

LEIGHTON
禮頓



Contract No. HY/2009/18
Central – Wan Chai Bypass – Central Interchange

Landscape Plan

Prepared by:

Donald Ip
Environmental Engineer

Approved by:

Desmond Sze
Site Agent

About this Document

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Revision History and Plan Approval

Revision	Date	Prepared by:	Approved by:	Updated Sections
00	03 Dec 10	Anfernee Chow	Brian Gillon	-
01	24 Dec 10	Anfernee Chow	Brian Gillon	Introduction, Parts A2, C1, D & Appendices
02	15 Jan 11	Anfernee Chow	Brian Gillon	Introduction, Part A2
03	23 May 11	Anfernee Chow	Brian Gillon	Revised according to EPD's initial observations
04	28 Jul 11	Anfernee Chow	Brian Gillon	Revised according to ETL's and IEC's comments
05	12 Mar 12	Anfernee Chow	Brian Gillon	Part C, Appendix J
06	24 Mar 14	Donald Ip	Desmond Sze	Introduction, Part A, Part D, Appendix K, L, M, N

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Introduction

The purpose of this Landscape Plan is to fulfil the Condition 2.10 under Environmental Permit number: FEP-05/364/2009/A.

This Landscape Plan shows the details, locations, implementation programme, maintenance and management schedules, and drawings of the landscape and visual mitigation measures for mitigation of the landscape and visual impact arising from the construction of the Central-Wan Chai Bypass – Central Interchange Project. Layout plans showing the site boundary and locations of the sensitive receivers are attached in Appendix A.

The Figure 7.5 in Appendix A was extracted from the Central – Wan Chai Bypass and IEC Link EIA Report (Register No.: AEIAR-041/2001) (EIA Report) and the locations of key visual sensitive receivers refer to Table 7.4 of the EIA Report for summary of visual impact assessment – impacts on visual receivers.

It is identified that VSR numbers 1-26, 28-29, 78-85 and 98-99 would be the key visual sensitive receivers related to this Project.

With reference to the Urban Design Study for the New Central Harbourfront (UDS) and the Master Greening Plan (MGP), it is noted that the development in the UDS area might require associated transplanting to be addressed in the future. However, the development works in the UDS area and the associated MGP is not covered in the project scope of HY/2009/18.

The operational phase mitigation measures as mentioned in EIA Reports, will not be carried out under this contract. The permanent landscape works covered under this contract are included in the Appendices E, F & G in this Plan.

Part A – Landscape Works

1. Soil Mix

- 1.1. New soil mix shall be used for new planting areas.
- 1.2. Soil mix shall be tested by HOKLAS accredited laboratory and submitted to the Engineer's Representative for approval before installation.
- 1.3. Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical.

2. Tree Preservation, Transplanting, Felling and Planting

- 2.1. Initial tree survey was carried out before the commencement of major works of the Project and the tree survey report with schedules and photos was submitted to the Engineer's Representative for approval.
- 2.2. 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.
- 2.3. Tree inspection would be carried out bi-monthly for retained trees and reports would be submitted to the Engineer's Representative.
- 2.4. The method statement for tree preservation and protection is attached in *Appendix B*.
- 2.5. The tree preservation, transplanting and felling plans for the Project are attached in *Appendix C*.
- 2.6. The existing trees which are recommended for transplanting in situation that the final location would be available before the construction works would be relocated directly to the receptor site.
- 2.7. The existing trees which are recommended for transplanting in situation that the final location would be available after the construction works would be relocated to suitable nursery approved by the Engineer's Representative.
- 2.8. Tree inspection would be carried out bi-monthly for transplanting trees and reports would be submitted to the Engineer's Representative.
- 2.9. Tree progress report and Tree Preservation Report would be submitted to the Planning Department directly by the Contractor on bi-monthly basis.
- 2.10. The method statement for tree transplanting is attached in *Appendix D*.
- 2.11. The tree planting plans for the Project are attached in *Appendix E*.
- 2.12. The shrub planting plans for the Project are attached in *Appendix F*.
- 2.13. The hard landscape sections and details are attached in *Appendix G*.
- 2.14. In order to facilitate the construction of Elevated Lay-by at Man Po Street, some trees near the Elevated Lay-by construction area have to be felled or transplanted to allow access for works, tree felling approval from DLO is attached in Appendix K, the compensatory plan, tree preservation and protection plan are attached in Appendix L.
- 2.15. In case of additional 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.

Part B – Hoarding

1. Screen Hoarding

- 1.1. Screen hoarding with height of at least 2m shall be erected in stages according to the procession of site area and progress of the Works.
- 1.2. The hoarding plans (in stages) for the Project are attached in *Appendix H*.

2. Hoarding Surface Treatment

- 2.1. Surface treatment suitable to the urban context shall be applied to the screen hoarding.
- 2.2. The surface treatment figures are attached in *Appendix I*.

Part C – Control of Night Lighting

1. Night Lighting Arrangement

- 1.1. Any night-time works required would be carefully planned to minimise the amount of unnatural lighting.
- 1.2. The usage of lighting equipments would be minimised, assessment would be conducted carefully to evaluate the necessity basing on the work tasks.
- 1.3. The lighting equipments shall be directed to the site area and controlled to divert from adjoining residential and hotel development.
- 1.4. The layout and alignment of construction activities would be carefully planned to reduce the lighting impact.

2. On-site Supervision

- 2.1. During night-time works, the lighting impact would be monitored, assessed and controlled by designated site supervision staff.
- 2.2. Upon receipt of any public concerns and/or complaints, the lighting equipments would be repositioned, shielded, redirected, dimmed and/or lowered where necessary.

Part D – Implementation Programme, Maintenance and Management Schedule

1. Implementation Programme

- 1.1. Under the Contract HY/2009/18, no tree was highlighted in the EIA reports (AEIAR-041/2001 and AEIAR-125/2008). Therefore, all trees under the Contract HY/2009/18 will be maintained and managed under contract requirements and mitigation measures listed in the below table.
- 1.2. Under the Contract HY/2009/18 PS Clause 1.114, trees temporarily stored at CWB(T1) Contract’s holding nursery will be transplanted to Central Interchange. The transplanting works will be carried out by the CWB(CI) Contractor from the temporary holding nursery to permanent locations within the Site as indicated in the planting plan.

Item	Mitigation Measures	Location / Timing
A1.	Approved new soil-mix for new planting areas.	New planting areas / Entire construction period.
A2.	Retention and protection of existing trees where feasible and transplanting of trees those are in conflict with the road works (where practical). All in accordance with the tree preservation, transplanting and felling plans.	Entire works area / Entire construction period. (tree protection and transplanting to be carried in stages to suit the programme of the works)
B.	Screen hoarding to be installed, where appropriate, with surface treatment suitable to the urban context.	Entire works area / Entire construction period. (hoarding erection to be carried in stages to suit the programme of the works)
C.	Control of night time lighting.	Entire works area / Entire construction period.

The above mitigation measures are in compliance with relevant requirements in EIA Reports.

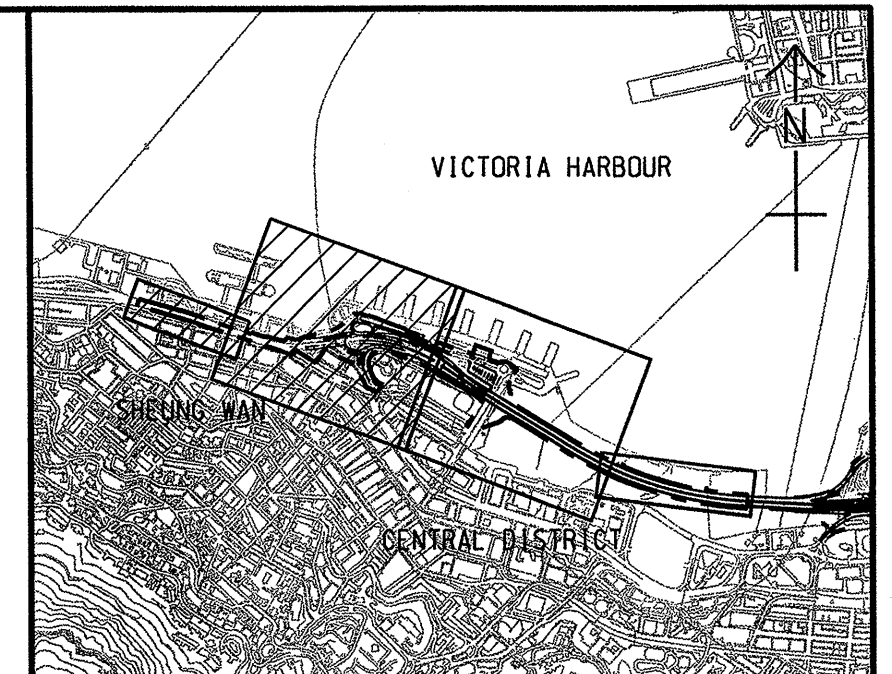
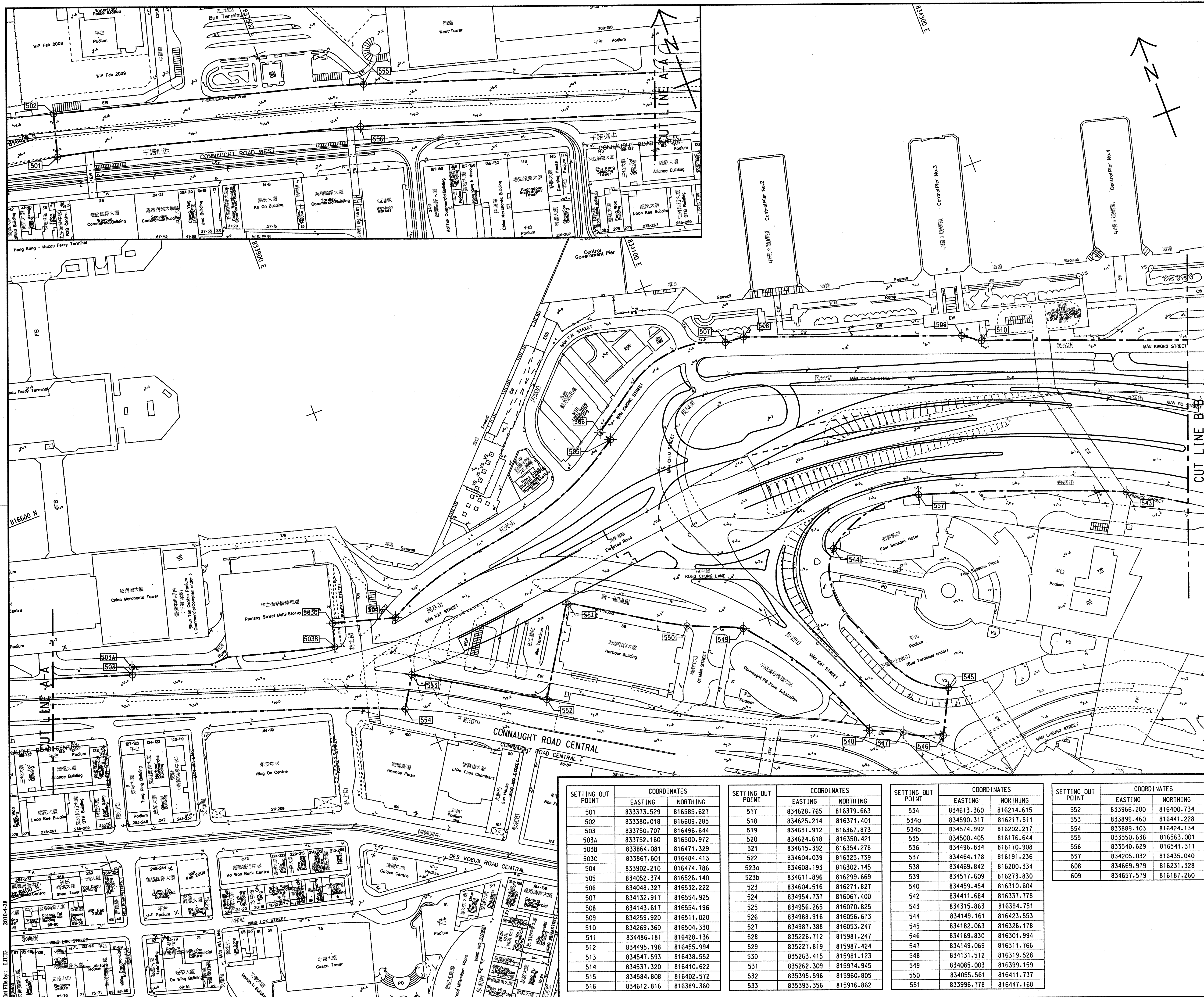
2. Maintenance and Management Schedule

Item	Maintenance and Management Schedule
A1.	Soil mix shall be tested and submitted to Engineer’s Representative for approval before installation.
A2.	Tree protection measures shall be checked during routine inspections and shall be repaired wherever necessary. Tree transplanting works would only be carried out by experienced transplanting sub-contractor and under the supervision of a registered landscape architect / certified arborist / experienced transplanting supervisor approved by the Engineer’s Representative. Transplanted trees would be closely monitored and maintained by the experienced transplanting sub-contractor.
B.	Screen hoarding and surface treatment figures shall be checked during routine inspections and shall be repaired wherever necessary.
C.	Spotlights (if any) shall be checked every night to ensure that they are controlled to divert from adjoining residential and hotel development.

Implementation status of the mitigation measures are shown in Appendix J - Landscape Checklist.

Appendix A

Layout Plans showing the Site Boundary and Locations of Visual Sensitive Receivers



KEY PLAN

SCALE A1 1 : 25000
A3 1 : 50000

NOTES:

1. ALL COORDINATES GIVEN IS ACCORDING TO HONG KONG (1980) GRID IN METRE.
2. COORDINATES TO BE VERIFIED WITH THE ENGINEER ON SITE.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. 60095653/CI/1212.

LEGEND:

- SITE BOUNDARY
- ⊕ 501 SETTING OUT POINT

A	WORKING DRAWING	REVISED	10 OCT 10
-	TENDER DRAWING	ADAM BCC	10 APR 10
REV. NO.	DESCRIPTION	DATE	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

LIMIT OF SITE BOUNDARY SETTING OUT PLAN

SHEET 1 OF 2



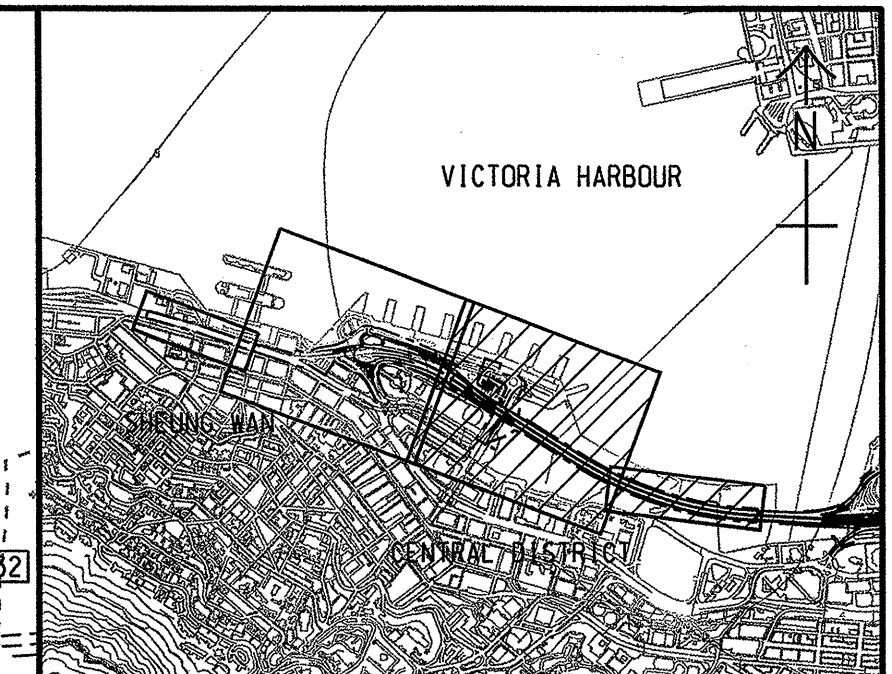
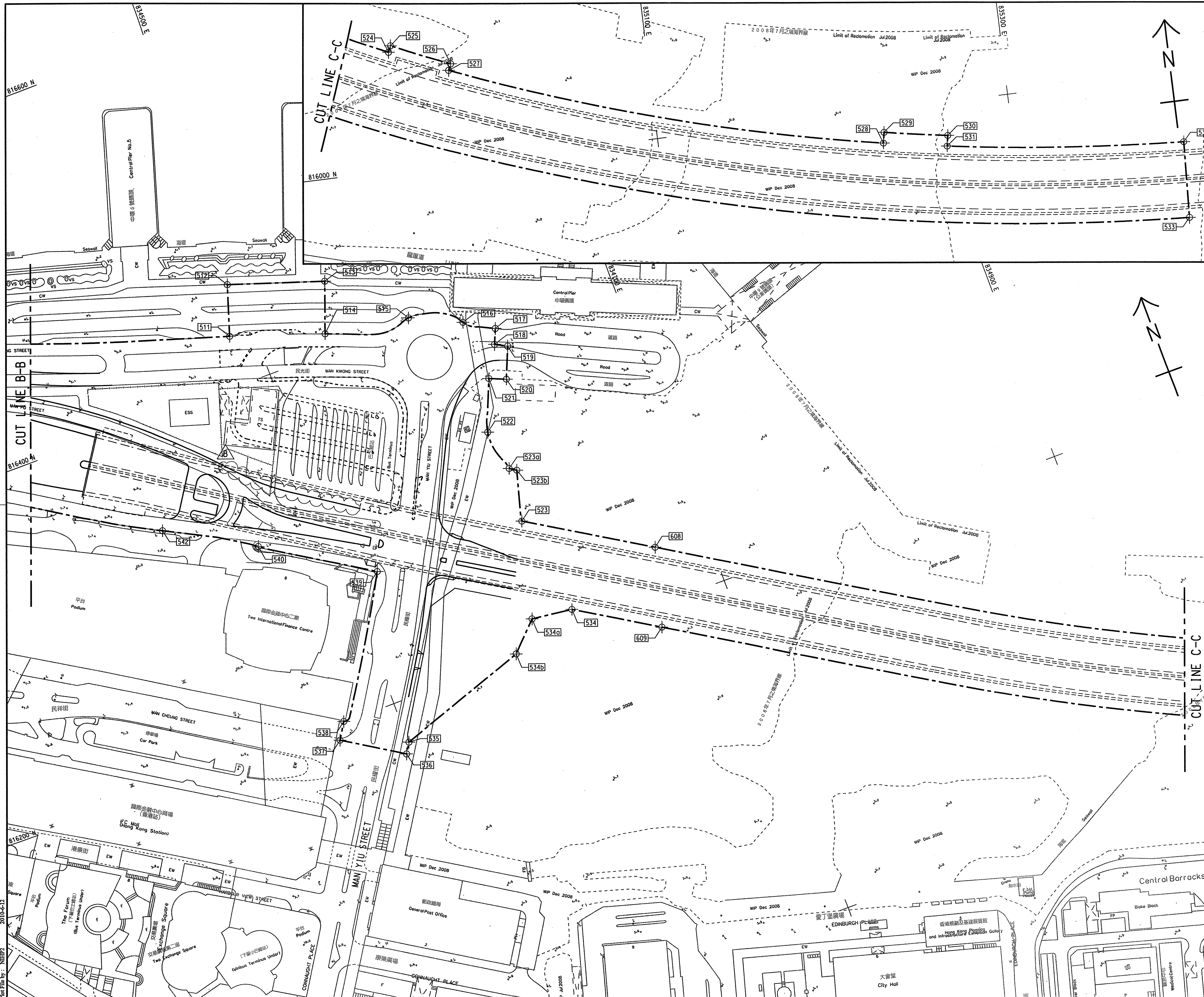
DRGNO. **60095653/CI/1211 A**
圖紙編號

DESIGNED BY: VLMK CONTRACT NO.: HY/2009/18 P. DIR. APPROVED: CW

DRAWN BY: LJ STATUS: WORKING DRAWING

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

SETTING OUT POINT	COORDINATES		SETTING OUT POINT	COORDINATES		SETTING OUT POINT	COORDINATES		SETTING OUT POINT	COORDINATES	
	EASTING	NORTHING		EASTING	NORTHING		EASTING	NORTHING		EASTING	NORTHING
501	833373.529	816585.627	517	834628.765	816379.663	534	834613.360	816214.615	552	833966.280	816400.734
502	833380.018	816609.285	518	834625.214	816371.401	534a	834590.317	816217.511	553	833899.460	816441.228
503	833750.707	816496.644	519	834631.912	816367.873	535	834574.992	816202.217	554	833889.103	816424.134
503A	833752.160	816500.972	520	834624.618	816350.421	535a	834500.405	816176.644	555	833550.638	816563.001
503B	833864.081	816471.329	521	834615.392	816354.278	536	834496.834	816170.908	556	833540.629	816541.311
503C	833867.601	816484.413	522	834604.039	816325.739	537	834464.178	816191.236	557	834205.032	816435.040
504	833902.210	816474.786	523a	834608.193	816302.145	538	834469.842	816200.334	608	834669.979	816231.328
505	834052.374	816526.140	523b	834611.896	816299.669	539	834517.609	816273.830	609	834657.579	816187.260
506	834048.327	816532.222	523	834604.516	816271.827	540	834459.454	816310.604			
507	834132.917	816554.925	524	834954.737	816067.400	542	834411.684	816337.778			
508	834143.617	816554.196	525	834956.265	816070.825	543	834315.863	816394.751			
509	834259.920	816511.020	526	834988.916	816056.673	544	834149.161	816423.553			
510	834269.360	816504.330	527	834987.388	816053.247	545	834182.063	816326.178			
511	834486.181	816428.136	528	835226.712	815981.247	546	834169.830	816301.994			
512	834495.198	816455.994	529	835227.819	815987.424	547	834149.069	816311.766			
513	834547.593	816438.552	530	835263.415	815981.123	548	834131.512	816319.528			
514	834537.320	816410.622	531	835262.309	815974.945	549	834085.003	816399.159			
515	834584.808	816402.572	532	835395.596	815960.805	550	834055.561	816411.737			
516	834612.816	816389.360	533	835393.356	815916.862	551	833996.778	816447.168			



KEY PLAN
SCALE A1 1 : 25000
A3 1 : 50000

NOTE:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. 60095653/CI/1211.
- PUBLIC TRANSPORT INTERCHANGE (PTI) AND PAVEMENT AT MAN KWONG STREET AND MAN YIU STREET WILL BE CONSTRUCTED BY HYD'S TERM CONTRACTOR. THE CONTRACTOR SHALL CO-ORDINATE WITH HYD'S TERM CONTRACTOR IN ORDER TO FACILITATE THE CONSTRUCTION WORK.

LEGEND:

--- WORKS TO BE CONSTRUCTED BY OTHERS (Hyd's TERM CONTRACTOR)

REV.	DESCRIPTION	DATE
C	WORKING DRAWING	ACHAN BCC OCT 10
B	TENDER ADDENDUM NO. 2	ACHAN BCC JUN 10
A	TENDER ADDENDUM NO. 1	ACHAN BCC JUN 10
-	TENDER DRAWING	ACHAN BCC APR 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

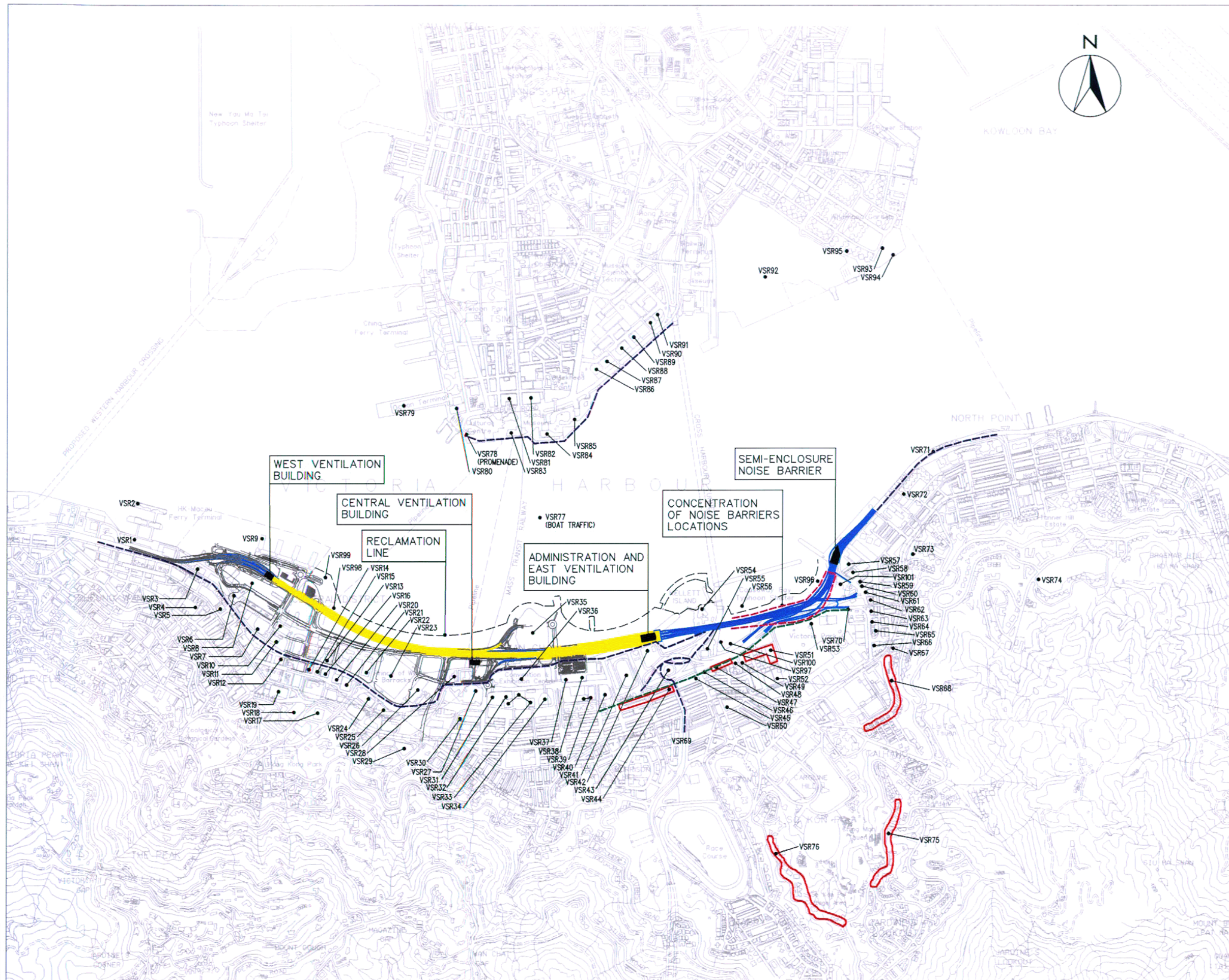
CENTRAL - WAN CHAI BYPASS - CENTRAL INTERCHANGE
LIMIT OF SITE BOUNDARY SETTING OUT PLAN
SHEET 2 OF 2



DRG.NO. 60095653/CI/1212C
圖紙編號

DESIGNED BY VLJK	CONTRACT NO. HY/2009/18	P. DIR. APPROVED CW
DRAWN BY LJ	STATUS WORKING DRAWING	
SCALE A1 1 : 1000 A3 1 : 2000	DIMENSIONS ARE IN METRES	
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Plot File by: NHP2 2010-6-12



- LEGEND :
- VSR1 TO VSR95 LOCATIONS OF KEY VISUAL SENSITIVE RECEIVERS REFER TO TABLE 7.4 FOR SUMMARY OF VISUAL IMPACT ASSESSMENT-IMPACTS ON VISUAL RECEIVERS
 - ELEVATED AND AT GRADE TRUNK ROAD AND SLIP ROADS
 - TRUNK ROAD IN TUNNEL

E	GENERAL REVISION	JUN 01
D	GENERAL REVISION	MAY 01
C	GENERAL REVISION	APR 01
B	GENERAL REVISION	MAR 01
A	ADDITIONAL VSRs	JAN 01
-	FIRST ISSUE	NOV 00

Highways Department 路政署
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK
 PROJECTS REVIEW STUDY

LOCATIONS OF KEY VISUAL SENSITIVE RECEIVERS

HASSELL
 12 Wing Lok Street, 12/F, Kowloon, Hong Kong
 香港九龍彌敦道12號12樓

MAUNSELL CONSULTANTS ASIA LTD
 茂盛亞洲工程顧問有限公司

DRG. NO. **FIGURE 7.5**

DESIGNED BY EY	CONTRACT NO. S-001	DATE OF ISSUE JAN 2001
DRAWN BY EK	STATUS ISSUED	



Appendix B Method Statement for Tree Preservation and Protection

1 Introduction

1.1 Overview

This Tree Preservation and Protection Plan is written for the Contract No. HY/2009/18 Central – Wan Chi Bypass Central Interchange to meet the contract requirements as stated in the General Specification Clause 26.02.

The works description for this Contract comprises the followings:

- a) Approach roads leading to the CWB tunnel west portal;
- b) At grade slip roads and associated roads;
- c) The bridge deck for the westbound carriageway of Rumsey Street Flyover Extension;
- d) The eastbound Slip Road D flyover;
- e) Modification/demolition of the existing dual 2-lane tunnel under Man Yiu Street;
- f) Cut-and cover tunnel between the CWB tunnel west portal and the limit of tunnel to be completed under the CRIII contract;
- g) Sub-structure, basement and foundations for the West Ventilation Building;
- h) Civil works provisions for tunnel Electrical & Mechanical and Traffic Control and Surveillance System works;
- i) Widening/modification of existing Man Yiu Street; and junction for road P1;
- j) Associated road works and drainage/sewerage works; and
- k) Landscaping works including tree transplanting.

1.2 Purpose of the Plan

This Plan provides guidance on the physical and appropriate precautionary measures required in order to reduce significant or detrimental impact on the health or amenity of retained and transplant trees.

2 Preservation and Protection

2.1 General

- a) The proper color label should be fixed on the tree trunk in order to identify the status of preservation, (Green – Retaining on Site)
- b) 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, trunk and root zones.
- c) The trees to be felled or transplant, which are adjacent to, or which lie within a continuous canopy of the preserved trees, shall be carefully removed, and if necessary in sections but not using bulldozers in any circumstances, so as not to cause damage to the preserved trees such as scraping bark off trunks or breaking branches of trees,
- d) No stripping of surface vegetation or top layer of soil, and no paving or earth filling shall be carried out within the tree protection zones unless otherwise agreed by the

Engineer.

- e) Where it is necessary to clear the existing undergrowth within the tree protection zones to allow access and visibility for, and operation of any construction work,
 - Shrubs shall be pruned and grass or other herbaceous plants shall be cut to a height of not less than 50 mm above the ground level but not pulled out by equipment in any circumstances
 - The agreement of the Engineer shall be obtained before vegetation clearance commences
- f) No concrete mixing, gas tank filling, paintbrush and tool cleaning, or equipment maintenance shall be carried out within the tree protection zones,
- g) Allowance shall be made for the slope of the ground so that damaging materials such as concrete washings, mortar or diesel oil cannot run towards the trees,
- h) All materials should be covered when idled.
- i) No accumulation of debris to excessive shall be permitted.
- j) Store the material in a designated area for temporary storage. The designated area should be kept a reasonable distance from the working area such that it will not obstruct the public and workers.
- k) Repair any damage to the trees in accordance with the requirements stipulated in General Specification 26.16,

2.2 Tree Protection Zone

- a) The tree protection zone of the retained trees will be the area within the dripline of the tree crown of individual tree.
- b) Use of temporary protective mulching to cover the entire tree protection zones.
- c) Any necessary scarification or cultivation within the tree protection zones shall be carried out carefully by hand so as not to cause damage to the trees, in particular the bark and the roots,

2.3 Branch Cutting

- a) Branch cutting with diameter more than 25 mm will be carried out according to the following situation. The individual Tree Assessment Report is required and to be approved by the Project Manger of the project.
 - Hazardous branches is necessary to remove branches of a tree when they are damaged in order to give clearance e.g. for pedestrian and vehicular traffic by taking away the lower branches, to help the tree to form a balanced crown and to remove crossed branches.
 - Defect branches are necessary to remove branches of a tree when they are diseased, dying or dead.
- b) Carefully lower all cut branches to the ground to prevent any damage to limbs being retained.
- c) The procedure of the branch cutting as followed.
 - If the location of cutting branch is located at the height higher than 3 meter. The Lifting platform will be used to lift the skilled labour to a suitable level for branch cutting.
 - Two ropes will be used to fix at the tip of the cut branch that will be held by 2

labours on the ground in order to guide the direction of the falling branches.

- Cutting of branches will be carried out using 3-cut method in order to prevent tearing of tree bark in branch cutting.
- Pre-cut is carried out at the under-side of the tree to about 1/4 of the diameter of the cutting branch.
- A safety rope will be used to fix the ends of the remaining portion for 2nd cut.

2.4 Tree surgery

- a) Cut out rotten wood from cavities, without exposing clean healthy wood.
- b) The contractor shall carry out all necessary work of repair of any damage to the preserved trees and other plants affected.

2.5 Treatment of Wounds

- a) All loose, dead or damaged barks should be removed. The back of crushed edges to undamaged wood should be trimmed with all margins round.
- b) Any cut or wound over 25mm diameter should be painted with an approved fungicidal bituminous sealing compound afterwards.

2.6 Post-planting Fertilizer

Post-planting fertilizer shall be applied after the tree pruning, weeding and treatment of wounds.

2.7 Disease and Pest Control

- a) The inspection will be carried out by the specialist bi-monthly and identify the infected area of tree body.
- b) The approved chemical pesticide and fungicide will be applied using manual or gasoline sprayer according manufacturer's instruction

2.8 Tree Trunk Protection

- a) The tree trunk should be wrapped and covered from the ground level and up to 2m of the tree trunk by armouring the Hessian Mat.
- b) Removal of temporary protective armouring and mulching upon completion of work.

2.9 Bi-Monthly Inspection

An inspection report comprising updated photographic records should be submitted in every two month to identify the required horticultural maintenance works.

3 Risk assessment

Risk assessment is an important tool to identify the hazards associated with work activities to be carried out on site, and to develop and implement appropriate control measures to eliminate / minimize the risk of accident / incident caused by these hazards.

In term of tree preservation and protection plan, the project management should carry out a detail assessment to identify the potential hazards (e.g. Hit by live traffic) and their causes (e.g. narrow road) in the planning stage for identifying the special arrangements and/or control measures to deal with such hazards.

