

Ref	Comments	Responses
Comments from EPD		
1	Please be advised that ETWB TC(W) No.3/2006 has been superseded by DEVB TC(W) No. 10/2013. Please update all the references in the submission.	Section 9 & 10 have been updated.
2	Details of the compensatory tree planting for the 4 dead trees, T1905, T1906, T1907 and T1909, such as proposed species, sizes, quantity and future locations, according to the requirements as stipulated in DEVB TC (W) No. 10/2013 should be included in the Landscape Plan.	<p>Section 8 &amp; 10 has been revised.</p> <p>Please be informed that trees T1906 and T1907 will be compensated in accordance with the requirement as stipulated in DEVB TC(W) No. 10/2013 and the proposed species, sizes, quantity and future locations will be included in the Landscape Plan. For details, please refer to Table 1 of the revised Landscape Plan.</p> <p>An initial tree survey was carried out in November 2010 upon handover of the site, Tree T1909 and T1905 were found dead and damaged respectively. The condition of the trees was reported to LandsD and these trees were proposed to be felled in December 2010, please refer to the attached letter. Tree T1905 was subsequently fell down on 24 January 2011 and the incident was due to termite attack which resulted in less than 20% of sound wood remains. The incident report prepared by the Engineer's Representative is also attached for easy reference. As the death of the trees was not caused by the works, we consider that compensation for the dead trees T1905 and T1909 was not required.</p>
3	It is noted that all the tree record photos were taken on 10.10.2013 which are outdated. More recent tree record photos should be provided instead.	Appendix H & I has been updated.



**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

Prepared by:	Esther Choi		20/1/2015
	Environmental Supervisor	Signature	Date
Checked by	Andy Mak		20/1/2015
	Environmental Officer	Signature	Date
Approved by:	Gene Cheung		20/1/2015
	Contractor's Representative	Signature	Date



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Appendix I	Transplanted Trees Inspection Record with photos of transplanted trees
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## 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/A and Condition 2.10 of Further Environmental Permit No. FEP-06/364/2009/A.

## 2. Master Green 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)

EIA Report Ref.	Environmental Protection Measures/ Mitigation Measures	Location /Timing	Implementation Agency	Relevant Legislation and Guidelines	Referring Section in this Plan
Table 10.5	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	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	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	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	CM5 Control of night-time lighting.	Work site / During Construction Phase	CEDD/HyD's Contractor	EIAO TM	Section 11
Table 10.5	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 7.4	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 protective 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 H. 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 T1909 and T1905 were found dead in November 2010 and in January 2011 respectively before any works had been carried out in the initial stage of the project. The remaining 11 trees were transplanted to the temporary holding nursery in Tai Po Lam Tsuen

on 11 May 2011. As agreed with the Engineer's Representative, CSHK is not responsible for the compensation for the dead trees T1905 and T1909.

During the holding period, two trees T1906 and T1907 were confirmed dead in November 2011 at the temporary hold nursery and removed/disposed in December 2012. On 16 January 2013, the temporary holding nursery was moved from Lam Tsuen to Lau Fau Shan to which the 11 trees, excluding T1906 and T1907, were transplanted. Appendix F presents the tree schedule for all transplanted trees. A Transplanted Trees Inspection Record with photos of transplanted trees is included in Appendix I. 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 transplanted to Central Interchange by Central-Wan Chai Bypass – Central Interchange (CWB(CI)). The final permanent locations of the transplanted trees will be determined by CWB(CI). The corresponding planting plans are included in the landscape plan under CWB(CI). Referring to the planting plans under CWB(CI), all the transplanted trees under CWB(T1), eleven in total (including tree numbers T1900, T1902, T1903, T1904, T1906, T1907, T1908, T1910, T1911, T1912 and T2015), shall be handled by CWB(CI). Further information and details shall be supplemented after the interface meeting for the permanent tree transplanting works.

## **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. As both T1906 and T1907 are not EIA identified trees, the compensation of the felled trees would be handled according to the Contract and DEVB TC(W)No.10/2013.

## **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.10/2013. 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 1 for details.) Compensatory trees will be planted in our holding nursery and will be transplanted to Central Interchange by Central-Wan Chai Bypass – Central Interchange (CWB(CI)). Please refer to Appendix J for the permanent location.

**Table 1**

Tree No.	Botanical Name	Chinese Name	Size	Quantity
T1906	Celtis sinensis	朴樹	75mm= $\leq$ DBH= $\leq$ 150mm	1
T1907	Ficus variegata	青果榕	75mm= $\leq$ DBH= $\leq$ 150mm	1

## 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**

Tree planting adjacent to the Police Officer's Club (identified as DLA17) car park boundary (within site boundary) shall be screened to mitigate source of landscape impact from the construction of tunnel portal.

