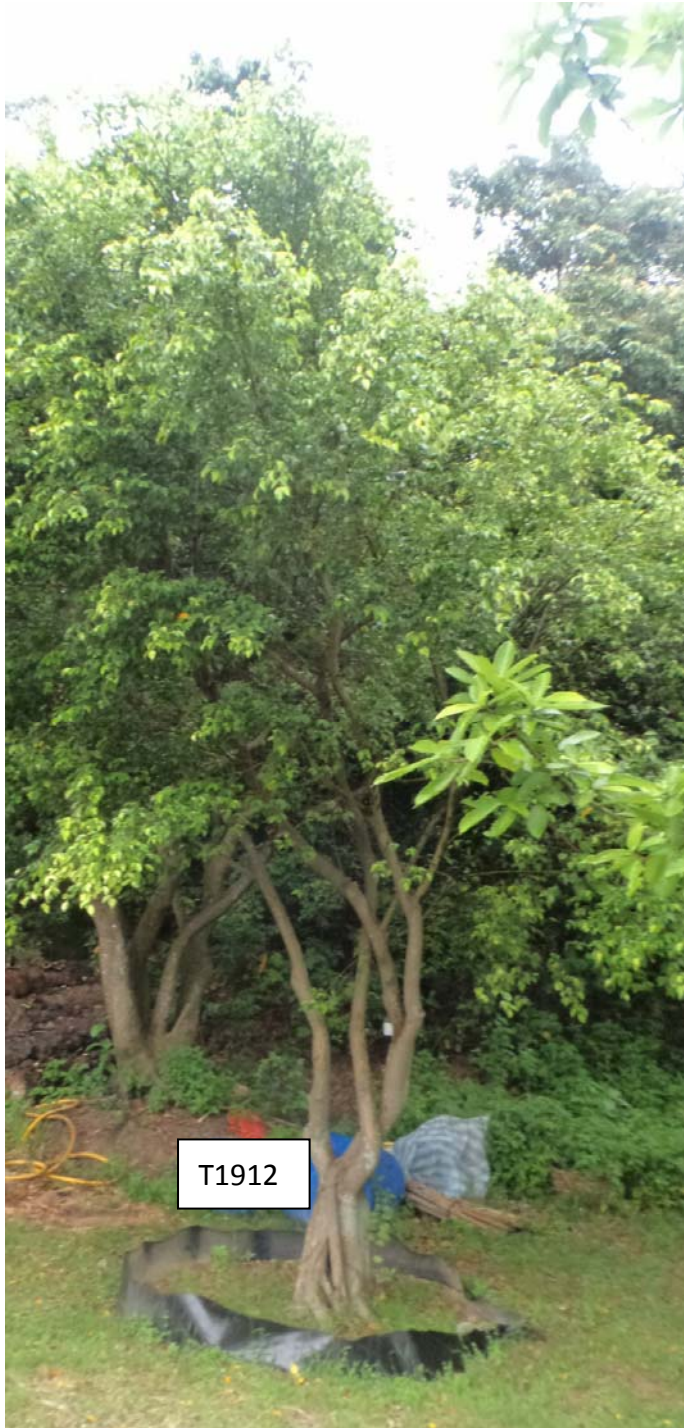






T1904







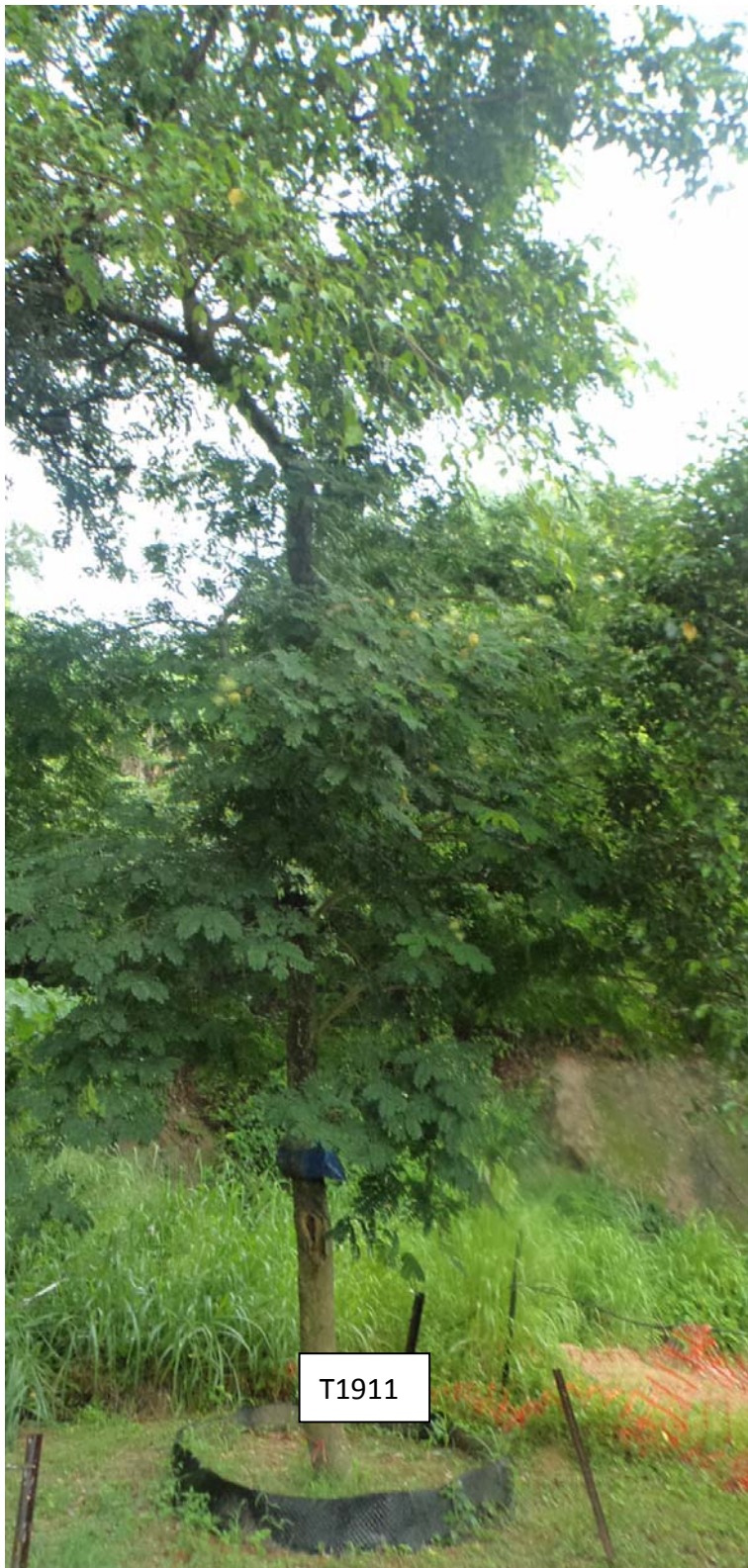




T1902

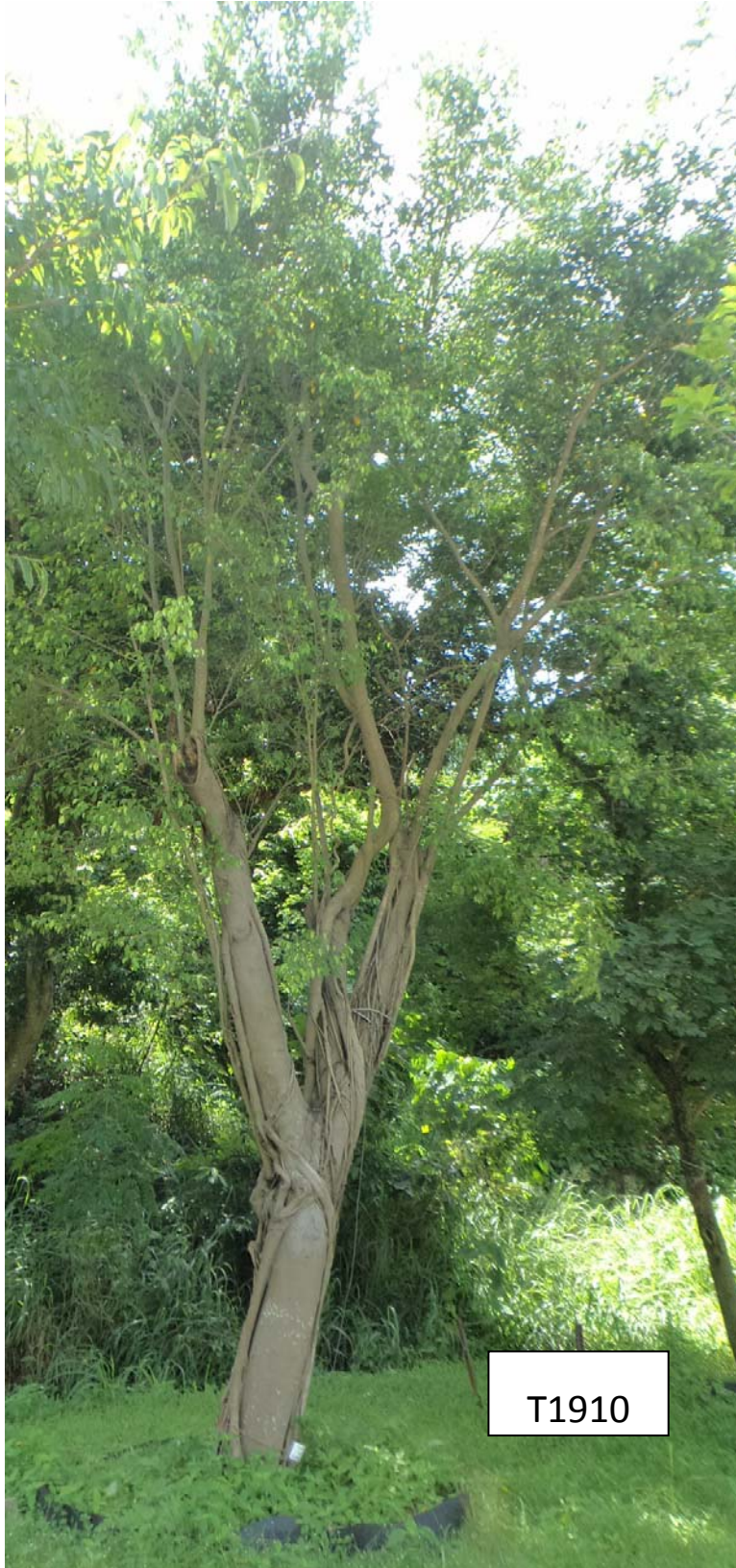
T1906



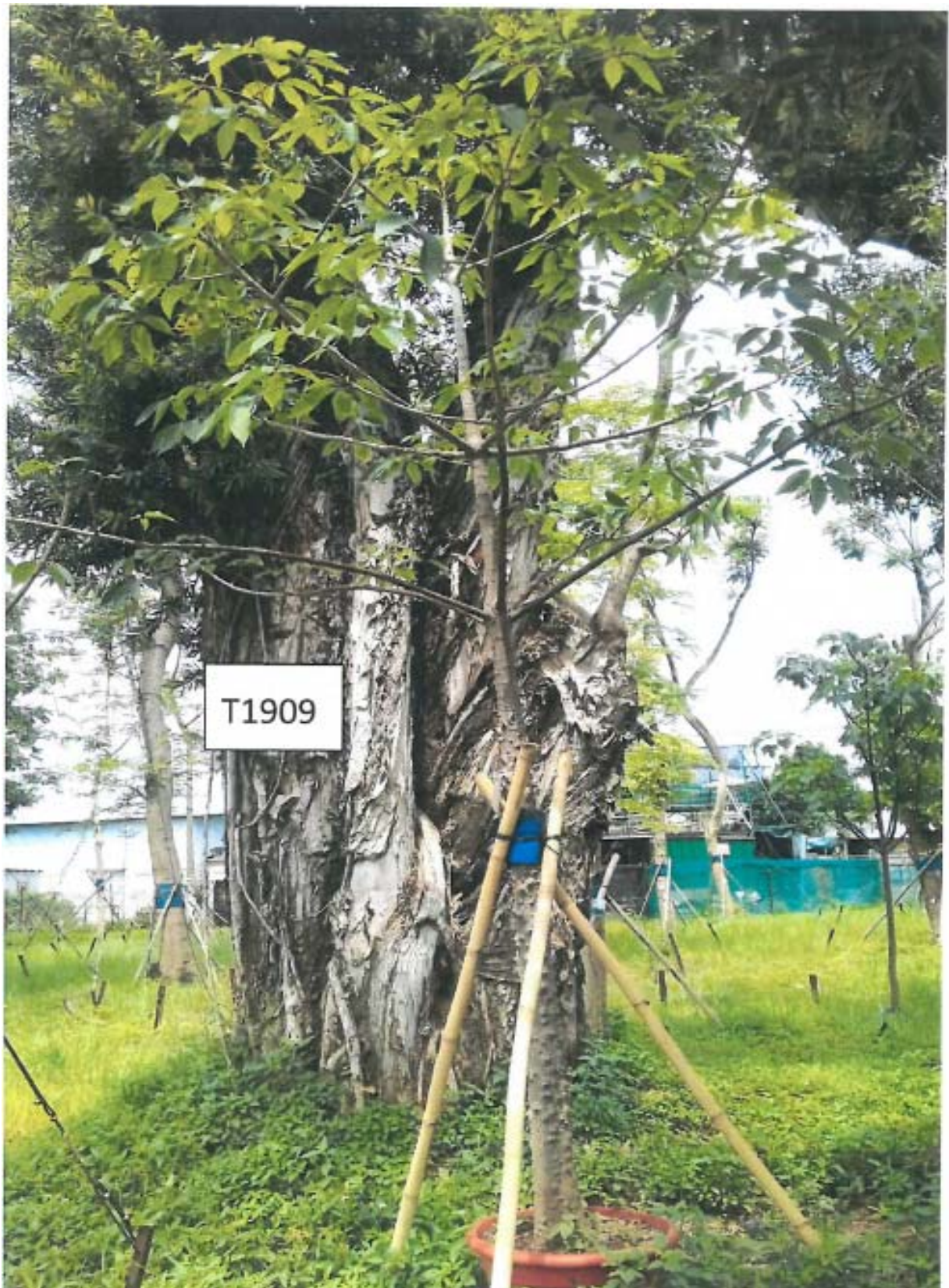






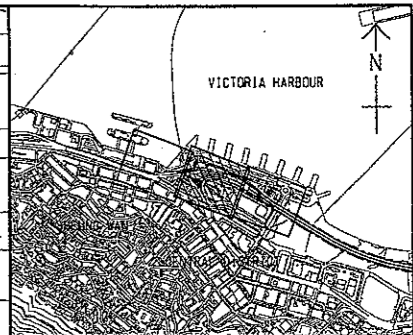
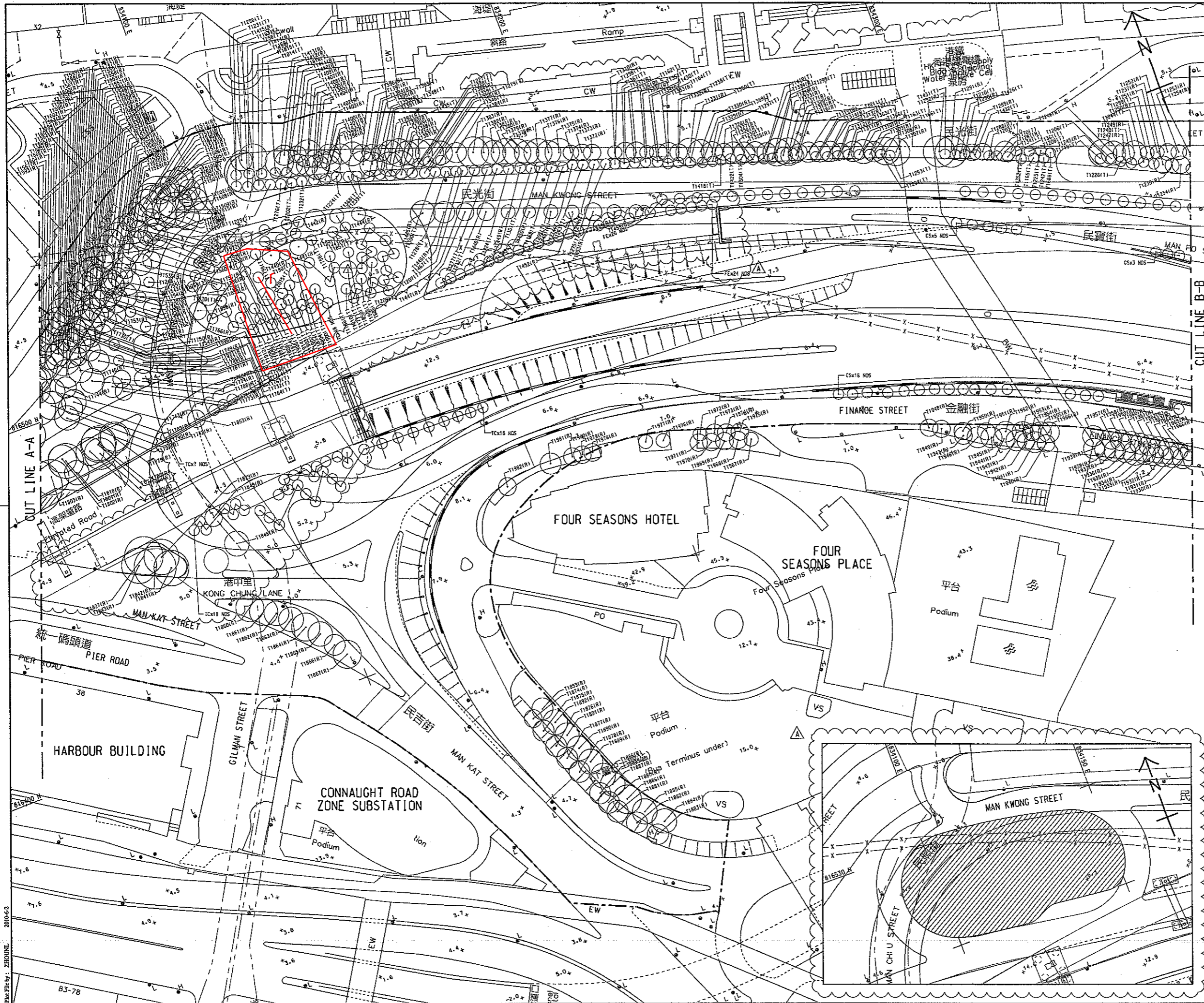


T1910

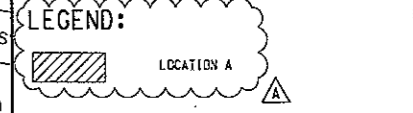




**Appendix I  
Permanent Location of Compensatory  
Trees**



**NOTE:**  
1. FOR NOTES AND LEGEND SEE DRG. NO. 60095653/C1/9011.



B	WORKING DRAWING	APPROVED	BCC	DCT 10
A	TENDER ADDENDUM NO. 1	APPROVED	BCC	JUN 10
-	TENDER DRAWING	APPROVED	BCC	APR 10
REV.	DESCRIPTION	DATE	BY	CHK

Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. **579 TH**  
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS - CENTRAL INTERCHANGE

**TREE PLANTING PLAN**

SHEET 2 OF 3



DRG. NO. **60095653/C1/9012B**  
圖紙編號

DESIGNED BY	VLK	CONTRACT NO.	HY/2009/18	APPROVED BY	CW
DRAWN BY	LHC	STATUS	WORKING DRAWING		
SCALE	A1 1 : 500 A3 1 : 1000	© COPYRIGHT RESERVED			
DIMENSIONS ARE IN	METRES	版權所有			

**Appendix J**  
**Tree Survey Report (Reviewing of**  
**Existing Trees Proposed to be Felled**  
**at Portions 4 and 22)**



15B000278

- 1 DEC 2010  
C30/940**BY HAND**Your Ref. :  
Our Ref. : CWB/(HY/2009/15)/C30/940/15B000278

1 December 2010

Lands Department  
Lands Administration Office  
District Lands Office, Hong Kong East  
19<sup>th</sup> floor, Southorn Centre, 130 Hennessy Road,  
Wan Chai, Hong Kong

Attn.: Mr. Brian M. H. Au Yeung

Dear Sir,

**Contract No. HY/2009/15**  
**Central-Wan Chai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)****Submission of Tree Survey Report - Review of**  
**Existing Trees Proposed to be Felled at Portions IV and XXII**

I am pleased to submit herewith a Tree Survey Report enclosing a thorough condition review of 13 nos. of existing trees, located along the existing eastern breakwater of the Causeway Bay Typhoon Shelter, that need to be transplanted under the above Contract for your perusal and consideration.