Table 3-1 Risk Summary of the Tree Preservation and Protection

Hazard	Risk Level	Action
a) Hit by live traffic	Medium	<ul style="list-style-type: none"> - Enclose the work area with suitable barriers or traffic cones - Flash light & signage arrangement should be strictly placed according to the approved TTA drawing - Reflective vest shall be mandatory and be worn all time on site - Provide trained banksman for traffic diversion if necessary - All the workers should be briefed in daily basis to remind the job hazard and remedial measures
b) Hit by Falling branches / equipment	Medium	<ul style="list-style-type: none"> - Fence off the working area - Provide competent tree surgeons - Provide safety helmet with chinstrap to workers (meets EN397 or equivalent) - Tie up the branch being cut off to control the fall and fasten up the equipment while in use - Branches to be cut in small section
c) Hit by moving crane / cherry picker	Medium	<ul style="list-style-type: none"> - Flash light & signage arrangement should be strictly placed according to the approved TTA drawing - Display sign and warning notices to aware the general public - Properly fencing should be provided to fence off the public - Secure the trees those near the trench work before excavation commence

d) Tree falling	Medium	<ul style="list-style-type: none"> - Flash light & signage arrangement should be strictly placed according to the approved TTA drawing - Display sign and warning notices to aware the general public - Properly fencing should be provided to fence off the public - Secure the trees those near the trench work before excavation commence
e) Tripping	Low	<ul style="list-style-type: none"> - Safety shoes shall be mandatory and be worn all the time on site - Provision of good housekeeping
f) Hand or back injury during manual handling operation	Low	<ul style="list-style-type: none"> - Provide sufficient labour force to carry out manual lifting works - Conduct manual handling training / briefing - Split work into small sections, avoid bending for long periods
g) Long exposure under the sun	Medium	<ul style="list-style-type: none"> - Ensure workers carry enough water when working on site - Take short breaks if working for long periods
h) High noise level	Medium	<ul style="list-style-type: none"> - Conduct noise assessment and demarcate ear protection zone - Provide and ensure to wear approved type ear protector by person within ear protection zone (meets EN352 or equivalent)
i) Contact with overhead lines / Use of electric hand tools	Medium	<ul style="list-style-type: none"> - Check and ensure no work to be carried out in the vicinity of overhead line cables - Inspect the electrical hand tools by Registered Electrical Worker to ensure tools are in good working condition before use - Use low voltage electric hand tools (110V) - Use waterproof socket / plug, armour cable in outdoors - Provide fire extinguisher
j) Inhalation of wood dust and wood dust getting into eyes	Medium	<ul style="list-style-type: none"> - Provide and ensure to use safety eye protector (meet EN166 or equivalent) during work - Provide and ensure to use mouth mask (N95 or equivalent)
k) Cut by sharp tools	Medium	<ul style="list-style-type: none"> - Provide proper gloves to workers - Provide training briefing to the workers

l) Toppling of crane / cherry picker / Man cage failure	Medium	<ul style="list-style-type: none"> - Inspect the ground to ensure stable condition before setting up of crane - Appoint licensed crane operator to operate crane - Appoint trained cherry picker operator to operate cherry picker - Display valid test certificate on crane - Inspect the crane by operator on weekly basis, include ASLI - Inspect the cherry picker at regular intervals - Extend the outrigger completely of the crane if practicable - Use tested lifting gear with marking and safe working load - Apply colour code system to LG - Check condition of lifting gear before use - Provide and ensure to use fall arresting device (meets EN361 or equivalent)
m) Contact with chemicals	Medium	<ul style="list-style-type: none"> - Provide masks if required - Ensure tree surgeons wear hand gloves and proper PPE to avoid contact with skin - Provide goggles - Perform the safety precautions those listed in MSDS

4 Emergency Contact

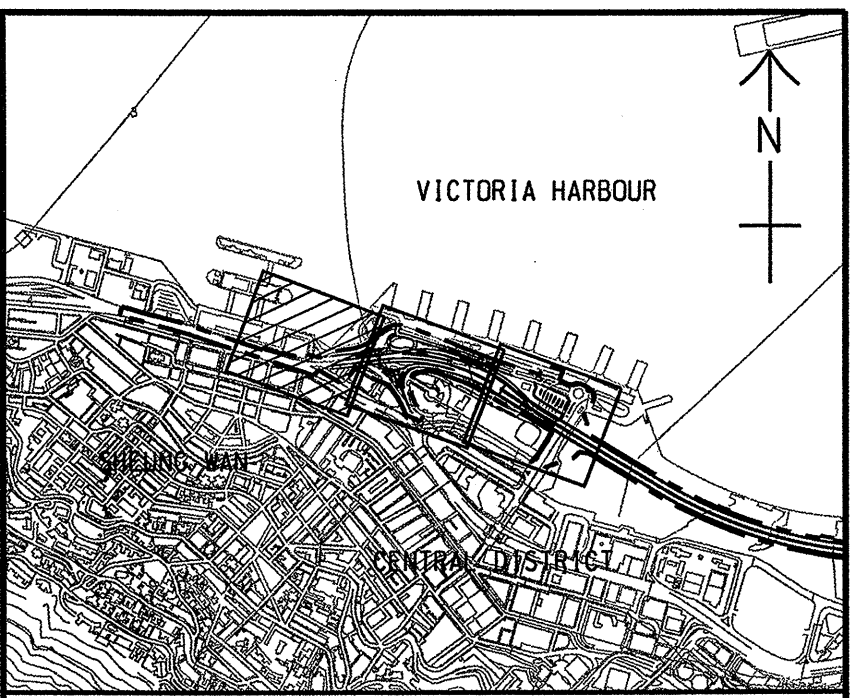
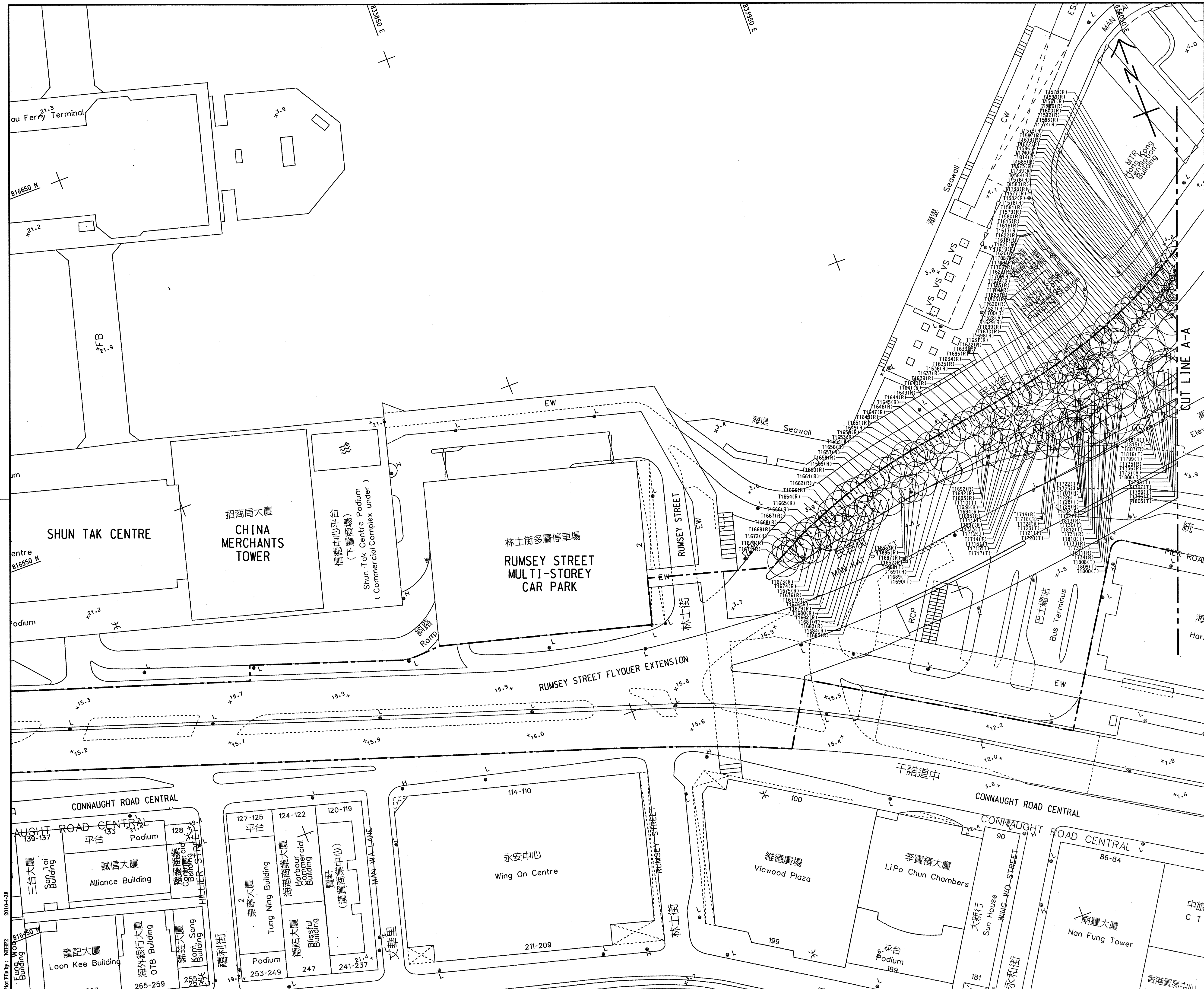
All Preservation and Protection related accident/ incident occurred within works area of this project shall be promptly reported to project safety department. Rescue, investigation and further reporting procedures shall follow the requirements as stated in the Safety Management Plan.

5 Inspection and Testing Requirements

Complete photograph record of entire transplanting operation at various stages of works. ER will be informed to participate at various stages.

Appendix C

Tree Preservation, Transplanting and Felling Plans



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

- NOTES:**
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60095653/CI/9002-9003.
 - TREES THAT ARE NOT AFFECTED BY THE PROJECT ARE NOT SHOWN FOR CLARITY.

- LEGEND:**
- SITE BOUNDARY
 - T1140(R) EXISTING TREE TO BE RETAINED
 - T1221(F) EXISTING TREE TO BE FELLED
 - T1498(T) EXISTING TREE TO BE TRANSPLANTED

A	WORKING DRAWING	AGAN	BCC	OCT 10
-	TENDER DRAWING	AGAN	BCC	APR 10
REV.	DESCRIPTION	CHK.	CHKD.	DATE
01	內務編號	審核	審核	日期

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

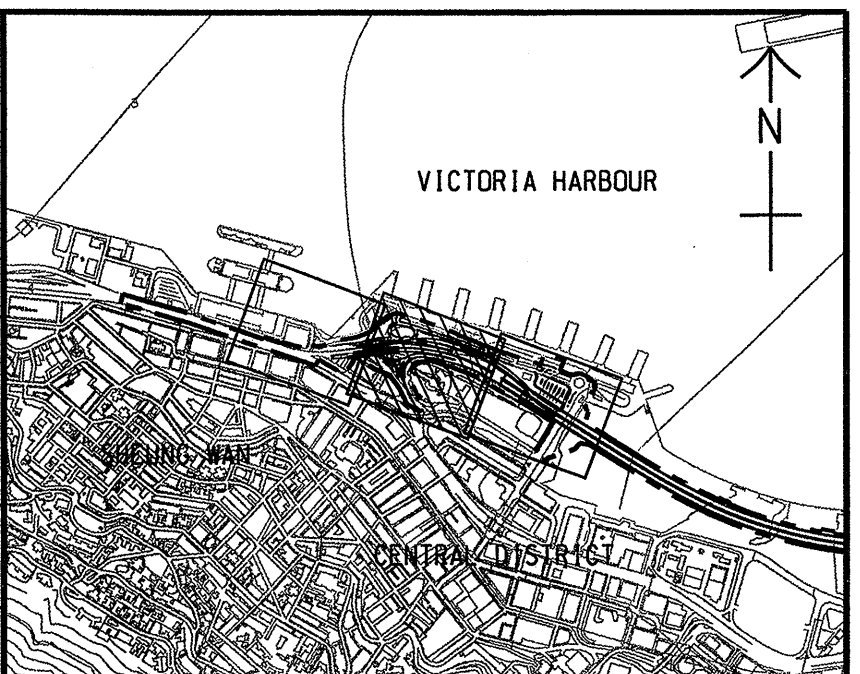
CENTRAL - WAN CHAI BYPASS - CENTRAL INTERCHANGE
TREE PRESERVATION, TRANSPLANTING AND FELLING PLAN
SHEET 1 OF 3

AECOM

DRG.NO. 60095653/CI/9001A

DESIGNED BY VLMK	CONTRACT NO. HY/2009/18	P. BY: APPROVED CW
SCALE A1 1 : 500 A3 1 : 1000	STATUS WORKING DRAWING	DATE
DIMENSIONS ARE IN METRES	© COPYRIGHT RESERVED	

Plot File By: NUTB2, 2010-4-28, P:\projects\60095653\Drawing\CI\9000\CI_9001.dgn



KEY PLAN
SCALE A1 : 2000
A3 : 4000

NOTE:
1. FOR NOTES AND LEGEND SEE DRG. NO. 60095653/C1/9001.

A	WORKING DRAWING	ASIAN/BCC	OCT 10
-	TENDER DRAWING	ASIAN/BCC	APR 10
REV.	DESCRIPTION	DATE	DATE
01	內務編製	2010/10/10	2010/10/10

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 - CENTRAL INTERCHANGE
TREE PRESERVATION, TRANSPLANTING AND FELLING PLAN

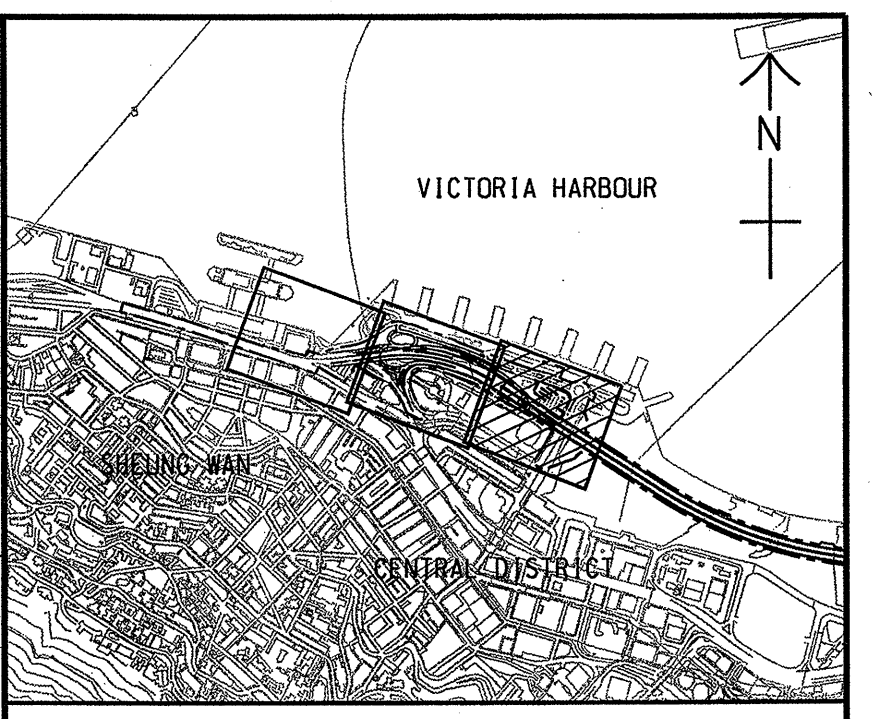
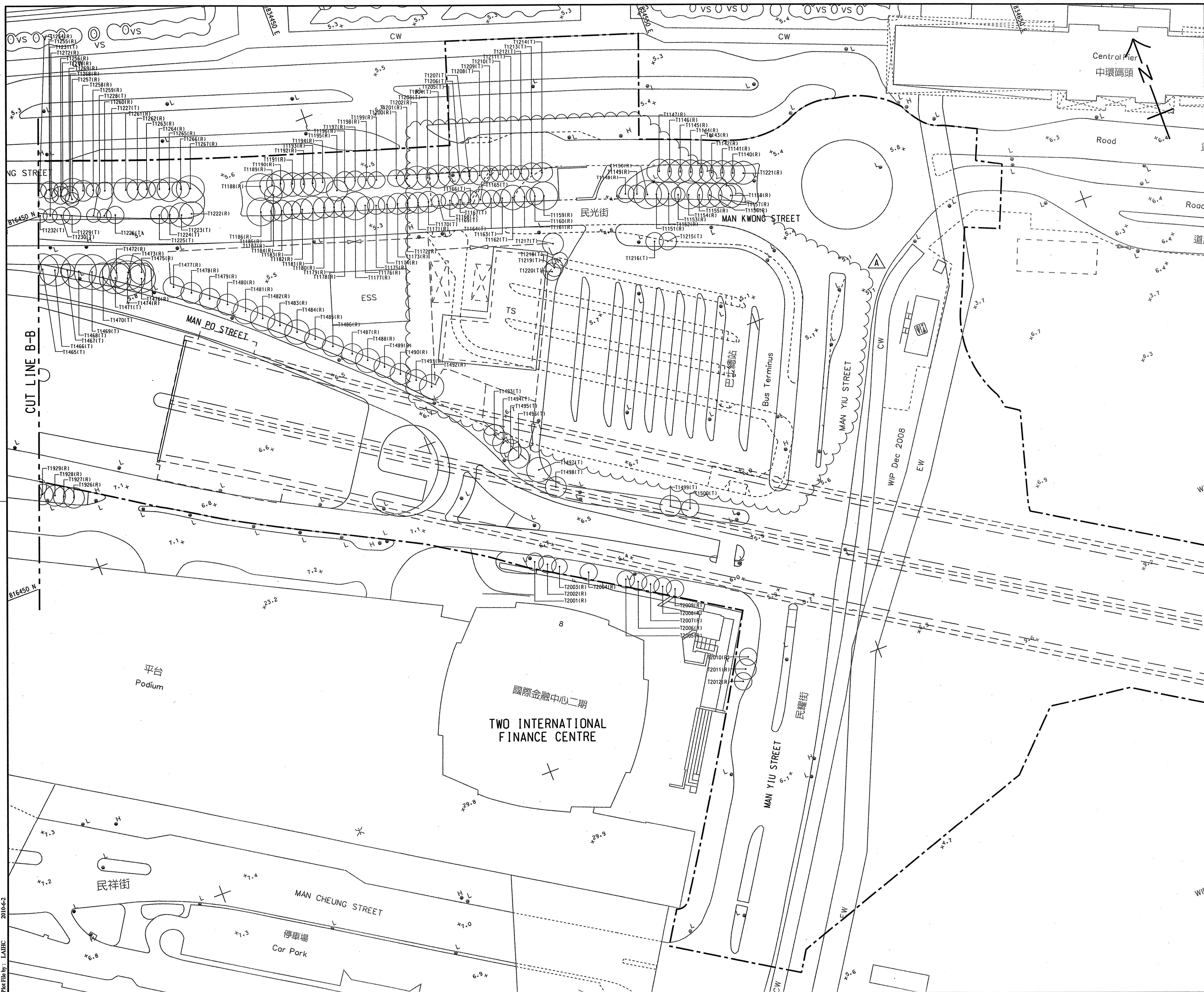
SHEET 2 OF 3

AECOM

DRG.NO. 圖紙編號 **60095653/C1/9002A**

DESIGNED BY VLJK	CONTRACT NO. HY/2009/18	P. OF. APPROVED CW
DRAWN BY ZJ	STATUS WORKING DRAWING	
SCALE A1 : 1 : 500 A3 : 1 : 1000	© COPYRIGHT RESERVED 版權 所 有	
DIMENSIONS ARE IN METRES		

2010-4-28
Plot File by: NURP2



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

- NOTES:**
- FOR NOTES AND LEGEND SEE DRG. NO. 60095653/CI/9001.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60095653/CI/9001 AND 9002.
 - PUBLIC TRANSPORT INTERCHANGE (PTI) AND PAVEMENT AT MAN KWONG STREET AND MAN YIU STREET WILL BE CONSTRUCTED BY HYD'S TERM CONTRACTOR. THE CONTRACTOR SHALL CO-ORDINATE WITH HYD'S TERM CONTRACTOR IN ORDER TO FACILITATE THE CONSTRUCTION WORK.

LEGEND:

WORKS TO BE CONSTRUCTED BY OTHERS (HYD'S TERM CONTRACTOR)

REV.	DESCRIPTION	DATE
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A	TENDER ADDENDUM NO. 1	10 JUN 10
-	TENDER DRAWING	10 APR 10

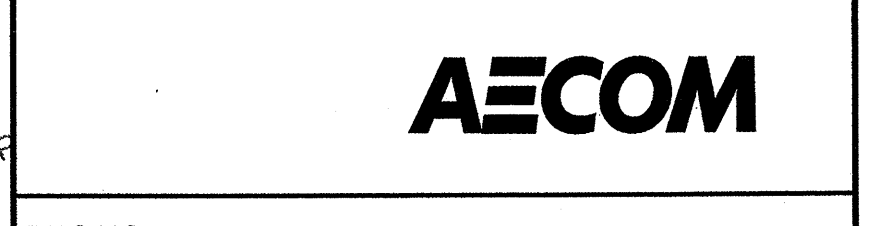
DESIGNED BY	VLK	CONTRACT NO.	HY/2009/18	P. BY APPROVED	CW
DRAWN BY	LHC	STATUS	WORKING DRAWING		
SCALE	A1 1 : 500 A3 1 : 1000				
DIMENSIONS ARE IN	METRES				

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 PRESERVATION, TRANSPLANTING AND FELLING PLAN
SHEET 3 OF 3



DRG. NO. 60095653/CI/9003B
圖紙編號

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

Proj File by: LAHC 2010-6-2

Appendix D Method Statement for Tree Transplanting

LEIGHTON
禮頓



Contract No. HY/2009/18
Central-Wan Chai Bypass – Central Interchange

Tree Transplanting Works

Method statement number: H2540-MS-OPR-014 Rev.1

Prepared by: TOYO Greenland Company Ltd. 4 Jan 2011
Name Rachel Yan date

Reviewed by: Eric Yuen 4 Jan 2011
Graduate Engineer date

Reviewed by: Casey Lau 4/1/2011
Construction Manager date

Reviewed by: CK Chan 4-1-2011
Safety Manager date

Reviewed by: Stephen Moc 4 JAN 2011
Quality Manager date

Reviewed by: Anfernee Chow 04/01/2011
Environment Officer date

Reviewed by: Michael Ryan 04/01/2011
Engineering Manager date

Approved by: Brian Gilon _____
Site Agent date

This document is controlled in soft copy. Any hard copies seen are uncontrolled unless chopped with a red control stamp

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4.	Environmental Protection Requirements	6
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1. Scope

This Method Statement provides guidance on the physical and appropriate precautionary measures required in order to reduce significant or detrimental impact on the health or amenity of transplant trees.

2. Construction Procedure

2.1 Preparatory Work

- 1) All safety equipments will be checked before use.
- 2) All safety tools and machinery certificates will be checked before use.
- 3) All the temporary traffic arrangements should be set up.
- 4) Safety precautions shall be taken to protect those engaged in operation as well as people and properties in the vicinity. Safety fence/barrier will be set up around the working area at outer 2 meters to avoid people walking closely and against the hazards of the falling objects.
- 5) Working area shall be restricted from outsiders.
- 6) The correct tree label with unique color should be marked in order to identify the correct tree to be transplanted.
- 7) All works should be supervised by our on-site tree work supervisor.
- 8) The extent of branch pruning should be identified as per the attachment prior to the pruning work.

2.2 Crown Pruning

- 1) To reduce water loss through transpiration by removal of foliage as necessary. The natural shape and form of a balanced crown shall be preserved. A crown may be reduced to not more than 1/3 of its original crown by selective pruning such as the removal of crossing or malformed branches.
- 2) During the branch pruning operation, a natural shape and form of a balanced crown shall be preserved.
- 3) Large branches shall be cut and removed by 3-cut method. In the beginning stage with the removal of the main weight of the branch with the final cut as close as to the main stem as possible without damaging the bark.
- 4) Small branches and twist shall be cut and removed by using clean, sharp implements to give a single, sloping surface, the ragged edges of bark shall be trimmed with hand saws or secateurs.
- 5) All cuts shall be made to avoid splintering or tearing of the bark.
- 6) Cracks, cavities or rotten wood shall be cut back to living tissue.
- 7) The dead and/or damaged branches of transplanting tree shall be pruned to produce a well-shaped balance crown.
- 8) The extent of the crown thinning shall be determined and approved by the ER as stipulated in PS 3.97(19).

2.3 Root Pruning

- 1) Provision shall be included to secure the trees on the site immediately during the root pruning.
- 2) The diameter of root ball to be cut shall be determined by the Contractor and approved by the ER. The rootball to be cut should be 8-10 times the trunk diameter at breast height and

not less than 1500mm diameter, and 750 – 1000mm deep. A maximum size of root ball will be maintained whereas practical and necessary to ensure the higher survival rate for transplanted trees. The rootball size will be determined and marked on the ground around the tree to get approval of the ER before root pruning

3) Roots which are severed in the course of root pruning shall be cut cleanly.

4) After completion of each stage of root pruning, trenches shall be backfilled with soil mix to encourage new growth of roots.

5) Root activator shall be applied at regular intervals according to the manufacturer's instruction.

6) Root pruning and lifting shall be carried out in four stages at one-month interval.

7) The circle will be divided into 6 equal segments. Before lifting, the outer edge of the previously dug trenches shall be loosened from the surrounding soil and the root ball will be undercut to allow the tree to be lifted free from the ground with the root ball intact.

- The first stage shall involve digging a trench on the outside of the marked circumference, in only two opposing segments
- The second stage shall involve digging a trench on the outside of the marked circumference, in only two opposing segments.
- The third stage shall involve digging a trench on the outside of the marked circumference in the last remaining two opposing segments.
- The last stage shall be the cutting of the underside of the root ball, followed by uplifting and transplanting.

8) The trunk and lower branches will be wrapped with approved hessian and tied with jute string at least one day prior to rootball preparation.

9) After the completion of each stage of root pruning, trenches made are to be backfilled with soil mix. Root ball shall be watered and kept moist from time to time during the preparatory period to stimulate re-generation of new roots.

10) At each stage of root pruning, those trees to be transplanted shall be inspected for signs of deterioration in their health. Any such signs shall be brought to the attention of the Engineer.

2.4 Preparation in Holding Nursery

1) Wooden or metal box shall be prepared in holding nursery before uplifting of transplanting tree.

2) Box shall have dimensions which are 500 mm greater than the size of the root ball of the tree to be transplanted.

2.5 Tree Lifting and transportation

1) Coir mat shall be used to wrap and protect the trunk, large branches and root ball.

2) Prior to lifting, the root ball shall have been thoroughly soaked with clean water. A crane lorry shall be used to lift trees using nylon straps fastened securely on the rootball.

3) Upon lifting, the root ball shall be wrapped and tied with coir mat and kept moist from the time of lifting until it is transplanted.

4) Trees shall be transplanted to the designated pit within 2 hours after lifting. The lifted trees will be placed lying flat on the truck platform. The whole tree including the aerial parts shall be immediately covered with a tarpaulin to protect against excessive sunlight, wind and drought. Care shall be taken in packing to prevent over-heating with its resultant loss of foliage.

2.6 Planting in Holding Nursery

- 1) The root balls must be supported by soil underneath to break-up for 300mm and then settled by water.
- 2) Trees shall be off loaded carefully to ensure that no damage is done to the root ball, trunk or branches. Trees will be planted in an upright position, allowing adequate space for growth.
- 3) Soil mix shall be used to backfill the prepared root ball box. Backfilling shall be done in layers each being firmly consolidated to eliminate air pockets.
- 4) Metal Tripod will be fixed in order to secure the transplanted tree.

2.7 Maintenance Work in Holding Nursery

- 1) Watering shall be carried out daily with automatic irrigation system
- 2) Weed removal and pest control will be carried out as necessary.
- 3) Monthly inspection and reporting will be carried out.

2.8 Tree Pit Preparation in Final Location

- 1) The location of the planting pit shall be agreed with the Engineer's representative at least 7 days' in advance prior to the transplanting work.
- 2) Tree pits shall be prepared in final location before uplifting for those trees required to be transplanted.
- 3) The depth of the tree pit should be 300-500mm greater than the size of the root ball of the tree to be transplanted. The base of tree pit shall be broken to a depth of 150mm and filled with water 24 hours before planting to ensure free drainage.

2.9 Planting at Final Location

- 1) Coco peat with 1/3 of the excavated soil shall be thoroughly incorporated into the existing soil excavated from the pits prior to backfilling.
- 2) The root balls must be supported by soil underneath to breakup to 300mm and settled by water.
- 3) Trees shall be off loaded carefully to ensure that no damage is done to the root ball, trunk or branches. Tree will be planted in an upright position, allowing adequate space for growth.
- 4) Once placed in the prepared pit, soil mix shall be used to backfill the prepared pit. Backfilling shall be done in layers each being firmly consolidated to eliminate air pockets.
- 5) Each tree shall be secured using 3 nos. of iron stake or wire guy.
- 6) The tree shall be thoroughly watered after planting.

3. Health and Safety Aspects

- 1) All personnel shall wear appropriate PPE when carrying out the works including but not limited to Safety Hat, High Visibility Vest and Safety Boots when carrying out the works.
- 2) Certified Competent Person will conduct the utilities detection.
- 3) All working areas, access points and dangerous openings shall be properly secured, fenced off from the general public and illuminated.
- 4) Any unsafe obstruction such accumulation of debris or shrubs shall be removed to enable the competent person to carry out the survey in a safe manner.
- 5) A detailed risk assessment will be conducted prior to the commencement of the works to assess all of the potential risk and its remedial measures to ensure that the works are carried out in a safe manner.
- 6) At no time will the competent person be allowed to conduct surveying public roads without the appropriate TTA in place to ensure his safety.

7) Safety is the highest priority for all project at Leighton's. The ultimate aim of strive for L.I.F.E is to change the safety behaviour of all staff and workers on site. As part of this programme, all personnel will be required to attend a 1 day "Advance Safety Induction Certificate Training" at Leighton's training facility at Strive for Life Knowledge and Skills Training Center

14th Floor, Unit B,
Wyler Center 2
Tai Lin Pai Road
Kwai Fong

8) All personnel shall also undertake site specific induction and be briefed on the system of works to ensure that all members including the subcontractor and its employees are aware of the risk involved.

9) Ad-hoc site tool box meetings shall be conducted to continuously refresh personnel to the associated risks and control measures in order to maintain a safe working environment. Training records of the workers shall be submitted to SO for record.

10) Ensure all works to be carried out in accordance with the current statutory regulations regarding safety and health at work.

4. Environmental Protection Requirements

- Air: Regular cleaning of loading & unloading area and general surrounding areas to reduce dust emission.
Regular maintenance of the plant equipments to reduce the generation of undesirable exhausts fumes.

5. Subcontractors and Suppliers

Toyo Greenland Company Limited works closely with the landscaping works undertakers, contractors in a number of Landscaping contracts for the HKSAR Government Departments such as Highways Department (HD), Civil Engineering and Development (CEDD) etc.

Landscaping job Reference:

- Smithfield Extension - The Link & Pofulam Open Space (HY/94/20)
- Highways Department Term Contract (Management and Maintenance of High Speed Roads in New Territories West and Kowloon, and Roads in the Hong Kong Port Area 2008-2016)
- Greening Works in Kowloon City (CV/2009/04)
- Greening Works in Wong Tai Sin (CV/2009/05)
- Enhancement of Footbridges in Tsim Sha Tsui East (HY/2007/15)
- Provision of Lifts to Three Footbridges (HY/2009/07)
- Greening Works in Sham Shui Po (CV/2009/03)
- Greening Works in Western District (CV/2009/07)

6. Plant and Equipment

- Crane lorry
- Gasoline saws
- Hand saws
- Iron stakes
- Metal bar

- Metal tripod
- Nylon straps
- Secateurs
- Shovels
- Soil mix
- Wooden Broad

7. Materials

- Peatmoss
- Root activator
- Tarpaulins

8. Storage and Handling

- 1) All materials should be covered when idled.
- 2) No accumulation of debris to excessive shall be permitted.
- 3) Store the material in a designated area for temporary storage. The designated area should be kept a reasonable distance from the working area such that it will not obstruct the public and workers.

9. Inspection and Testing Requirements

Complete photograph record of entire transplanting operation at various stages of works. ER and landscape specialist will be informed to participate at various stages.

10. Risks

Refer to Appendix A - Risk Assessment

11. References

11.1 Attachments

- Appendix A – Risk Assessment
- Appendix B – Inspection and Test Plan (Reference No. H2540/ITP/003-0)

Appendix A

Risk Assessment


RISK ASSESSMENT REPORT


Job No. / Name Dec. Ref. No.		Anticipated commencement date:		Assessor(s):		
H2540 Central - Wan Chai Bypass - Central Interchange		20 Dec. 2010		Casey Lau, Eric Yuen, Benjamin Sung, MC Cheong		
Activity:		Pre-assessment			Re-assessment	
Tree Transplanting Works		Likelihood	Severity	Likelihood	Severity	RR
Job / Task	People at Risk	Adverse Effect	Cause to Adverse Effect	Control Measure	Responsible Person	Further Control Measure
1. Preparation and Crown Pruning	Tree surgeons / labour	Body injury / Property damage	Falling branches / equipment	a) Fence off the working area b) Provide competent tree surgeons c) Provide trained signaller if required d) Tie up the branch being cut off to control the fall and fasten up the equipment while in use e) Branches to be cut in small section f) Provide safety helmet with chinstrap to workers (meets EN397 or equivalent) g) Check and ensure no work to be carried out in the vicinity of overhead line cables	Foreman Sub agent / Foreman Sub agent / Foreman Foreman Labour / Foreman Foreman Foreman	3 3 3 3 3 3 3
	Tree surgeons	Body injury / Electric shock	Contact with overhead lines / Use of electric hand tools	a) Check and ensure no work to be carried out in the vicinity of overhead line cables b) Inspect the electrical hand tools by Registered Electrical Worker to ensure tools are in good working condition before use c) Use low voltage electric hand tools (110V) d) Use waterproof socket / plug, armour cable in outdoors e) Provide fire extinguisher	Foreman Foreman Foreman Foreman Foreman	3 3
	Tree surgeons / Labour / Operator	Fall of person / Body injury / Plant damage	Toppling of crane / cherry picker / Man cage failure	a) Inspect the ground to ensure stable condition before setting up of crane b) Appoint licensed crane operator to operate crane c) Appoint trained cherry picker operator to operate cherry picker d) Display valid test certificate on crane e) Inspect the crane by operator on weekly basis, include ASLI	Foreman Foreman Foreman Foreman / Operator	4 4 4 4

Job / Task	People at Risk	Cause to Adverse Effect	Adverse Effect	Pre-assessment			Control Measure	Responsible Person	Re-assessment		Further Control Measure	
				Likelihood	Severity	RFN			Likelihood	Severity		RR
2. Root Pruning	Labour, People nearby Tree surgeons / Labour Tree surgeons / Labour Tree surgeons / labour Tree surgeons / Labour Tree surgeons / Labour	Hit by moving crane / cherry picker Cut by chainsaw / hand saw High noise level Manual excavation and back filling Cut by chainsaw / hand saw High noise level	Body injury Body injury Potential hearing loss Body injury Body injury Potential hearing loss	2	4	8	f) Inspect the cherry picker at regular intervals g) Extend the outrigger completely of the crane if practicable h) Use tested lifting gear with marking and safe working load i) Apply colour code system to LG j) Check condition of lifting gear before use k) Provide and ensure to use fall arresting device (meets EN361 or equivalent)	Foreman / Operator Foreman / Operator Foreman Foreman Foreman / Rigger Foreman	1	4	4	
				2	4	8	a) Fence off the working area b) Appoint trained signaller to direct the movement of crane / cherry picker c) Appoint licensed crane operator to operate crane d) Appoint trained cherry picker operator to operate cherry picker	Foreman Sub-agent / Foreman Sub-agent / Foreman Sub-agent / Foreman	2	2	4	
				2	4	8	a) Install guard to dangerous parts of the chainsaw b) Provide and ensure to use eye protector (meets EN166 or equivalent) c) Provide proper gloves to workers if required	Foreman Foreman Foreman	2	2	4	
				2	4	8	a) Conduct noise assessment and demarcate ear protection zone. b) Provide and ensure to wear approved type ear protector by person within ear protection zone (meets EN352 or equivalent)	Foreman / Safety Officer Foreman	2	2	4	
				3	2	6	a) Provide sufficient labour force to carry out manual lifting works. b) Conduct manual handling training	Foreman Foreman / Safety Officer	2	2	4	
				2	4	8	a) Install guard to dangerous parts of the chainsaw b) Provide and ensure to use eye protector (meets EN166 or equivalent) c) Provide proper gloves to workers if required	Foreman Foreman Foreman	2	2	4	
				2	4	8	a) Conduct noise assessment and demarcate ear protection zone	Foreman / Safety Officer	2	2	4	

Job / Task	People at Risk	Cause to Adverse Effect	Adverse Effect	Pre-assessment			Control Measure	Responsible Person	Re-assessment		
				Likelihood	Severity	RFN			Likelihood	Severity	RR
3. Tree Lifting and Transportation	Tree surgeons / Labour	Tree falling	Body injury	2	4	8	b) Provide and ensure to wear approved type car protector by person within ear protection zone (meets EN352 or equivalent) a) Fence off the working area b) Secure the tree before commencement of work	Foreman	1	4	4
				3	4	12	a) Inspect the ground to ensure stable condition before setting up of crane b) Appoint licensed crane operator to operate crane c) Appoint trained cherry picker operator to operate cherry picker d) Display valid test certificate on crane e) Inspect the crane by operator on weekly basis, include ASLI f) Inspect the cherry picker at regular intervals g) Extend the outrigger completely of the crane if practicable h) Use tested lifting gear with marking and safe working load i) Apply colour code system to LG j) Check condition of lifting gear before use k) Provide and ensure to use of fall arresting device (meets EN361 or equivalent) a) Fence off the working area b) Appoint trained signaller to direct the movement of crane / cherry picker c) Appoint licensed crane operator to operate crane d) Appoint trained cherry picker operator to operate cherry picker	Foreman Sub agent / Foreman Sub agent / Foreman Foreman Foreman / Operator Foreman / Operator Foreman / Operator Foreman Foreman Foreman / Rigger Foreman	1	4	4
3. Tree Lifting and Transportation	Labour	Hit by moving crane / cherry picker	Body injury	2	4	8	a) Fence off the working area b) Appoint trained signaller to direct the movement of crane / cherry picker c) Appoint licensed crane operator to operate crane d) Appoint trained cherry picker operator to operate cherry picker	Foreman Sub agent / Foreman Sub agent / Foreman Sub agent / Foreman	1	4	4
				3	4	12	a) Fence off the work place b) Provide trained rigger and signaller c) Use tested lifting gear with marking and safe working load	Foreman Foreman Foreman	1	4	4

Job / Task	People at Risk	Cause to Adverse Effect	Adverse Effect	Pre-assessment		Control Measure	Responsible Person	Re-assessment		Further Control Measure
				Likelihood	Severity			Likelihood	Severity	
						d) Apply colour code system	Foreman			
	Road users/ Pedestrians	Tree/Tree branches falling from transport vehicle	Body injury, damage to other motor vehicles	2	4	e) Check condition of lifting gear before use a) Secure the tree on vehicle before the vehicle moves	Foreman / Rigger Foreman	1	4	4
	Tree surgeons / labour	Hit by live traffic	Body injury	2	4	a) Fence off the work place b) Provide trained banksman for traffic diversion if necessary	Foreman Sub agent / Foreman	1	4	4
	Labour	Manual lifting	Cut, sprain, strain	3	2	a) Provide sufficient labour force to carry out manual lifting works. b) Provide protective gloves to workers	Foreman Foreman	2	2	4
4. Planting and Holding in Nursery	refer to item 3.									
5. Tree Pit Preparation in Final Location	Tree surgeons / labour	Manual excavation and back filling	Body injury	3	2	a) Provide sufficient labour force to carry out manual lifting works b) Conduct manual handling training	Foreman Foreman / Safety Officer	2	2	4
6. Planting at Final Location	refer to item 3.									