# 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 Trees

## Appendix E

### Tree Schedule for Retained Trees

## Appendix F

### Tree Schedule for Transplanted Trees

## Appendix G

### Transplanted Trees in Holding Nursery - Report of Dead Trees T1906 and T1907

## Appendix H

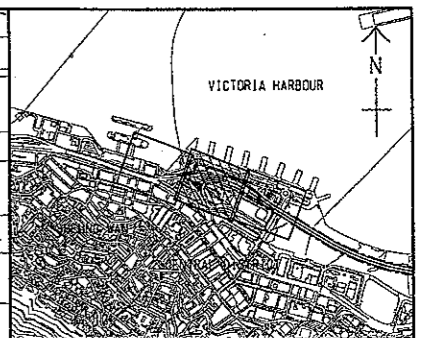
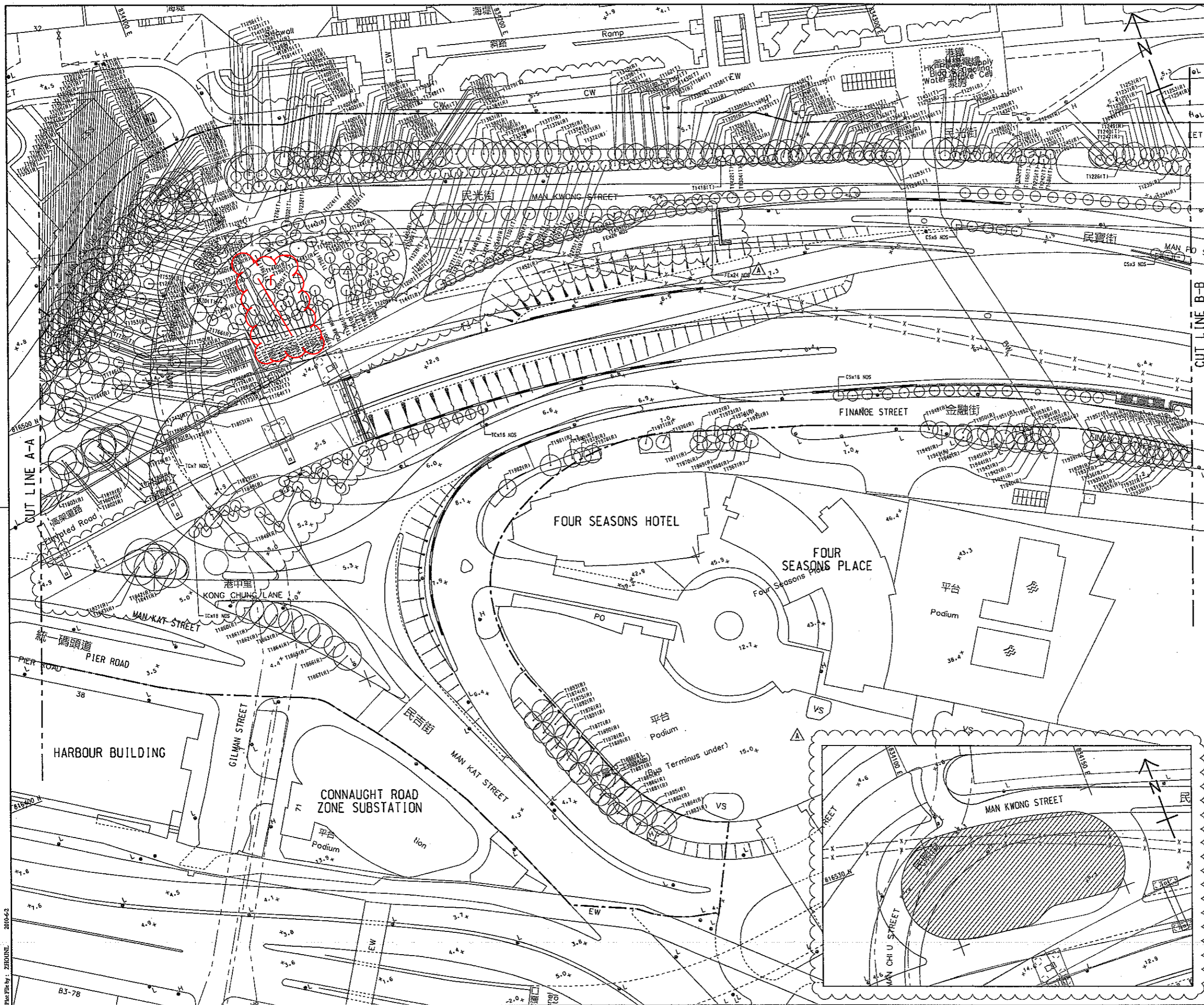
# Report of Tree Preservation and Protection Plan with photos of retained trees

## Appendix I

### Transplanted Trees Inspection Record with photos of transplanted trees

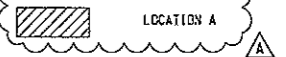
## Appendix J

### Permanent Location of Dead Trees T1906 & T1907



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

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

**LEGEND:**  
 LOCATION A

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	DATE

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

**AECOM**

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 : 5000 A3 : 10000	© COPYRIGHT RESERVED			
DIMENSIONS ARE IN	METRES	版權所有			

2010-6-2