Based on a survey carried out recently by my Contractor, China State Construction Engineering Ltd., the report reveals that 11 of the trees will have a very slim chance of survival after transplanting owing to their existing growing condition such as, the root system in rock with sloping topography making root ball preparation difficult which will severely inhibit the trees chances of withstanding the stress of transplanting or in some cases where the existing trees grow at an angle that will have a distorted root structure making them unable to be located upright in any new-level ground location, whilst the remaining 2 nos. of trees are found dead.

In light of the report findings, I am in support of my Contractor's recommendation to fell the 13 nos. of existing trees with compensatory planting as outlined in the report and would be most grateful to your approval of my Contractor's proposal. For ease of reference, Section 5 of the enclosed report presents the proposed compensatory tree planting for the tree felling.

Should you have any queries on this submission, please feel free to contact the undersigned or my Resident Engineer, Ms Fanny Lau, at 6463 3080.

Yours faithfully,  
For and on behalf of  
AECOM Asia Co. Ltd.Denis Norton  
Senior Resident Engineer  
Encl.c.c. CE3/MW, HyD - Attn.: Mr. Kelvin Lo (w/o)  
AECOM - Attn.: Mr. Conrad Ng (w/o)  
See distribution list

**Distribution List**

1. Leisure and Cultural Services Department  
9/F, Lockhart Road Complex,  
225 Hennessy Road,  
Wanchai, Hong Kong  
  
(By hand) (w/e)  
  
Attn.: Mr. Hoo Lam
  
2. Home Affairs Department  
Eastern District Office  
Causeway Bay Liaison Team  
1/F, 7 Fook Yum Road,  
Causeway Bay,  
Hong Kong  
  
(By hand) (w/e)  
  
Attn.: Ms. Grace Chan
  
3. Agriculture, Fisheries and Conservation Department  
7/F, Cheung Sha Wan Government Offices  
303 Cheung Sha Wan Road  
Kowloon, Hong Kong  
  
(By hand) (w/e)  
  
Attn.: Dr. K. H. Cheung

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



## Tree Survey Report

Review of Existing Trees Proposed to be Felled  
at Portion 4 and 22

Date : 26 November 2010

Prepared by :

*David Bloxham Dip La BA (Hons) MLI (UK Chartered)*  
China State Construction Engineering Ltd  
Senior Landscape Architect.