Prepared by: M.C. Cheng Signature:  Date: 4/11/2010

Approved by: Desmond Sze Signature:  Date: 4/12/10

Likelihood x **Severity** = **Risk Factor Number (RFN) / Residual Risk (RE)**

1 : Improbable 1 : Negligible 1-2 : Trivial / Acceptable

2 : Remote 2 : Slight 3-5 : Tolerable

3 : Quite possible 3 : Moderate 6-9 : Acceptable with review

4 : Probable 4 : High 10-15 : Substantial

5 : Frequent 5 : Very High 16-25 : Intolerable / Unacceptable

* Prepare Job Hazard Analysis when residual risk is equal to or greater than 6.

* Date of next review : 20/12/2010

Appendix B

Inspection and Test Plan (Reference No. H2540/ITP/003-0)

Inspection and Test Plan

Contract: Central-Wan Chai Bypass - Central Interchange

PLAN NO. :

Contract No. : HY/2009/18

H2540/ITP/002-0

Process:

Tree Transplanting



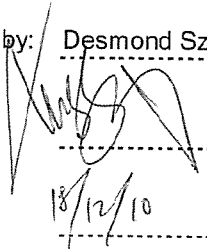
SCOPE: Transplanting and temporary storage in Toyo Greenland Co., Ltd.'s holding nursery at Lots in DD 106 and 113 of Kam Tin, N.T., -33,000 sq m

CONTENTS

1. CONSTRUCTION FLOWCHART
2. SUBMISSION, INSPECTION AND TESTING REQUIREMENTS
3. ATTACHMENTS
 - Request for inspection form

TERMINOLOGY

Prepared by: eric yuen Reviewed by: Casey Lau Approved by: Desmond Sze

Signature:  Signature:  Signature: 

Date: 16th Dec 2010 Date: 16/12/2010 Date: 18/12/10

Revision status

Revision	Date	Section/Description	Authorized by
0	16-Dec-10	First issue	Project manager

Construction Flowchart

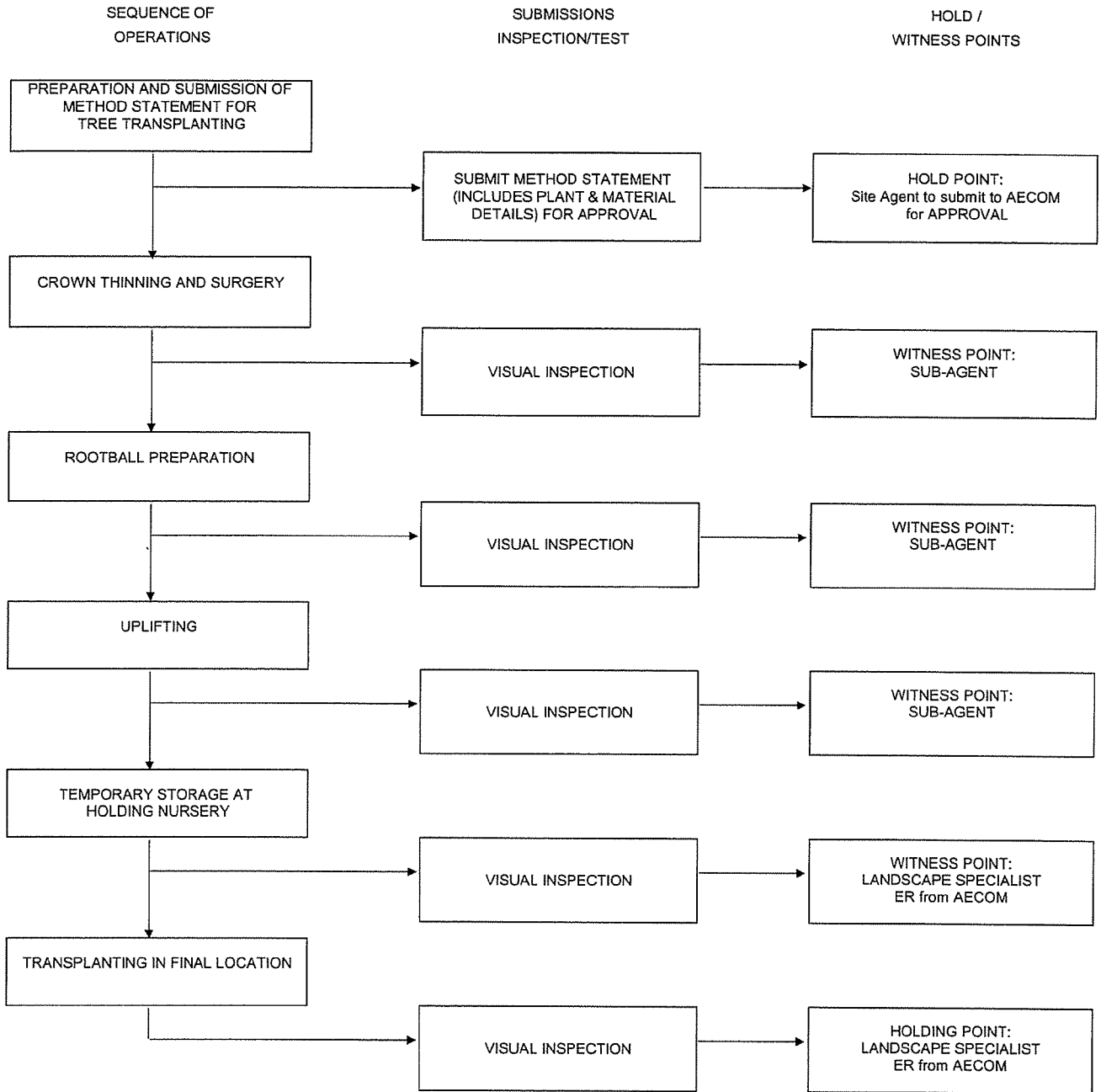
Contract: Central-Wan Chai Bypass - Central Interchange

PLAN NO. :

Contract No. : HY/2009/18

H2540/ITP/002-0

Process: **Tree Transplanting**



Submission, Inspection and Testing Requirements

Contract: Central-Wan Chai Bypass - Central Interchange		PLAN NO. :
Contract No. : HY/2009/18		H2540/ITP/002-0
Process: Tree Transplanting		

I/T NO	INSPECTION /TEST DETAILS	HOLD/WITNESS POINT		METHOD	CONFORMANCE CRITERIA	FREQUENCY	VERIFICATION RECORD	ACTION BY
		H	W					
1	Submit Method Statement	H		Submission to Engineer (AECOM)	P.S. 3.97	Once before tree transplanting works commence	Letter	Site Agent
2	Root pruning		W	Visual Inspection	P.S. 3.98	3 times	Photo	Sub agent
3	Crown thinning and surgery		W	Visual Inspection	P.S. 3.103	Once	Photo	Sub agent
4	Rootball preparation		W	Visual Inspection	P.S. 3.97	Once	Photo	Sub agent
5	Uplifting		W	Visual Inspection	P.S. 3.99	Once	Photo	Sub agent
6	Temporary storage at holding nursery	H		Visual Inspection	P.S. 3.101	Once	Monthly inspection report and photo	Landscape specialist ER from AECOM
7	Transplanting in new location	H		Visual Inspection	P.S. 3.100	Once	As-built drawing	Landscape specialist ER from AECOM

Contract No. HY/2009/18

Central – Wanchai Bypass, Central Interchange



INSPECTION REQUEST FORM

To Engineer's Representative

RISC No.: _____

(1) Location of Work	Date & Time
(2) Work to be Inspected:	
(3) Work Proposed after Approval of (2):	
(4) Remarks (if this is a re-submission state work carried out since last survey):	Enclosure: Yes / No*

REQUESTED BY: _____
DESIGNATION : _____

TIME : _____
DATE : _____

Received by ER
TIME : _____
NAME : _____

DATE : _____
SIGNED : _____

Filled in by ER/SIOW Mr : _____ Please arrange inspection
SIGNED: _____

DATE : _____

Filled in by INSPECTOR

Work outlined in (2) above has been inspected. Permission to carry out proposed work outlined in (3) above is given / not given* for the following reason(s):

This in no way limits or alters the Contractor's obligations under the Contract.

Form is returned to the Contractor at time stated below.

SIGNED : _____
DESIGNATION : _____
COUNTERSIGNED: _____
DESIGNATION : _____

TIME : _____
DATE : _____
TIME : _____
DATE : _____

Received on behalf of Contractor by

NAME : _____
SIGNED : _____

TIME : _____
DATE : _____

N.B. Top copy -White; E.R.

Duplicates -Blue: Contractor; Pink: ER; Yellow: Contractor

* Delete where inappropriate

Countersigned by Resident Engineer may be required for critical items

Appendix E Tree Planting Plans

GENERAL NOTES FOR LANDSCAPE WORKS:

1. GENERAL INFORMATION

THESE DRAWING PACKAGES INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGN, REFER TO ENGINEERING PACKAGE. FOR CONSTRUCTION OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGE AND UTILITIES, REFER TO ENGINEERING DRAWING PACKAGE. THE CONTRACTOR SHALL REPORT TO THE SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.

2. DRAWING DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

3. EXISTING TREES/VEGETATION

THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN G.S. SECTION 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-INSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.

4. TREE FELLING

NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE OLD APPROVAL.

5. GROUND PREPARATION WORKS

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

6. SOIL MIX AND SOIL CONDITIONER

SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.30 - SOIL-MIX AND G.S. CLAUSE 3.31 FOR SOIL CONDITIONER.

7. MULCHING

TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25mm BELOW ADJACENT FINISHED SURFACES, AND COMPLY WITH G.S. CLAUSE 3.32.

8. PLANT NAME

BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.

9. PLANTING PATTERN

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

10. TREE PLANTING

LOCATION OF TREES IS SHOWN ON THE DRAWING. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.

11. STAKING

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

12. DRAINAGE

ALL PLANTER DRAINAGE DETAILS AND NEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.

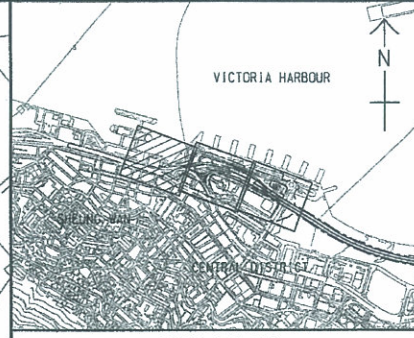
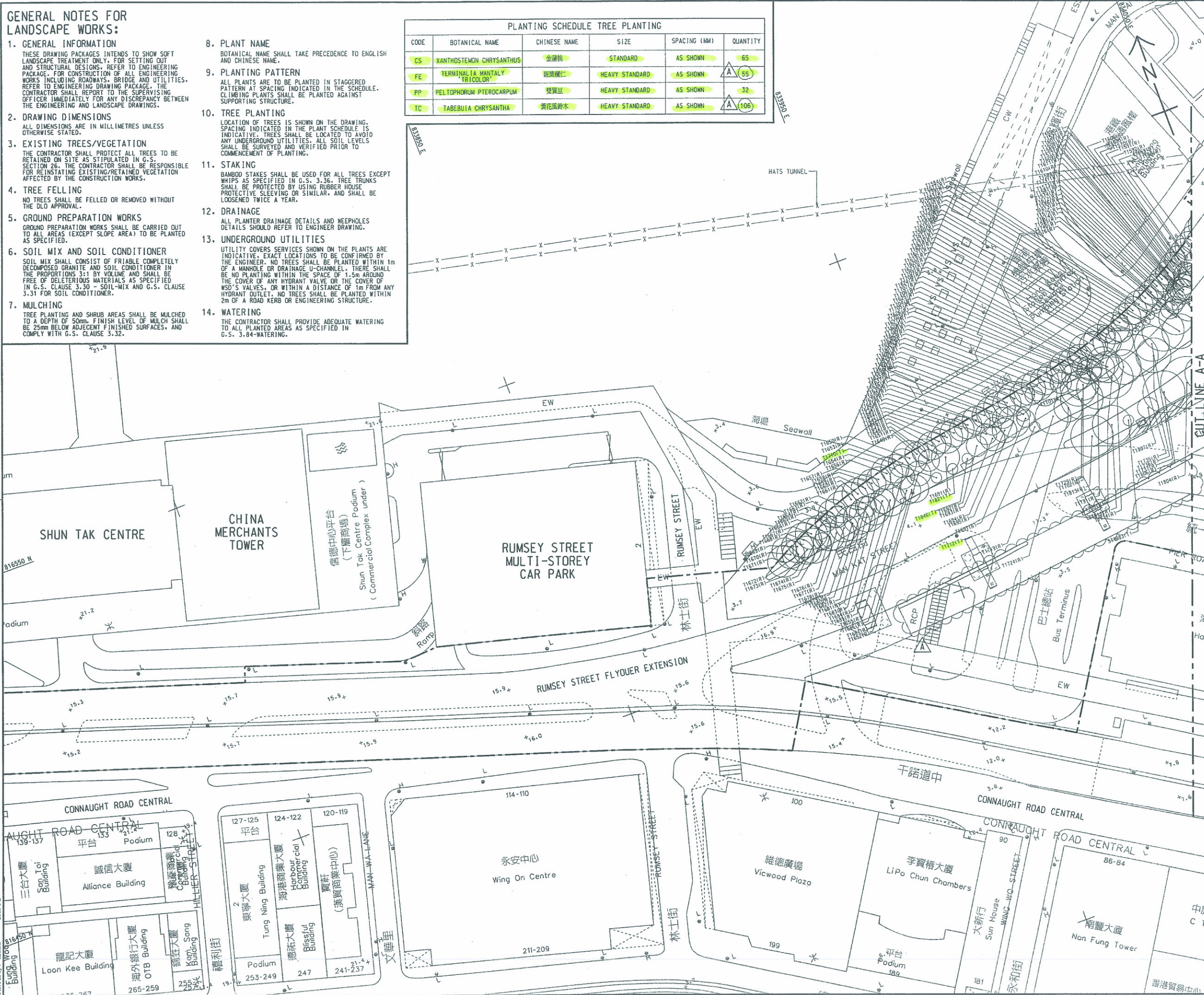
13. UNDERGROUND UTILITIES

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

14. WATERING

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

PLANTING SCHEDULE TREE PLANTING					
CODE	BOTANICAL NAME	CHINESE NAME	SIZE	SPACING (MM)	QUANTITY
CS	XANTHOSTEMON CHRYSANTHUS	金蒲桃	STANDARD	AS SHOWN	65
FE	TERMINALIA MANTALY TRICOLOR	斑葉楓仁	HEAVY STANDARD	AS SHOWN	55
PP	PELTOPHORUM PTEROCARPUM	雙翼豆	HEAVY STANDARD	AS SHOWN	32
TC	TABEBUIA CHRYSANTHA	黃花風鈴木	HEAVY STANDARD	AS SHOWN	106



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

NOTE:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. 60095653/C1/9012 AND 9013.

- LEGEND:**
- SITE BOUNDARY
 - T1140(R) EXISTING TREE TO BE RETAINED
 - PROPOSED TREE PLANTING
 - △ T1140(T) FINAL LOCATION OF TRANSPLANTED TREE BEFORE CONSTRUCTION WORKS
 - T1140(T) FINAL LOCATION OF TRANSPLANTED TREE AFTER CONSTRUCTION WORKS

B	WORKING DRAWING	ADAM BCC	OCT 10
A	TENDER ADDENDUM NO. 1	ADAM BCC	JUN 10
-	TENDER DRAWING	ADAM BCC	APR 10
REV. NO.	DESCRIPTION	DATE	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

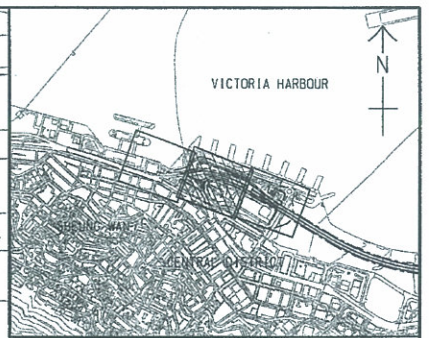
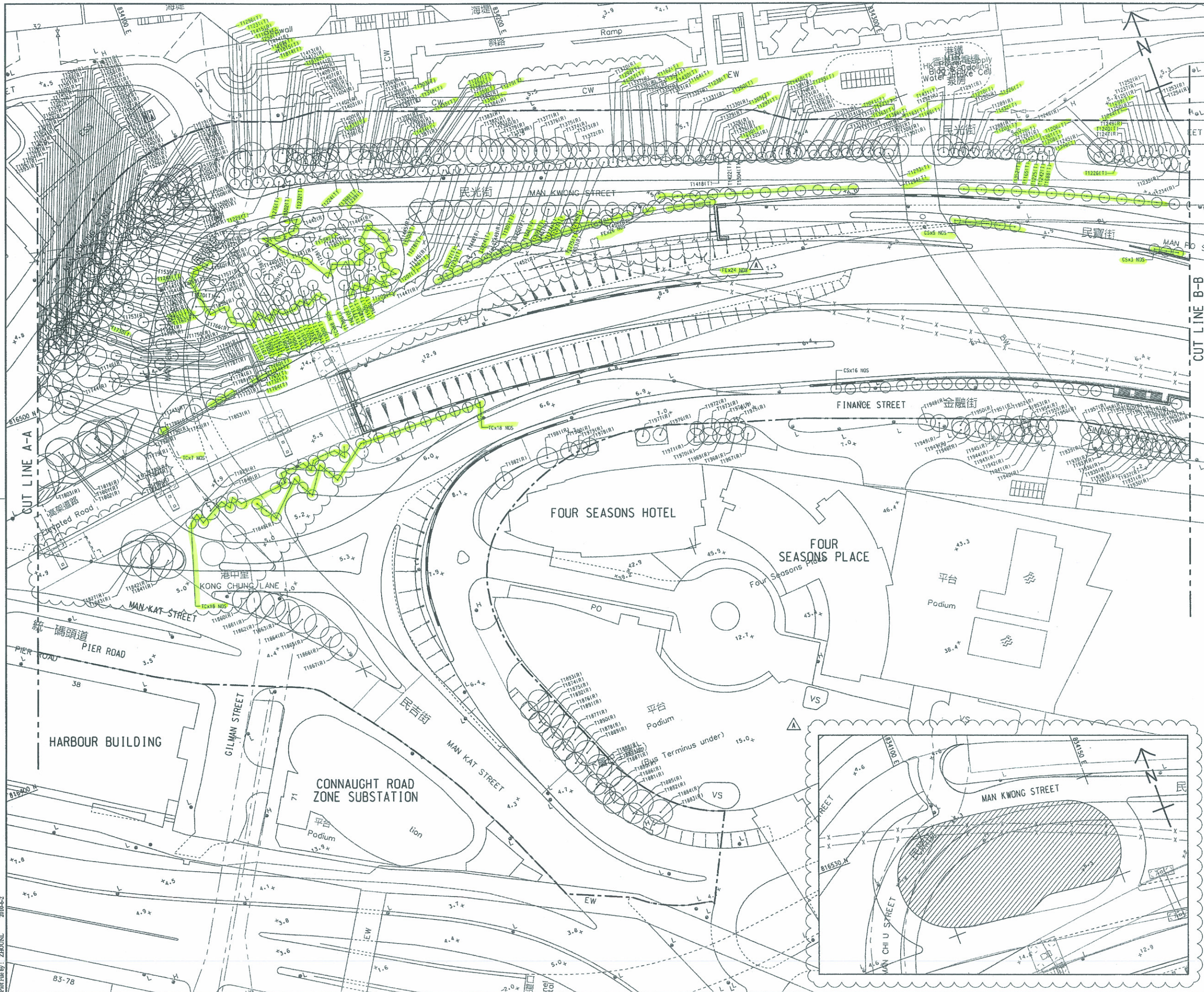
TREE PLANTING PLAN



DRG.NO. 60095653/C1/9011B
圖紙編號

DESIGNED BY VLMK CONTRACT NO. HY/2009/18 P. DIR. APPROVED CW
繪圖員 審核員

SCALE A1 1 : 500 A3 1 : 1000
DIMENSIONS ARE IN METRES
WORKING DRAWING
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KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

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



B	WORKING DRAWING	ACHAN/BCC	OCT 10
A	TENDER ADDENDUM NO. 1	ACHAN/BCC	JUN 10
-	TENDER DRAWING	ACHAN/BCC	APR 10

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工務計劃項目編號

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TREE PLANTING PLAN

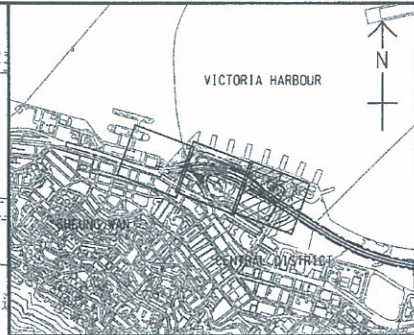
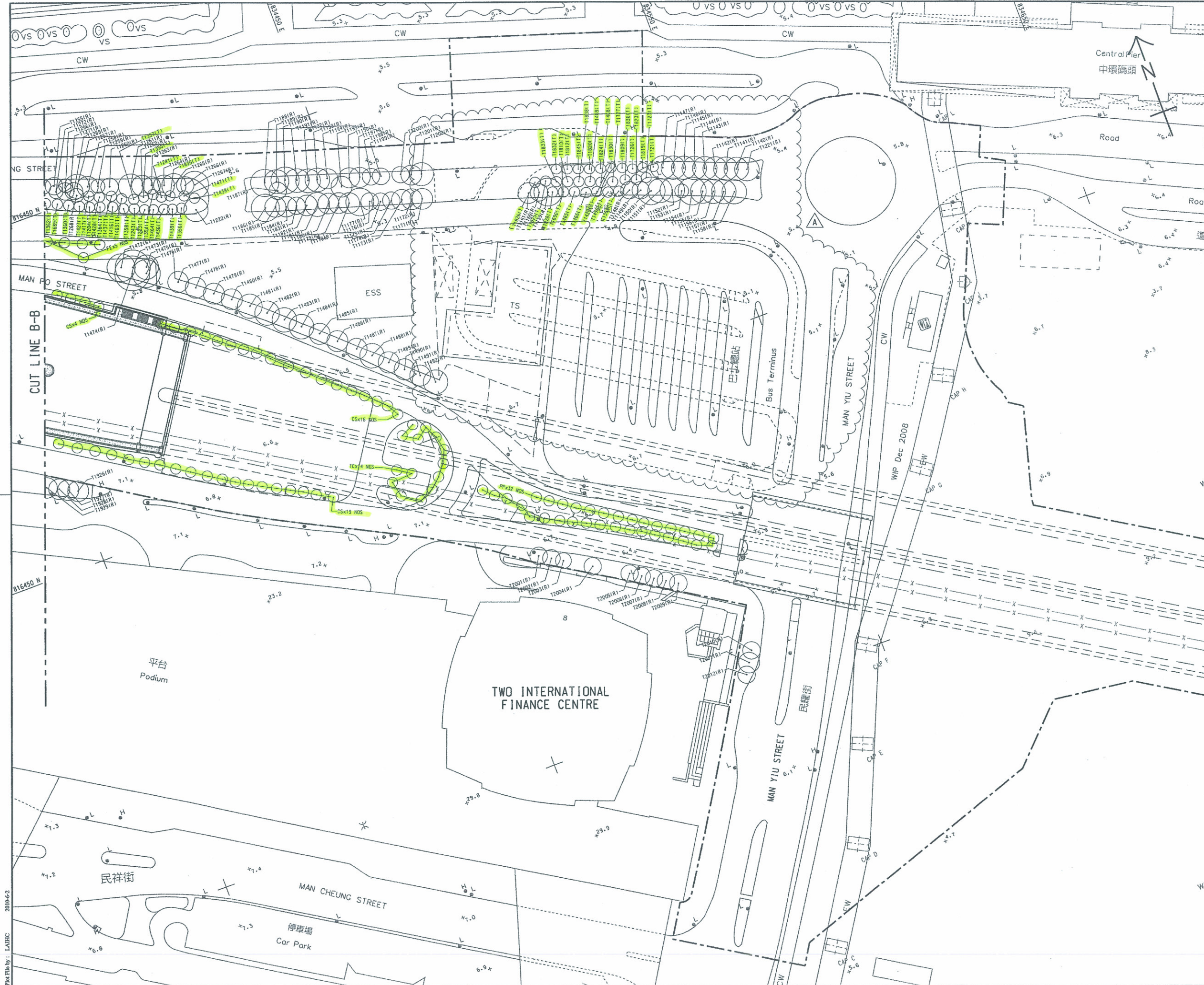
SHEET 2 OF 3

AECOM

DRG. NO. 60095653/C1/9012B
圖紙編號

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

Plot File by: ZHOJNLN
2010-6-2



KEY PLAN
SCALE A1 : 20000
A3 : 40000

- NOTES:**
1. FOR NOTES AND LEGEND SEE DRG. NO. 60095653/C1/9011.
 2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60095653/C1/9011 AND 9012.
 3. PUBLIC TRANSPORT INTERCHANGE (PTI) AND PAVEMENT AT MAN KWING STREET AND MAN YIU STREET WILL BE CONSTRUCTED BY HYD'S TERM CONTRACTOR. THE CONTRACTOR SHALL CO-ORDINATE WITH HYD'S TERM CONTRACTOR IN ORDER TO FACILITATE THE CONSTRUCTION WORK.

LEGEND:

WORKS TO BE CONSTRUCTED BY OTHERS (HYD'S TERM CONTRACTOR)

B	WORKING DRAWING	ACHAN BCC OCT 10
A	TENDER ADDENDUM NO. 1	ACHAN BCC JUN 10
-	TENDER DRAWING	ACHAN BCC APR 10

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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 3 OF 3



DRG. NO.	60095653/C1/9013B
DESIGNED BY	VLMK
CONTRACT NO.	HY/2009/18
APPROVED BY	CH
DRAWN BY	NHP
STATUS	WORKING DRAWING
SCALE	A1 1 : 500 A3 1 : 1000
DIMENSIONS ARE IN METRES	
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Plot File by : LAIHC 2010-6-2

Appendix F Shrub Planting Plans

PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION(mm) HEIGHT(H)xSPREAD	SPACING (mm)	NO./m ²	QUANTITY	COMMENT		
SHRUB PLANTING									
ACW	ACALYPHA WILKESIANA 'TRICOLOR'	五彩大葉紅桑	500(H)x500(S)	400	7.25	2373	PLANT ALL SPECIES IN A STAGGERED PATTERN		
AGO	AGLAIA ODORATA	米仔樹	500(H)x500(S)	400	7.25	237			
AIN	ALLAMANDA NERIFOLIA	硬枝黃蟬	400(H)x400(S)	300	12.54	835			
AIZ	ALPINIA ZERUMBERT 'VARIEGATA'	花葉地山薑	400(H)x400(S)	300	12.54	5881			
CAH	CALLIANDRA HAEMATOCEPHALA	紅絨球	500(H)x500(S)	400	7.25	95			
CAJ	CAMELLIA JAPONICA	山茶	500(H)x500(S)	400	7.25	1443			
CDV	CODIAEUM VARIEGATUM	洒金榕	400(H)x400(S)	300	12.54	12921			
CTR	CORDYLINE TERMINALIS 'RUBRA'	朱蕉	500(H)x400(S)	300	12.54	13294			
CUI	CUPHEA IGNEA	雪茄花	300(H)x300(S)	300	12.54	281			
DRG	DURANTA REPENS 'GOLDEN'	金蓮龜	400(H)x400(S)	300	12.54	18716			
ERD	ERVATAMIA DIVARICATA	狗牙花	500(H)x500(S)	400	7.25	704			
FMG	FIGUS MICROCARPA 'GOLDEN LEAF'	黃榕	500(H)x500(S)	400	7.25	8390			
HIA	HIBISCUS ACETOSELLA	紅葉檉	400(H)x400(S)	300	12.54	3004			
HRS	HIBISCUS ROAS-SINENSIS 'YELLOW'	扶桑黃花	500(H)x500(S)	400	7.25	10230			
IXC	LXORA COCCINEA 'LUTEA'	黃花龍船花	400(H)x400(S)	300	12.54	6426			
IXW	LXORA WILLIAMIRI 'SUNKIST'	矮龍船	300(H)x300(S)	300	12.54	1214			
JAS	JASMINUM SAMBAC	茉莉	500(H)x500(S)	400	7.25	1421			
LSI	LIGUSTRUM ISNENSE	山指甲	500(H)x500(S)	400	7.25	989			
OSF	OSMANTHUS FRAGRANS	桂花	500(H)x500(S)	400	7.25	4731			
PEL	PENTAS LANCEOLATA	五星花	300(H)x300(S)	300	12.54	467			
PIT	PITTIOSPORUM TOBIRA	海桐花	500(H)x500(S)	400	7.25	668			
POG	POLYSCIAS GUILFOYLEI 'VARIEGATA'	花葉銀沙梨	500(H)x500(S)	400	7.25	2622			
RHP	RHODODENDRON PULCHRUM	紫杜鵑	500(H)x500(S)	400	7.25	1240			
SCA	SCHEFFLERA ARBORICOLA 'VARIEGATA'	花葉八葉	500(H)x500(S)	400	7.25	1229			
TES	TECOMA STANS	黃鐘花	500(H)x500(S)	400	7.25	4187			
THP	THEVETIA PERUVIANA	黃花夾竹桃	500(H)x500(S)	400	7.25	53			
GROUND COVER PLANTING									
APG	ARACHIS PINTOI 'GOLDEN GLORY'	花生藤	100(H)x200(S)	200	29	333		PLANT ALL SPECIES IN AN ALTERNATE PATTERN ALONG THE WALL	
ASS	ASPARAGUS SPRENGERI	天冬	200(H)x200(S)	200	29	413			
IRH	IRESENE HERBSTII	血葉	200(H)x200(S)	200	29	2741			
LAC	LANTANA CAMARA 'FLAVA'	黃花馬纓丹	200(H)x200(S)	200	29	3504			
RHD	RHOEO DISCOLOR	蚌花	200(H)x200(S)	200	29	207			
ZEG	ZEPHYRANTHES GRANDIFLORA	風雨花	100(H)x200(S)	200	29	2480			
GROUND COVER PLANTING									
FIP	FIGUS PUMILA	薛荔	3 SHOOTS PER PLANT, EACH SHOOT 1000mm LONG	300	12.54	1075			
PAH	PARTHENOCISSUS HIMALAYANA	爬牆虎	3 SHOOTS PER PLANT, EACH SHOOT 1000mm LONG	300	12.54	1075			

GENERAL NOTES FOR LANDSCAPE WORKS:

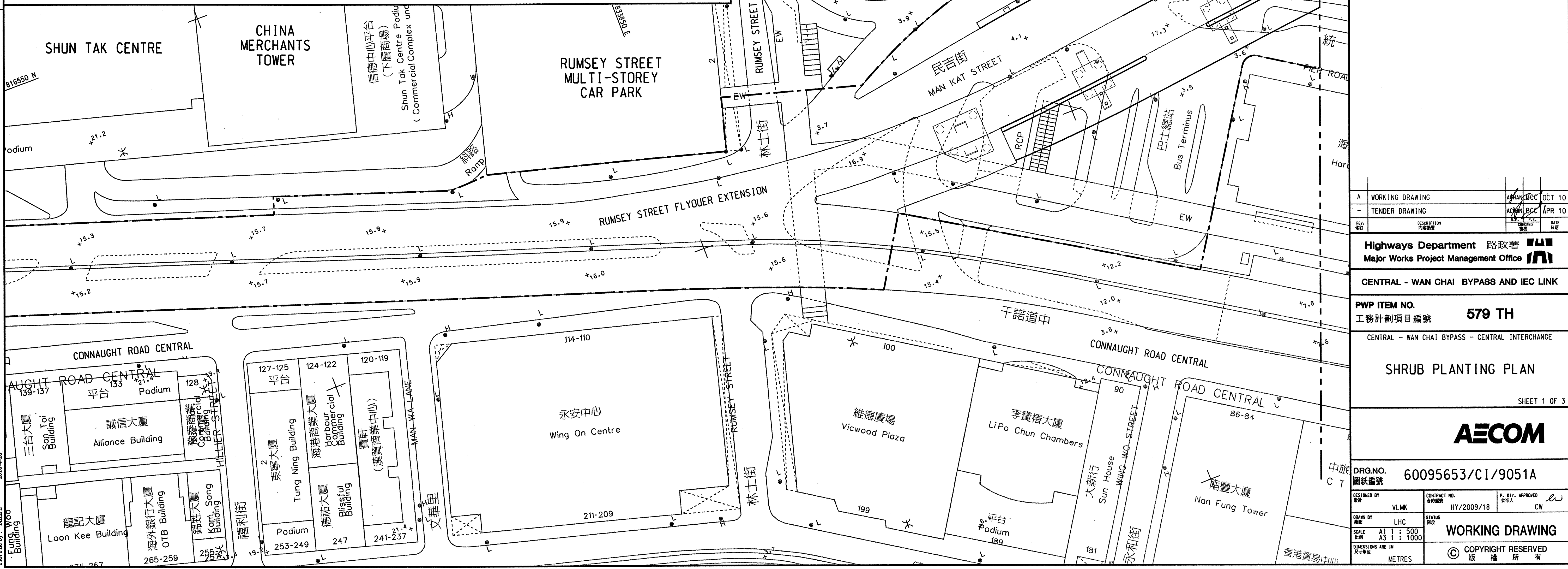
- GENERAL INFORMATION**
THESE DRAWING PACKAGES INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY, FOR SETTING OUT AND STRUCTURAL DESIGNS. REFER TO ENGINEERING PACKAGE FOR CONSTRUCTION OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGE AND UTILITIES. REFER TO ENGINEERING DRAWING PACKAGE. THE CONTRACTOR SHALL REPORT TO THE SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
- DRAWING DIMENSIONS**
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
- EXISTING TREES/VEGETATION**
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN G.S. SECTION 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.
- TREE FELLING**
NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE DLO APPROVAL.
- GROUND PREPARATION WORKS**
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
- SOIL MIX AND SOIL CONDITIONER**
SOIL MIX SHALL CONSIST OF FRIBLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.30 - SOIL-MIX AND G.S. CLAUSE 3.31 FOR SOIL CONDITIONER.
- MULCHING**
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25mm BELOW ADJACENT FINISHED SURFACES, AND COMPLY WITH G.S. CLAUSE 3.32-MULCH.
- PLANT NAME**
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
- PLANTING PATTERN**
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.
- TREE PLANTING**
LOCATION OF TREES IS SHOWN ON THE DRAWING. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
- STAKING**
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENED TWICE A YEAR.
- DRAINAGE**
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.
- UNDERGROUND UTILITIES**
UTILITY COVERS SERVICES SHOWN ON THE PLANTS ARE INDICATIVE. EXACT LOCATIONS TO BE CONFIRMED BY THE ENGINEER. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSD'S VALVES, OR WITHIN A DISTANCE OF 1m FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2m OF A ROAD KERB OR ENGINEERING STRUCTURE.
- WATERING**
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.



KEY PLAN
SCALE A3 1 : 2000
A3 1 : 4000

- NOTES:**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. 60095653/C1/9052 AND 9053.
 - EXISTING TREES NOT SHOWN WILL NOT BE AFFECTED BY THE PROJECT.