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



## Contents –

1. Tree survey schedule
2. Location plan of existing trees
3. Existing tree photographs
4. Previous experience of successful & practical Tree Transplanting  
(For reference only)
5. Tree survey report on the unfeasibility of successful Transplanting of the  
identified trees



## 1. Tree Survey Schedule

Site Tree survey - November 2010

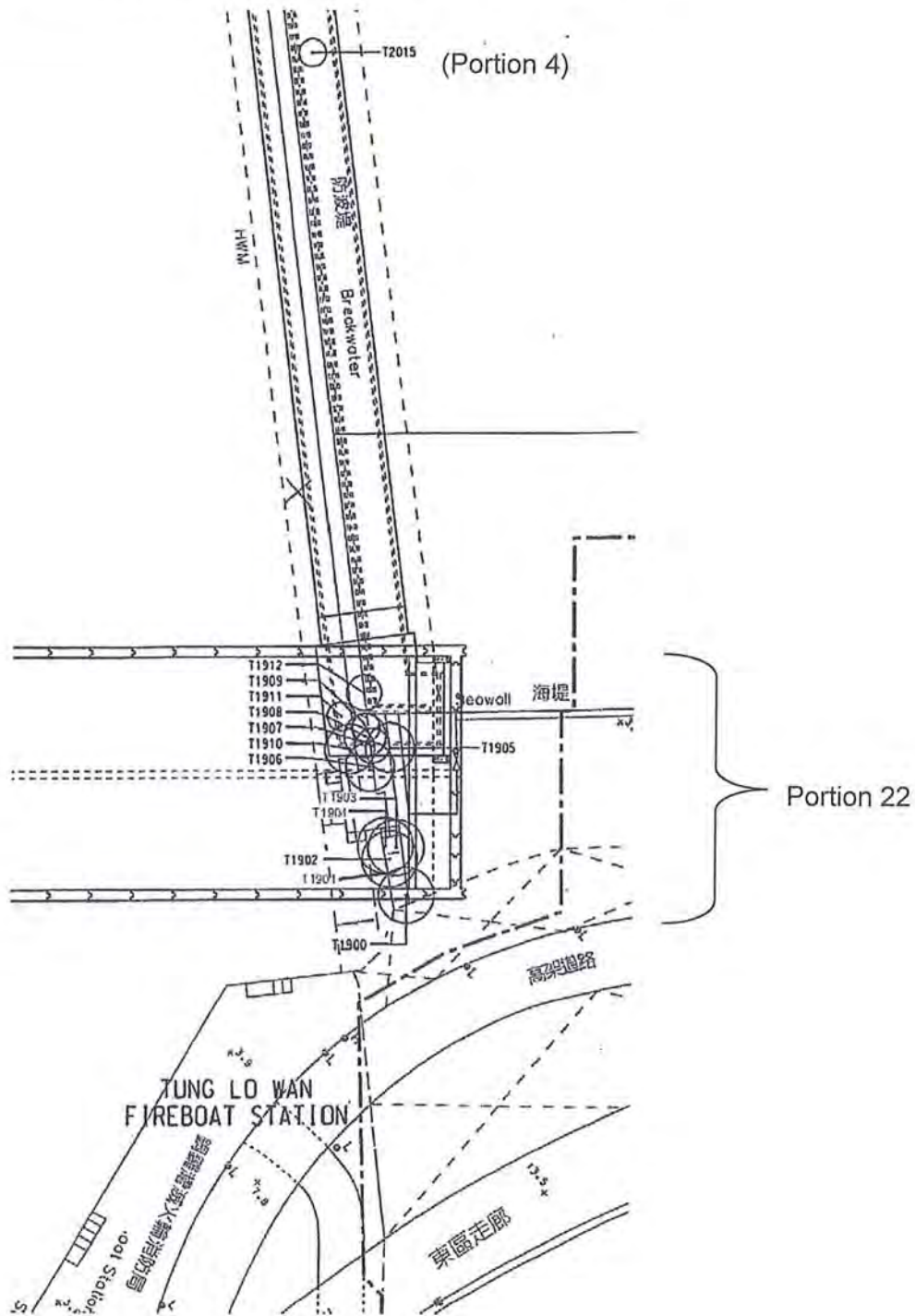
(Read in conjunction with photographic record and attached location plan)

Tree No.	Botanical Name	Chinese Name	Location	Size (m)			Form (G/F/P)	Health (G/F/P)	Amenity Value (H/M/L)	Transplanting Survival Rate (H/M/L)	CSCE Recommendation	Remarks
				Height (m)	Crown Spread (m)	Girth (mm)						
T1900	<i>Ficus virens</i>	大葉榕, 黃葛樹	At Portion 22	8	10	300	F	F	L	L	Fell	Refer to site report
<b>T1901</b>	<b><i>Ficus benjamina</i></b>	<b>垂葉榕</b>	<b>At Portion 22</b>	<b>7</b>	<b>8</b>	<b>382</b>					<b>Fell</b>	<b>Dead Tree</b>
T1902	<i>Ficus benjamina</i>	垂葉榕	At Portion 22	8	10	370	F	F	L	L	Fell	Refer to site report
T1903	<i>Ficus benjamina</i>	垂葉榕	At Portion 22	11	10	360	F	F	L	L	Fell	Refer to site report
T1904	<i>Ficus benjamina</i>	垂葉榕	At Portion 22	11	8	385	F	F	M	L	Fell	Refer to site report
T1905	<i>Macaranga tanarius</i>	血桐	At Portion 22	7	5	330	P	F	L	L	Fell	Crown branches have been damaged by other works
T1906	<i>Celtis sinensis</i>	朴樹	At Portion 22	8.5	6	380	F	F	M	L	Fell	Refer to site report
T1907	<i>Ficus variegata</i>	青果榕	At Portion 22	8	4	190	F	F	L	L	Fell	Refer to site report
T1908	<i>Albizia lebbeck</i>	大葉合歡	At Portion 22	8.5	7	280	F	F	L	L	Fell	Refer to site report
<b>T1909</b>	<b><i>Bombax ceiba</i></b>	<b>木棉</b>	<b>At Portion 22</b>	<b>4.5</b>	<b>0</b>	<b>170</b>					<b>Fell</b>	<b>Dead Tree</b>
T1910	<i>Ficus virens</i>	大葉榕, 黃葛樹	At Portion 22	6	5	600	F	F	L	L	Fell	Refer to site report
T1911	<i>Albizia lebbeck</i>	大葉合歡	At Portion 22	2.5	5	130	P	F	L	L	Fell	Refer to site report
T1912	<i>Ficus benjamina</i>	垂葉榕	At Portion 22	3.5	4	170	P	F	L	L	Fell	Refer to site report
T2015	<i>Ficus microcarpa</i>	榕樹, 細葉榕	At Portion 4	3.5	7	212	F	F	L	L	Fell	Refer to site report





## 2. Location Plan of Existing Trees



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



### 3. Existing Tree Photographs

(a) Tree no. T1900 - *Ficus virens* 大葉榕, 黃葛樹



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Root system distorted due to confined growing space between rock. Preparation of rootball is unfeasible for survival of transplanting

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(b) Tree no. T1901 - Ficus benjamina 垂葉榕



Dead tree

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(c) Tree no. T1902 - *Ficus benjamina* 垂葉榕



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



T1902

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Rootball locates on large boulder at slope and clashing with adjacent roots of trees. Preparation would drastically affect rootball and structural stability

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(d) Tree no. T1903 - Ficus benjamina 垂葉榕





Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Growing on slope area

Root system distorted due to confined growing space between rock. Preparation of rootball is unfeasible for survival of transplanting.

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(e) Tree no. T1904 - Ficus benjamina 垂葉榕



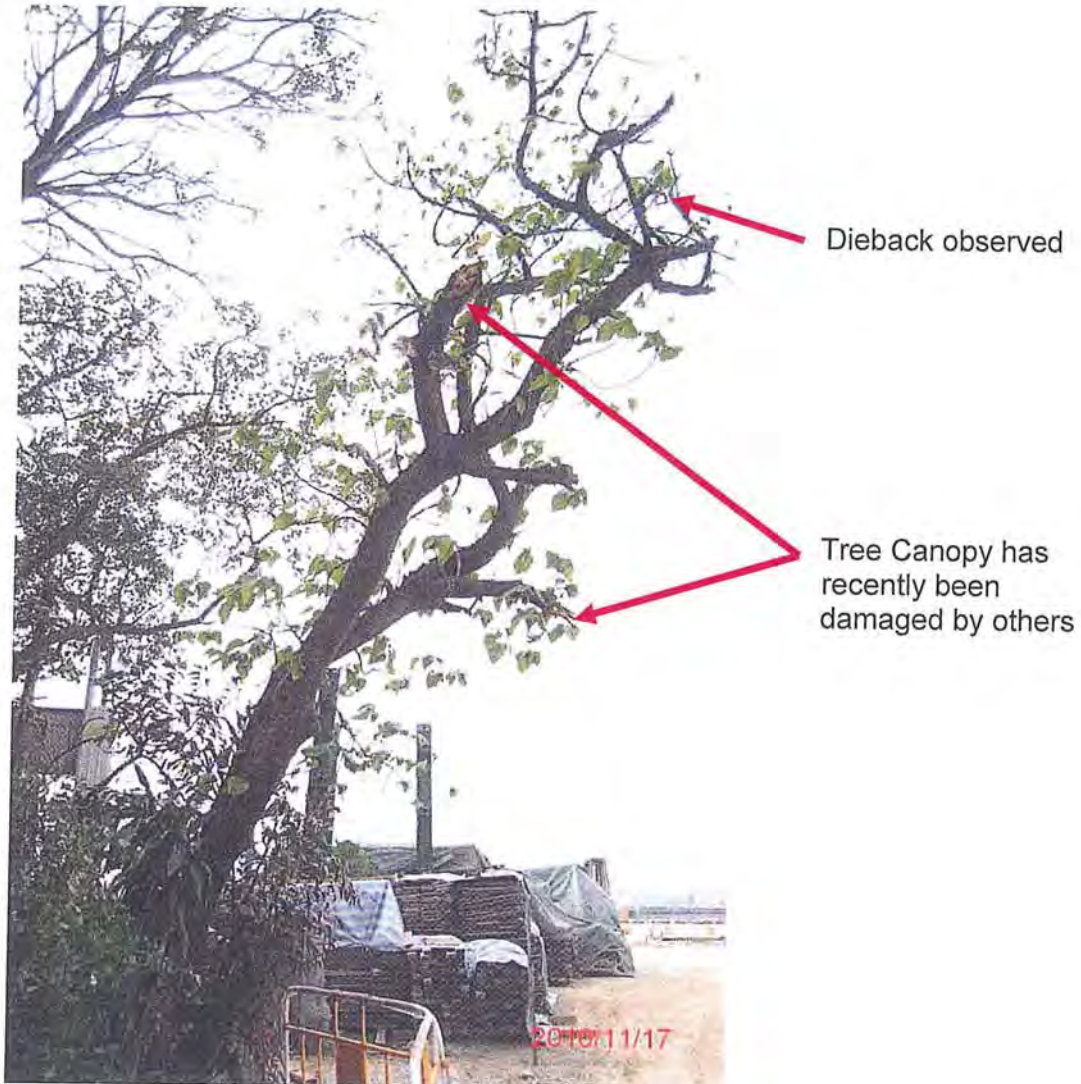
Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Rootball locates on large boulder at slope and clashes with adjacent roots of trees. Preparation would drastically affect rootball and structural stability



(f) Tree no. T1905 - *Macaranga tanarius* 血桐



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(g) Tree no. T1906 - *Celtis sinensis* 朴樹



Tree locates on uneven levels

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Root system distorted due to confined growing space between rock. Preparation of rootball is unfeasible for survival of transplanting

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(h) Tree no. T1907 - *Ficus variegata* 青果榕





Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Root system distorted due to rock.  
Limited root system coverage for stability.

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(i) Tree no. T1908 - Albizia lebbeck 大葉合歡



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Tree is leaning using adjacent steel as support for main canopy

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Rootball locates in rocks.  
Limited area due to rock and adjacent slope profile.  
Root system distorted within ground profile.

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(j) Tree no. T1909 - Bombax ceiba 木棉



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(k) Tree no. T1910 - *Ficus virens* 大葉榕, 黃葛樹



Distored rootball grows in 45 degree rock slope

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(l) Tree no. T1911 - Albizia lebbeck 大葉合歡



Leaning severely within existing rock slope



Rootball distorted due to growth in rock slope gradient



(m) Tree no. T1912 - Ficus benjamina 垂葉榕



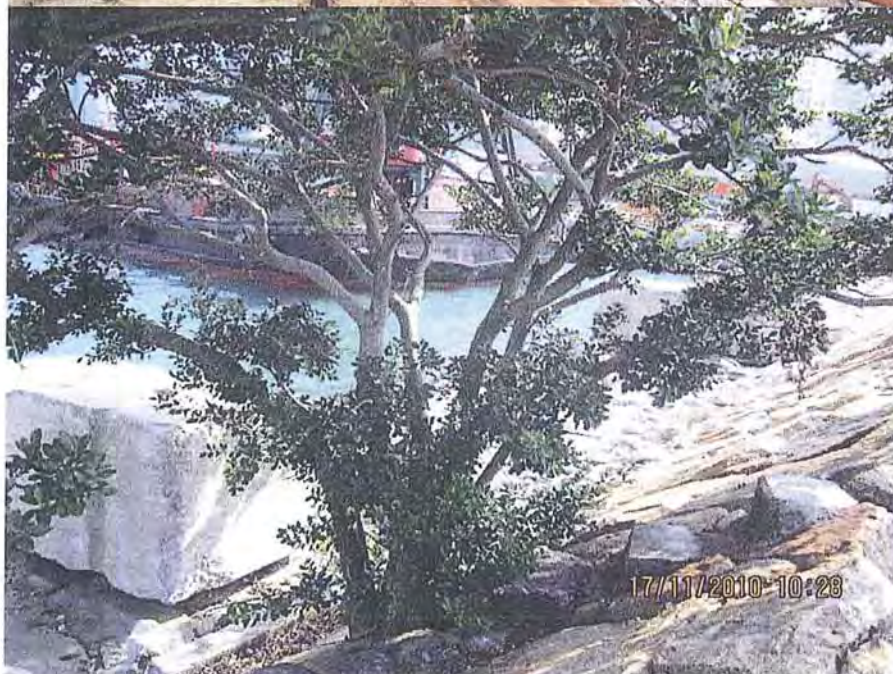
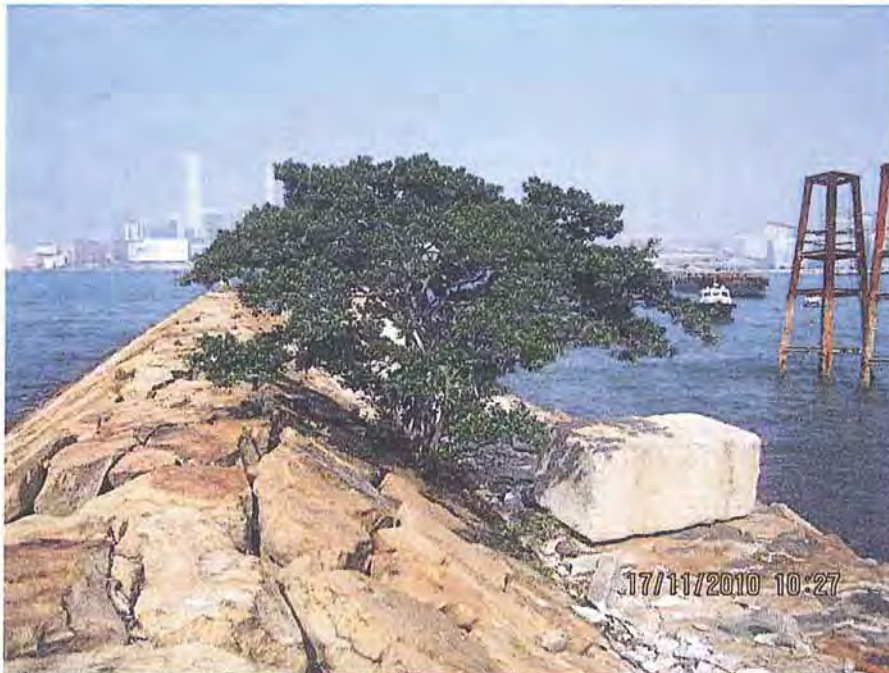
Root system distorted due to confined growing space between rocks.  
Preparation of rootball is unfeasible for survival of transplanting.



Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



(n) Tree no. T2015 - *Ficus microcarpa* 榕樹, 細葉榕



Root system has developed at a 45 degree slope elevation in rocks.  
Root system distorted due to confined growing space between rocks.



#### **4. Previous Experience of Successful and Practical Tree Transplanting**



Transplanting existing *Ficus rumphii* & *Ficus macrophylla* trees from Australia .Pennys Bay Infrastructure



Transplanting trees for Beijing 2008 Olympic Equestrian Event HK Jockey Club



Tree Transplanting works - Wideneing of Tolo Highway NT



## **5. Tree Survey Report**

### Review of existing trees condition and trees proposed to be felled

#### Introduction

This report has been prepared as part of the works for the Central – Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under Highways Department Contract No.: HY/2009/15 at Causeway Bay, Hong Kong.

14 nos. existing trees are proposed to be felled. This tree survey report provides a review of their current up to date site condition as part of the requirements of the General Specification.

Following a site field survey, we have undertaken a detailed review to assess and evaluate the captioned trees and their suitability for transplanting looking at the potential risks for preparation methods to survive transplanting. We also review the timeline process for transplanting twice as stated in the specification.

#### Site and Situation

The existing trees are situated along a narrow strip of existing marine breakwater and an old dilapidated utility building at the eastern boundary of the Causeway Bay Typhoon Shelter in Victoria harbour. The majority of trees are grouped at one main location and a single tree is found towards the northern end of the Breakwater. The Breakwater consists of loose laid large rock boulders installed to form steep sloping sides (approx 45 degree) with a narrow flat profile section at the top of the slope.

There is no evidence of topsoil or that the trees were specifically planned to form part of the breakwater design. It would appear that if soil had been incorporated into the structure that the soil would have been subject to erosion over time due to its function.

The site is open, exposed and receives full sunshine and prevailing winds along the Victoria Harbour. It can be classed as an exposed open low caliber site that has some physical constraints for growth that is eminently conducive to robust tree performance.



### Tree Species

The species identified on site are not rare and are commonly cultivated in Hong Kong and Southern China for botanical and landscape tree planting use. The following botanical species are found to be:

- Albizia lebbbeck 大葉合歡 (Tree no. T1908 and T1911)  
*Native of Africa and Asia that can commonly 15 – 20 meters in height with spreading canopy, stands up to wind moderately well and is tolerant to salt*
- Bombax ceiba 木棉 (Tree no. T 1909)  
*Common to India , Malaysia and South China region that can reach a height of 25 meters with a clear straight central trunk commonly seen on roadsides and flowering in Spring in the New Territories.*
- Celtis sinensis 朴樹 (Tree no. T1906)  
*Growing within Asia that is slow growing and can reach a height of 20 metres . it has a hardy nature that thrives in poor soil conditions and is frequently planted in Hong Kong roadside verges and parks.*
- Ficus benjamina 垂葉榕 (Tree no. T1901, T1902, T1903, T1904 and T1912)  
*Evergreen fig of medium to large size with a fine leaved canopy and smooth bark. Aerial roots develop in mature trees*
- Ficus microcarpa 榕樹, 細葉榕 (Tree no. T2015)  
*Large wide spreading evergreen tree with aerial roots. A popular native tree will grow in almost any site and can be found clinging to rocks, retaining walls and other unlikely locations.*
- Ficus virens sub lanceolata 大葉榕, 黃葛樹 (Tree no. T1900 and T1910)  
*A native tree, slow growing but develops into a large 20 metre high tree requiring plenty of space to develop buttress root system and canopy.*



- *Macaranga tanarius* 血桐 (Tree no. T1905)

*Common fast growing species, often self propagates in woodland planting and seashore in large thickets. Stands up in well in wind conditions*

All the trees identified on site are not found to be of exceptional size for their species or of High Amenity Value. The age of trees are estimated between 10 to 30 years old. From their condition some of the trees are deformed due to growing in between large rocks on a slope exposed to the prevailing winds in the harbour. There are evidence of previous damage has occurred to some of the trees. There is little indication that the trees have undergone any arboricultural maintenance over the past 30 years or are currently having any ongoing reasonable maintenance. 2 nos. of trees are found dead and void of any canopy during initial inspection at handover of the site and *Macaranga tanarius* tree has previously suffered damage to its branches by other Contractor's works.

#### Existing growing conditions

Any transplanting operation will have significant impact on the health and welfare of a tree. When proposing any tree for transplanting, factors regarding the ground conditions and growing habit should be considered to assess the risk viability and survival rate of re-establishment after transplanting to a new location.

One of the fundamental risks during the process will be the loss of root system under any staged root cutting preparation for up rooting to a new site. The physical method of breaking rock to form an intact root ball for transportation will cause damage to the existing limited root system. Once bare roots are exposed they cause stress to the health of the tree. A tree should always be transplanted with an intact root ball of existing soil for any chance of survival.

The existing trees have a poor contorted root system that has primarily developed by attaching to the rocks and crevices within the breakwater with little access to develop in any significant topsoil growing medium. Roots have limited development to certain sides of the tree for their structural support for growing on a slope of rocks and boulders. Any root system will be unbalanced for a root ball preparation.

#### Feasibility assessment for successful Transplanting works

In estimating the feasibility for tree transplanting operations the following issues must be thoroughly investigated to identify the risks of tree survival rates :-



### Form and Health of a Tree

If a tree has an unbalanced form and poor growth it is unlikely to withstand the stress of transplanting. Subsequently following crown thinning works as part of the preparation will further reduce the amenity visual value of the tree

### Root Extent

A tree growing on rocky ground surrounded by large boulders is going to have a distorted root system seriously reducing the physical preparation of preparing a large root ball for transplanting.

### Root ball preparation

Existing site topography needs to be considered, a tree growing in a sloping ground will be unable to be located in an upright position at its final receptor due to its original distorted root formation. Relocating a tree onto a new slope is a potential tree safety hazard to public due to period required for successful new root regeneration for structural stability. Changing the growing form of a tree will cause stress on the trees overall health.

### Conclusion

Based on the existing onsite growing conditions, it is not feasible to transplant the trees successfully because of the root system growth in rock with sloping topography. There will be substantial loss of an already distorted root system. This will inhibit the trees chances to withstand the stress of transplanting.

Any preparation to break out rocks and boulders to form a root ball box will severely affect the trees structural integrity since the trees are located in little or no existing soil. The trees are required to be transplanted more than once. Leaving such trees containerized as root balls in any holding nursery to comply with the programme would also reduce their chance of survival. We therefore have little confidence that the trees can be handed over to another Contract in good condition.

Existing trees growing at an angle will have a distorted root structure making them unable to be located upright in any new level-ground location. Semi-mature trees if transplanted into sloping ground would also pose a long term safety hazard as they will be unbalanced, lacking in root support and liable to fall in inclement weather conditions.

Contract No. HY/2009/15  
Central – Wanchai Bypass - Tunnel  
(Causeway Bay Typhoon Shelter Section)



Based on the evidence collected from the joint site investigation and professional analysis, there is little confidence on the success of transplanting the trees located on the existing Breakwater, we would therefore advise and seek the Engineer's approval to obtain the relevant permission to fell the said trees and procure a quantity of new trees from a Nursery to the Engineer's requirement as a compensation tree planting proposal as part of the works.

#### Compensatory Tree Planting for Tree felling

Subject to approval of tree removal by felling, compensatory planting shall be provided in accordance with the requirements of WBTC 3/2006. This being of a ratio not less than 1:1 in terms of the total numbers of aggregated girth size of compensatory trees shall not be less than that of trees felled.

Compensatory trees =  $3707\text{mm} \div 100\text{mm dbh} = 37 \text{ nos. Heavy Standard Trees}$  based on proposed 12 nos. existing growing trees to be felled based on compensation ratio requirement.

The proposed compensatory trees shall be of minimum Heavy Standard size with girth diameter of 100mm. Actual species shall be confirmed and agreed with Engineer / HyD.