- LEGEND:**
- SITE BOUNDARY
 - PROPOSED CLIMBER PLANTING ALONG THE WALL IN ALTERNATE PATTERN
 - EXISTING PLANTER WILL BE AFFECTED BY THE PROJECT AND REPLANTED THE EXISTING VEGETATION
 - LANDSCAPE FEATURE AND LIGHTING (DETAILS REFER TO DWG. NO. 60095653 /C1/9031, 9041, 9042 AND 9061)
 - STONE FACING FINISHING
 - AGD 50 --- SHRUB CODE QUANTITY



A	WORKING DRAWING	APPROVED	OCT 10
-	TENDER DRAWING	APPROVED	APR 10
REV.	DESCRIPTION	DATE	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

SHRUB PLANTING PLAN
SHEET 1 OF 3

AECOM

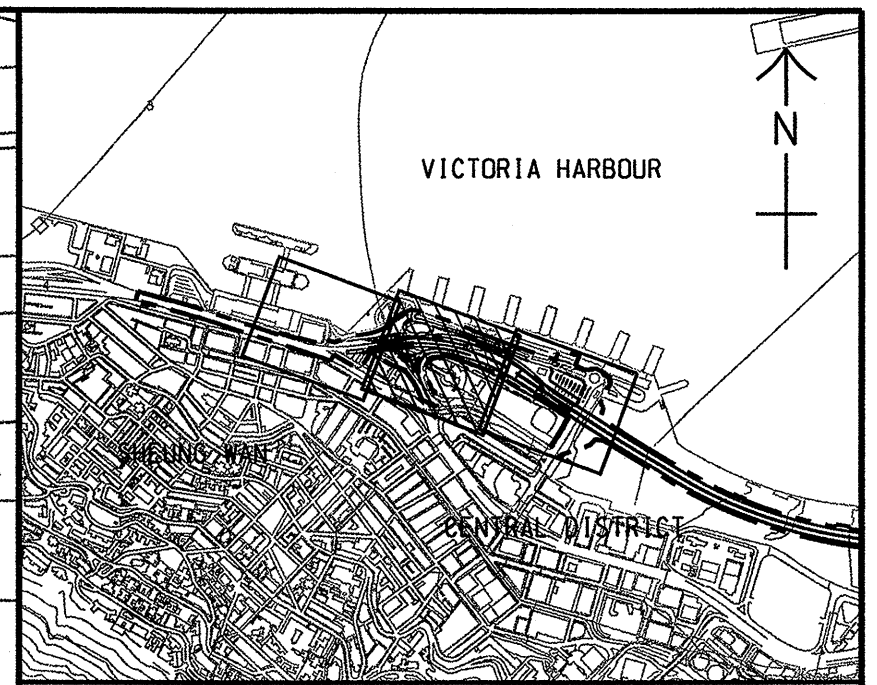
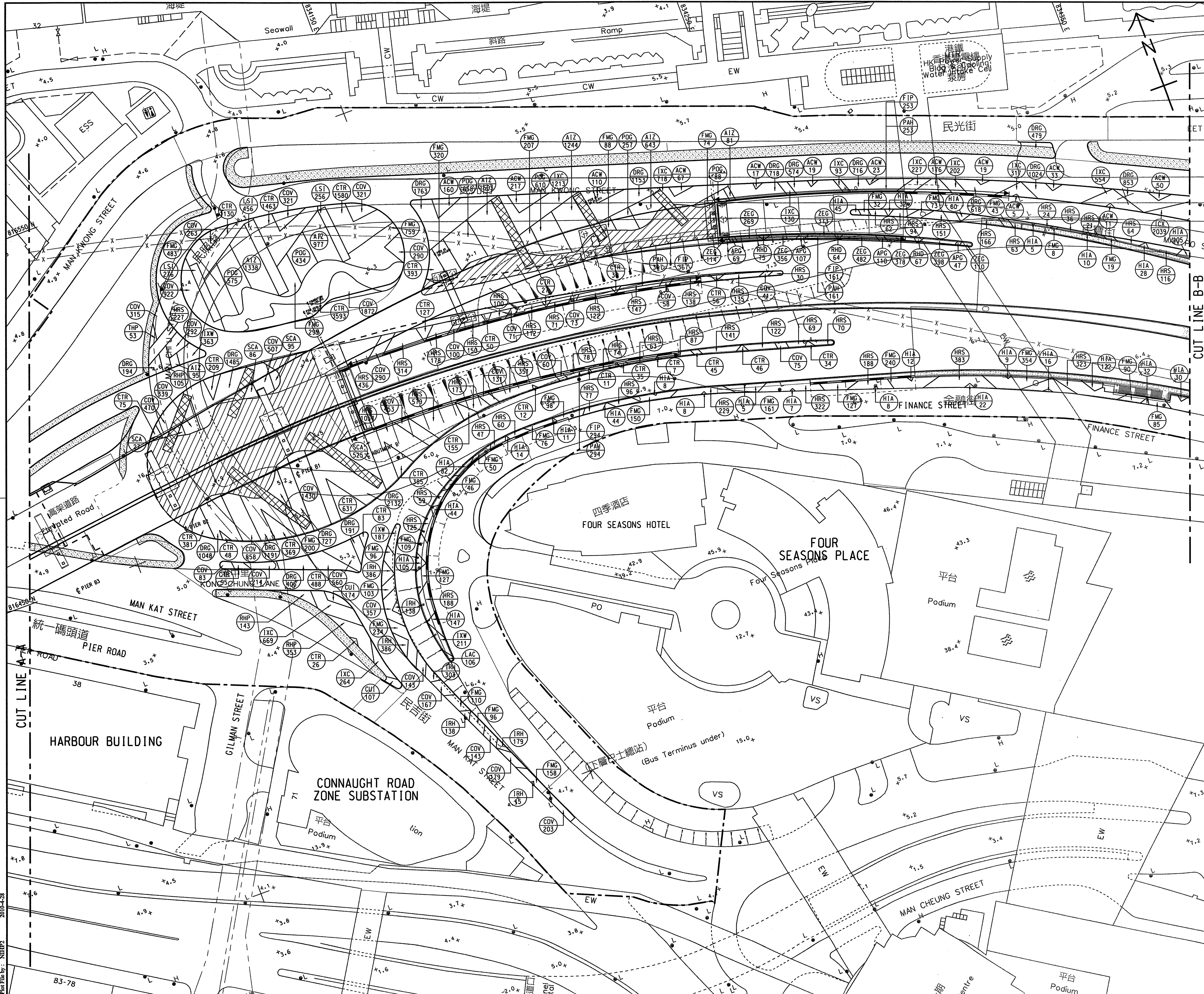
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DESIGNED BY VLMK
DRAWN BY LHC
SCALE A1 1 : 500
A3 1 : 1000
DIMENSIONS ARE IN METRES

CONTRACT NO. HY/2009/18
STATUS 04
APPROVED BY CW

WORKING DRAWING
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KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

NOTE:
1. FOR NOTES AND LEGEND SEE DRG. NO. 60095653/C1/9051.

A	WORKING DRAWING	AWM/BCC	OCT 10
-	TENDER DRAWING	AGAN/BCD	MAR 10
REV.	DESCRIPTION	DATE	DATE
修訂	內容摘要	日期	日期

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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

SHRUB PLANTING PLAN

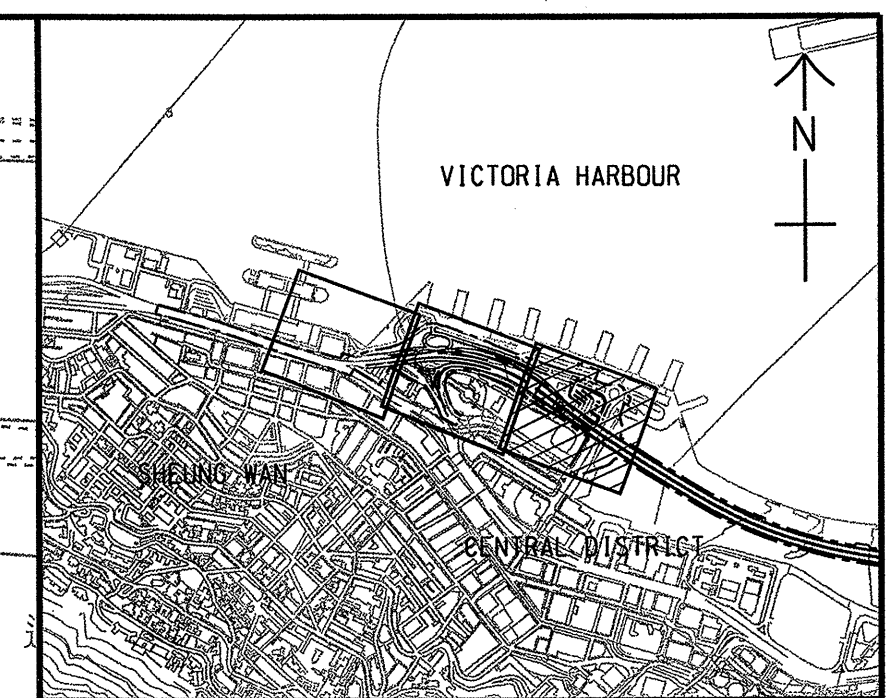
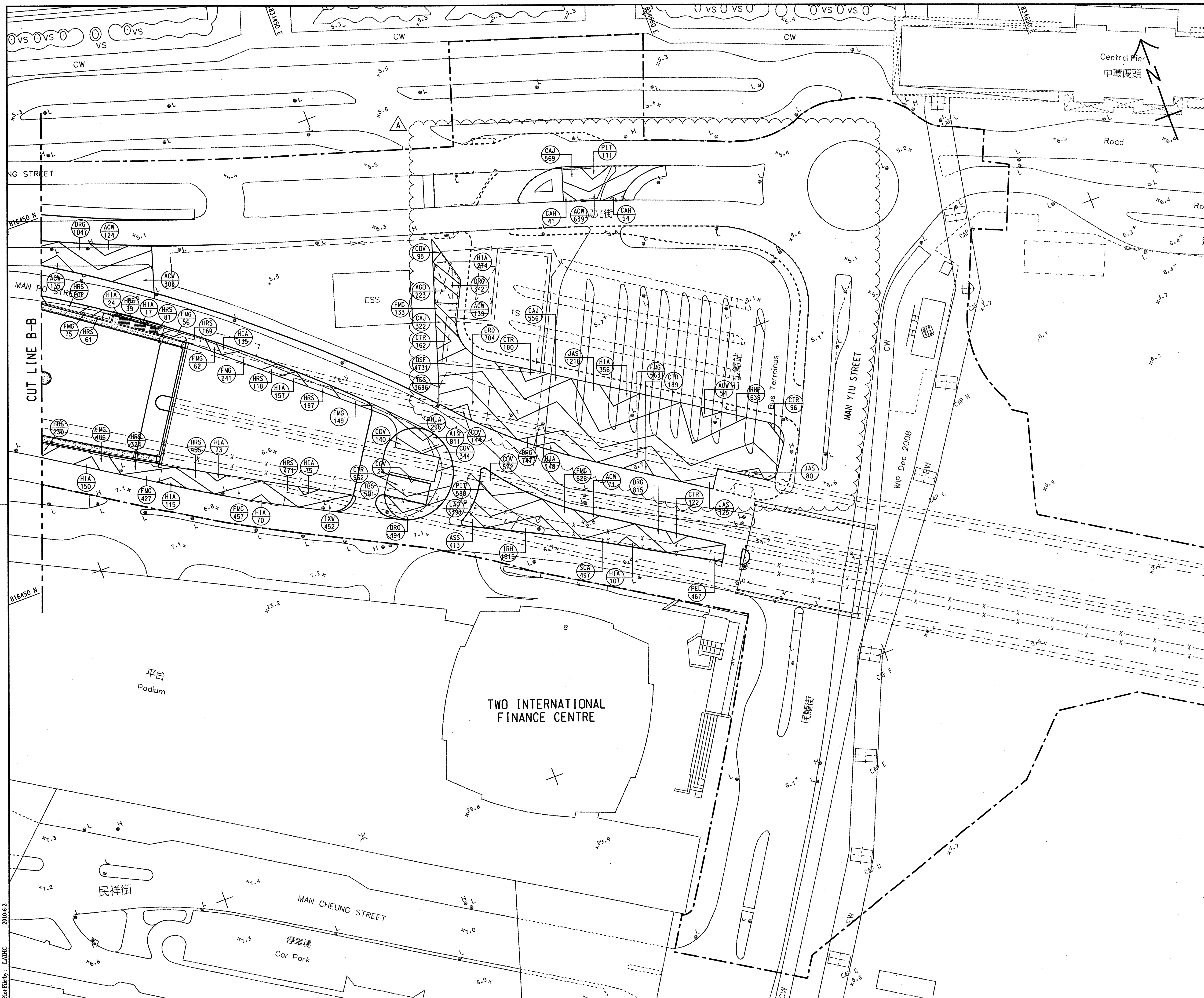
SHEET 2 OF 3



DRG. NO. 60095653/C1/9052A
圖紙編號

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VLMK	HY/2009/18	CW
DRAWN BY 繪圖	STATUS 階段	
WYP	WORKING DRAWING	
SCALE 比例	DIMENSIONS ARE IN METRES	
A1 1 : 500 A3 1 : 1000	© COPYRIGHT RESERVED 版權所有	

Plot File by: NIHF2
2010-4-28



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

- NOTES:**
- FOR NOTES AND LEGEND SEE DRG. NO. 60095653/C1/9051.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60095653/C1/9051 AND 9052.
 - PUBLIC TRANSPORT INTERCHANGE (PTI) AND PAVEMENT AT MAN KWONG STREET AND MAN YIU STREET WILL BE CONSTRUCTED BY HYD'S TERM CONTRACTOR. THE CONTRACTOR SHALL CO-ORDINATE WITH HYD'S TERM CONTRACTOR IN ORDER TO FACILITATE THE CONSTRUCTION WORK.

LEGEND:

WORKS TO BE CONSTRUCTED BY OTHERS (HYD'S TERM CONTRACTOR)

B	WORKING DRAWING	ACHAN/BCC	OCT 10
A	TENDER ADDENDUM NO. 1	ACHAN/BCC	JUN 10
-	TENDER DRAWING	ACHAN/BCC	APR 10
REV. 修訂	DESCRIPTION 內容摘要	DATE 日期	

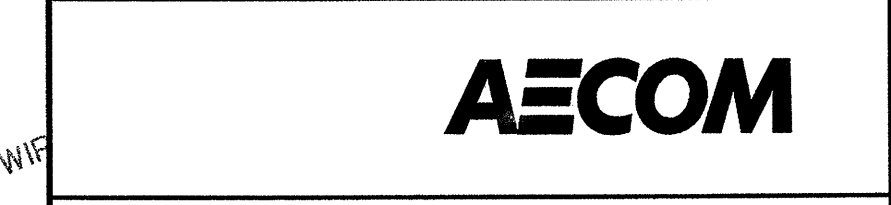
Highways Department 路政署
Major Works Project Management Office

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

SHRUB PLANTING PLAN
SHEET 3 OF 3

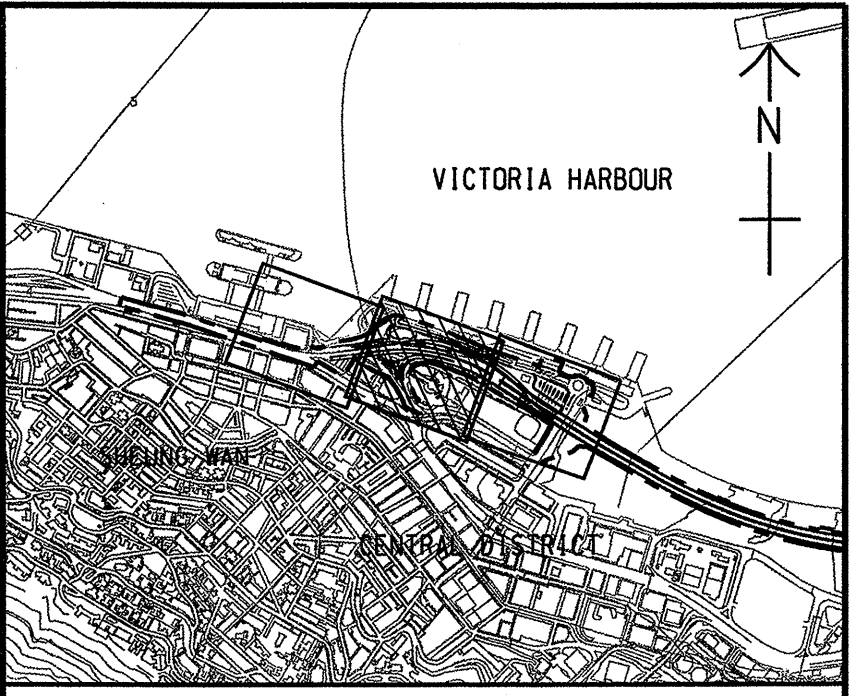
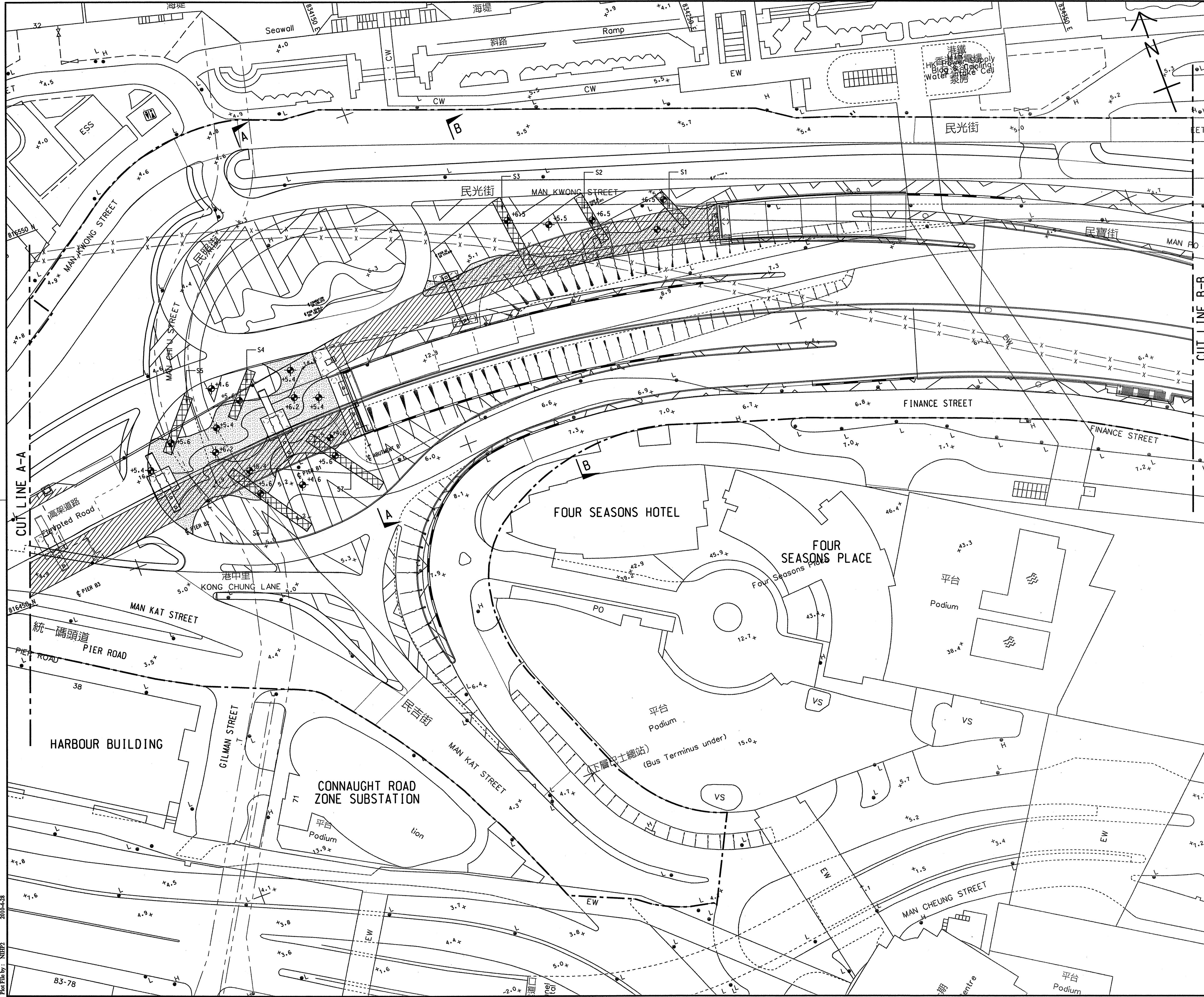


DRG.NO. **60095653/C1/9053B**
圖紙編號

DESIGNED BY 設計	VLKM	CONTRACT NO. 合約編號	HY/2009/18	APPROVED BY 核准人	CW
DRAWN BY 繪圖	LJ	STATUS 階段	WORKING DRAWING		
SCALE 比例	A1 1 : 500 A3 1 : 1000	DIMENSIONS ARE IN METRES			
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Plot File: LAIHC 2010-6-2

Appendix G Hard Landscape Sections and Details



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

- NOTES:**
1. ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
 2. FOR SECTIONS REFER TO DRAWING NO. 60095653/C1/9041.
 3. DETAILS OF THE LANDSCAPE FEATURES AND STONE FACING FINISHING REFER TO DRAWING NO. 60095653/C1/9042.
 4. SIZES OF LANDSCAPE FEATURES
S1 11L x 1W x 1H
S2 14L x 1W x 1H
S3 19L x 1W x 1H
S4 13L x 1W x 1H
S5 15L x 1W x 1H
S6 24L x 1W x 1H
S7 22L x 1W x 1H

- LEGEND:**
- [Cross-hatched box] LANDSCAPE FEATURE S1 TO S7
 - [Stippled box] STONE FACING FINISHING

A	WORKING DRAWING	ASIAN ECC	OCT 10
-	TENDER DRAWING	ACHAN ECC	APR 10
REV.	DESCRIPTION	CHK'D	P.L.
號次	內容摘要	查核	日期

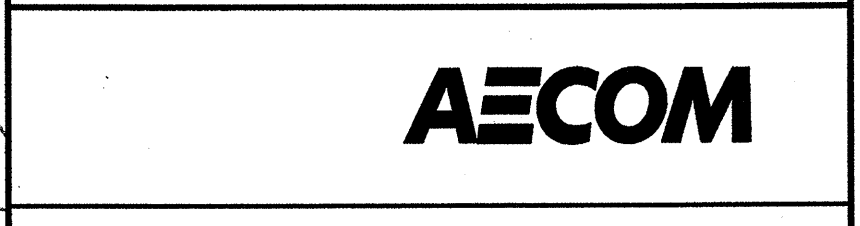
Highways Department 路政署
Major Works Project Management Office

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

HARD LANDSCAPE PLAN



DRG.NO. 60095653/C1/9031A
圖紙編號

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. DR. APPROVED 核准人
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WYP		

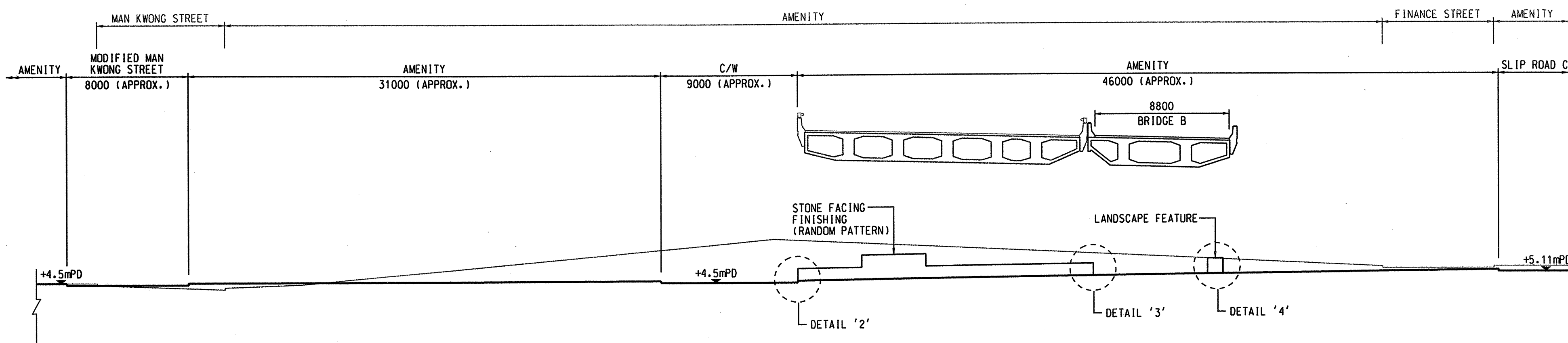
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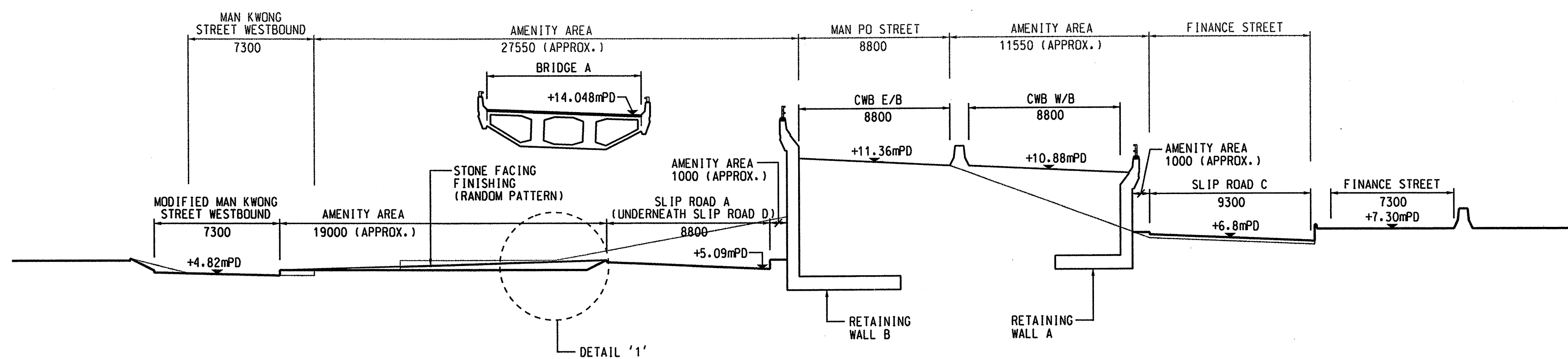
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NOTES:

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2. ALL DIMENSION ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
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SECTION A - A
SCALE A1 1 : 200
A3 1 : 400



SECTION B - B
SCALE A1 1 : 200
A3 1 : 400

A	WORKING DRAWING	ADW/BCC	OCT 10
-	TENDER DRAWING	ADW/BCC	APR 10
REV.	DESCRIPTION	BY	DATE
01	ISSUED FOR TENDER	VLK	10/04/10

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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

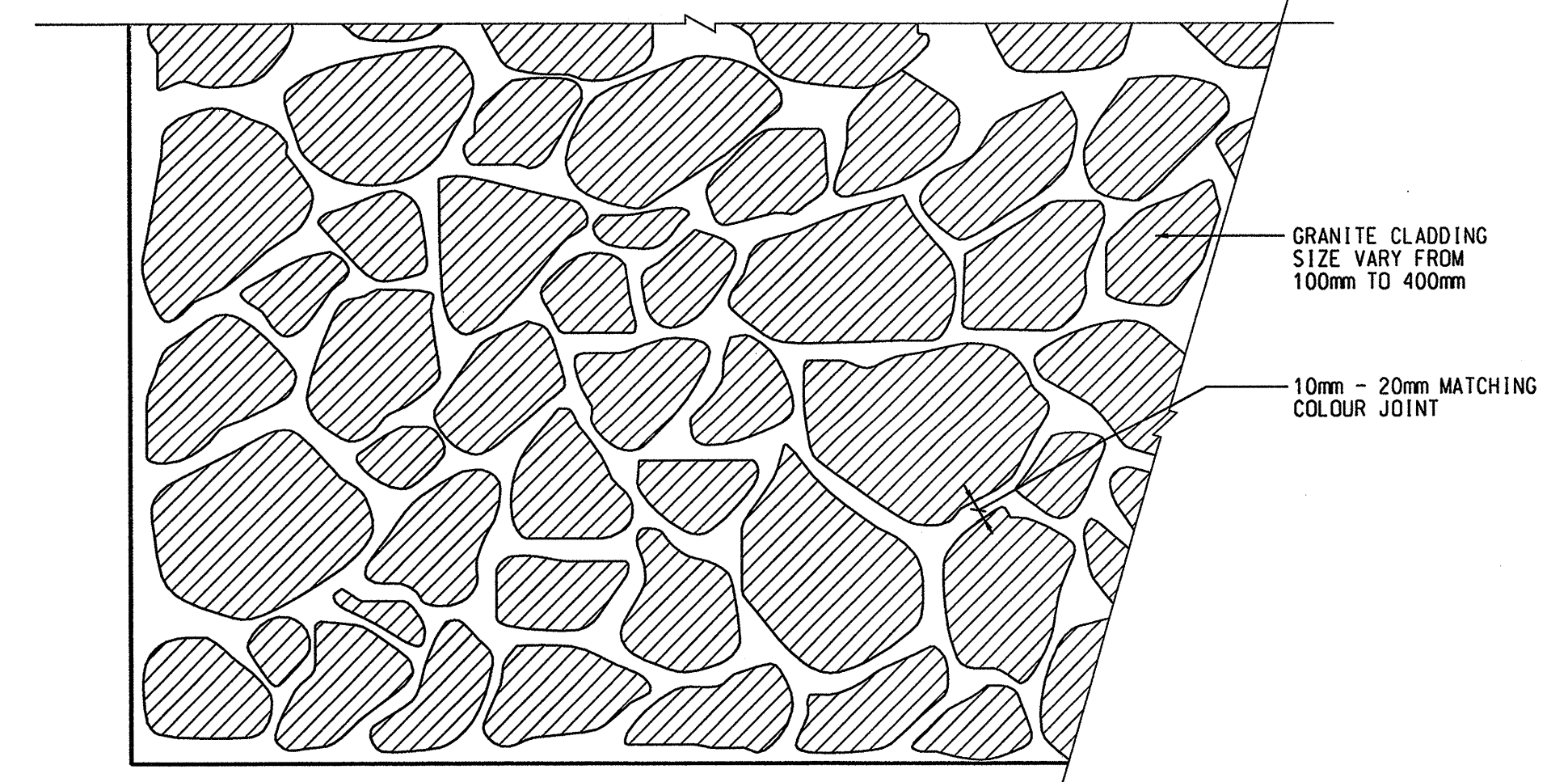
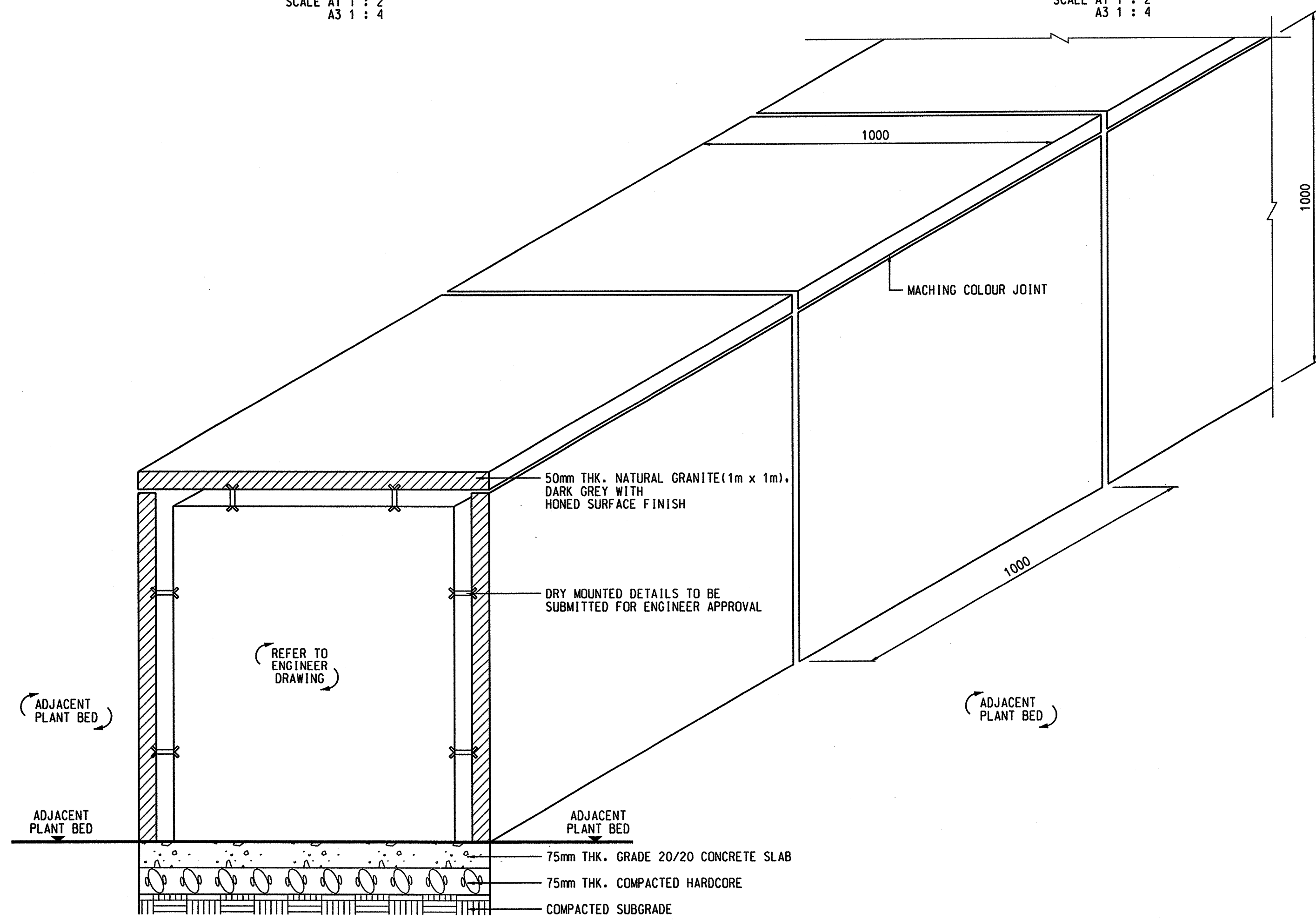
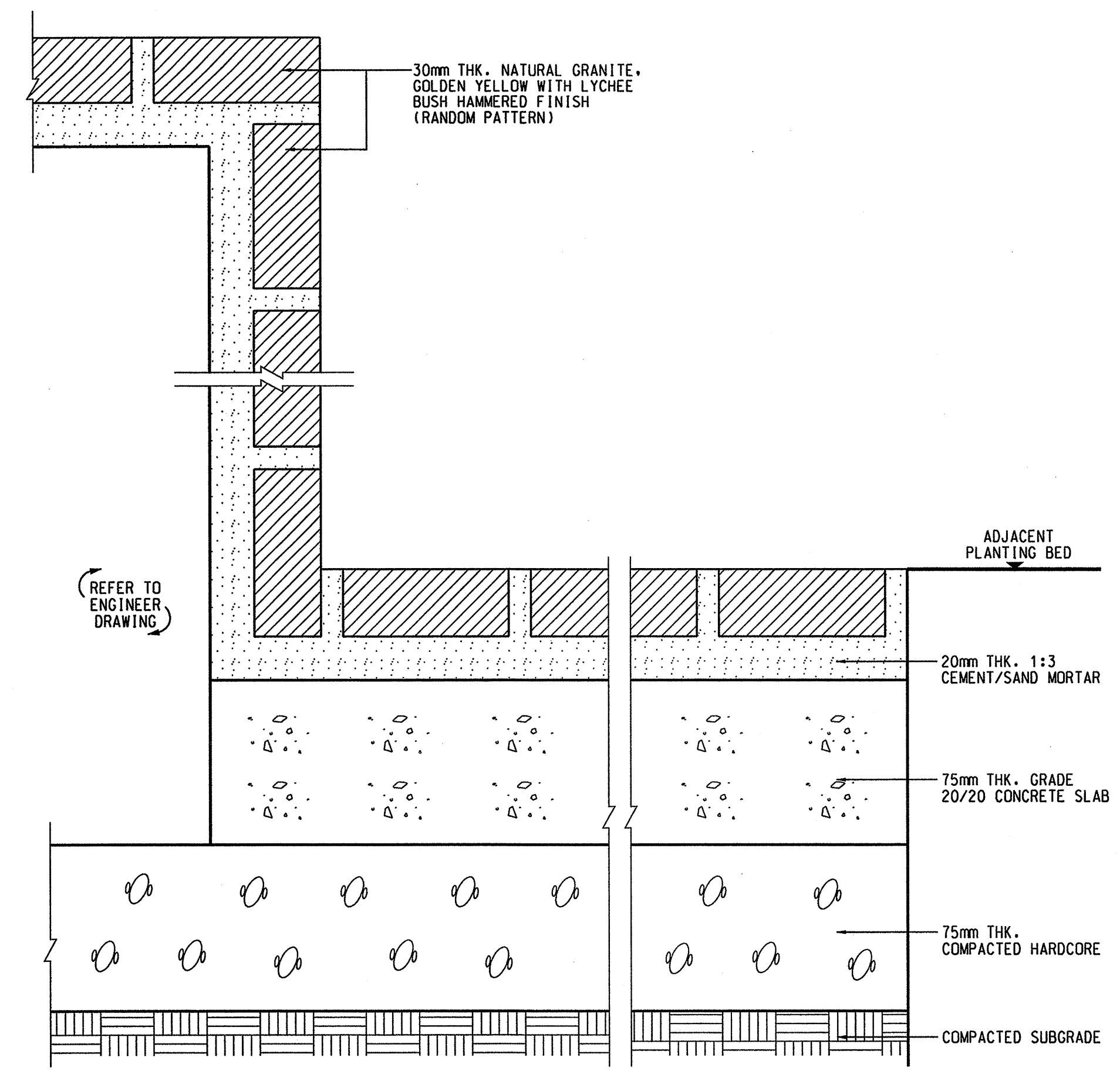
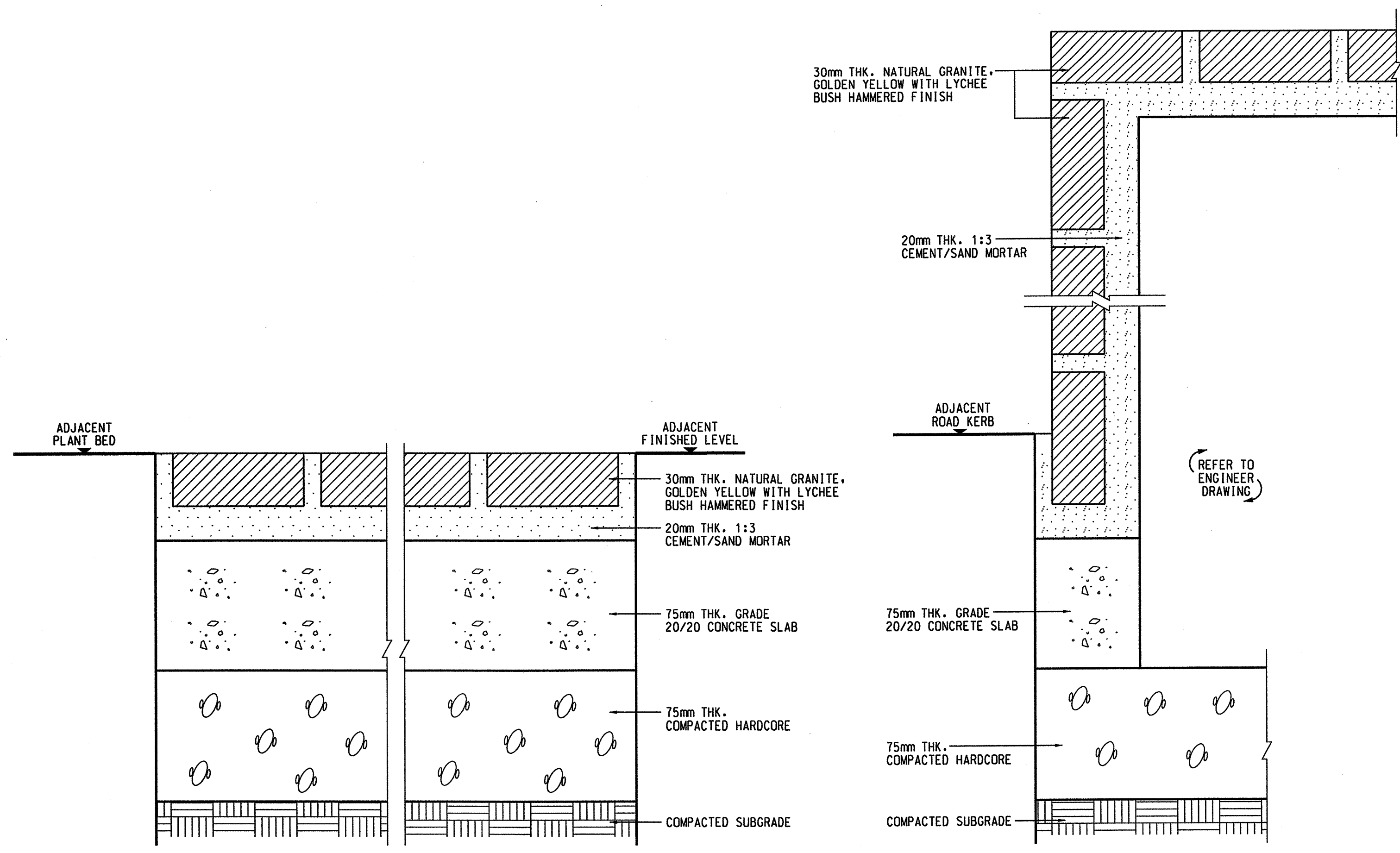
HARD LANDSCAPE SECTIONS AND DETAILS
SHEET 1 OF 2