Report of Serious Incidents of Fallen Tree

1. Location of the Incident: At Portion 22
2. Tree No.: T1905
3. Species of Trees: *Macaranga tanarius* 血桐
4. Size of Trees: Height 7m, Crown Spread 5m, DBH 330mm
5. Status: Transplant
6. Date and Time (incident occurred): 24/1/2011, 15:00
7. Nature and Brief Account of the Incident:
  - i. Termite attack
  - ii. Less than 20% of sound wood (xylem) remains. (Refer to appendix A)
8. Follow-up Actions being taken:
  - i. Removed the infected tree
  - ii. Used the registered pesticide to prevent further infection to other trees. (Refer to appendix B)
  - iii. Inspection the other trees to check whether the invasion of termites.
9. Relevant Background Information: recently photos for T1905

Photo taken on 18 Oct 2010





Photo taken on 11 Nov 2010



Photo taken on 10 Dec 2010



Submitted By: Ken Tin (RFOI)  
27/1/2011  
Landscape Team

Appendix A

Photo taken on 25 Jan 2011

Tree No. T1905



**Appendix K**  
**Handover Record**



**中國建築工程(香港)有限公司**  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

香港軒尼詩道一三九號中國海外大廈二十九樓  
29/F, China Overseas Building, 139 Hennessy Road, Hong Kong.  
電話Tel: (852)2823 7888 傳真Fax: (852)2527 6782  
網址: <http://www.csci.com.hk>

Your ref : -  
Our ref : CCW/2002/L/CA1/ALL/ 006142  
Date : 26 October 2015

**Principal Resident Engineer**

AECOM Asia Company Ltd.,  
8/F., Grand Central Plaza, Tower 2,  
138 Shatin Rural Committee Road,  
Sha Tin, New Territories,  
Hong Kong

**By Hand**

**Attn: Mr. Peter Poon**

Dear Sir,

**Contract No. HY/2009/15**

**Central – Wan Chai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)**  
**Existing Trees No. T2013 & T2014 Located at Hong Kong Police Officers' Club**

With reference to the captioned subject, we would like to record that the Police Officers' Club (POC) site was taken over by Contractor for the MTRC Shatin to Central Link (SCL) Contract 1128 on 03 August 2015. Therefore, we should no longer liable to preserve and protect the existing trees no. T2013 & T2014.

Should you have any query, please feel free to contact us.

Yours faithfully,

For and on behalf of

**China State Construction Engineering (Hong Kong) Limited**

  
\_\_\_\_\_  
Andrew Wong  
Contractor's Representative

AW/AM  


Your Ref. :  
Our Ref. : CWB/(HY/2010/08)/C30/940/01/08B011029



08B011029

- 8 NOV 2017

4 November 2017

China State Construction Engineering (Hong Kong) Limited  
29/F China Overseas Building,  
139 Hennessy Road,  
Wan Chai,  
Hong Kong

Attn.: Mr. Thomas Lui

Dear Sir,

**Contract No. HY/2010/08  
Central-Wan Chai Bypass – Tunnel (Slip Road 8 Section)**

**Tree Protection and Preservation of Existing Trees within the Allocated Site Areas**

I refer to my letter ref. no. CWB/(HY/2010/08)/C05/100/08B010804 dated 16 September 2017 and the Engineer's letter ref. CWN:PP:tmk:60095653/C8/C05/200/1032-2017010601T dated 25 September 2017. In accordance with GCC Clause 6(3), I enclose Sketch Nos. 60095653/T2/SK0753 and SK0755 clarifying that there are existing trees which are deemed to be included in the allocated Site Areas.

Please carry out the following works in accordance with G.S. Section 26 and P.S. Section 26:-

1. Preservation and protection of the existing trees within the allocated Site Areas as per enclosed Sketch Nos. 60095653/T2/SK0753 and 60095653/T2/SK0755.

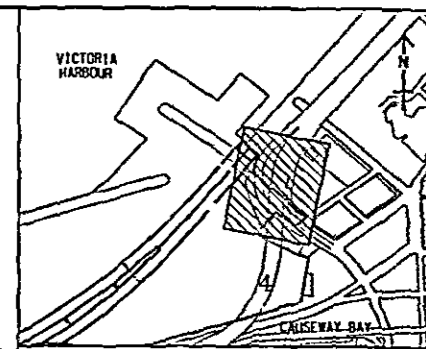
Yours faithfully,  
For and on behalf of  
AECOM Asia Co. Ltd.

Denis Norton  
Engineer's Representative

Encl.

c.c. R10/110  
e.c. AECOM - Attn.: Mr. Raymond Pau

DAN/ISA/EC/gw

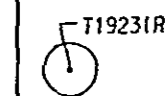


LOCATION PLAN  
SCALE AS 1 : 12500

LEGEND:

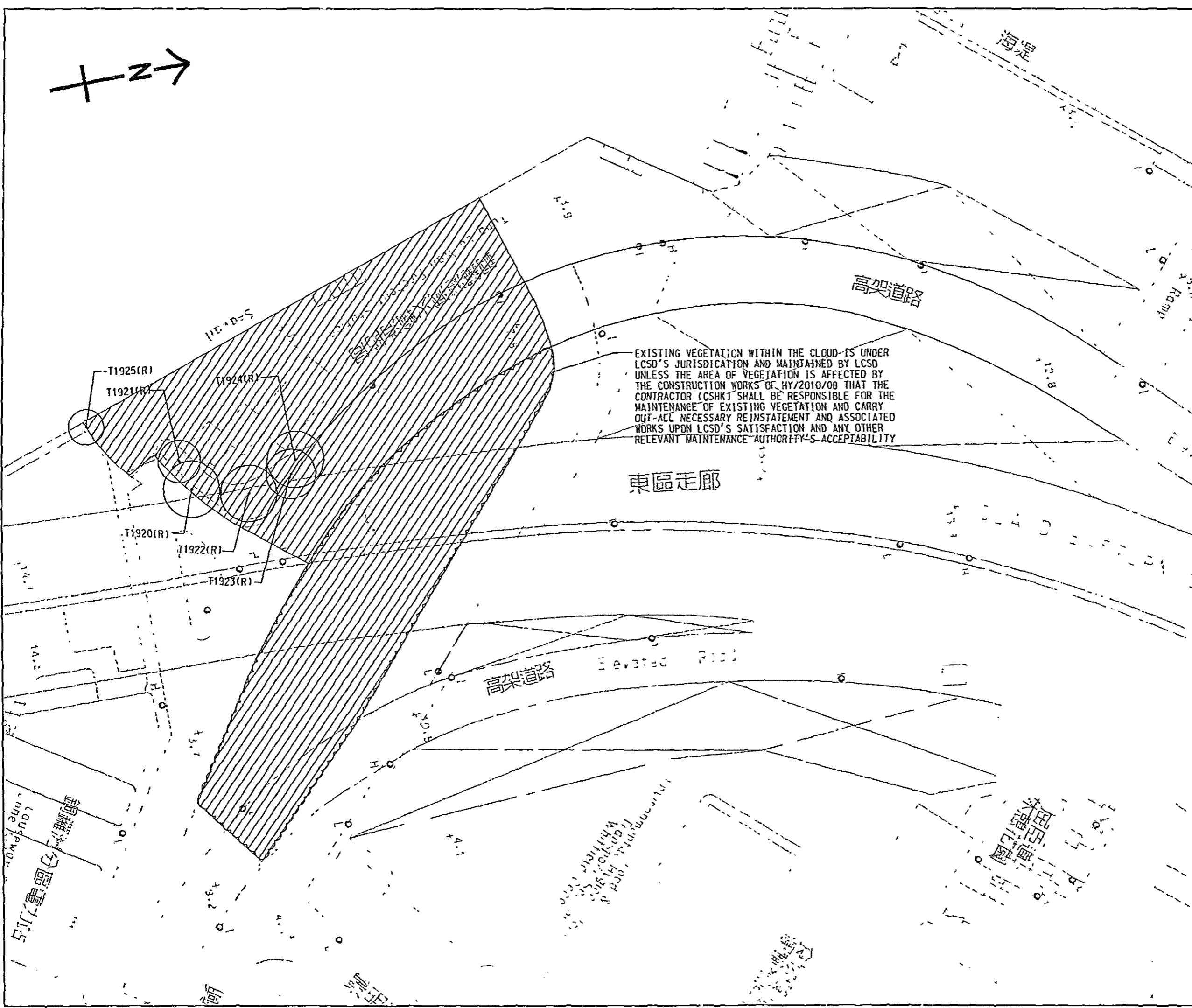


PART OF PORTION VII (HY/2009/15) POSSESSED BY HY/2010/08 CONTRACTOR ON 30 SEPTEMBER 2017



T1923(R) RETAINED TREE TO BE PROTECTED AND PRESERVED BY HY/2010/08 CONTRACTOR

EXISTING VEGETATION WITHIN THE CLOUD IS UNDER LCSD'S JURISDICTION AND MAINTAINED BY LCSD UNLESS THE AREA OF VEGETATION IS AFFECTED BY THE CONSTRUCTION WORKS OF HY/2010/08 THAT THE CONTRACTOR (CSHK) SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF EXISTING VEGETATION AND CARRY OUT ALL NECESSARY REINSTATEMENT AND ASSOCIATED WORKS UPON LCSD'S SATISFACTION AND ANY OTHER RELEVANT MAINTENANCE AUTHORITY'S ACCEPTABILITY



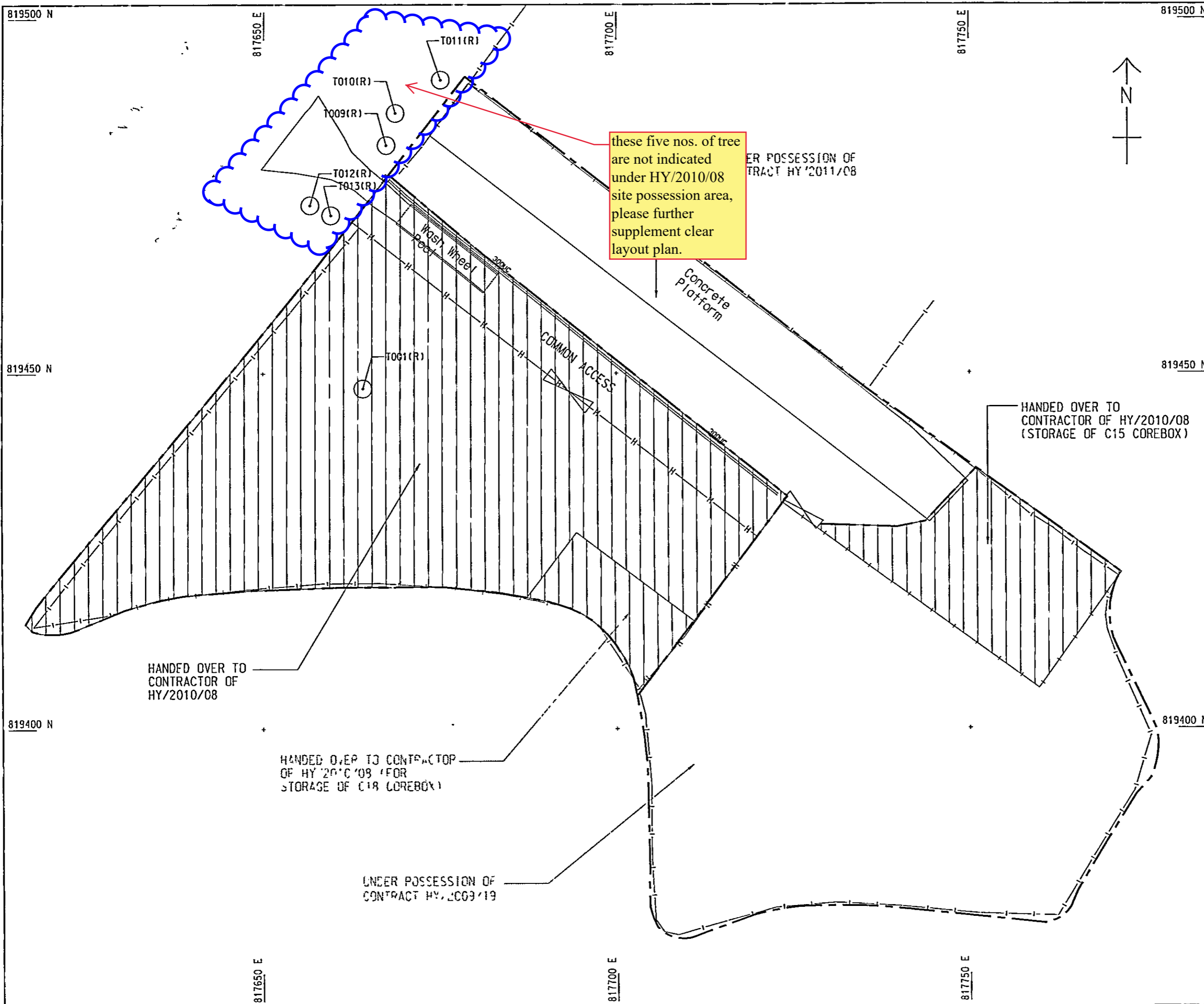
24-10-11	FOR CONSTRUCTION	CPL	YN	TS	
Rev.	Date	Description	Drawn	Prepared	Checked

**AECOM**

CENTRAL - WAN CHAI BYPASS AND IEC LINK  
CONTRACT NO. HY2010/08  
CENTRAL - WAN CHAI BYPASS - TUNNEL  
(SLIP ROAD 8 SECTION)

TITLE:  
TREE PRESERVATION PLAN OF REMAINING AREA PART OF PORTION VII POSSESSED BY HY/2010/08 CONTRACTOR

SKETCH NO. 60095653/T2/SK0753 SCALE 1:500 1/31



these five nos. of tree are not indicated under HY/2010/08 site possession area, please further supplement clear layout plan.