DRG.NO. 60095653/CI/9041A
圖紙編號

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DRAWN BY NHP	STATUS WORKING DRAWING		
SCALE A1 1 : 200 A3 1 : 400	DIMENSIONS ARE IN MILLIMETERS		
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 4. NATURAL GRANITE FINISHING FOR THE HARD LANDSCAPE FEATURES SHALL BE DRY MOUNT.
 5. CONTRACTOR SHALL PROVIDE SHOP DRAWING SHOWING THE DETAILS AND DETAILED SETTING OUT OF THE HARD LANDSCAPE FEATURES AND THE DETAILS OF THE STONE FACING FINISHING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



REV.	DESCRIPTION	DATE
A	WORKING DRAWING	OCT 10
-	TENDER DRAWING	APR 10

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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

HARD LANDSCAPE SECTIONS AND DETAILS

SHEET 2 OF 2

AECOM

DRG.NO. 60095653/C1/9042A
圖紙編號

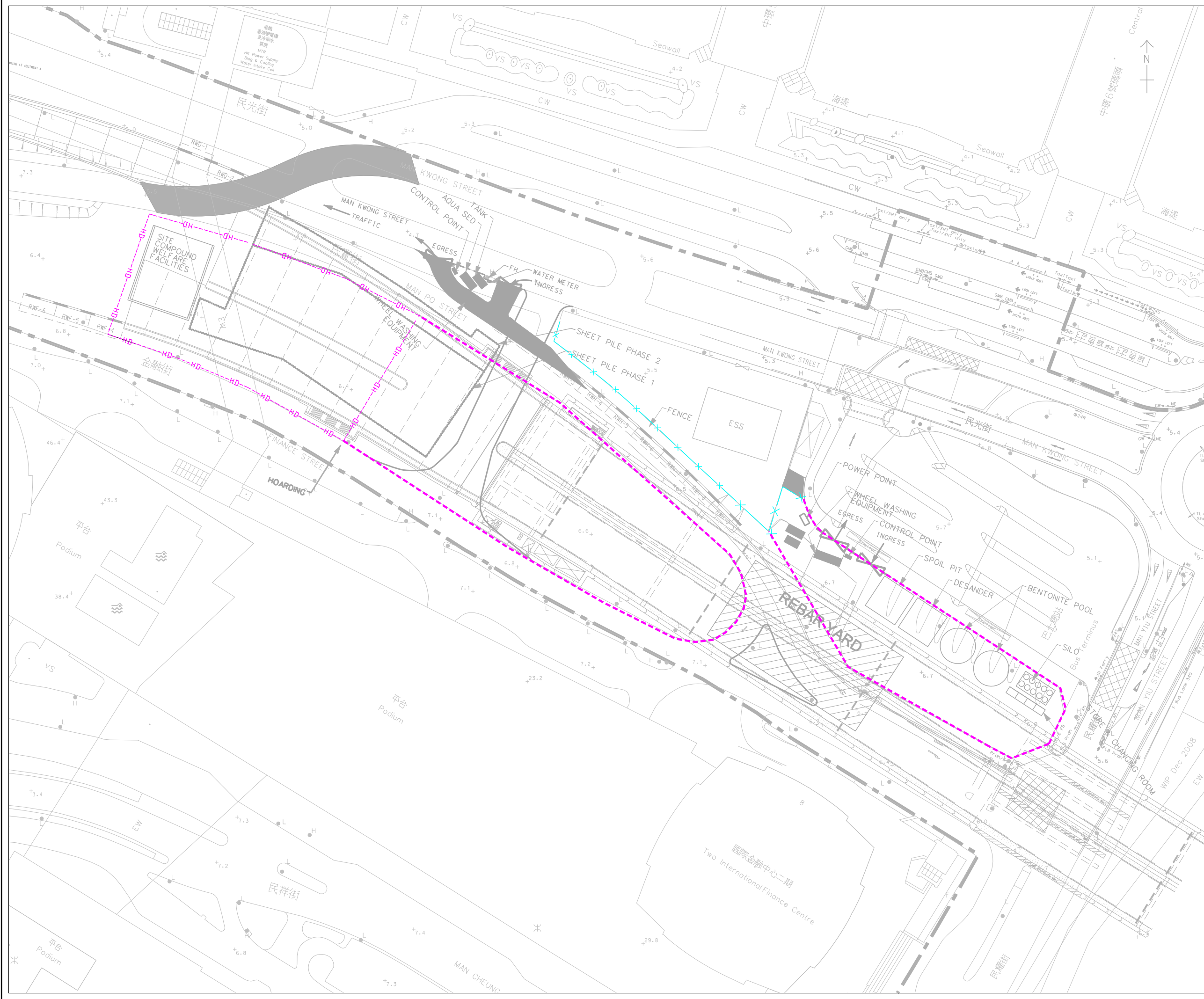
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SCALE A1 AS SHOWN
A3 AS SHOWN

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Appendix H Hoarding Plans



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NOTES:
1. ALL LEVELS ARE IN METRES ABOVE HONG KONG PRINCIPAL DATUM.

- LEGEND:
- HD---HD--- HOARDING(NEW)
 - HD---HD--- HOARDING(RELOCATED)
 - HD---HD--- HOARDING(RETAINED)
 - HD---HD--- ROAD BARRIER(NEW)
 - HD---HD--- ROAD BARRIER(RELOCATED)
 - HD---HD--- ROAD BARRIER(RETAINED)
 - X---X--- EXISTING CHAINLINK FENCE

REV.	DESCRIPTION	BY	CHECKED	DATE
01	FIRST ISSUE	EY	EY	MAR.11

CAD FILE: 110316_hoarding and barrier plan.EY.GARY.DGN

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CENTRAL - WAN CHAI BYPASS
CENTRAL INTERCHANGE

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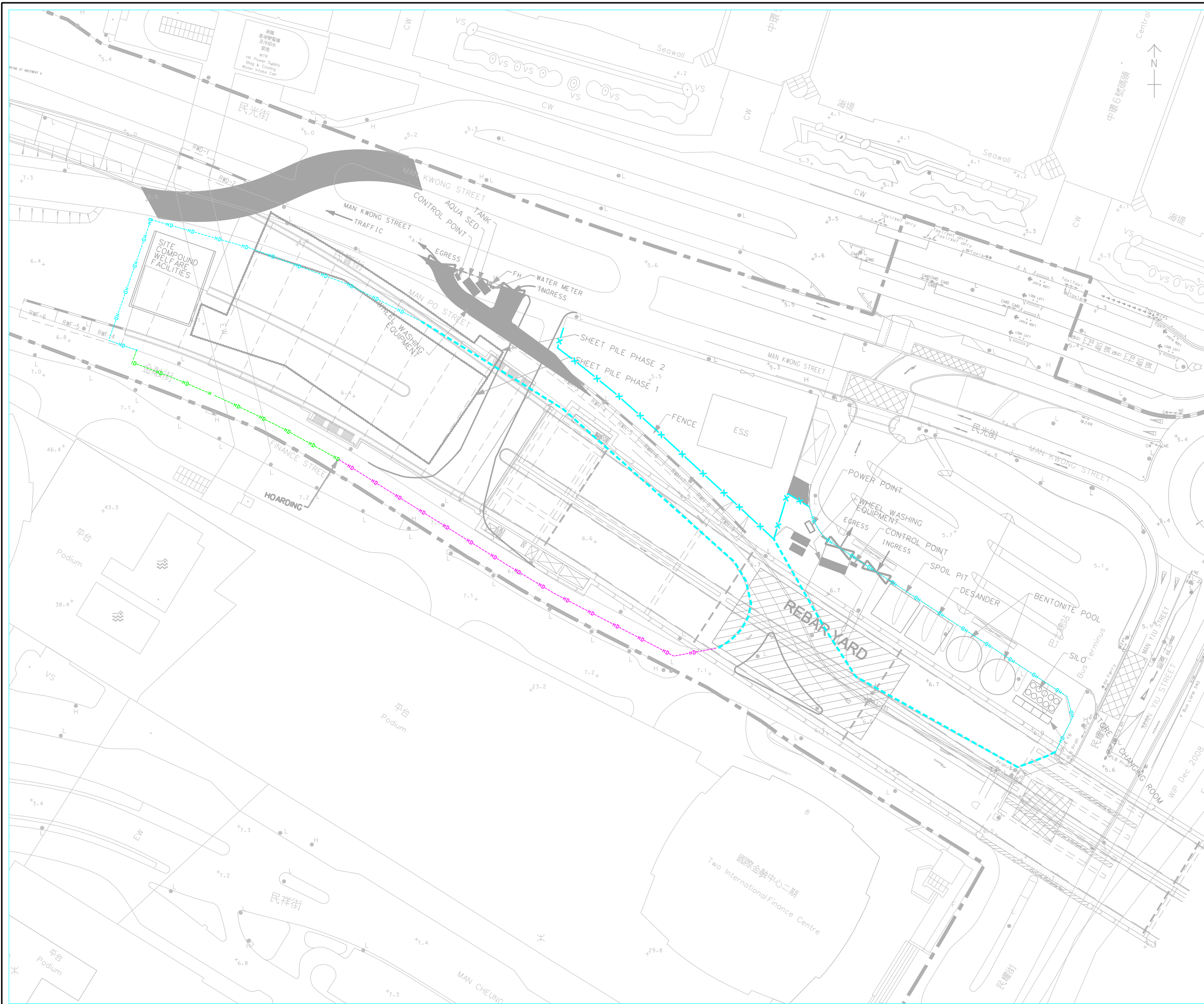
CONTRACTOR
LEIGHTON CONTRACTORS (ASIA) LTD.

DRAWING TITLE
**HOARDING AND BARRIER
PLAN STAGE 1 -
CONTRACT COMMENCEMENT TO
22 MARCH 2011**

DRG. NO. H2540/LCAL/TW/0065

DESIGN BY EY	DRAWN BY GARY	CHECKED BY EY
DATE MAR.11	DATE MAR.11	DATE MAR.11

SCALE A3 1 : 1000
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1. ALL LEVELS ARE IN METRES ABOVE HONG KONG PRINCIPAL DATUM.

- LEGEND :
- HD---HD--- HOARDING(NEW)
 - HD---HD--- HOARDING(RELOCATED)
 - HD---HD--- HOARDING(RETAINED)
 - RB---RB--- ROAD BARRIER(NEW)
 - RB---RB--- ROAD BARRIER(RELOCATED)
 - RB---RB--- ROAD BARRIER(RETAINED)
 - X---X---X--- EXISTING CHAINLINK FENCE

REV.	DESCRIPTION	BY	CHECKED	DATE
-	FIRST ISSUE	EY	EY	MAR.11

CAD FILE 110316_hoarding and barrier plan.EY.GARY.DGN

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DRAWING TITLE
HOARDING AND BARRIER PLAN STAGE 2 - 22 MARCH 2011 TO 22 APRIL 2011

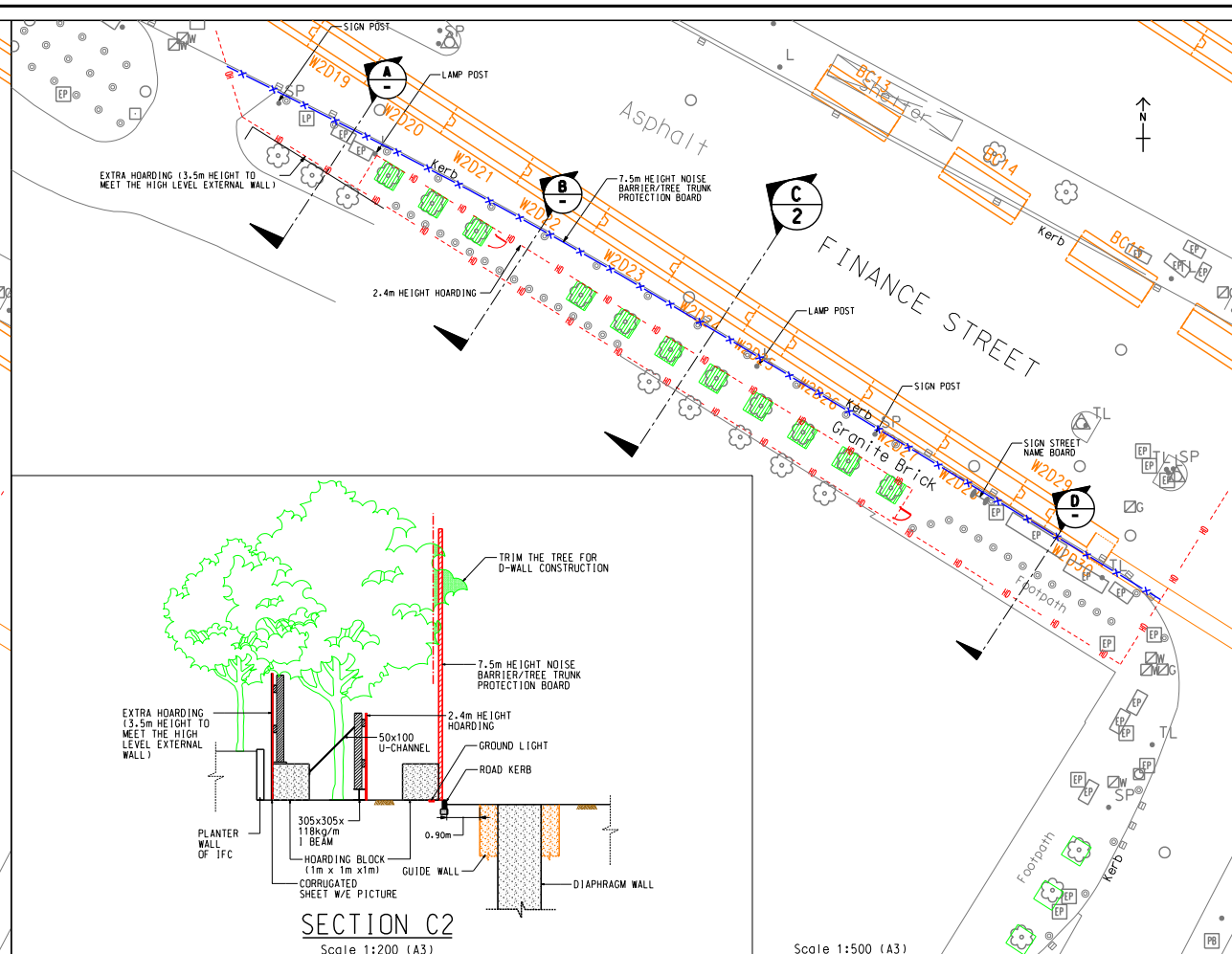
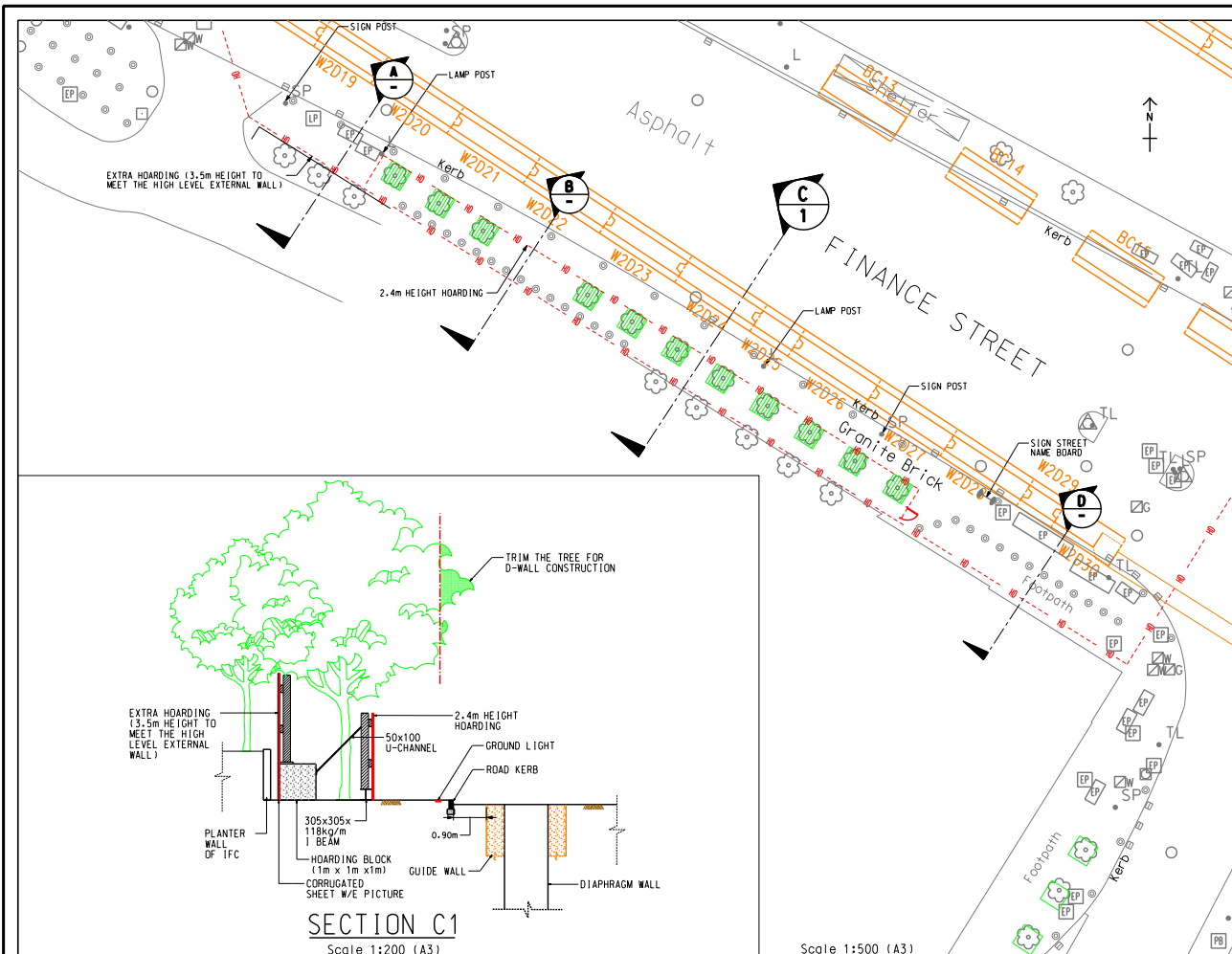
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DESIGN BY 設計	EY	DRAWN BY 繪圖	GARY	CHECKED BY 校核	EY
DATE 日期	MAR.11	DATE 日期	MAR.11	DATE 日期	MAR.11

SCALE 比例 A3 1 : 1000
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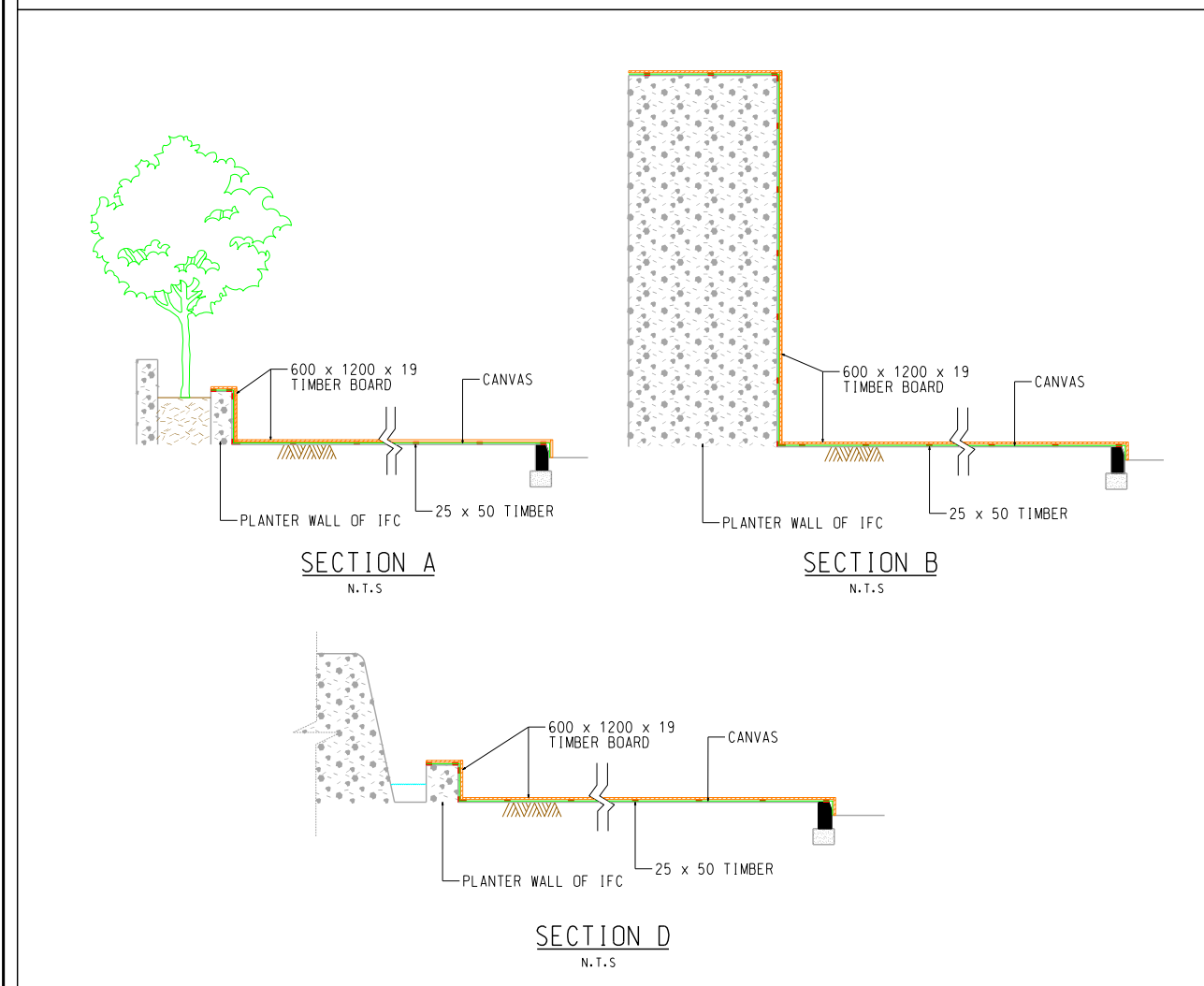
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NOTES:
1. ALL LEVELS ARE IN METRES ABOVE HONG KONG PRINCIPAL DATUM.



[1] DURING NORMAL SITUATION

[2] DURING DIAPHRAGM WALL



LEGEND :

- BALCONY / CANOPY
- TEMPORARY STRUCTURE
- GATE
- FENCE
- HOARDING
- NOISE BARRIER
- HAND RAILING (STAINLESS STEEL)
- CABLE DUCT
- WATER MAIN
- 225 U-CHANNEL (LEVEL SHOWN ARE CHANNEL TOP LEVEL)
- 225 COVERED-CHANNEL (LEVEL SHOWN ARE CHANNEL TOP LEVEL)
- STAIR / STEPS
- MANHOLE (TELEPHONE)
- MANHOLE (WATER WORKS)
- MANHOLE (FOUL WATER)
- MANHOLE (STORM WATER)
- MANHOLE (UNKNOWN)
- CATCH PIT
- GRATING
- TELEPHONE KIOSK
- TRAFFIC LIGHT CONTROL BOX
- VALVE (GAS)
- VALVE (FIRE)
- VALVE (WATER)
- VALVE (UNKNOWN)
- FIRE HYDRANT
- TREES
- FLOWER BED
- FOOTPATH
- ELECTRIC SUB-STATION
- TREE COVER (STAINLESS STEEL) & GROUND LIGHT
- UNKNOWN PIT
- BENCH
- ELECTRIC PIT
- DRAW PIT
- PILLER BOX
- LIGHTING PIT
- BLOODLIGHT MAST
- GROUND LIGHT
- SIGN STREET NAME BOARD
- SIGN POST
- LAMP POST
- TELEPHONE POLE
- ELECTRIC POLE
- UNKNOWN POST
- TRAFFIC LIGHT
- LETTER BOX

REV.	DESCRIPTION	BY	CHECKED	DATE
-	FIRST ISSUE	GL	GL	NOV.11

CAD FILE: 111102 Stages of Hoarding Plan On Footpath of Finance St.dgn

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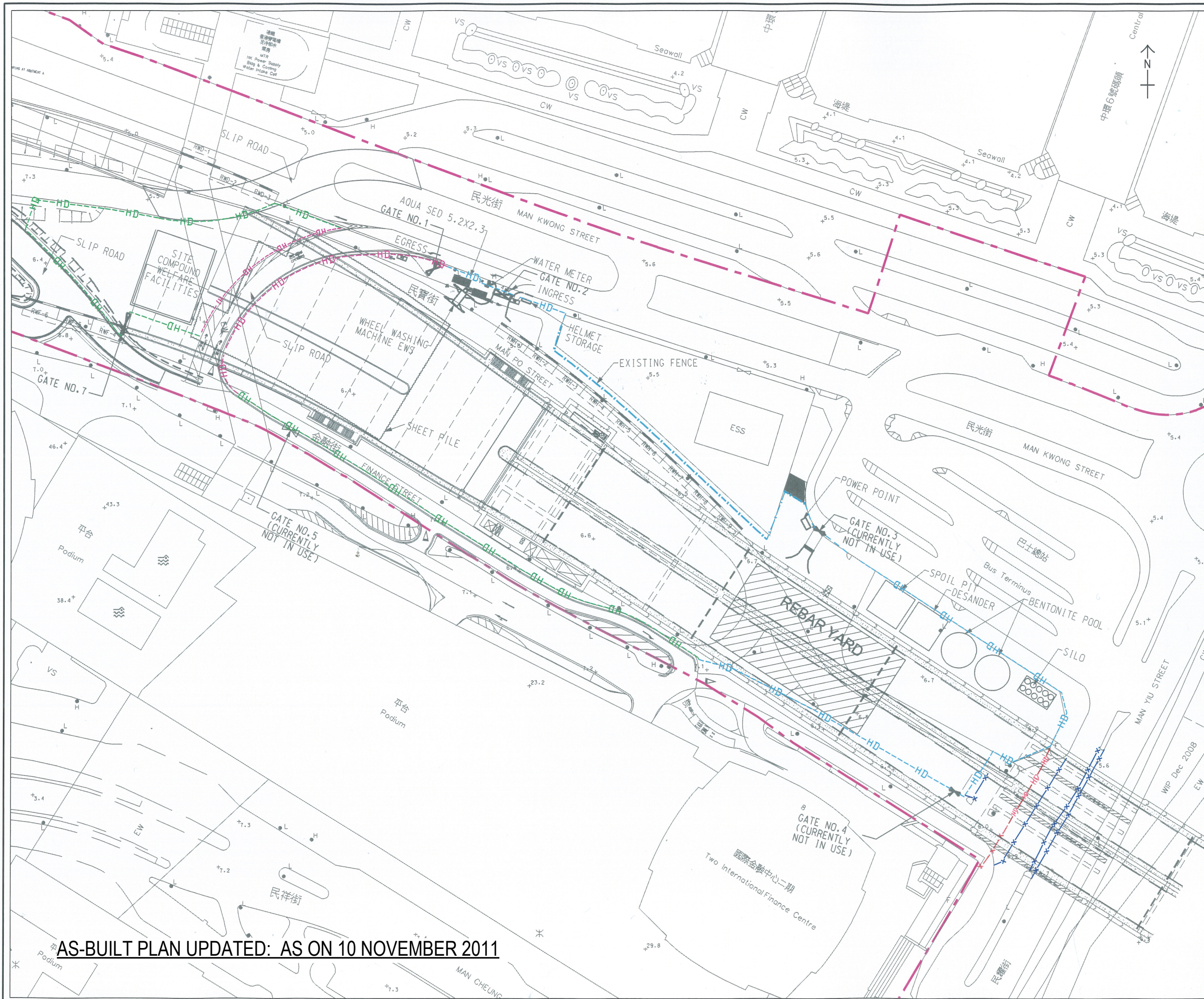
CONTRACTOR
LEIGHTON CONTRACTORS (ASIA) LTD.

DRAWING TITLE
**STAGES OF HOARDING PLAN
ON FOOTPATH OF
FINANCE STREET**

DRG. NO. H2540/LCAL/TW/0185

DESIGN BY	GL	DRAWN BY	SS	CHECKED BY	GL
DATE	NOV.11	DATE	NOV.11	DATE	NOV.11
SCALE	A3 1 : 500	STATUS	SKETCH		
DIMENSIONS ARE IN METRES					
CONTRACT NO. HY/2009/18					

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NOTES:
1. ALL LEVELS ARE IN METRES ABOVE HONG KONG PRINCIPAL DATUM.