**LEGEND:**

SIU HO WAN WORKS AREA POSSESSED BY HY/2010/08 CONTRACTOR ON 26 JULY 2017

T001(R) RETAINED TREE TO BE PROTECTED AND PRESERVED BY HY/2010/08 CONTRACTOR



Rev.	Date	Description	Drawn	Prepared	Checked
-	27-10-19	FOR CONSTRUCTION	CPL	ON	TS
<b>AECOM</b>					
CENTRAL - WAN CHAI BYPASS AND IEC LINK CONTRACT NO. HY/2010/08 CENTRAL - WAN CHAI BYPASS - TUNNEL (SLIP ROAD 8 SECTION)					
TITLE: TREE PRESERVATION PLAN OF SIU HO WAN WORKS AREA POSSESSED BY HY/2010/08 CONTRACTOR					
SKETCH NO. 60095653/T2/SK0755					SCALE 1:1500 (A3)

**Appendix L  
Letter Detailing HY/2009/15 Site Office  
Handing Over to HY/2010/08**



Your Ref. : CDD/2002/L/GEN/ALL/012474 and ~/013385  
Our Ref. : CWN:PP:ttmk:60095653/C8/C05/200/1032-2017010601T

25 September 2017

China State Construction Engineering (Hong Kong) Limited  
29/F China Overseas Building,  
139 Hennessy Road,  
Wan Chai,  
Hong Kong

RECEIVED  
28 SEP 2017  
BY I012707

Attn.: Mr. Thomas Lui

Dear Sir,

**Contract No. HY/2010/08  
Central-Wan Chai Bypass – Tunnel (Slip Road 8 Section)**

**Site Office Area - Portion VII under Contract No. HY/2009/15**

Your letters ref. CDD/2002/L/GEN/ALL/012474 and ~/013385 dated 24 April 2017 and 14 August 2017 refer.

In your above referred letters, you have requested the allocation of the site office area of Contract HY/2009/15 (Portion VII of the Site under Contract HY/2009/15), for your use for a period of 12 months, giving an undertaking which was confirmed by you as to be not limited to the removal of all temporary structures and to reinstate this site area upon completion.

We confirm that the said area as indicated on Sketch No. 60095653/T2/SK0746 shall form part of the Site under Contract HY/2010/08 pursuant to GCC Clause 1(1) with effect from 30 September 2017 to 30 September 2018.

In consideration of PS Clause 1.50 and the relevant contract provisions, you are reminded that you shall arrange your site office in a nearby office building. As such, upon your occupation and use of this additional area, it shall be subject to a cost saving to the Contract, to be agreed.

Yours faithfully,  
For and on behalf of  
AECOM Asia Co. Ltd.



Conrad Ng  
Executive Director

Encl.

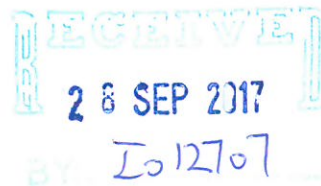
c.c. CE3/MW, HyD - Attn.: Mr. Stephen Wong  
PRE/CWB - Attn.: Mr. Peter Poon  
SRQS-B / RQS-B2

CHINA STATE CONSTRUCTION ENGINEERING (H.K.) LTD	
HY/2010/08 FILE	
	ACT / COPY / SIGN
PD	
SM	
SA	
SCM	
ENGINEER	
ARCHITECT	
ESTIMATOR	
PLANNING	
PROJECT MANAGER	
QUALITY CONTROL	
DESIGN	
CONSTRUCTION	
OPERATION	
SALES	
ADMINISTRATIVE	

Your Ref. : CDD/2002/L/GEN/ALL/012474 and ~/013385  
Our Ref. : CWN:PP:ttmk:60095653/C8/C05/200/1032-2017010601T

25 September 2017

China State Construction Engineering (Hong Kong) Limited  
29/F China Overseas Building,  
139 Hennessy Road,  
Wan Chai,  
Hong Kong



Attn.: Mr. Thomas Lui

Dear Sir,

**Contract No. HY/2010/08  
Central-Wan Chai Bypass – Tunnel (Slip Road 8 Section)**

**Site Office Area - Portion VII under Contract No. HY/2009/15**

Your letters ref. CDD/2002/L/GEN/ALL/012474 and ~/013385 dated 24 April 2017 and 14 August 2017 refer.

In your above referred letters, you have requested the allocation of the site office area of Contract HY/2009/15 (Portion VII of the Site under Contract HY/2009/15), for your use for a period of 12 months, giving an undertaking which was confirmed by you as to be not limited to the removal of all temporary structures and to reinstate this site area upon completion.

We confirm that the said area as indicated on Sketch No. 60095653/T2/SK0746 shall form part of the Site under Contract HY/2010/08 pursuant to GCC Clause 1(1) with effect from 30 September 2017 to 30 September 2018.

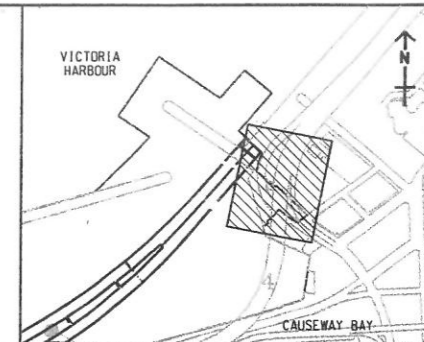
In consideration of PS Clause 1.50 and the relevant contract provisions, you are reminded that you shall arrange your site office in a nearby office building. As such, upon your occupation and use of this additional area, it shall be subject to a cost saving to the Contract, to be agreed.

Yours faithfully,  
For and on behalf of  
AECOM Asia Co. Ltd.

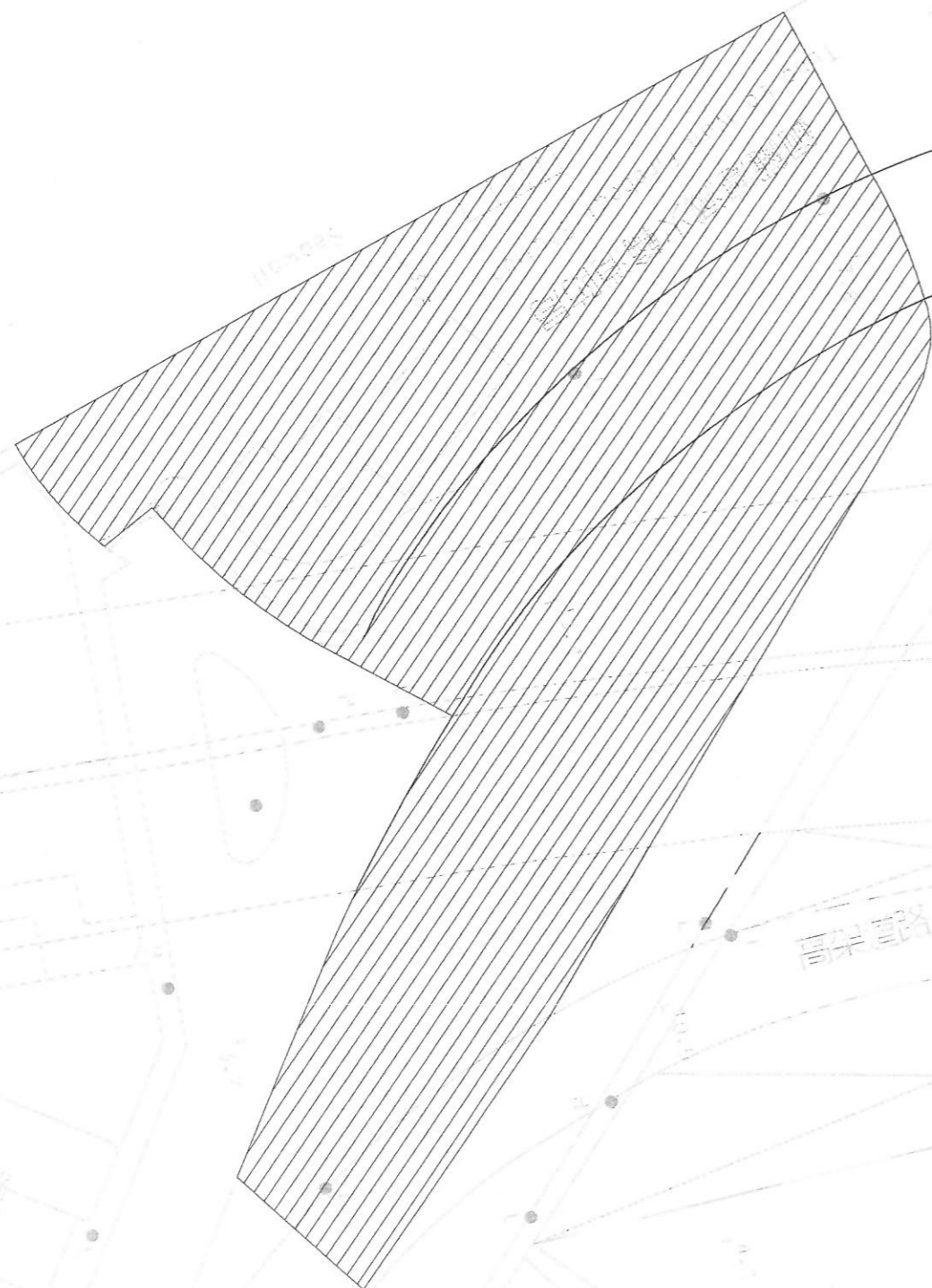
Conrad Ng  
Executive Director

Encl.

c.c. CE3/MW, HyD - Attn.: Mr. Stephen Wong  
PRE/CWB - Attn.: Mr. Peter Poon  
SRQS-B / RQS-B2



LOCATION PLAN  
SCALE A3 1 : 12500



LEGEND:



PART OF PORTION VII (HY/2009/15)  
OCCUPIED BY CSHK

-	22-09-17	FOR INFORMATION	KFC	-	
Rev.	Date	Description	Drawn	Prepared	Checked

**AECOM**

**CENTRAL - WAN CHAI BYPASS AND IEC LINK**  
CONTRACT NO. HY/2010/08  
CENTRAL - WAN CHAI BYPASS - TUNNEL  
(SLIP ROAD 8 SECTION)