- LEGEND:
- HD---HD HOARDING(NEW)
 - HD---HD HOARDING(RELOCATED)
 - HD---HD HOARDING(RETAINED)
 - |---| EXISTING CHAINLINK FENCE
 - |---| SITE BOUNDARY
 - X---X PLASTIC SAFETY BARRIER
 - X---X WATER BARRIER

REV	DESCRIPTION	BY	CHECKED	DATE
-	MINOR REVISED	YLS	YLS	NOV.11
-	FIRST ISSUE	YLS	YLS	NOV.11

CAD FILE: 111104_Hoarding and barrier plan Stage 3_rev1.dgn

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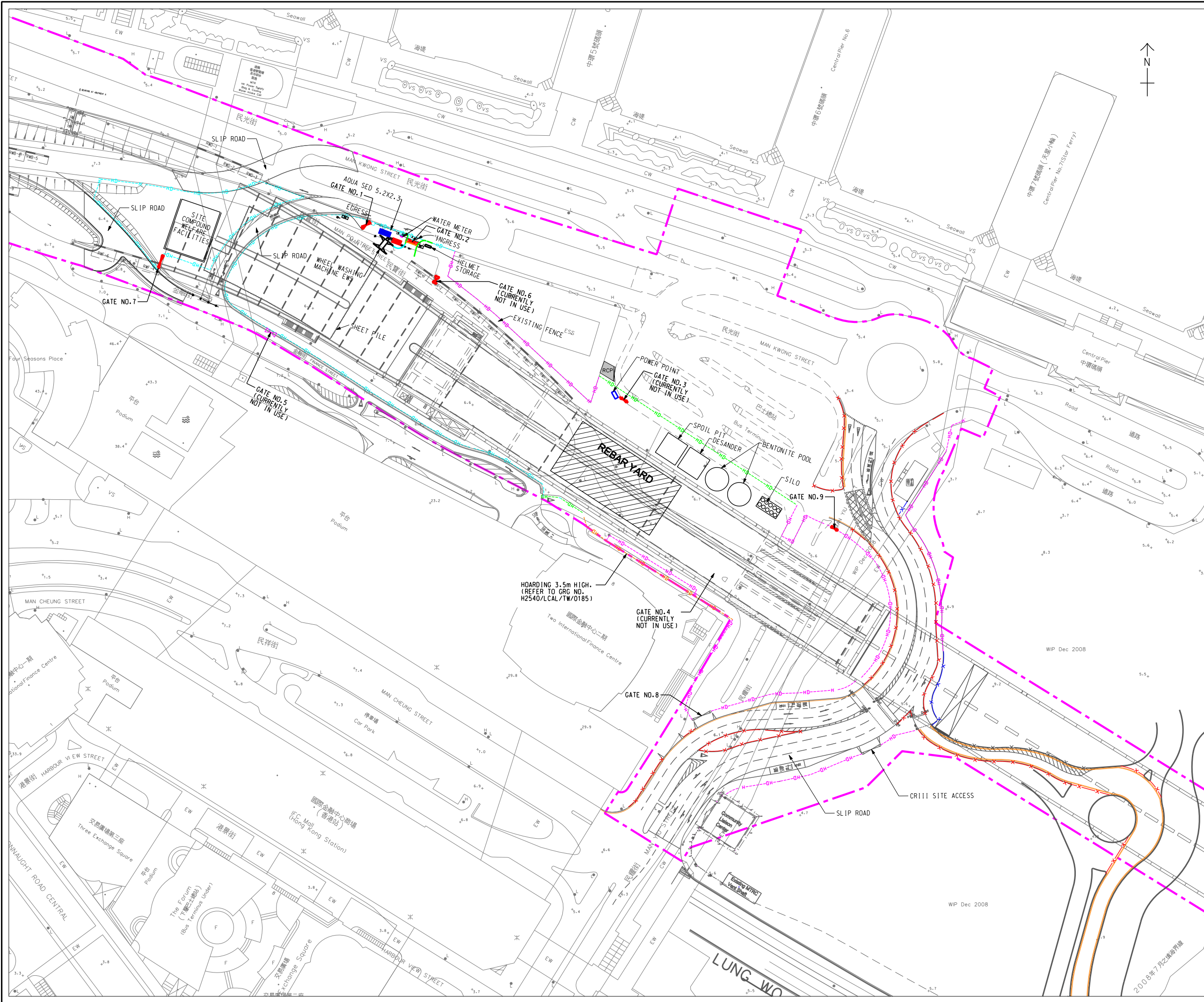
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HOARDING AND BARRIER PLAN STAGE 3

DRG. NO. H2540/LCAL/TW/0189 A

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DATE	NOV.11	DATE	NOV.11	DATE	NOV.11
SCALE	A3 1:1000	STATUS	SKETCH		
DIMENSIONS ARE IN	METRES				
CONTRACT NO.	HY/2009/18				

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AS-BUILT PLAN UPDATED: AS ON 10 NOVEMBER 2011



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- NOTES :
- ALL LEVELS ARE IN METRES ABOVE HONG KONG PRINCIPAL DATUM.
- LEGEND :
- HD --- HD HOARDING(NEW)
 - HD --- HD HOARDING(RELOCATED)
 - HD --- HD HOARDING(RETAINED)
 - HD --- HD HOARDING(NEW) 3.5m HIGH
 - HOARDING(NEW) 3.5m HIGH
 - X X WATER FILLED BARRIER
 - X X WATER FILLED BARRIER WITH PERSPECT SCREEN

REV.	DESCRIPTION	BY	CHECKED	DATE
1	FIRST ISSUE	YLS	YLS	NOV.11

111104_Hoarding and barrier plan Stage 4.dgn
 WIP Dec 2008

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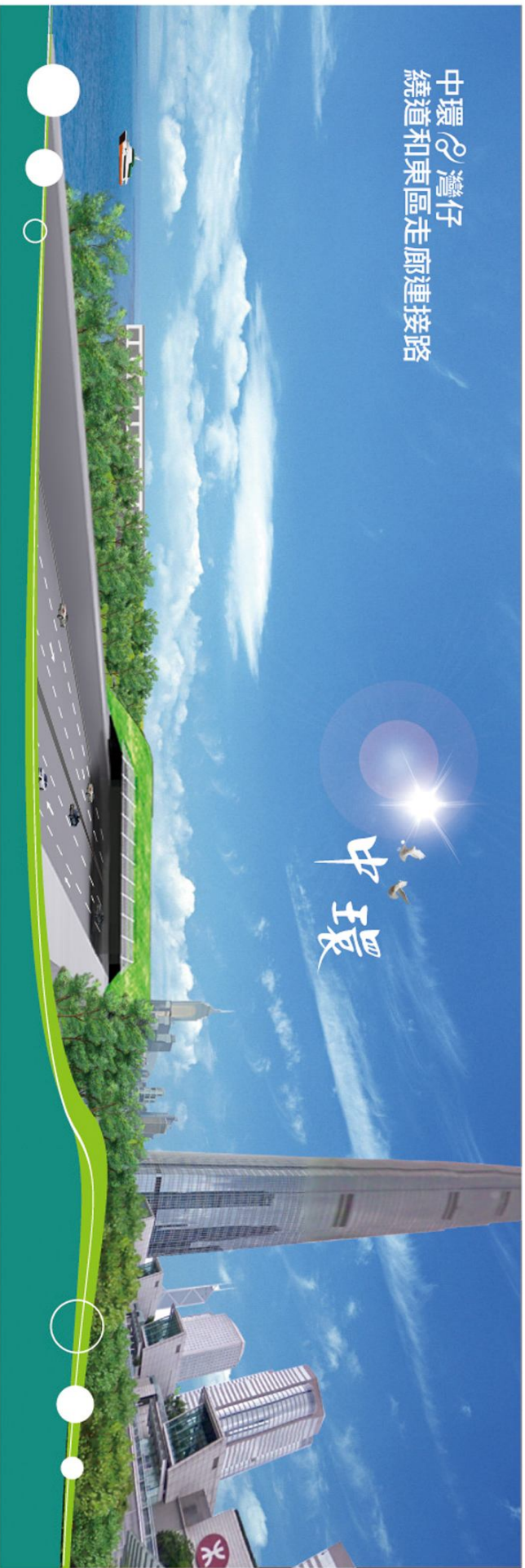
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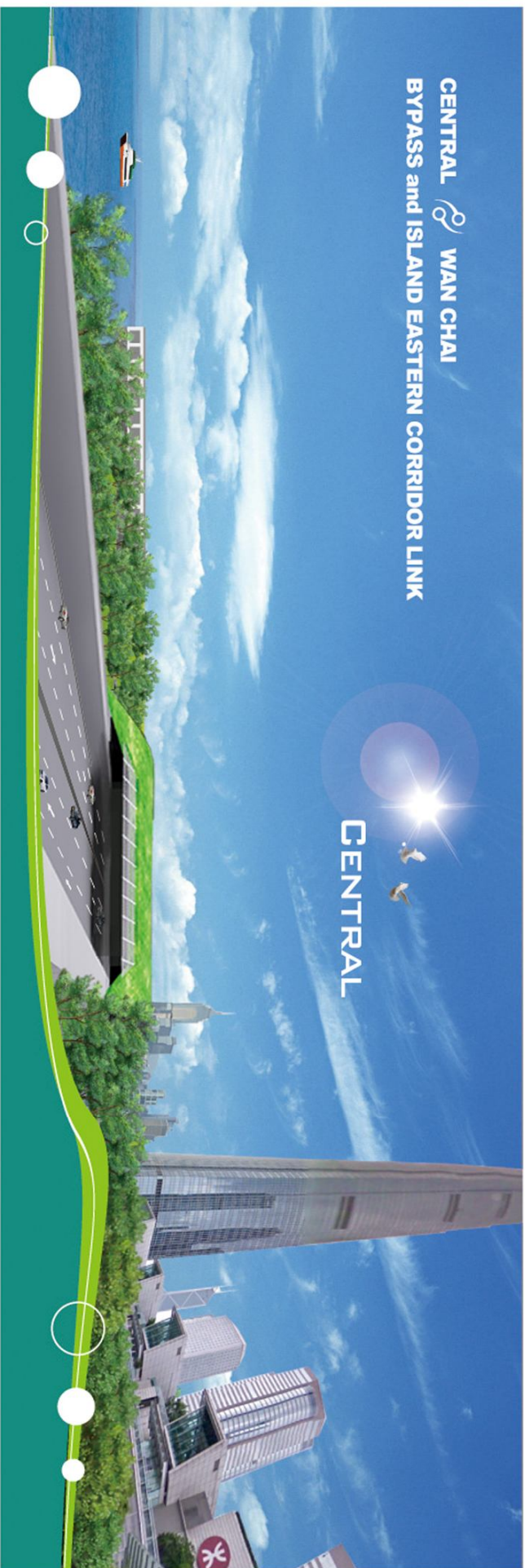
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HOARDING AND BARRIER PLAN STAGE 4

DRG. NO. 圖紙編號	H2540/LCAL/TW/0190	REV. 圖紙	-
DESIGN BY 設計	YLS	DRAWN BY 繪圖	SS
CHECKED BY 校核	YLS	DATE 日期	NOV.11
SCALE 比例	A3 1 : 1500	STATUS 圖則	SKETCH
CONTRACT NO. 合約編號	HY/2009/18	COPYRIGHT RESERVED	

Appendix I Surface Treatment Figures



720 (w) x 240 (h) cm



CENTRAL  **WAN CHAI**
BYPASS and ISLAND EASTERN CORRIDOR LINK

CENTRAL

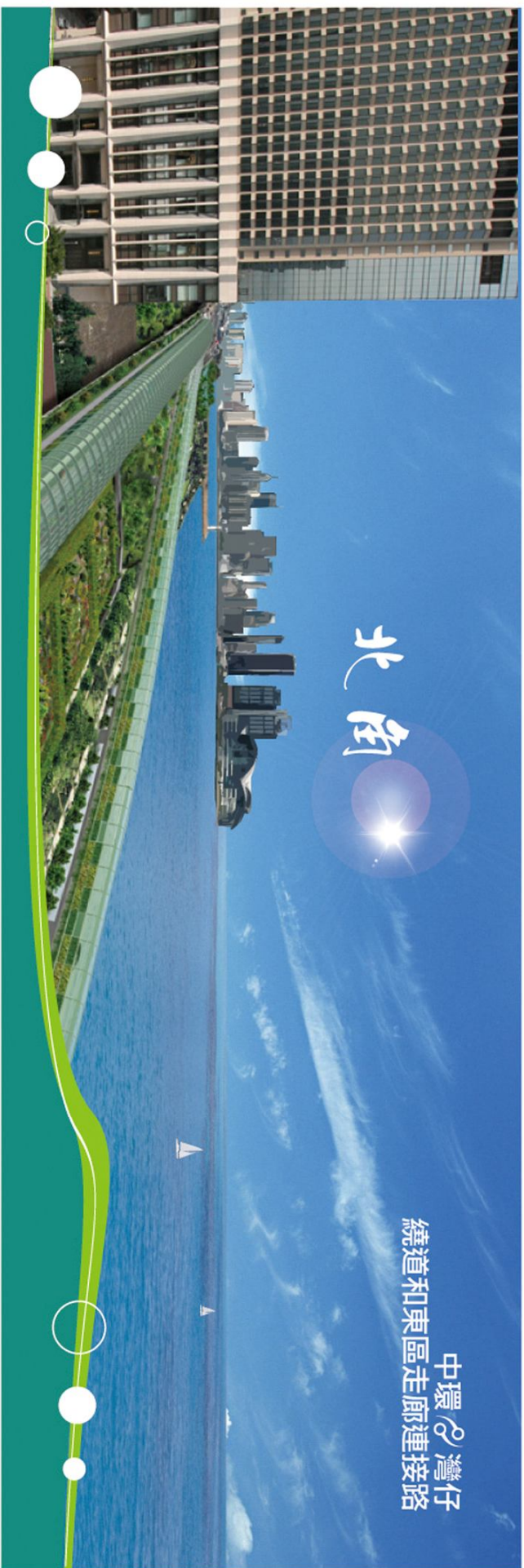
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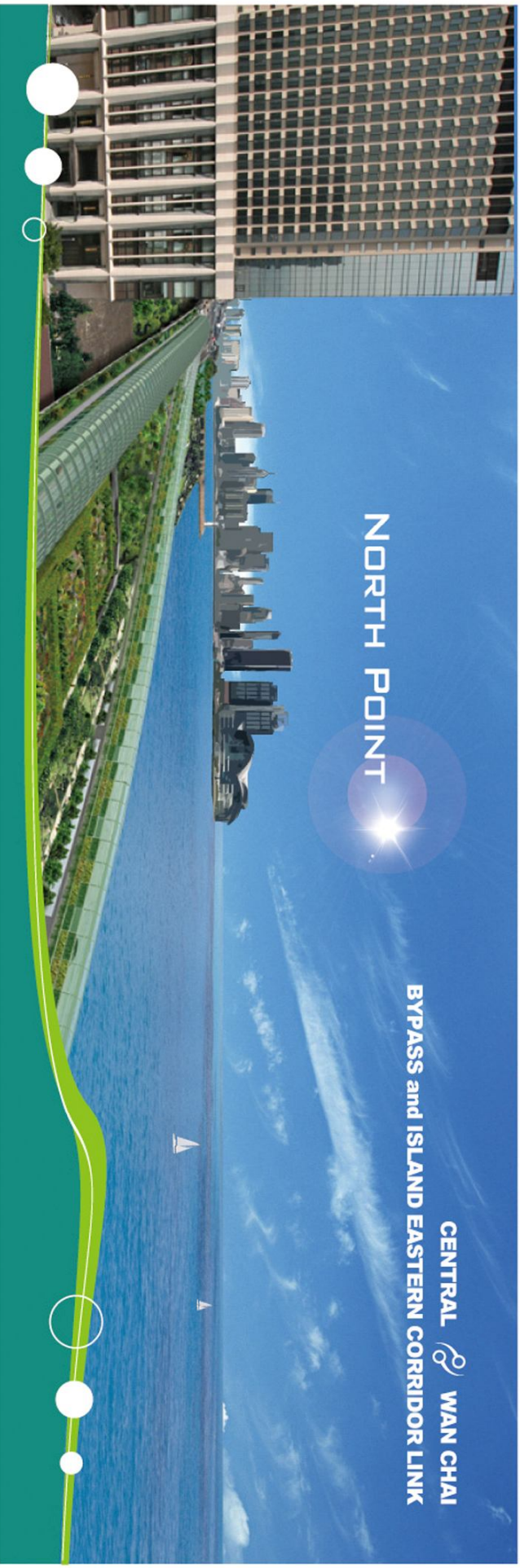
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720 (w) x 240 (h) cm



720 (w) x 240 (h) cm

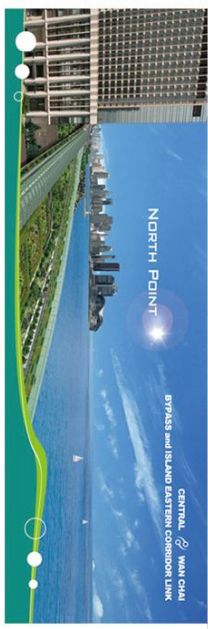


720 (w) x 240 (h) cm



120 (w) x 240 (h) cm

2520cm



720cm



120cm



720cm



120cm

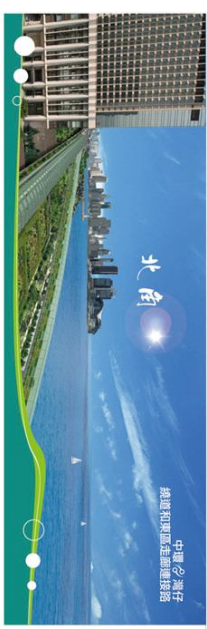


720cm



120cm

240cm



Appendix J Landscape Checklist

Proposal Mitigation Measures for CWB within CRI and CRIII

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages				Relevant Legislation and Guidelines	Implementation status	Ref.
				Des	C	O	Dec			
S7.6	Site hoarding to be installed, where appropriate, with surface treatment suitable to the urban context.	Entire works area during entire construction period	Contractor		√			-	Implemented, relocation works would be continuously carried out to suit the progress of the works	Part D - S.1 – Item B
S7.6	Control of night time lighting	Entire works area during entire construction period	Contractor		√			-	Implemented	Part D - S.1 - Item C
S7.6	Approved new soil-mix for new planting areas.	New planting areas	Contractor		√			WBTC 18/94 and LCSD's Annex 1	Works at new planting areas not yet started	Part D - S.1 - Item A1
S7.6	Soil mounding to be implemented at expansive amenity areas. Mounding to be profiled to ensure ease of maintenance.	Work sites within CRI & CRIII as shown in Figure 7.6.1 to 7.6.3 Mitigation Measures of the approved EIA Report**.	HyD's Landscape consultant & contractor	√	√	√		WBTC 18/94	Not Applicable	-
S7.6	Reinstatement of road and amenity planting and roadside mass screening (Approximately 37,000 m ³)	Work site within CRI & CRIII as shown in Figure 7.6.1 to 7.6.3 Mitigation Measures of the approved EIA Report**	HyD's Landscape consultant & contractor	√	√	√		WBTC 18/94 and LCSD's Annex 1	Not Applicable	-

S7.6	Soft landscape treatment under elevated structures and on columns (where practical) by use of suitably shade tolerant plant material.	At area where optimum light levels allow. Subject to detailed design.	HyD's Landscape consultant & contractor	√	√	√		WBTC 18/94 and LCSD's Annex 1	Works on elevated structures not yet started	Part D - S1 - Item A2, and App. G
S7.6	Landscape design within boundary of ancillary service buildings. Inclusive of soft landscape treatment.	Work sites within CRI & CRIII as shown in Figures 7.2.1 to 7.2.2 Works Layout Plans of the approved EIA Report**	HyD's Landscape consultant & contractor	√	√	√		WBTC 18/94	Not Applicable	-
S7.6	Retention and protection of existing trees where feasible and transplanting of trees that are in conflict with the road works (where practical). All in accordance with Tree Survey Report/Felling Application. Advance planning and programming to be initiated.	As shown with Tree Survey Report as mentioned in the approved EIA Report**	HyD's Landscape consultant & contractor	√	√	√		WBTC 24/94	Implemented, protection and/or transplanting works in progress	Part D - S.1 - Item A2

S7.6.3	Quality and integrated design of Ancillary Buildings, tunnel portals wing walls abutments, noise barrier systems and landscape screen wall panel.	Work sites within CRI & CRIII as shown in Figures 7.2.1 to 7.2.2 and Figure 7.6.1 to 7.6.3 Mitigation Measures of the approved EIA Report**	HyD's Architectural Landscape consultant	√	√	√		ACABAS	Not Applicable	-
Table 7.3	Advance planning and programme of transplanting of existing trees and reinstatement of roadside planting to early completion areas or unaffected areas.	At roadside amenity areas.	HyD's Landscape consultant & contractor	√	√			WBCT 24/94	Implemented, transplanting works in progress	Part D - S.1 - Item A2

Des – Design, C – Construction, O – Operation, and Dec – Decommissioning

LCSD's Annex I: General Requirements of Soft Landscaping Design for Areas under LCSD's Maintenance Responsibilities.

** Central – Wan Chai Bypass and Island Eastern Corridor Link Environmental Impact Assessment Report (Register No.: AWIAR-041/2001)

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 & date	Ref.
				Des	C	O	Dec			
Construction Phase										
For the Whole Project										
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	Contractor	√	√			EIAO TM	According to S7.6, new soil mix shall be used	Part D - S.1 - Item A1
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Implemented, continuous effort	Part D - S.1 - Item A2
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Implemented, transplanting works in progress	Part D - S.1 - Item A2
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Planting works to be started at later stage	Part D - S.1 - Item A2
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM	Implemented	Part D - S.1 - Item C
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM	Implemented, relocation works would be continuously carried out to suit the progress of the works	Part D - S.1 - Item B

For DPI – CWB (Within the Project Boundary)										
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	Contractor		√			EIAO TM	According to S7.6, new soil mix shall be used	Part D - S.1 - Item A1
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Implemented, continuous effort	Part D - S.1 - Item A2
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Implemented, transplanting works in progress	Part D - S.1 - Item A2
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Planting works to be started at later stage	Part D - S.1 - Item A2
Table 10.5	CM5 Control of night-time lighting	Work site / During Construction Phase	Contractor		√			EIAO TM	Implemented	Part D - S.1 - Item C
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM	Implemented, relocation works would be continuously carried out to suit the progress of the works	Part D - S.1 - Item B

Appendix K Tree Felling Approval from DLO

MEMO

From District Lands Officer/Hong Kong West & South	To CE3/MW, MWPMO, HyD
Ref. (4) in LD DLO/HW 663/DMS/82 (XVII)	(Attn.: Mr. Ray LAI)
Tel. No. 2835 1634	Your Ref. _____ in _____
Fax No. 2833 1945	dated _____
E-mail eshkwc@landsd.gov.hk	Fax No. 2714 5289
Date 20 March 2013	Total Pages 2

**Contract No. HY/2009/18
Central - Wan Chai Bypass - Central Interchange**

**Application to (A) Felling 30 nos. and (B) Transplanting 5 nos. of tree
at the planter adjacent to Man Kat Street**

I refer to your Consultant, AECOM Asia Co. Limited's letter dated 3 October 2012 ("the Submission") and its subsequent e-mails dated 6 February and 4 March 2013 regarding a Tree Treatment Proposal for (A) felling 30 nos. of tree and (B) transplanting of 5 nos. of tree at the planter adjacent to Man Kat Street to facilitate the construction of an Elevated Lay-by at Rumsey Street Flyover and its associated piling works.

2. Approval is hereby given to (A) felling of 30 nos. of tree [Tree Nos. T1727, T1730, T1732, T1736, T1739, T1742, T1771, T1781-1785, T1789-Y1796, T1798-T1799, T1801-T1803, T1806 and AT023-AT026] and (B) transplanting of 5 nos. of tree [Tree Nos. AT22, AT28, T1807, T1811 and T1817] as shown in Appendix B of the Submission subject to following conditions:

In respect of (A) Felling 30 nos. of trees :-

- (a) Compensatory planting of 33 nos. of tree with DBH 75mm as shown in Appendix F - Compensatory Plan - Option 2 of the Submission, but the 33 compensatory trees should be of the same species of *Bauhinia variegata* 宮粉羊蹄甲 instead of four different species as proposed in Appendix F of the Submission.
- (b) Compensatory planting of 2 nos. of tree with DBH 75mm as shown on Tree Planting Plan Drg. No. 60095653/CI/9012B of e-mail dated 4 March 2013.
- (c) Compensatory planting of 1 no. of tree with tree DBH 75mm as shown on Tree Planting Plan Option 2 with Sketch No. 60095653/CI/DF0206 of e-mail dated 4 March 2013.
- (d) Compensatory planting of 13 nos. of tree with tree DBH 75mm at original location of Tree No. T1736, T1739, T1742, T1781, T1784, T1785, T1789 - T1791, T1801 - T1803 and T1806 as shown on Proposed Treatment of Trees Plan in Appendix B of the Submission.
- (e) Compensatory planting of 4 nos. of tree with tree DBH 75mm at original location of Tree No. AT23 - AT26 as shown on Proposed Treatment of

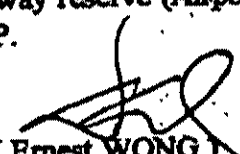
Trees Plan in Appendix B of the Submission.

In respect of (B) Transplanting 5 nos. of tree :-

- (f) Replanting AT28, T1807 and T 1811 at original location as shown on Proposed Treatment of Trees Plan in Appendix B of the Submission.
- (g) Transplanting AT22 to the recipient site as shown on Final Transplant Location Plan of AT22 with Sketch No. 60095653/CI/DF0286 attached to e-mail dated 4 March 2013.
- (h) Transplanting AT1817 to the recipient site as show on Final Transplant Location Plan of T1817 with Sketch No. 60095653/CI/DF0285 attached to e-mail dated 4 March 2013.

In respect of both (A) Felling 30 nos. of trees and (B) Transplanting 5 nos. of tree :-

- (i) You should ensure good workmanship and proper techniques for compensatory planting and tree transplanting works.
- (j) Adequate aftercare and maintenance work shall be arranged for the transplanted trees by the horticultural contractor throughout the course of tree nursing period
- (k) You shall maintain an establishment period of 1 to 3 years for the trees when they are replanted back to the site. Joint site meetings with LSCD's colleagues shall be arranged by your horticultural contractor before commencement and after satisfactory completion of the establishment period.
- (l) Regarding the proposed location of the tree works which falls upon the site tentatively allocated in-principle to CE3/MW, MWPMO, HyD for demolition of the Rurnsey Street Flyover for a period of 2 years from 1.1.2017 or such other date as advised by me, please liaise and sort out with CE3/MW, MWPMO to ensure that the tree works will not be affected by the flyover demolition works.
- (m) You shall consult MTR Corporation Limited prior to commencing works and take adequate and proper precautions to ensure that the tree felling, transplanting and replanting works will not affect MTR Corporation Limited's railway protection boundary, railway reserve (Airport Railway Area Plan No. 24B) and MTR Lot No. 2 RP.


(Ernest WONG)
for District Lands Officer
Hong Kong West and South

c.c.
LCSD (Attn: Mr. T.M BAR, Fax No. 2530 1202)
CE3/MW, MWPMO, HyD Attn: Mr. MAN Moon-shing
Internal: 876/SHMS/82 (G)

Appendix L Tree Compensation Plan



18B003827

- 3 OCT 2012

Your Ref. : -

Our Ref. : CWB/(HY/2009/18)/M45/800/18B003827

3 October 2012

By Post onlyRefer to Distribution List

Dear Sir / Madam,

Contract No. HY/2009/18**Central - Wan Chai Bypass – Central Interchange****Revised Tree Treatment Proposal for the Works under Elevated Lay-by of Rumsey Street Flyover**

----- Further to my previous letter ref. CWB/(HY/2009/18)M45/800/18B003163 dated 5 June 2012 and Ms. Tam's (LCSD) email (see attached) dated 9 August 2012 regarding a Tree Treatment Proposal to facilitate the construction of elevated lay-by at Rumsey Street Flyover and its associated piling work at the planter adjacent to Man Kat Street, a revised submission from our Contractor (ref. H2540/CSF/OPR/01029-R3) is attached herewith for your comment/approval. I would be grateful if you could provide your comment/approval on or before 31 October 2012 in accordance with Technical Circular 3/2006.

Should you have any queries, please contact my RE, Mr. Nelson Chin at 6461 8784.

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

David Kwan
Chief Resident Engineer

Encl.

c.c.	CE3/MW, HyD	- Attn : Mr. Ray Lai] - w/o encl.
	AECOM	- Attn : Mr. Alex Li] - w/o encl.
	LCSD	- Attn : Ms. Yoki Yuen] - w/o encl.

Response required : Yes / No

DK/RY/NC/WC/al



Our Ref. : CWB/(HY/2009/18)/M45/800/18B003827

Distribution List

Lands Department
Lands Administration Office
District Lands Office, Hong Kong West and South
3rd, 19th and 20th floor, Southorn Centre,
130 Hennessy Road,
Wan Chai,
Hong Kong.

Attn.: Mr. T. K. WONG, Ernest

Leisure and Cultural Services Department
Tree Team (HKW)
3/F., Hong Kong Squash Centre,
19 Cotton Tree Drive,
Central,
Hong Kong

Attn.: Mr. BAR Ting Ming

Leisure and Cultural Services Department
Leisure Services Branch – Division 2
Leisure Management / Hong Kong West
Central and Western District Leisure Services Office
Room 1001, 10/F., Sheung Wan Municipal Services Building,
345 Queen's Road Central,
Kong Kong.

Attn.: Miss Y.T. TAM, Pat

Winnie Cheung

From: e7cwb.mw@hyd.gov.hk
Sent: 2012年8月10日星期五 9:13
To: Nelson Chin
Cc: Chiu Cheuk Siu - Highways; Winnie Cheung
Subject: Re: 轉寄: Fw: Contract . HY/2009/18 - Central-Wan Chai Bypass - Central Interchange - Tree Treatment Proposal for Works at Elevated Lay-by in Protion VI

Dear Nelson,

As verbally advised by Ernest Wong of DLO yesterday, our proposal will be processed shortly. To avoid abortive works, your office may inform him that a revised submission will be sent to his office soon.

Please also take note of LCSD's advice.

Regards,
Ray LAI
E7/CWB, MWPMO, HyD
Tel: 2762 3570

From: YT TAM/LCSD/HKSARG@LCSD
To: Ray YC LAI/HYD/HKSARG@HYD
Cc: TM BAR/LCSD/HKSARG@LCSD, Nelson Chin <nelson.chin@cwbaecom.com>, Cheuk Siu CHIU/HYD/HKSARG@HYD
Date: 09/08/2012 19:42
Subject: 轉寄: Fw: Contract . HY/2009/18 - Central-Wan Chai Bypass - Central Interchange - Tree Treatment Proposal for Works at Elevated Lay-by in Protion VI

Dear Mr LAI,

We spoke.

I have relayed the message to your Miss Winnie CHEUNG that a revised submission recommending only one option is required. Also, the submission should address to DLO and cc to LCSD. For the copies to LCSD, pl send individual copy to the following addresses -

Tree Team (HKW)

Attn: Mr BAR Ting-ming

Address: 3/F, Hong Kong Squash Centre, 19 Cotton Tree Drive, Central, Hong Kong

C&W District Leisure Services Office

Attn: Ms Pat TAM

Address: Rm 1001, 10/F, Sheung Wan Municipal Services Building, 345 Queen's Road Central, HK

Regards.

Pat TAM
DDL(C&W)2
Tel: 2853 2568

----- Forwarded by YT TAM/LCSD/HKSARG on 09/08/2012 19:27 -----

From: Ray YC LAI/HYD/HKSARG@HYD
To: TM BAR/LCSD/HKSARG@LCSD
Cc: Nelson Chin <nelson.chin@cwbaecom.com>, Cheuk Siu CHIU/HYD/HKSARG@HYD
Date: 07/08/2012 09:14
Subject: Contract . HY/2009/18 - Central-Wan Chai Bypass - Central Interchange - Tree Treatment Proposal for Works at Elevated Lay-by in Protion VI

Dear Mr BAR,

I refer to AECOM's letter (copy attached) dated 15 June 2012 regarding the captioned subject.

[attachment "18B003250.pdf" deleted by Ray YC LAI/HYD/HKSARG]

As stated in the letter, the construction works at the lawn area adjacent to Man Kat Street is scheduled to commence in September 2012, we would like to carry out the treatment works as early as possible. Grateful if your office could let us have your reply at your earliest convenience please.

Should you have any query, please feel free to contact me at 2762 3570 or our resident engineer, Mr Nelson CHIN, at 3912 3208.

Regards,
Ray LAI
E7/CWB, MWPMO, HyD
Tel: 2762 3570

Contractor's Submission Form



18 SEP 2012

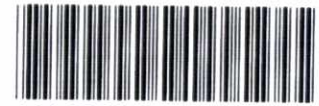
Leighton Contractors
(Asia) Limited

39/F Sun Hung Kai Centre
30 Harbour Road, Hong Kong

t: +852 2823 1111

Ref: H2540/CSF/OPR/01029-R3

Date: 18 September 2012



18A006841

Contract: HY/2009/18 – Central-Wan Chai Bypass - Central Interchange

To: Engineer's Representative, The Chief Resident Engineer Mr. David Kwan

Your Ref: CWB/(HY/2009/18)/M25/220/18B003162

Title of Submission: Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Specification: N/A

We are pleased to submit the following for your review and comment

Description:

We hereby supplement the previously submitted Tree Treatment Proposal for works under the Elevated Lay-by in Portion VI for your review and comment.

Purpose of Submission:

FOR APPROVAL

FOR RECORD OR INFORMATION

Contractor's Representative

Signature:

Name: Brian Gillon
Position: Site Agent
Date: 18 Sept 2012

pp

Distribution: BG / RW / CL / PaC / EcL / JL

Prepared by: Dorothy SHING

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Contract No. : HY/2009/18

Project : Central - Wan Chai Bypass - Central Interchange

Location : Portion VI

Main Contractor : Leighton Contractors (Asia) Limited

Prepared By : Toyo Greenland Co., Ltd

Date : 13 September 2012

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Appendix

Appendix A – Existing Tree Plan

Appendix B – Proposed Treatment of Trees

Appendix C – Tree Assessment Schedule

Appendix D – Detail Photos of trees

Appendix E – Site Layout Plan for Piling Works

Appendix F – Compensatory Plan

Appendix G – Tree Preservation and Protection Plan

Appendix H – Tree Planting Plan (Contract Drawings No. 60095653/CI/9011B, 60095653/CI/9012B)

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

1. Introduction

To facilitate the construction of the proposed Elevated Lay-by at Man Po Street and its associated piling works at the lawn area adjacent to Man Kat Street, some of the existing trees have to be transplanted to allow access for the work. Together with those trees which originally need to be transplanted under the Contract, proposal for treatment to the affected trees is hereby submitted for necessary application to relevant Authorities.

As per joint site inspection amongst LSCD, AECOM and LCAL on 28th March 2012 and the subsequent conversation on 7th August 2012 via e-mail. We submit this proposal regarding the comments from various parties.

This tree treatment proposal aims at evaluating the condition of trees, providing the recommendations for the trees to be retained, transplanted or felled.

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

2. Observation

2.1 Works Area

2.1.1 Works area as shown in Figure 1.

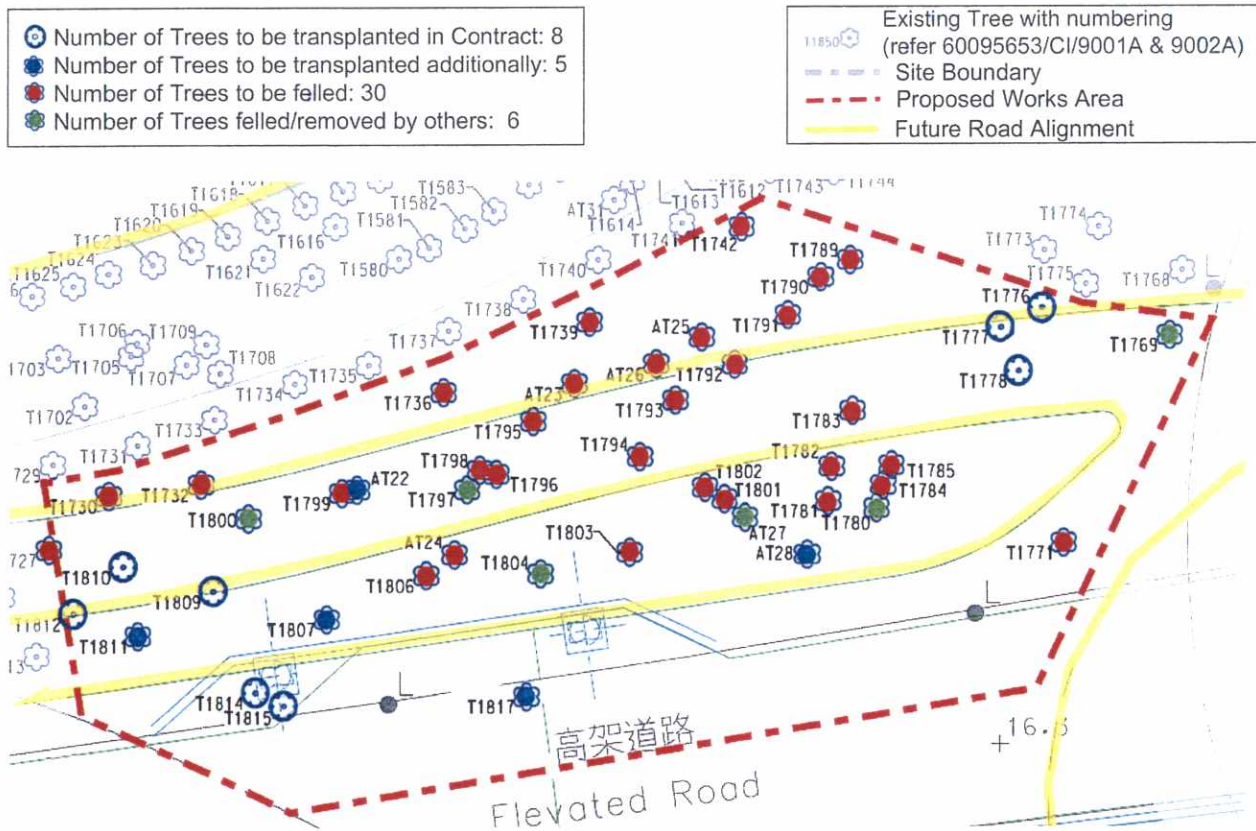


Figure 1 – Work area

2.1.2 Detailed information

Appendix B – Proposed Treatment of Trees

Appendix C – Tree Assessment Schedule

Appendix D – Detail Photos of trees

Appendix E – Site Layout Plan for Piling Works

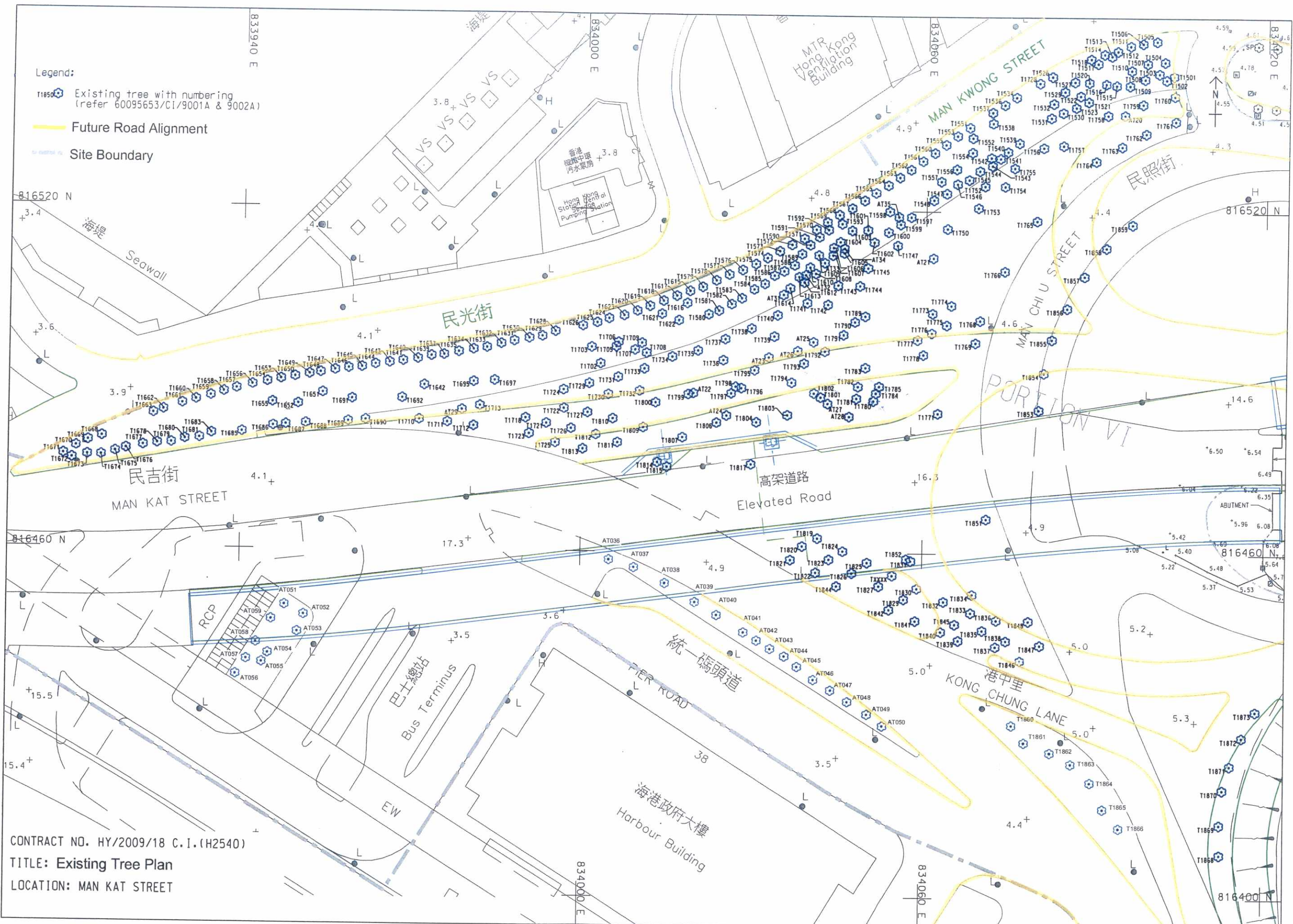
Appendix F – Compensatory Plan

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Appendix A – Existing Tree Plan

- Legend:
- T1850 Existing tree with numbering (refer 60095653/CI/9001A & 9002A)
 - Future Road Alignment
 - Site Boundary



CONTRACT NO. HY/2009/18 C.I.(H2540)
 TITLE: Existing Tree Plan
 LOCATION: MAN KAT STREET

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

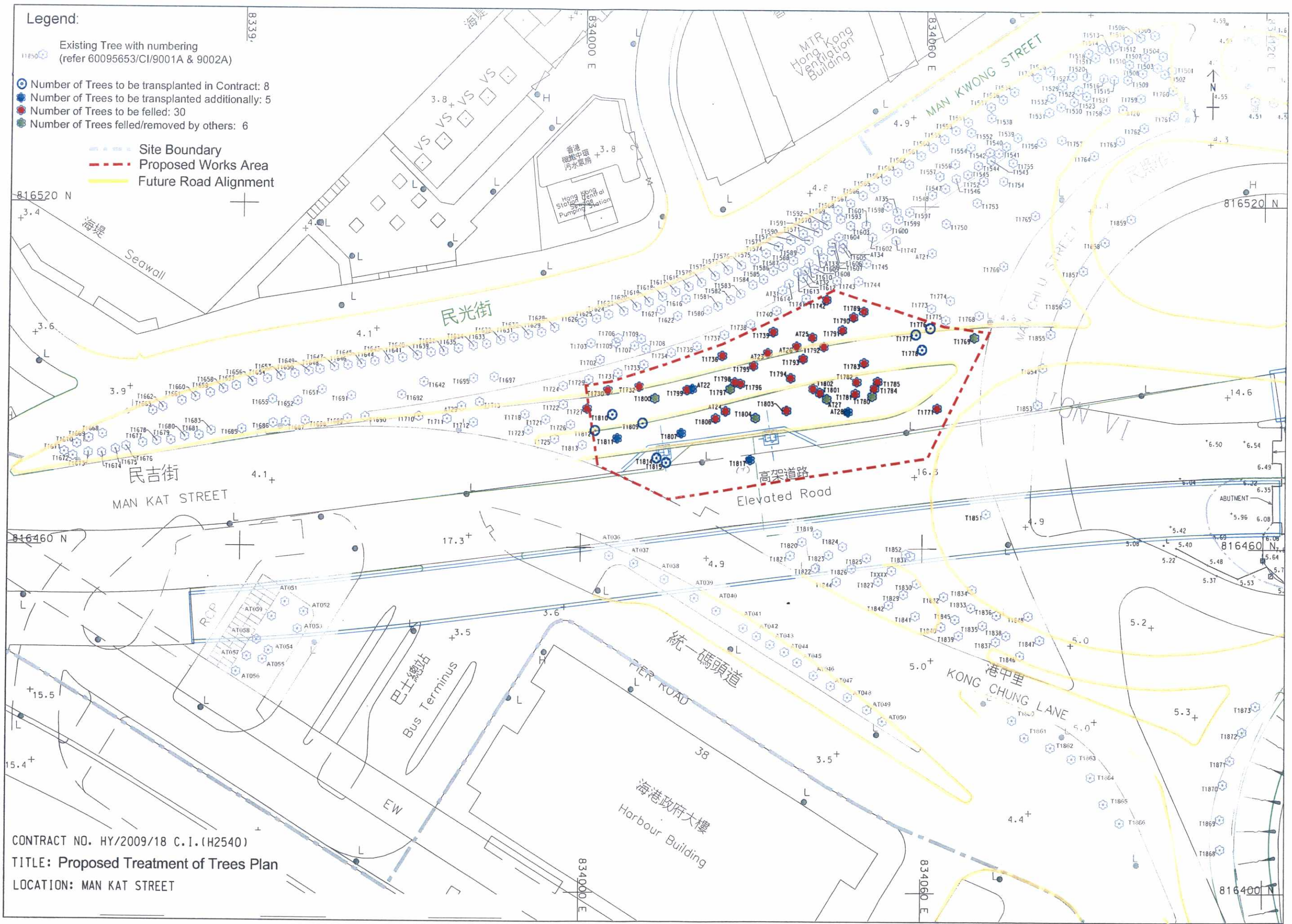
Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Appendix B – Proposed Treatment of Trees

Legend:

- Existing Tree with numbering
(refer 60095653/CI/9001A & 9002A)
- Number of Trees to be transplanted in Contract: 8
- Number of Trees to be transplanted additionally: 5
- Number of Trees to be felled: 30
- Number of Trees felled/removed by others: 6

- Site Boundary
- Proposed Works Area
- Future Road Alignment



CONTRACT NO. HY/2009/18 C.I.(H2540)
 TITLE: Proposed Treatment of Trees Plan
 LOCATION: MAN KAT STREET

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Appendix C - Tree Assessment Schedule

Tree Survey Schedule for Elevated Layby Area

Tree No.	Tree Species	Chinese Name	Size			Tree Form (Good, Fair, Poor)	Health (Good, Fair, Poor, Dead)	Amenity Value (High, Medium, Low)	Survival of Transplantation (High, Medium, Low)	Propose Recommendation (Retain / Transplant / Fell)	mPD (m)	Justification	Remark	Remark after Typhoon No. 10		Final Location
			Tree Height (m)	Diameter at Breast Height (mm)	Tree Crown Spread (m)									Defect After Typhoon No. 10	Remark After Typhoon No. 10 (Retain/ Transplant / Fell)	
AT022	<i>Bauhinia blakeana</i>	洋紫荆	6.0	100	5.0	Fair	Fair	Medium	Low	Transplant	4.6	Affected by proposed roadworks	1/ Lean 20 degree 2/ Poor structure	Leaning, damaged branches	Transplant	To be coordinated by Project Office
AT023	<i>Macaranga tanarius</i>	血桐	7.0	120	7.0	Fair	Fair	Medium	Medium	Transplant	4.7	Affected by temporary work access.	1/ Lean 20 degree 2/ Unbalance form	Main trunk broken by typhoon, recommend fell	Fell	To be re-planted to original location
AT024	<i>Macaranga tanarius</i>	血桐	7.0	155	6.0	Fair	Fair	Medium	Low	Fell	4.6	We highly believe a cohesive root system have been developed with T1806 and T1804, this tree is suppressed for its life time. The transplanting work for T1806 and T1804 will expose this previous suppressed tree into wild open environment. High possibility of whole tree falling. We assessed that this tree condition is not suitable for transplant, reasons at Remarks column. Our final suggestion is to fell this tree	1/ Serious insects infection 2/ Horizontal decay in main trunk 3/ Sign of internal decay	Main trunk broken by typhoon, recommend fell	Fell	To be re-planted with compensatory trees at original location
AT025	<i>Bauhinia variegata</i>	宫粉羊蹄甲	6.5	115	6.0	Fair	Poor	Low	Low	Fell	4.4	Affected by temporary work access.	1/ Abnormal lean 2/ Not recommend for transplant	Serious leaning / Broken Bark / Exposed Root	Fell	To be re-planted with compensatory trees of same species at original location
AT026	<i>Bauhinia variegata</i>	宫粉羊蹄甲	7.0	115	10.0	Fair	Fair	Medium	Medium	Fell	4.4	Affected by temporary work access.	1/ Serious decay and splitting on main trunk 2/ Insects infection	Leaning / 3 Trunks	Fell	To be re-planted with compensatory trees of same species at original location
AT027	<i>Bauhinia variegata</i>	肯氏南洋杉	6.0	120	2.0	-	Dead	-	-	Fell	4.4	Dead Tree	Dead Tree	Removed by Others	-	-
AT028	<i>Bauhinia variegata</i>	肯氏南洋杉	7.0	95	2.0	Fair	Fair	Medium	Medium	Transplant	4.4	Affected by temporary work access.	Broken Bark	Half of the branches broken by typhoon. Recommend pruning before transplant.	Transplant	To be re-planted to original location
T1727	<i>Roystonea regia</i>	王棕	10.0	370	4.5	Fair	Fair	Medium	Medium	Fell	4.3	Affected by proposed roadworks	1/ Bottle neck trunk 2/ Poor taper	Not affected	Fell	Refer to Planting Plan Dwg. 60095653/CI/9013B and to be re-planted with compensatory trees of same species
T1730	<i>Bauhinia variegata</i>	宫粉羊蹄甲	8.0	130	5.0	Poor	Fair	Low	Medium	Transplant	4.3	Affected by proposed roadworks	-	Abrupt bend, poor tree form. Recommend fell	Fell	To be coordinated by Project Office
T1732	<i>Bauhinia variegata</i>	宫粉羊蹄甲	7.0	120	7.0	Poor	Fair	Low	Low	Fell	4.3	Affected by proposed roadworks	1/Poor form 2/ Abrupt bends 3/ Lean 30 degree	Main trunk broken by typhoon, recommend fell	Fell	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be replanted with compensatory trees of same species
T1736	<i>Bauhinia blakeana</i>	洋紫荆	10.0	200	10.0	Fair	Fair	Medium	Medium	Transplant	4.4	Affected by temporary work access.	1/ Lean 20 degree	Main trunk broken by typhoon, serious leaning, poor tree form, recommend fell	Fell	To be re-planted to original location
T1739	<i>Bauhinia blakeana</i>	洋紫荆	11.0	320	10.0	Fair	Fair	Medium	Medium	Transplant	4.5	Affected by temporary work access.	1/ Lean 2/ On slope 3/ Unbalance form 4/ Bark crack	Most branches broken by typhoon, serious leaning, poor tree form, recommend fell	Fell	To be re-planted to original location
T1742	<i>Bauhinia variegata</i>	宫粉羊蹄甲	8.0	240	8.0	Fair	Fair	Low	Medium	Fell	4.5	Affected by temporary work access.	1/ Multipal trunk, included bark 2/ Unbalance form 3/ Broken branch	Poor tree form, very low live crown ratio, multipal trunks with included bark, recommend fell	Fell	To be re-planted with compensatory trees of same species at original location
T1769	<i>Bauhinia blakeana</i>	洋紫荆	7.0	220	6.0	Fair	Fair	Medium	Medium	Fell	4.6	Affected by proposed roadworks	1/ Abnormal swelling 2/ Bad taper 3/ Lean 15 degree	Tree Failure / Broken Bark / Exposed Root	Felled by Others	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be re-planted with compensatory trees of same species
T1771	<i>Ficus elastica</i>	印度榕(印度橡樹)	9.0	610	10.0	Fair	Fair	Medium	Low	Transplant	4.7	Affected by proposed roadworks	-	Main trunk broken by typhoon, poor tree form, not possible to transplant due to the DBH 610mm, recommend fell	Fell	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be re-planted with compensatory trees of same species
T1780	<i>Bauhinia variegata</i>	宫粉羊蹄甲	10.0	240	8.0	Poor	Poor	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Lean 45 degree 2/ Exposed very strong reation roots 3/ Trunk cavity and decay 4/ Internal structural problem with swelling 5/ Insects infection	Leaning / Broken Bark / Exposed Root / Trunk Cavity	Felled by Others	To be re-planted with compensatory trees of same species at original location
T1781	<i>Bauhinia variegata</i>	宫粉羊蹄甲	9.0	170	8.0	Poor	Poor	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Lean 5-10 degree 2/ 1M decay in trunk 3/ Unbalance crown 4/ Splitting main trunk	Leaning / Broken Bark / Trunk Cavity / Trunk bend / Main trunk broken	Fell	To be re-planted with compensatory trees of same species at original location
T1782	<i>Bauhinia variegata</i>	宫粉羊蹄甲	8.0	230	8.0	Poor	Poor	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Main trunk with abnormal sunk 2/ Lean 10 degree 3/ Main trunk splitting	Leaning / Broken Bark / Damaged Branch / Trunk bend / Main trunk broken	Fell	To be transplanted to other Contract and replanted with compensatory trees of same species
T1783	<i>Bauhinia variegata</i>	宫粉羊蹄甲	8.0	208	9.0	Poor	Poor	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Serious trunk decay over 1meter 2/ Lean 14 degree	Leaning / Broken Bark / Damaged Branch / Trunk Cavity / Main trunk is broken	Fell	To be transplanted to other Contract and replanted with compensatory trees of same species
T1784	<i>Bauhinia variegata</i>	宫粉羊蹄甲	10.0	170	8.0	Poor	Poor	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Lean 45 degree 2/ Cavity in root collar 3/ Unbalance crown 4/ Splitting main trunk	Serious leaning / Broken Bark	Fell	To be re-planted with compensatory trees of same species at original location
T1785	<i>Bauhinia blakeana</i>	洋紫荆	10.0	200	10.0	Poor	Poor	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ 1.5M bark crack with sign of decay 2/ Splitting branches 3/ Co-dominant branch 4/ Suspected topping before	Main trunk broken by typhoon, recommend fell	Fell	To be re-planted with compensatory trees of same species at original location
T1789	<i>Bauhinia variegata</i>	宫粉羊蹄甲	8.0	210	7.0	Fair	Fair	Medium	Medium	Fell	4.8	Affected by proposed roadworks	1/ Multipal trunks (3) just 10cm above soil 2/ Poor structure 3/ Wound on one of the trunk 4/ Not recommend for transplant	Broken Bark / Damaged branches	Fell	To be re-planted with compensatory trees of same species at original location

Tree Survey Schedule for Elevated Layby Area

Tree No.	Tree Species	Chinese Name	Size			Tree Form (Good, Fair, Poor)	Health (Good, Fair, Poor, Dead)	Amenity Value (High, Medium, Low)	Survival of Transplantation (High, Medium, Low)	Propose Recommendation (Retain / Transplant / Fell)	mPD (m)	Justification	Remark	Remark after Typhoon No. 10		Final Location
			Tree Height (m)	Diameter at Breast Height (mm)	Tree Crown Spread (m)									Defect After Typhoon No. 10	Remark After Typhoon No. 10 (Retain/ Transplant / Fell)	
T1790	<i>Bauhinia variegata</i>	宮粉羊蹄甲	7.0	200	7.0	Fair	Fair	Medium	Medium	Fell	4.8	Affected by proposed roadworks	1/ Abrupt bend in main trunk 2/ Big wound in main trunk 3/ Abnormal swelling 4/ Unbalance crown 5/ Not recommend for transplant	Main trunk broken by typhoon, recommend fell	Fell	To be re-planted with compensatory trees of same species at original location
T1791	<i>Bauhinia variegata</i>	宮粉羊蹄甲	7.0	160	7.0	Fair	Fair	Medium	Medium	Fell	4.8	Affected by proposed roadworks	1/ Lean 15 degree 2/ Decay in main trunk 3/ Multitpal splitting branches	Main trunk broken by typhoon, recommend fell	Fell	To be re-planted with compensatory trees of same species at original location
T1792	<i>Bauhinia variegata</i>	宮粉羊蹄甲	7.0	150	6.0	Fair	Fair	Medium	Medium	Transplant	4.8	Affected by proposed roadworks	-	Main trunk broken by typhoon, recommend fell	Fell	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be re-planted with compensatory trees of same species
T1793	<i>Bauhinia variegata</i>	宮粉羊蹄甲	3.0	130	2.0	Poor	Poor	Low	Low	Fell	4.8	Affected by proposed roadworks	1/ Serious trunk decay over 1meter 2/ Unbalance form 3/ Not recommend for transplant	Leaning / Broken Bark / Trunk Cavity / Main trunk is broken	Fell	To be transplanted to other Contract and of same species replanted with compensatory trees
T1794	<i>Bauhinia blakeana</i>	洋紫荆	10.0	210	10.0	Poor	Fair	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Leaning 2/ Exposed Root 3/ Trunk Cavity 4/ Topping cut before 5/ Full of watersprouts 6/ Not recommend for transplant	Leaning / Broken Bark / Exposed Root / Trunk Cavity	Fell	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be replanted with compensatory trees of same species
T1795	<i>Bauhinia variegata</i>	宮粉羊蹄甲	7.0	150	7.0	Poor	Fair	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Leaning 2/ Heavy pruning before, decay in wound	Main trunk broken by typhoon, recommend fell	Fell	To be transplanted to other Contract and replanted with compensatory trees of same species
T1796	<i>Bauhinia blakeana</i>	洋紫荆	12.0	320	10.0	Poor	Fair	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Termite infection before 2/ Serious decay in main trunk 3/ Broken main branch with decay	Main trunk broken by typhoon, recommend fell	Fell	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be replanted with compensatory trees of same species
T1797	<i>Bauhinia blakeana</i>	洋紫荆	8.0	180	10.0	Poor	Fair	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Lean 2/ Broken branch and splitting with decay	Tree failure / Broken Bark	Felled by Others	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be replanted with compensatory trees of same species
T1798	<i>Bauhinia blakeana</i>	洋紫荆	9.0	130	9.0	Poor	Fair	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Co-dominant stem, poor structure and taper, decay in the V point 2/ Dead trunk 3/ Lean 4/ Sign of termite infection before	Main trunk broken by typhoon, recommend fell	Fell	Refer to Planting Plan Dwg. 60095653/CI/9012B and to be replanted with compensatory trees of same species
T1799	<i>Bauhinia variegata</i>	宮粉羊蹄甲	9.0	160	9.0	Poor	Fair	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Lean 35 degree 2/ Decay in previous pruning wound	Tree was collapsed by typhoon, recommend remove.	Fell	To be transplanted to other Contract and replanted with compensatory trees of same species
T1800	<i>Bauhinia blakeana</i>	洋紫荆	7.0	208	7.0	Poor	Fair	Low	Low	Fell	4.7	Affected by proposed roadworks	1/ Lean over 45 degree 2/ Poor structure and tree form 3/ Abrupt bends 4/ Not recommend for transplant	Tree failure / Broken Bark	Felled by Others	To be transplanted to other Contract and replanted to compensatory trees of same species
T1801	<i>Bauhinia blakeana</i>	洋紫荆	10.0	180	8.0	Poor	Fair	Low	Low	Transplant	4.7	Affected by proposed roadworks	1/ Lean 40 degree 2/ Poor tree structure and tree form	Serious leaning / Broken Bark	Fell	To be re-planted to original location
T1802	<i>Bauhinia blakeana</i>	洋紫荆	10.0	220	8.0	Poor	Fair	Low	Low	Fell	4.7	Affected by temporary work access.	1/ Lean 40 degree 2/ Poor tree structure and tree form 3/ Splitting main branch 4/ Topping before	Serious leaning / Broken Bark	Fell	To be re-planted with compensatory trees of same species at original location
T1803	<i>Delonix regia</i>	鳳凰木	13.0	355	12.0	Poor	Fair	Low	Low	Fell	4.7	Tree located just 3.7M next to the pile cap. High possibility affected by the excavation, within the drip line, we estimated over 40-50% structural, lateral and absorbing roots will be damaged. Damage over 40% of root system is a extreme stress factor,	1/ Insects infection 2/ Lean 20 degree 3/ Serious branch damaged 4/ It is negotiated that this tree is location at the middle of the site, Pile Cap located 2.6M next to the tree, estimate over 40% of root system will be seriously damaged or cut. 5/ It is not possible for transplant, due to heaving topping on main trunk to 9M (not included root ball), also crown reduction to within 2.5M, in order to load to the 40ft platform trailer. This mature tree will be survive according to this kind of pruning 6/ Recommend for fell.	Most branches broken by typhoon, remain around 10% live crown ratio, tree will not survive after root pruning, recommend fell	Fell	To be re-planted with compensatory trees of same species at original location
T1804	<i>Delonix regia</i>	鳳凰木	15.0	335	10.0	Fair	Fair	Medium	Low	Fell	4.6	Tree located just 2.6M next to the pile cap. High possibility affected by the excavation, within the drip line, we estimated over 40-50% structural, lateral and absorbing roots will be damaged. Damage over 40% of root system is a extreme stress factor,	1/ Insects infection 2/ It is negotiated that this tree is location at the middle of the site, Pile Cap located 3.7M next to the tree, root system will be seriously damaged, which must be removed or transplanted. 3/ It is not possible for transplant, due to heaving topping on main trunk to 9M (not included root ball), also crown reduction to within 2.5M, in order to load to the 40ft platform trailer. This mature tree will be survive according to this kind of pruning 4/ Recommend for fell.	Cavity at basal area / Wilting	Felled by Others	To be re-planted with compensatory trees of same species at original location

Tree Survey Schedule for Elevated Layby Area

Tree No.	Tree Species	Chinese Name	Size			Tree Form (Good, Fair, Poor)	Health (Good, Fair, Poor, Dead)	Amenity Value (High, Medium, Low)	Survival of Transplantation (High, Medium, Low)	Propose Recommendation (Retain / Transplant / Fell)	mPD (m)	Justification	Remark	Remark after Typhoon No. 10		Final Location
			Tree Height (m)	Diameter at Breast Height (mm)	Tree Crown Spread (m)									Defect After Typhoon No. 10	Remark After Typhoon No. 10 (Retain/ Transplant / Fell)	
T1806	<i>Delonix regia</i>	鳳凰木	14.0	530	16.0	Fair	Fair	Medium	Low	Fell	4.6	Tree located just 8.4M next to the pile cap. High possibility affected by the excavation, within the drip line, we estimated over 40-50% structural, lateral and absorbing roots will be damaged. Damage over 40% of root system is a extreme stress factor,	1/ Insects infection 2/ It is negotiated that this tree is location at the middle of the site, Pile Cap located 8.4M next to the tree, root system will be seriously damaged, which must be removed or transplanted. 3/ It is not possible for transplant, due to heaving topping on main trunk to 9M (not included root ball), also crown reduction to within 2.5M, in order to load to the 40ft platform trailer. This mature tree will be survive according to this kind of pruning 4/ Recommend for fell.	Most branches broken by typhoon, remain around 10% live crown ratio, tree will not survive after root pruning, recommend fell	Fell	To be replanted with compensatory trees of same species at original location
T1807	<i>Macaranga tanarius</i>	血桐	7.0	180	6.0	Fair	Fair	Medium	Low	Transplant	4.6	Tree located just 2.9M next to the pile cap. High possibility affected by the excavation, we estimated over 40-50% structural, lateral and absorbing roots will be damaged. We highly suggest for transplant.	-	Not affected	Transplant	To be re-planted to original location
T1811	<i>Roystonea regia</i>	王棕	11.0	300	4.5	Fair	Fair	Medium	Medium	Transplant	4.5	Tree located just 7.0M next to the pile cap, tree trunk may be damaged by excavator during excavation work. It is measured low possibility for setting up tree protection zone, due to the different grading level.	-	Not affected	Transplant	To be re-planted to original location
T1817	<i>Ficus elastica</i>	印度榕(印度橡樹)	5.0	108	3.0	Fair	Fair	Medium	Low	Fell	4.4	Tree located just 3.4M next to the pile cap. Highly possibility affected by the excavation, we estimated over 30-40% structural, lateral and absorbing roots will be damaged. We assessed that this tree condition is not suitable for transplant, reasons at R	1/ Leaning 2/ Trunk Cavity 3/ Broken branch with decay	Leaning / Broken Bark / Trunk Cavity / Trunk bend	Transplant	To be transplanted to other Contract and replanted with compensatory trees of same species

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Appendix D - Detail Photos of trees

Contract No. : HY/2009/18
Central - Wan Chai Bypass - Central Interchange Portion 6
Photographic Record
Revision Date: 12 September 2012



AT022-A



AT022-B



AT023-A



AT023-B



AT023-C



AT024-A



AT024-B



AT024-C



AT024-D



AT025-A



AT025-B



AT026-A

Contract No. : HY/2009/18
Central - Wan Chai Bypass - Central Interchange Portion 6
Photographic Record
Revision Date: 12 September 2012



AT026-B



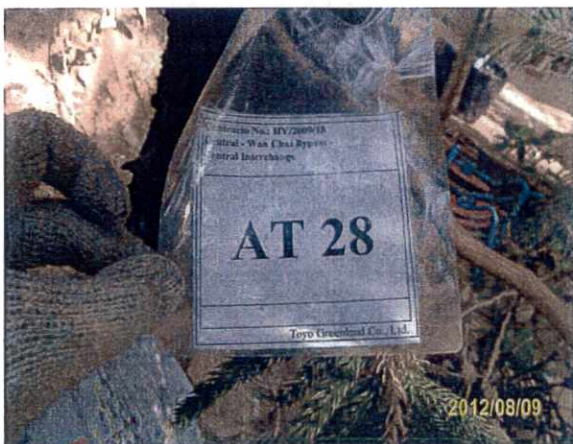
AT027-A



AT027-B



AT027-C



AT028-A



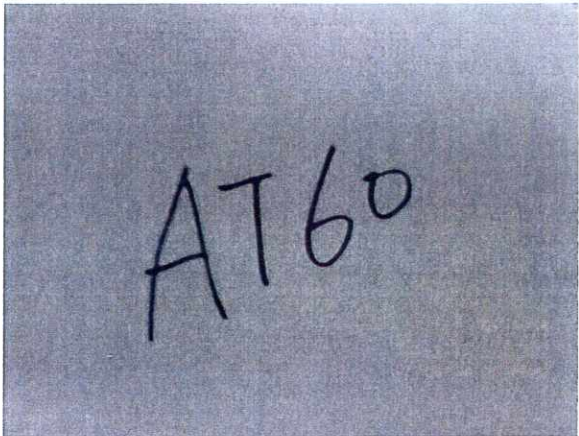
AT028-B



AT028-C



AT028-D



AT060-A



AT060-B



T1727-A



T1727-B



T1730-A



T1730-B



T1732-A



T1732-B



T1732-C



T1736-A



T1736-B



T1736-C



T1736-D



T1736-E



T1739-A



T1739-B

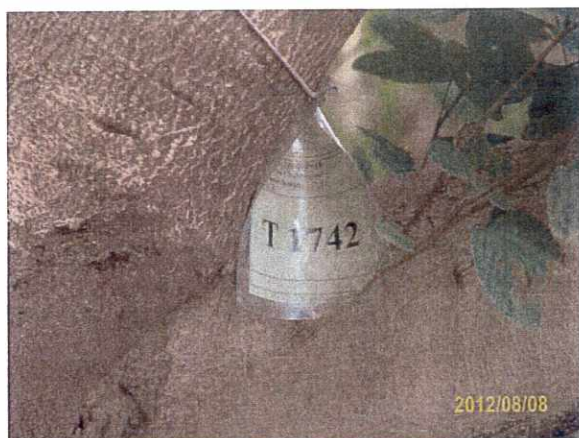
Contract No. : HY/2009/18
Central - Wan Chai Bypass - Central Interchange Portion 6
Photographic Record
Revision Date: 12 September 2012



T1739-C



T1739-D



T1742-A



T1742-B



T1769-A



T1769-B

Contract No. : HY/2009/18
Central - Wan Chai Bypass - Central Interchange Portion 6
Photographic Record
Revision Date: 12 September 2012



T1769-C



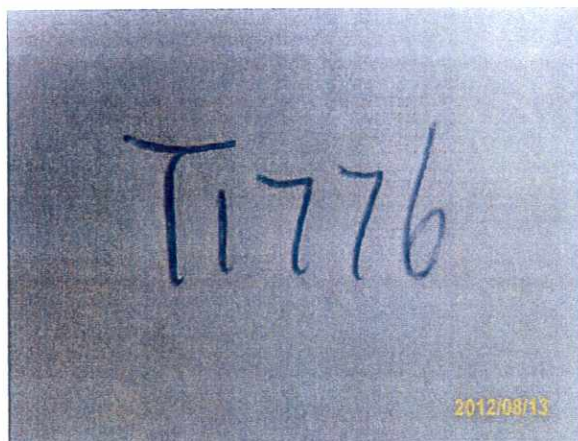
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T1771-B



T1771-C



T1776-A

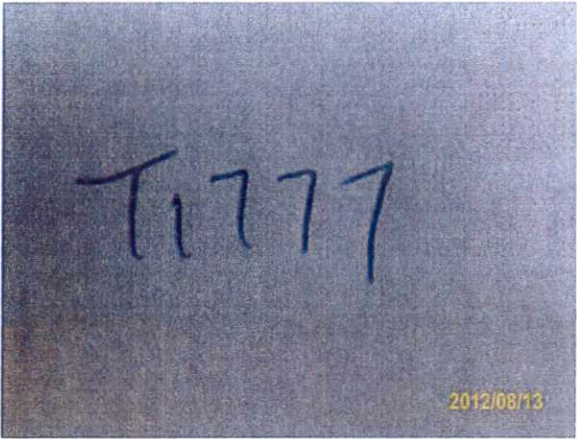


T1776-B

Contract No. : HY/2009/18
Central - Wan Chai Bypass - Central Interchange Portion 6
Photographic Record
Revision Date: 12 September 2012



T1776-C



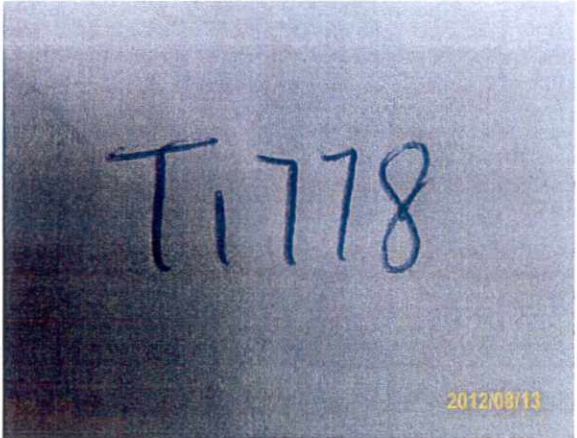
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T1777-C



T1778-A



T1778-B



T1780-A



T1780-B



T1780-C



T1781-A



T1781-B



T1781-C

Contract No. : HY/2009/18
Central - Wan Chai Bypass - Central Interchange Portion 6
Photographic Record
Revision Date: 12 September 2012



T1782-A



T1782-B



T1782-C



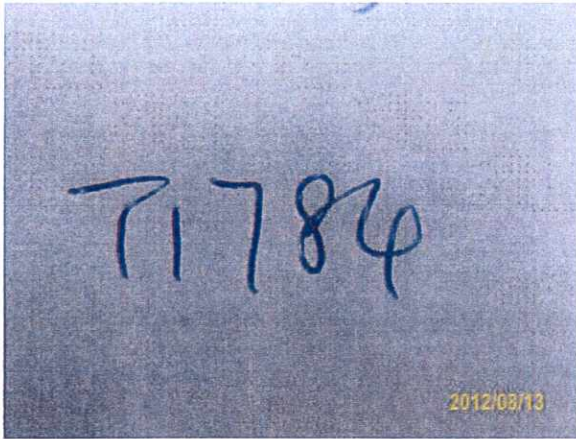
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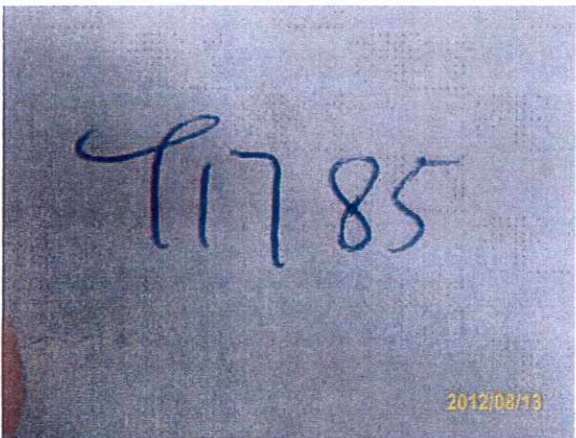
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T1784-B



T1785-A



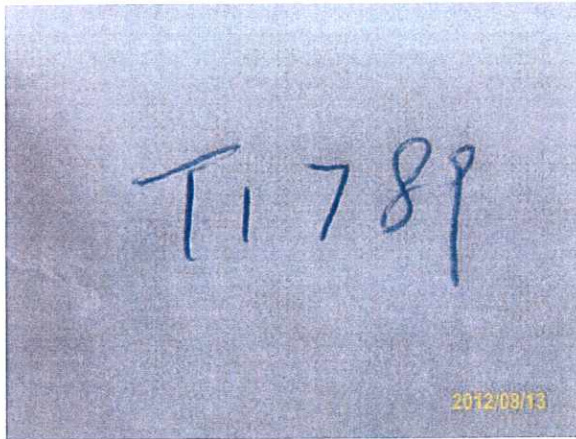
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T1785-C



T1785-D



T1789-A



T1789-B



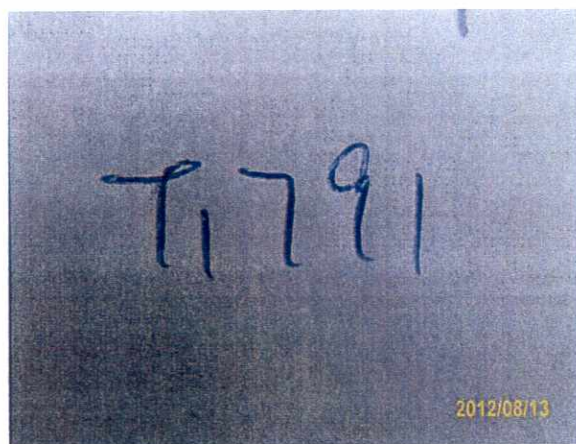
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T1790-A



T1790-B



T1791-A

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T1791-B



T1791-C



T1791-D



T1792-A



T1792-B



T1792-C



T1793-A



T1793-B



T1793-C



T1794-A



T1794-B



T1794-C



T1794-D



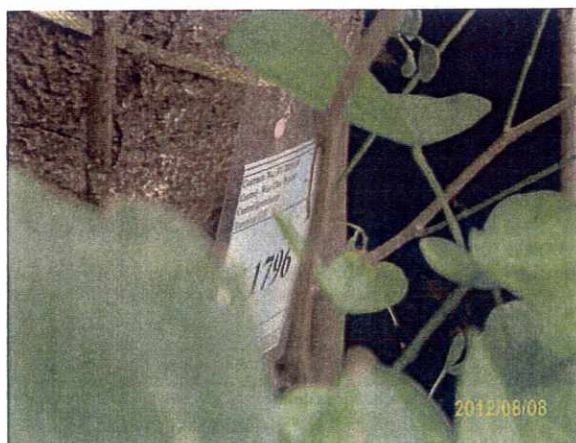
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T1795-C