TITLE:  
LOCATION PLAN OF REMAINING AREA  
PART OF PORTION VII (HY/2009/15)  
OCCUPIED BY CSHK

SKETCH NO. 60095653/T2/SK0746 SCALE 1:500 (A3)

**Appendix M**  
**Report of Tree Preservation with**  
**Photos of retained trees conducted in**  
**Jan 2021**

**Tree Risk Assessment Form 1 : Tree Group Inspection**  
**樹木風險評估表格1 : 樹群檢查表**

Form 1 Ref. No.: HYD 2020 000-0001-0  
 表格1編號:

**General Information 基本資料**

Dept. / Agency 部門 / 機構:	HyD	Inspection Officer 巡查人員:	Hindley Lau	Post 職位:	Certified Arborist
Project / Contract No. 工程 / 合約編號:	HY2010/08			File Ref. 檔案編號:	
Date of Inspection 巡查日期:	08/01/2021 (dd/mm/yyyy)	Last Inspection Date: 上次巡查日期:	23/12/2019 (dd/mm/yyyy)	Inspection Frequency: 巡查週期:	12 months 個月

**Location Information 位置資料**

Masterzone Ref. 主區編號:		Subzone Ref. 副區編號:	
Location (English) 地點 (英文):	Site office under Island Eastern Corridor	Location (Chinese) 地點 (中文):	東區走廊 工地辦公室
District 地區:	Wan Chai 灣仔區		
Tree Risk Management Zone 樹木風險管理地區類別:	Category I 第一類		
Location Types 地點類別: (multiple selections allowed 可選多於一項)	<input type="checkbox"/> Roadside landscaped area 路旁綠化地區 <input type="checkbox"/> Public park/recreation venue 公園/康樂場地 <input type="checkbox"/> Planter box 花盆 <input type="checkbox"/> Tree pit 樹穴 <input type="checkbox"/> Housing estate 屋邨 <input type="checkbox"/> Central divider 中央分隔帶 <input checked="" type="checkbox"/> Others (please specify) 其他 (請說明): site office		
Nearby Utility Post No. 就近公用設施編號:	48706		

**Tree Information 樹木基本資料**

The size of a tree group should be defined by location types, such as public parks, SIMAR slopes, tree pits, etc. with due consideration given to the limitations of visual tree assessment. 在決定樹群的大小時，應參照地點類別，如公園、系統性維修責任的斜坡、樹穴等，並需考慮目測法的局限。

**(A) Triage Trees and Trees Require Remedial Actions or Form 2 Assessment**  
 分流樹木及需要進行緩減措施 / 表格 2 評估的樹木

TMCP Tree ID 樹木編號	Dept. Tree ID 部門樹木編號	Tree Species 樹種	Estimated Tree Height (m) 大約樹高 (米)	Estimated Crown Spread (m) 大約樹冠闊度 (米)	Tree Status 樹木類別	Overall Tree Conditions 整體樹木狀況	Triage Colour 分流顏色	Remedial Action / Form 2 Assessment 緩減措施 / 表格2評估	Anticipated Completion Date 預計完成日期 (dd/mm/yyyy)	Reference Coordinates of Tree 樹木參考座標	
										X	Y
	T1920	Ficus virens (syn. Ficus virens var. sublancoolata) 大葉榕(黃葛樹)	10.00	10.00	Other Trees 其他樹木	Fair 一般	No 無	Crown thinning 樹冠疏理	31/05/2021	837530.000	816381.000
	T1921	Morus alba 桑	8.00	11.00	Other Trees 其他樹木	Fair 一般	No 無	Crown thinning 樹冠疏理	31/05/2021	837533.000	816384.000
	T1922	Ficus virens (syn. Ficus virens var. sublancoolata) 大葉榕(黃葛樹)	9.00	10.00	Other Trees 其他樹木	Fair 一般	No 無	Crown thinning 樹冠疏理	31/05/2021	837538.000	816388.000
	T1923	Ficus microcarpa 榕樹(細葉榕)	10.00	10.00	Other Trees 其他樹木	Fair 一般	No 無	Crown thinning 樹冠疏理	31/05/2021	837536.000	816394.000
	T1924	Morus alba 桑	9.00	7.00	Other Trees 其他樹木	Fair 一般	No 無	Crown thinning 樹冠疏理	31/05/2021	837534.000	816396.000
	T1925	Ficus virens (syn. Ficus virens var. sublancoolata) 大葉榕(黃葛樹)	9.00	12.00	Other Trees 其他樹木	Fair 一般	No 無	Crown thinning 樹冠疏理	31/05/2021	837524.000	816371.000

Add Rows 增加列

Delete Rows 刪除列

**(B) Other Trees (Non-Triage Trees - trees do not need further actions)**  
 其他樹木 (非分流樹木 - 無需進一步行動的樹木)

Tree Species 樹種	App. Quantity of Trees 大約樹木數量	Range of Tree Height 樹高範圍		Overall Tree Conditions 整體樹木狀況
		From (m) 由 (米)	To (m) 至 (米)	

Add Rows 增加列

Delete Rows 刪除列

**Overall Remarks 整體評語**

No significant defect was found during inspection. The pier may be open to public after the site office removed this year. Follow-up action on T1925 will be considered to be taken. T1920 and T1922 were pruned on the bridge in 2020. Follow-up action on the office side of T1920 and T1922 will be considered to be taken after the site office removed. T1923 and T1924 were pruned on the bridge in 2020. Follow-up action on the office side of T1923 and T1924 will be considered to be taken after the site office removed.

Sub-total No. of Trees in Table (A): (A) 表樹木數量小結:	<b>6</b>	Sub-total No. of Trees in Table (B): (B) 表樹木數量小結:	<b>0</b>	Total No. of Trees (A + B): 樹木總數 (A + B):	<b>6</b>
---	----------	---	----------	---	----------

**Summary of TRIAGE Trees 分流樹木總結**

Black 黑	<b>0</b>	Red 紅	<b>0</b>	Yellow 黃	<b>0</b>	No Triage colour 無	<b>6</b>
---------	----------	-------	----------	----------	----------	--------------------	----------

## Attached Information 附夾資料

Attachment Type	Attachment Name	Description
PHOTO 照片	Photo Form 1 Site Office	
MAP 地圖	Map Site Office	
<a href="#">Add Rows 增加列</a>	<a href="#">Delete Rows 刪除列</a>	

### Declaration 聲明

I, the Inspection Officer for the above TRA Form 1, confirm that I have inspected the tree group(s) at the specified date with due diligence, and the information given in the Form(s) is truly reflecting what I observed on site.

本人作為以上樹群檢查表格1的巡查人員，確認本人已在本表格所列日期，謹慎小心完成有關樹群的檢查，而本表格上填入的資料均真確無訛地反映本人在現場觀察所得。

My academic, professional, training records and work experience met the requirements of Inspection Officer specified in the TRAM Guidelines.

本人的學術、專業、培訓紀錄及相關工作經驗均符合「樹木風險評估及管理安排」指引中對巡查人員的要求。

Name of Inspection Officer:

Hindley Lau

巡查人員姓名

(請以英文正楷書寫)

# (If more than one Inspection Officer involved in the same Tree Group Inspection, each Inspection Officer should submit individual Form 1 containing the trees inspected by him/her. 如多於一位巡查人員負責同一樹群檢查，個別巡查人員應將其檢查的樹木以另一表格1填報。)

Date of Form Completion:

11/01/2021

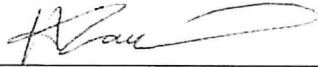
完成表格日期

(dd/mm/yyyy)

(If Form 1 is submitted in paper form 若以文本形式遞交表格1)

Signature of Inspection Officer:

巡查人員簽署：



Contract No.: HY/2010/08  
Central-Wan Chai Bypass - Tunnel (Slip Road 8 Section)  
Form 1 (Site Office) Photo on 8 January 2021



General view (1).JPG



General view (2).JPG



General view (3).JPG



General view (4).JPG

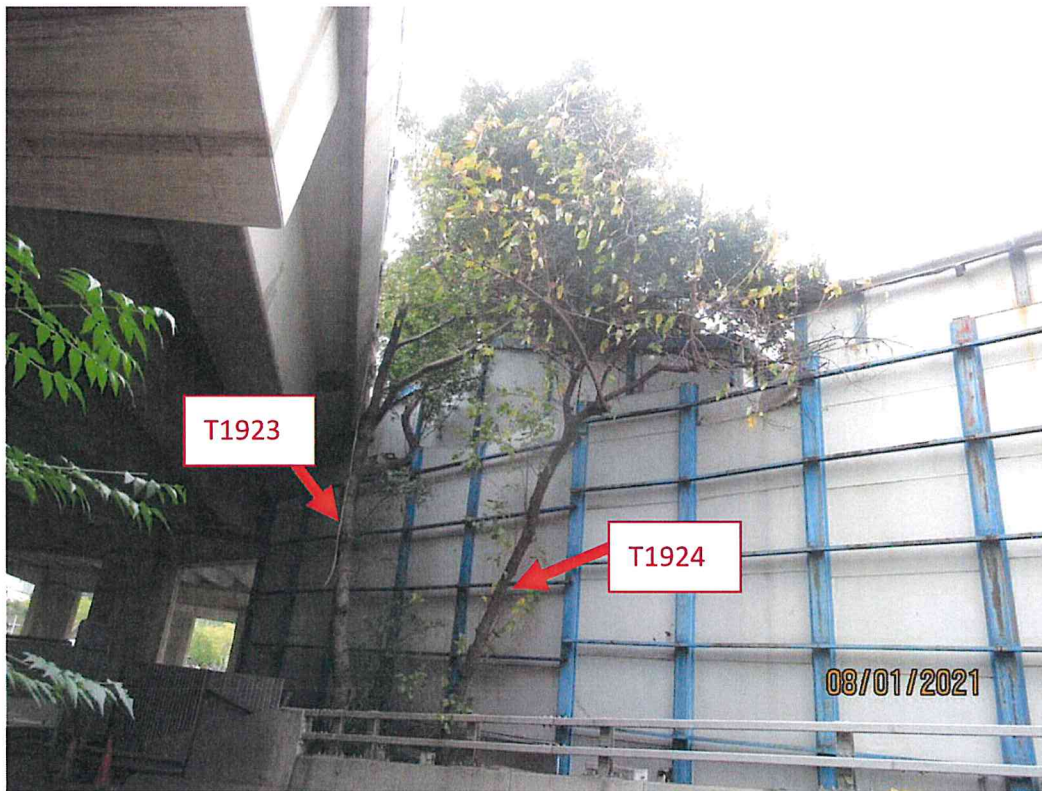


The pier may be open to public after the site office removed this year. Follow-up action on T1925 will be considered to be taken.

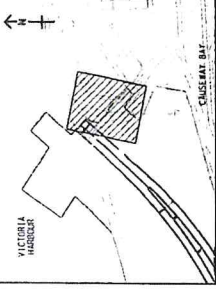


T1920 and T1922 were pruned on the bridge in 2020. Follow-up action on the office side of T1920 and T1922 will be considered to be taken after the site office removed.





T1923 and T1924 were pruned on the bridge in 2020. Follow-up action on the office side of T1923 and T1924 will be considered to be taken after the site office removed.



LEGEND:

▨ PART OF PORTION VII (HY/2009/15) POSSESSED BY HY/2010/08 CONTRACTOR ON 30 SEPTEMBER 2017

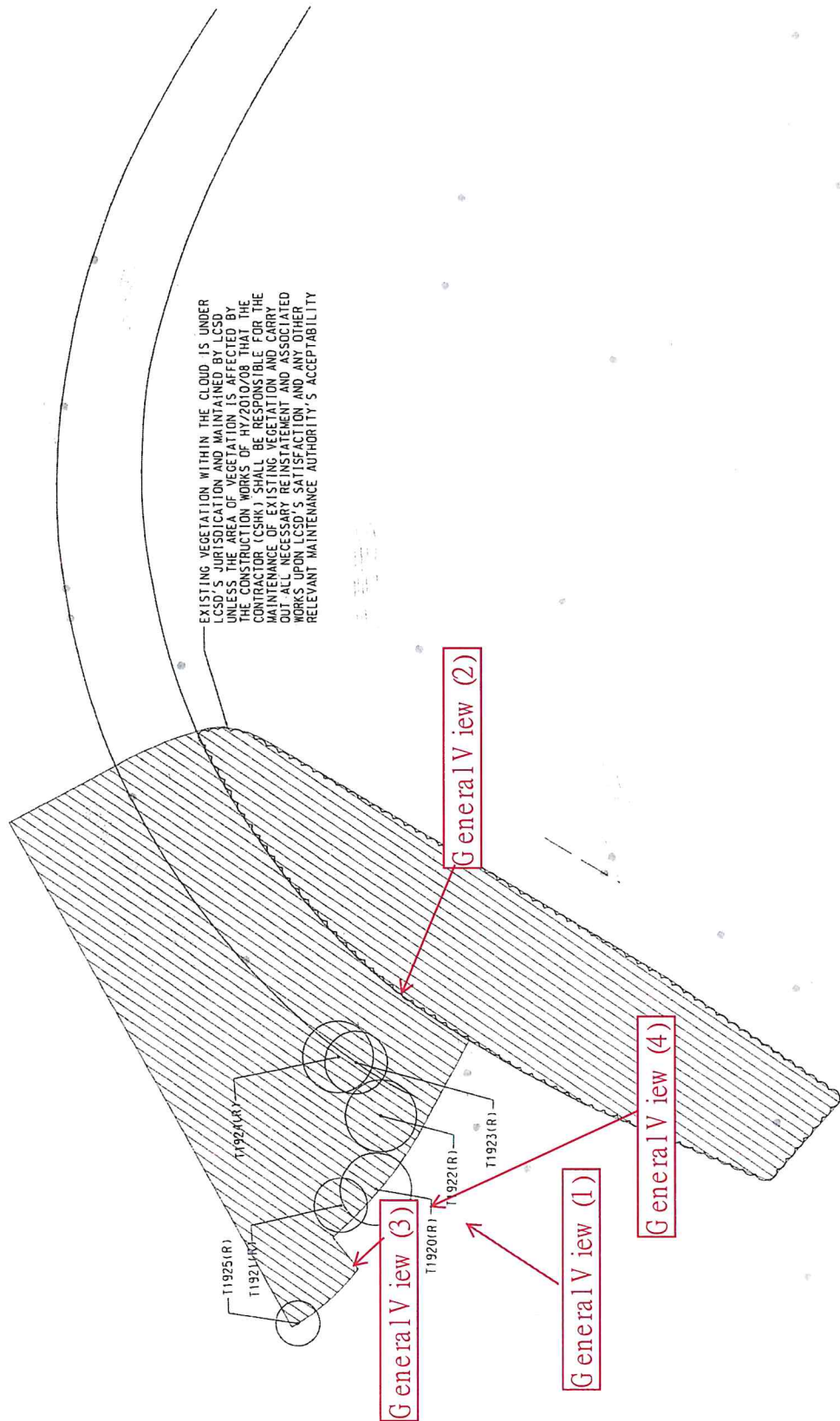
Ⓣ T1923(R) RETAINED TREE TO BE PROTECTED AND PRESERVED BY HY/2010/08 CONTRACTOR

Project No.	60095653/12/SK0753	Scale	1:1,1250
Project Name	Central Wan Chai Bypass	Sheet No.	15
Client	Transport Department	Project Manager	George

**AECOM**

CENTRAL - WAN CHAI BYPASS AND IEG LINK  
CONSTRUCTION AND PRESERVATION OF VEGETATION  
CENTRAL - WAN CHAI BYPASS - TUNNEL  
SUPPLY ROAD SECTION

TITLE  
TREE PRESERVATION PLAN OF REMAINING AREA BY HY/2010/08 CONTRACTOR



EXISTING VEGETATION WITHIN THE CLOUD IS UNDER LCSD'S JURISDICTION AND MAINTAINED BY LCSD. UNLESS THE AREA OF VEGETATION IS AFFECTED BY THE CONSTRUCTION WORKS OF HY/2010/08 THAT THE CONTRACTOR (CSHR) SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF EXISTING VEGETATION AND CARRY OUT ALL NECESSARY REINSTATEMENT AND ASSOCIATED WORKS UPON LCSD'S SATISFACTION AND ANY OTHER RELEVANT MAINTENANCE AUTHORITY'S ACCEPTABILITY

**Tree Risk Assessment Form 1 : Tree Group Inspection**  
**樹木風險評估表格1：樹群檢查表**

Form 1 Ref. No.: HYD 2020 000-0002-0  
 表格1編號:

**General Information 基本資料**

Dept./ Agency 部門 / 機構:	HyD	Inspection Officer 巡查人員:	Hindley Lau	Post 職位:	Certified Arborist
Project / Contract No. 工程 / 合約編號:	HY/2010/08			File Ref. 檔案編號:	
Date of Inspection 巡查日期:	08/01/2021 (dd/mm/yyyy)	Last Inspection Date: 上次巡查日期:	23/12/2019 (dd/mm/yyyy)	Inspection Frequency: 巡查週期:	12 months 個月

**Location Information 位置資料**

Masterzone Ref. 主區編號:		Subzone Ref. 副區編號:			
Location (English) 地點 (英文):	Material storage site, Siu Ho Wan, Lantau Island	Location (Chinese) 地點 (中文):	大嶼山小瀝灣物料儲存地	District 地區:	Islands 離島區
Tree Risk Management Zone 樹木風險管理地區類別:	Category I 第一類				
Location Types 地點類別: (multiple selections allowed 可選多於一項)	<input type="checkbox"/> Roadside landscaped area 路旁綠化地區 <input type="checkbox"/> Public park/recreation venue 公園/康樂場地 <input type="checkbox"/> Planter box 花盆 <input type="checkbox"/> Tree pit 樹穴 <input type="checkbox"/> Housing estate 屋邨 <input type="checkbox"/> Central divider 中央分隔帶 <input checked="" type="checkbox"/> Others (please specify) 其他 (請說明): Material Storage <input type="checkbox"/> Government compound 政府建築物 <input type="checkbox"/> Unleased/unallocated government land 未批租/未撥用的政府土地 <input type="checkbox"/> Recreational site/facility inside country park 郊野公園內康樂用地或設施 <input type="checkbox"/> SIMAR slopes 系統性維修維修責任的斜坡 SIMAR slope ref: <input type="text"/>				
Nearby Utility Post No. 就近公用設施編號:	FB727B				

**Tree Information 樹木基本資料**

The size of a tree group should be defined by location types, such as public parks, SIMAR slopes, tree pits, etc. with due consideration given to the limitations of visual tree assessment.  
 在決定樹群的大小時，應參照地點類別，如公園、系統性維修維修責任的斜坡、樹穴等，並考慮目測法的局限。

**(A) Triage Trees and Trees Require Remedial Actions or Form 2 Assessment**  
 分流樹木及需要進行細減措施 / 表格 2 評估的樹木

TMCP Tree ID 樹木編號	Dept. Tree ID 部門樹木編號	Tree Species 樹種	Estimated Tree Height (m) 大約樹高 (米)	Estimated Crown Spread (m) 大約樹冠闊度 (米)	Tree Status 樹木類別	Overall Tree Conditions 整體樹木狀況	Triage Colour 分流顏色	Remedial Action / Form 2 Assessment 細減措施 / 表格2評估	Anticipated Completion Date 預計完成日期 (dd/mm/yyyy)	Reference Coordinates of Tree 樹木參考座標	
										X	Y
T009		Liquidambar formosana 楓香	10.00	8.00	Other Trees 其他樹木	Fair 一般	No 無	Crown cleaning 清理樹冠 Removal of dead twigs	30/06/2021	817669.000	819488.000
T010		Acacia confusa 台灣相思	10.00	10.00	Other Trees 其他樹木	Fair 一般	No 無	Crown cleaning 清理樹冠 Removal of dead branches	30/06/2021	817665.000	819485.000
T012		Acacia confusa 台灣相思	12.00	13.00	Other Trees 其他樹木	Fair 一般	No 無	Crown reduction 縮減樹冠	30/06/2021	817654.000	819476.000

Add Rows 增加列

Delete Rows 刪除列

**(B) Other Trees (Non-Triage Trees - trees do not need further actions)**  
 其他樹木 (非分流樹木 - 無需進一步行動的樹木)

Tree Species 樹種	App. Quantity of Trees 大約樹木數	Range of Tree Height 樹高範圍		Overall Tree Conditions 整體樹木狀況
		From (m) 由 (米)	To (m) 至 (米)	
Acacia confusa 台灣相思	1	9	9	Fair 一般
Liquidambar formosana 楓香	1	11	11	Fair 一般
Syzygium cumini 無患子(海桐油桐)	1	10	10	Fair 一般

Add Rows 增加列

Delete Rows 刪除列

**Overall Remarks 整體評語**

T009: Minor dead twigs are recommended to be removed.  
 T010: Dead branches are recommended to be removed.  
 T012: Branch reduction away from the traffic is recommended.

Sub-total No. of Trees in Table (A): (A) 表樹木數量小結:	<b>3</b>	Sub-total No. of Trees in Table (B): (B) 表樹木數量小結:	<b>3</b>	Total No. of Trees (A + B): 樹木總數 (A + B):	<b>6</b>
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**Summary of TRIAGE Trees 分流樹木總結**

Black 黑	<b>0</b>	Red 紅	<b>0</b>	Yellow 黃	<b>0</b>	No Triage colour 無	<b>3</b>
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**Attached Information 附夾資料**

Attachment Type	Attachment Name	Description
PHOTO 照片	Photo Form 1 Siu Ho Wan	
MAP 圖則	Map Siu Ho Wan	

Add Rows 增加列

Delete Rows 刪除列

#### Declaration 聲明

I, the Inspection Officer for the above TRA Form 1, confirm that I have inspected the tree group(s) at the specified date with due diligence, and the information given in the Form(s) is truly reflecting what I observed on site.

本人作為以上樹群檢查表格1的巡查人員，確認本人已在本表格所列日期，謹慎小心完成有關樹群的檢查，而本表格上填入的資料均真確無訛地反映本人在現場觀察所得。

My academic, professional, training records and work experience met the requirements of Inspection Officer specified in the TRAM Guidelines.

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Name of Inspection Officer:

Hindley Lau

巡查人員姓名

(請以英文正楷書寫)

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Date of Form Completion:

11/01/2021

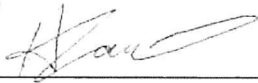
完成表格日期

(dd/mm/yyyy)

(If Form 1 is submitted in paper form 若以文本形式遞交表格1)

Signature of Inspection Officer:

巡查人員簽署：



Contract No.: HY/2010/08  
Central-Wan Chai Bypass - Tunnel (Slip Road 8 Section)  
Form 1 (Siu Ho Wan) Photo on 8 January 2021



General view (1).JPG



General View (2).JPG



General view (3).JPG



General view (4).JPG



T009: Minor dead twigs are recommended to be removed.



T010: Dead branch is recommended to be removed.





T10: Dead branches are recommended to be removed.



T012: Branch reduction away from the traffic is recommended.

**LEGEND:**

 SIU HO WAN WORKS AREA POSSESSED BY HY/2010/08 CONTRACTOR ON 26 JULY 2017  
 T001(R) RETAINED TREE TO BE PROTECTED AND PRESERVED BY HY/2010/08 CONTRACTOR

Rev	Date	Description	Prepared	Checked
1	15/07/15	FOR CONSTRUCTION	CPJ	DN

**AECOM**

**CENTRAL - WAN CHAI BYPASS AND BE LINK**  
 CONTRACT NO: HY/2010/08  
 CENTRAL - WAN CHAI BYPASS TUNNEL  
 (SLIP ROAD SECTION)

TITLE: TREE PRESERVATION PLAN OF SIU HO WAN WORKS AREA POSSESSED BY HY/2010/08 CONTRACTOR

SKETCH NO: 60095653/12/SK0155