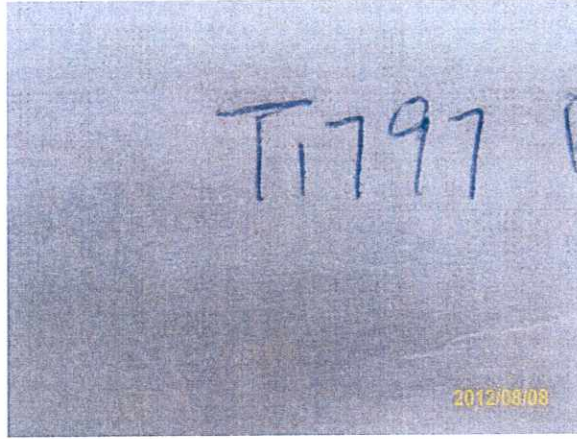
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T1796-C



T1797-A



T1797-B



T1797-C



T1797-D



T1798-A

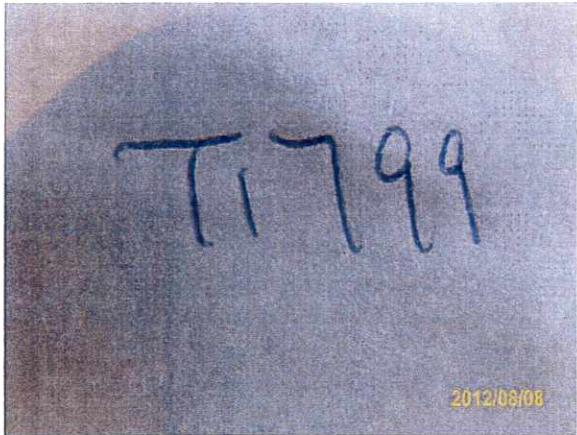
Contract No. : HY/2009/18
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Revision Date: 12 September 2012



T1798-B



T1798-C



T1799-A



T1799-B



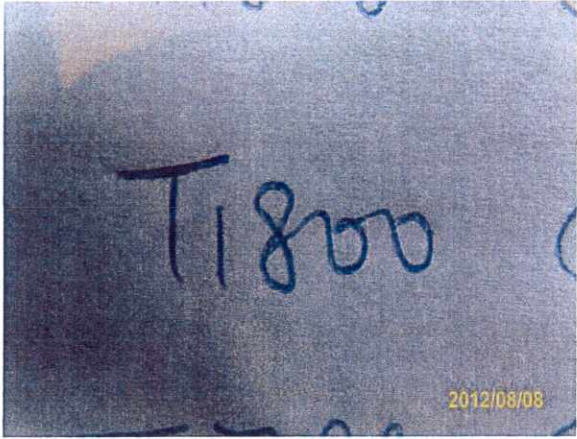
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T1799-D



T1799-E



T1800-A



T1800-B



T1801-A



T1801-B



T1801-C



T1802-A



T1802-B



T1802-C



T1803-A



T1803-B



T1803-C



T1803-D



T1804-A



T1804-B



T1804-C



T1806-A



T1806-B



T1806-C



T1806-D



T1807-A



T1807-B



T1807-C



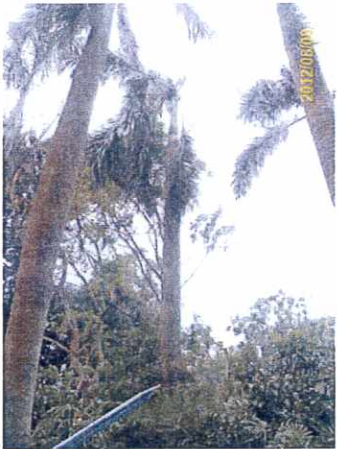
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T1810-A



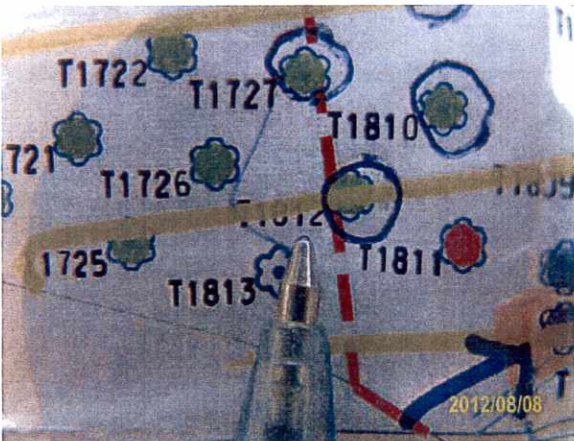
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T1811-A



T1811-B



T1812-A



T1812-B



T1814-A



T1814-B



T1815-A

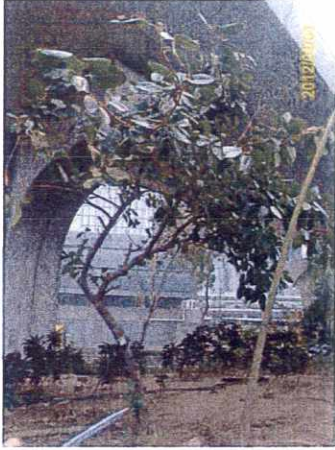


T1815-B



T1817-A

Contract No. : HY/2009/18
Central - Wan Chai Bypass - Central Interchange Portion 6
Photographic Record
Revision Date: 12 September 2012

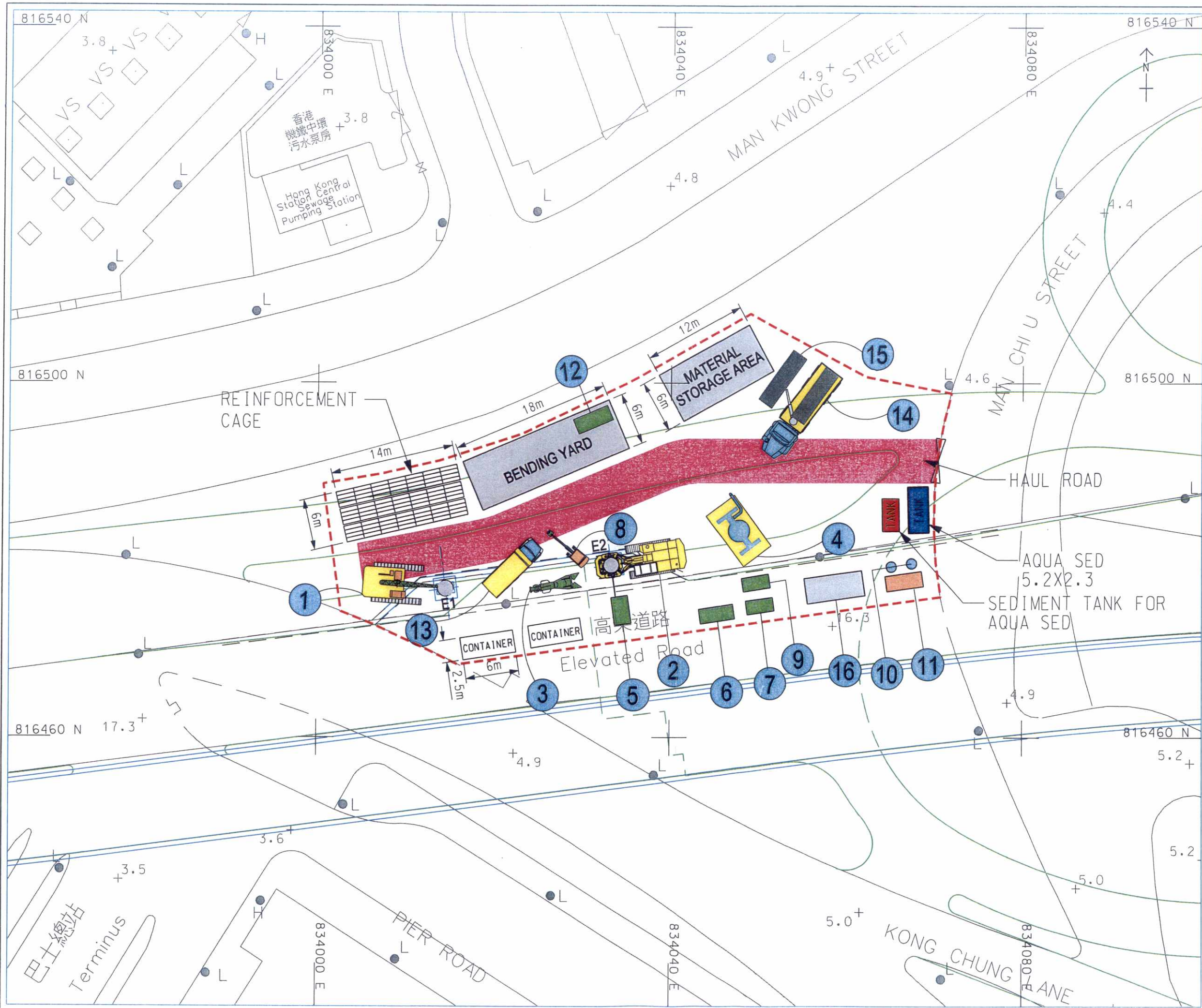


T1817-B

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Appendix E – Site Layout Plan for Piling Works



DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE

NOTES:
1. ALL LEVELS ARE IN METRES ABOVE HONG KONG PRINCIPAL DATUM.

LEGEND:
- - - - - WORK ACCESS (AREA= 1819m²)

MAJOR PLANT / EQUIPMENT AND MATERIAL	
1	CRAWLER CRANE (120 TON)
2	ROTATOR / OSCILLATOR
3	GRAB & CHISEL
4	REVERSE CIRCULATION DRILL
5	POWER PACK
6	GENERATOR
7	WELDING SET
8	BACKHOE
9	AIR COMPRESSOR
10	SUBMERSIBLE PUMP
11	WATER TREATMENT TANK
12	BENDING MACHINE
13	DUMP TRUCK
14	CRANE LORRY
15	STEEL CASING
16	SEDIMENTATION TANK

REV. NO.	DESCRIPTION	BY	CHECKED	DATE
-	FIRST ISSUE	WHL	WHL	MAY-12

CAD FILE: 120502 Site Layout Plan for Piling Works (Option 2).xls, AS.dgn

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK
CENTRAL - WAN CHAI BYPASS
CENTRAL INTERCHANGE

CONSULTANT ENGINEER
AECOM
AECOM Asia Co. Ltd.
(Formerly known as Mueser Rutledge Consulting Engineers)

CONTRACTOR
LEIGHTON CONTRACTORS (ASIA) LTD.

DRAWING TITLE
SITE LAYOUT PLAN FOR PILING WORKS - ELEVATED LAYBY (OPTION 2)

DRG. NO. H2540/L.CAL/RD/0305

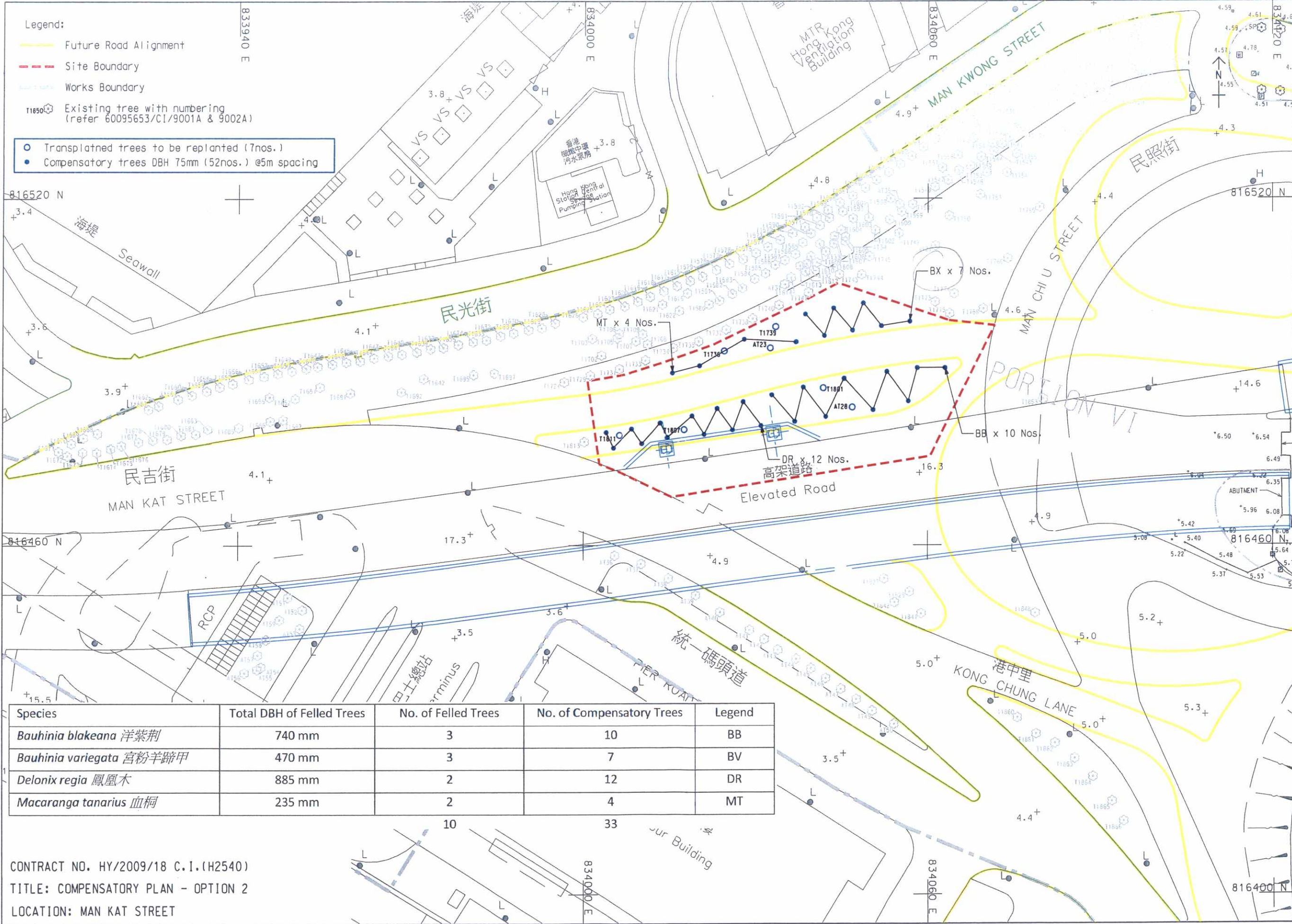
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DATE	MAY-12	DATE	MAY-12	DATE	MAY-12
SCALE	A3 1:400	STATUS	SKETCH		
UNITS	METRES				
CONTRACT NO.	HY/2009/18				

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Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Appendix F – Compensatory Plan



- Legend:
- Future Road Alignment
 - - - Site Boundary
 - Works Boundary
 - Existing tree with numbering (refer 60095653/CI/9001A & 9002A)
- | | |
|--------------------------------------|--|
| ○ | Transplanted trees to be replanted (7nos.) |
| ● | Compensatory trees DBH 75mm (52nos.) @5m spacing |

Species	Total DBH of Felled Trees	No. of Felled Trees	No. of Compensatory Trees	Legend
<i>Bauhinia blakeana</i> 洋紫荆	740 mm	3	10	BB
<i>Bauhinia variegata</i> 宮粉羊蹄甲	470 mm	3	7	BV
<i>Delonix regia</i> 鳳凰木	885 mm	2	12	DR
<i>Macaranga tanarius</i> 血桐	235 mm	2	4	MT
		10	33	

CONTRACT NO. HY/2009/18 C.I.(H2540)
 TITLE: COMPENSATORY PLAN - OPTION 2
 LOCATION: MAN KAT STREET

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Appendix G – Tree Preservation and Protection Plan

Contractor's Submission Form



Leighton Contractors
(Asia) Limited

39/F Sun Hung Kai Centre
30 Harbour Road, Hong Kong

t: +852 2823 1111
f: +852 2529 8784

Ref: H2540/CSF/OPR/00031-R0

Date: 24/12/2010

Contract: HY/2009/18 – Central-Wan Chai Bypass - Central Interchange

To: Engineer's Representative, The Chief Resident Engineer Mr. David Kwan

Title of Submission: Tree Preservation and Protection Plan

Specification: G.S. 26.02

We are pleased to submit the following for your review and comment

Description:

We herewith submit the Tree Preservation and Protection Plan prepared by the landscape specialist Toyo Greenland Co. Ltd. for your review and approval

Purpose of Submission:

FOR APPROVAL

FOR RECORD OR INFORMATION

Contractor's Representative

Signature:

A handwritten signature in black ink, appearing to read "Brian Gillon".

Name: Brian Gillon
Position: Site Agent
Date:

Distribution: BG / DS / CL

Prepared by: Handwritten initials, possibly "EG".



TOYO GREENLAND CO., LTD.
東陽綠化有限公司

三十週年
30

Leighton Contractors (Asia) Limited
39th Floor, Sun Hung Kai Centre
30 Harbour Road
Hong Kong

Ref.: C2241/10/TGD6023
Date: 21 December 2010

Tel: (9613 5836)
By Fax: (2866 7141)
By E-Mail: Patrick.chiu@leightonasia.com

Attn: Mr. Patrick CHIU

Dear Sir,

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange
Submission of Tree Preservation and Protection Plan

We are pleased to submit herein the Tree Preservation and Protection Plan for your onward submission.

If you require further information, please feel free to contact our Mr. Rachel YAN on 3760 1930 or the undersigned on 9090 9912.

Yours faithfully,
TOYO GREENLAND CO., LTD.

Mr. HO Tat Pui, Daniel
Managing Director
DH/DA/EP/ry

Encl. Tree Preservation and Protection Plan



No. 58, South Section, Wah Shan Village, Sheung Shui, N.T., Hong Kong.

Tel: (852) 2639 9312 Fax: (852) 2377 2150 Website: www.toyogreen.com



H2540 – HY/2009/18

**Tree Preservation and Protection
Plan**

Checked by:



Casey Lau
Construction Manager

Approved by:



Desmond Sze
Deputy Site Agent

About this Document

This document is available for all project employees via the project network. We regularly revise this document and the latest version is always available electronically. Once printed, the document should no longer be considered to be the latest version. It may be distributed to the Highways Department and the Engineer on the understanding that any such document may not be the latest version or it may be distributed to the Highways Department and the Engineer as a controlled document in which case the front cover is to be stamped "Controlled Copy" in red and a copy number added.

The status of this plan is identified by a revision number and date on each page. Changes to the document are identified by a vertical single line in the right-hand margin. On revision, the plan will be uploaded as a whole to the project server or within the Leighton Asia Document Management System Technical Documents Module.

If you have any enquiry relating to this plan, please contact the Construction Manager (Roadworks).

Revision History and Plan Approval

Revision	Date	Prepared by:	Checked by:	Approved by:
00	24 Dec. 10	Eric Yuen	Casey Lau	Desmond Sze

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1 Introduction

1.1 Overview

This Tree Preservation and Protection Plan is written for the Contract No. HY/2009/18 Central – Wan Chai Bypass Central Interchange to meet the contract requirements as stated in the General Specification Clause 26.02.

The works description for this Contract comprises the followings:

- a) Approach roads leading to the CWB tunnel west portal;
- b) At grade slip roads and associated roads;
- c) The bridge deck for the westbound carriageway of Rumsey Street Flyover Extension;
- d) The eastbound Slip Road D flyover;
- e) Modification/demolition of the existing dual 2-lane tunnel under Man Yiu Street;
- f) Cut-and cover tunnel between the CWB tunnel west portal and the limit of tunnel to be completed under the CR111 contract;
- g) Sub-structure, basement and foundations for the West Ventilation Building;
- h) Civil works provisions for tunnel Electrical & Mechanical and Traffic Control and Surveillance System works;
- i) Widening/modification of existing Man Yiu Street; and junction for road P1;
- j) Associated road works and drainage/sewerage works; and
- k) Landscaping works including tree transplanting.

1.2 Purpose of the Plan

This Plan provides guidance on the physical and appropriate precautionary measures required in order to reduce significant or detrimental impact on the health or amenity of retained and transplant trees.

2 Preservation and Protection

2.1 General

- a) The proper color label should be fixed on the tree trunk in order to identify the status of preservation, (Green – Retaining on Site)
- b) 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, trunk and root zones.
- c) The trees to be felled or transplant, which are adjacent to, or which lie within a continuous canopy of the preserved trees, shall be carefully removed, and if necessary in sections but not using bulldozers in any circumstances, so as not to cause damage to the preserved trees such as scraping bark off trunks or breaking branches of trees,
- d) No stripping of surface vegetation or top layer of soil, and no paving or earth filling shall be carried out within the tree protection zones unless otherwise agreed by the

Engineer.

- e) Where it is necessary to clear the existing undergrowth within the tree protection zones to allow access and visibility for, and operation of any construction work,
 - Shrubs shall be pruned and grass or other herbaceous plants shall be cut to a height of not less than 50 mm above the ground level but not pulled out by equipment in any circumstances
 - The agreement of the Engineer shall be obtained before vegetation clearance commences
- f) No concrete mixing, gas tank filling, paintbrush and tool cleaning, or equipment maintenance shall be carried out within the tree protection zones,
- g) Allowance shall be made for the slope of the ground so that damaging materials such as concrete washings, mortar or diesel oil cannot run towards the trees,
- h) All materials should be covered when idled.
- i) No accumulation of debris to excessive shall be permitted.
- j) Store the material in a designated area for temporary storage. The designated area should be kept a reasonable distance from the working area such that it will not obstruct the public and workers.
- k) Repair any damage to the trees in accordance with the requirements stipulated in General Specification 26.16,

2.2 Tree Protection Zone

- a) The tree protection zone of the retained trees will be the area within the dripline of the tree crown of individual tree.
- b) Use of temporary protective mulching to cover the entire tree protection zones.
- c) Any necessary scarification or cultivation within the tree protection zones shall be carried out carefully by hand so as not to cause damage to the trees, in particular the bark and the roots,

2.3 Branch Cutting

- a) Branch cutting with diameter more than 25 mm will be carried out according to the following situation. The individual Tree Assessment Report is required and to be approved by the Project Manger of the project.
 - Hazardous branches is necessary to remove branches of a tree when they are damaged in order to give clearance e.g. for pedestrian and vehicular traffic by taking away the lower branches, to help the tree to form a balanced crown and to remove crossed branches.
 - Defect branches are necessary to remove branches of a tree when they are diseased, dying or dead.
- b) Carefully lower all cut branches to the ground to prevent any damage to limbs being retained.
- c) The procedure of the branch cutting as followed.
 - If the location of cutting branch is located at the height higher than 3 meter. The Lifting platform will be used to lift the skilled labour to a suitable level for branch cutting.
 - Two ropes will be used to fix at the tip of the cut branch that will be held by 2

- labours on the ground in order to guide the direction of the falling branches.
- Cutting of branches will be carried out using 3-cut method in order to prevent tearing of tree bark in branch cutting.
- Pre-cut is carried out at the under-side of the tree to about 1/4 of the diameter of the cutting branch.
- A safety rope will be used to fix the ends of the remaining portion for 2nd cut.

2.4 Tree surgery

- a) Cut out rotten wood from cavities, without exposing clean healthy wood.
- b) The contractor shall carry out all necessary work of repair of any damage to the preserved trees and other plants affected.

2.5 Treatment of Wounds

- a) All loose, dead or damaged barks should be removed. The back of crushed edges to undamaged wood should be trimmed with all margins round.
- b) Any cut or wound over 25mm diameter should be painted with an approved fungicidal bituminous sealing compound afterwards.

2.6 Post-planting Fertilizer

Post-planting fertilizer shall be applied after the tree pruning, weeding and treatment of wounds.

2.7 Disease and Pest Control

- a) The inspection will be carried out by the specialist bi-monthly and identify the infected area of tree body.
- b) The approved chemical pesticide and fungicide will be applied using manual or gasoline sprayer according manufacturer's instruction .

2.8 Tree Trunk Protection

- a) The tree trunk should be wrapped and covered from the ground level and up to 2m of the tree trunk by armouring the Hessian Mat.
- b) Removal of temporary protective armouring and mulching upon completion of work.

2.9 Bi-Monthly Inspection

An inspection report comprising updated photographic records should be submitted in every two month to identify the required horticultural maintenance works.

3 Risk assessment

Risk assessment is an important tool to identify the hazards associated with work activities to be carried out on site, and to develop and implement appropriate control measures to eliminate / minimize the risk of accident / incident caused by these hazards.

In term of tree preservation and protection plan, the project management should carry out a detail assessment to identify the potential hazards (e.g. Hit by live traffic) and their causes (e.g. narrow road) in the planning stage for identifying the special arrangements and/or control measures to deal with such hazards.

Table 3-1 Risk Summary of the Tree Preservation and Protection

Hazard	Risk Level	Action
a) Hit by live traffic	Medium	<ul style="list-style-type: none"> - Enclose the work area with suitable barriers or traffic cones - Flash light & signage arrangement should be strictly placed according to the approved TTA drawing - Reflective vest shall be mandatory and be worn all time on site - Provide trained banksman for traffic diversion if necessary - All the workers should be briefed in daily basis to remind the job hazard and remedial measures
b) Hit by Falling branches / equipment	Medium	<ul style="list-style-type: none"> - Fence off the working area - Provide competent tree surgeons - Provide safety helmet with chinstrap to workers (meets EN397 or equivalent) - Tie up the branch being cut off to control the fall and fasten up the equipment while in use - Branches to be cut in small section
c) Hit by moving crane / cherry picker	Medium	<ul style="list-style-type: none"> - Flash light & signage arrangement should be strictly placed according to the approved TTA drawing - Display sign and warning notices to aware the general public - Properly fencing should be provided to fence off the public - Secure the trees those near the trench work before excavation commence

d) Tree falling	Medium	<ul style="list-style-type: none"> - Flash light & signage arrangement should be strictly placed according to the approved TTA drawing - Display sign and warning notices to aware the general public - Properly fencing should be provided to fence off the public - Secure the trees those near the trench work before excavation commence
e) Tripping	Low	<ul style="list-style-type: none"> - Safety shoes shall be mandatory and be worn all the time on site - Provision of good housekeeping
f) Hand or back injury during manual handling operation	Low	<ul style="list-style-type: none"> - Provide sufficient labour force to carry out manual lifting works - Conduct manual handling training / briefing - Split work into small sections, avoid bending for long periods
g) Long exposure under the sun	Medium	<ul style="list-style-type: none"> - Ensure workers carry enough water when working on site - Take short breaks if working for long periods
h) High noise level	Medium	<ul style="list-style-type: none"> - Conduct noise assessment and demarcate ear protection zone - Provide and ensure to wear approved type ear protector by person within ear protection zone (meets EN352 or equivalent)
i) Contact with overhead lines / Use of electric hand tools	Medium	<ul style="list-style-type: none"> - Check and ensure no work to be carried out in the vicinity of overhead line cables - Inspect the electrical hand tools by Registered Electrical Worker to ensure tools are in good working condition before use - Use low voltage electric hand tools (110V) - Use waterproof socket / plug, armour cable in outdoors - Provide fire extinguisher
j) Inhalation of wood dust and wood dust getting into eyes	Medium	<ul style="list-style-type: none"> - Provide and ensure to use safety eye protector (meet EN166 or equivalent) during work - Provide and ensure to use mouth mask (N95 or equivalent)
k) Cut by sharp tools	Medium	<ul style="list-style-type: none"> - Provide proper gloves to workers - Provide training briefing to the workers

l) Toppling of crane / cherry picker / Man cage failure	Medium	<ul style="list-style-type: none"> - Inspect the ground to ensure stable condition before setting up of crane - Appoint licensed crane operator to operate crane - Appoint trained cherry picker operator to operate cherry picker - Display valid test certificate on crane - Inspect the crane by operator on weekly basis, include ASLI - Inspect the cherry picker at regular intervals - Extend the outrigger completely of the crane if practicable - Use tested lifting gear with marking and safe working load - Apply colour code system to LG - Check condition of lifting gear before use - Provide and ensure to use fall arresting device (meets EN361 or equivalent)
m) Contact with chemicals	Medium	<ul style="list-style-type: none"> - Provide masks if required - Ensure tree surgeons wear hand gloves and proper PPE to avoid contact with skin - Provide goggles - Perform the safety precautions those listed in MSDS

4 Emergency Contact

All Preservation and Protection related accident/ incident occurred within works area of this project shall be promptly reported to project safety department. Rescue, investigation and further reporting procedures shall follow the requirements as stated in the Safety Management Plan.

5 Inspection and Testing Requirements

Complete photograph record of entire transplanting operation at various stages of works. ER will be informed to participate at various stages.

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange

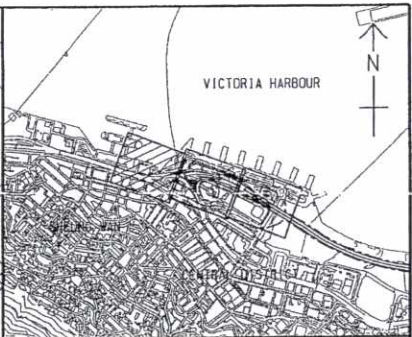
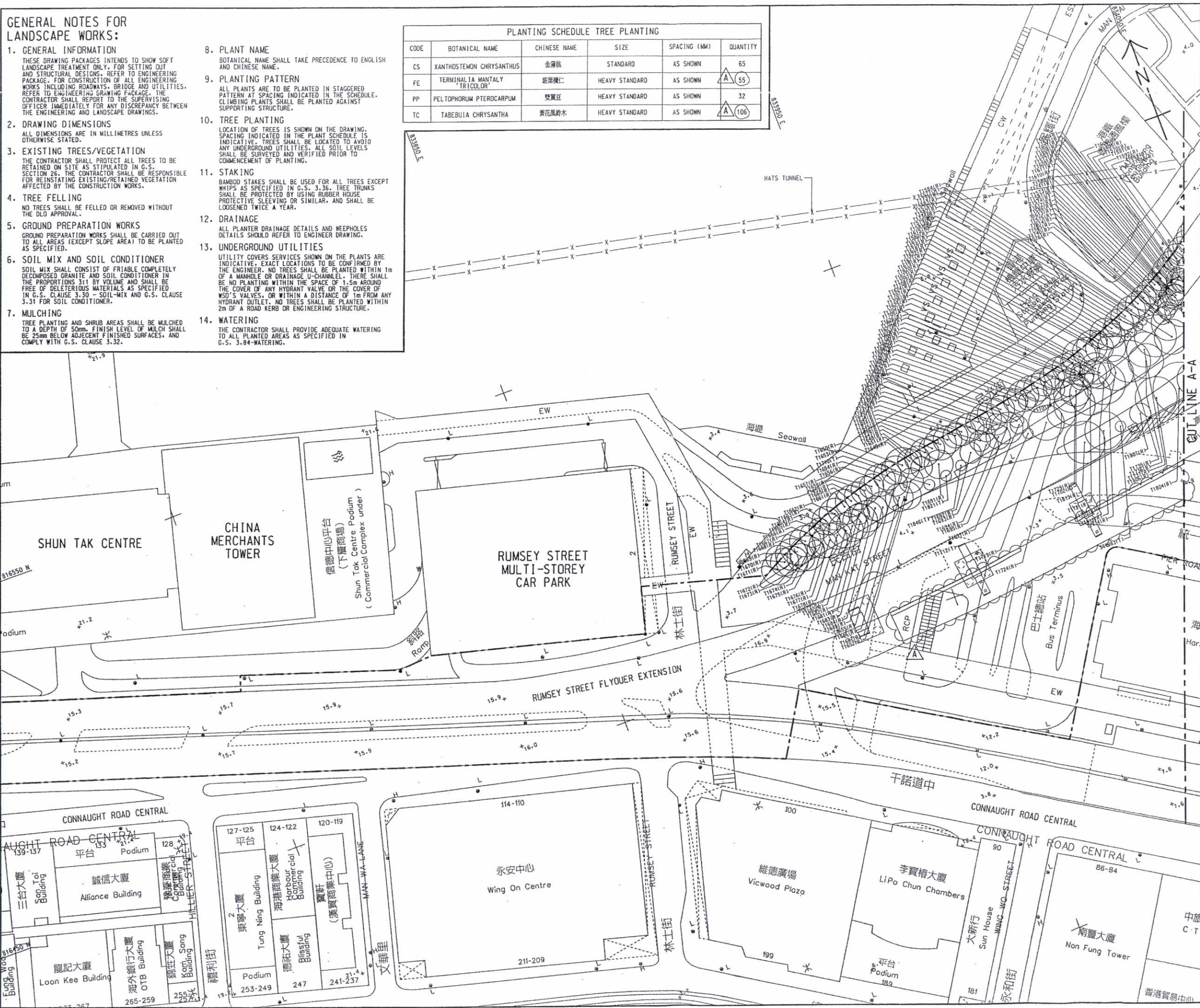
Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

**Appendix H – Tree Planting Plan (Contract Drawings
No. 60095653/CI/9011B, 60095653/CI/9012B)**

GENERAL NOTES FOR LANDSCAPE WORKS:

- GENERAL INFORMATION**
THESE DRAWING PACKAGES INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGNS, REFER TO ENGINEERING PACKAGE. FOR CONSTRUCTION OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGE AND UTILITIES, REFER TO ENGINEERING DRAWING PACKAGE. THE CONTRACTOR SHALL REPORT TO THE SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
- DRAWING DIMENSIONS**
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- EXISTING TREES/VEGETATION**
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN G.S. SECTION 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.
- TREE FELLING**
NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE DLD APPROVAL.
- GROUND PREPARATION WORKS**
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
- SOIL MIX AND SOIL CONDITIONER**
SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.30 - SOIL MIX AND G.S. CLAUSE 3.31 FOR SOIL CONDITIONER.
- MULCHING**
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25mm BELOW ADJACENT FINISHED SURFACES, AND COMPLY WITH G.S. CLAUSE 3.32.
- PLANT NAME**
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
- PLANTING PATTERN**
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.
- TREE PLANTING**
LOCATION OF TREES IS SHOWN ON THE DRAWING. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
- STAKING**
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENED TWICE A YEAR.
- DRAINAGE**
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.
- UNDERGROUND UTILITIES**
UTILITY COVERS SERVICES SHOWN ON THE PLANTS ARE INDICATIVE, EXACT LOCATIONS TO BE CONFIRMED BY THE ENGINEER. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSD'S VALVES, OR WITHIN A DISTANCE OF 1m FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2m OF A ROAD KERB OR ENGINEERING STRUCTURE.
- WATERING**
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.

PLANTING SCHEDULE TREE PLANTING					
CODE	BOTANICAL NAME	CHINESE NAME	SIZE	SPACING (MM)	QUANTITY
CS	XANTHOSTEMON CHRYSANTHUS	金盞花	STANDARD	AS SHOWN	65
FE	TERMINALIA MANTALI "TRICOLOR"	斑葉櫻仁	HEAVY STANDARD	AS SHOWN	55
PP	PELTOPHORUM PTEROCARPUM	雙翼豆	HEAVY STANDARD	AS SHOWN	32
TC	TABEBUIA CHRYSANTHA	黃花風鈴木	HEAVY STANDARD	AS SHOWN	106



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

NOTE:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. 60095653/CI/9012 AND 9013.

- LEGEND:**
- SITE BOUNDARY
 - T1140(R) EXISTING TREE TO BE RETAINED
 - T1140(T) PROPOSED TREE PLANTING
 - ⊙ T1140(T) FINAL LOCATION OF TRANSPLANTED TREE BEFORE CONSTRUCTION WORKS
 - ⊙ T1140(T) FINAL LOCATION OF TRANSPLANTED TREE AFTER CONSTRUCTION WORKS

B	WORKING DRAWING	10/11/2009	10/11/2009
A	TENDER ADDENDUM NO. 1	10/11/2009	10/11/2009
-	TENDER DRAWING	10/11/2009	10/11/2009

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 1 OF 1

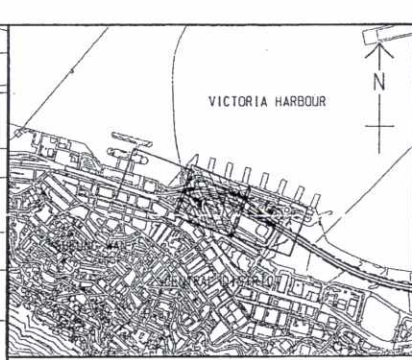
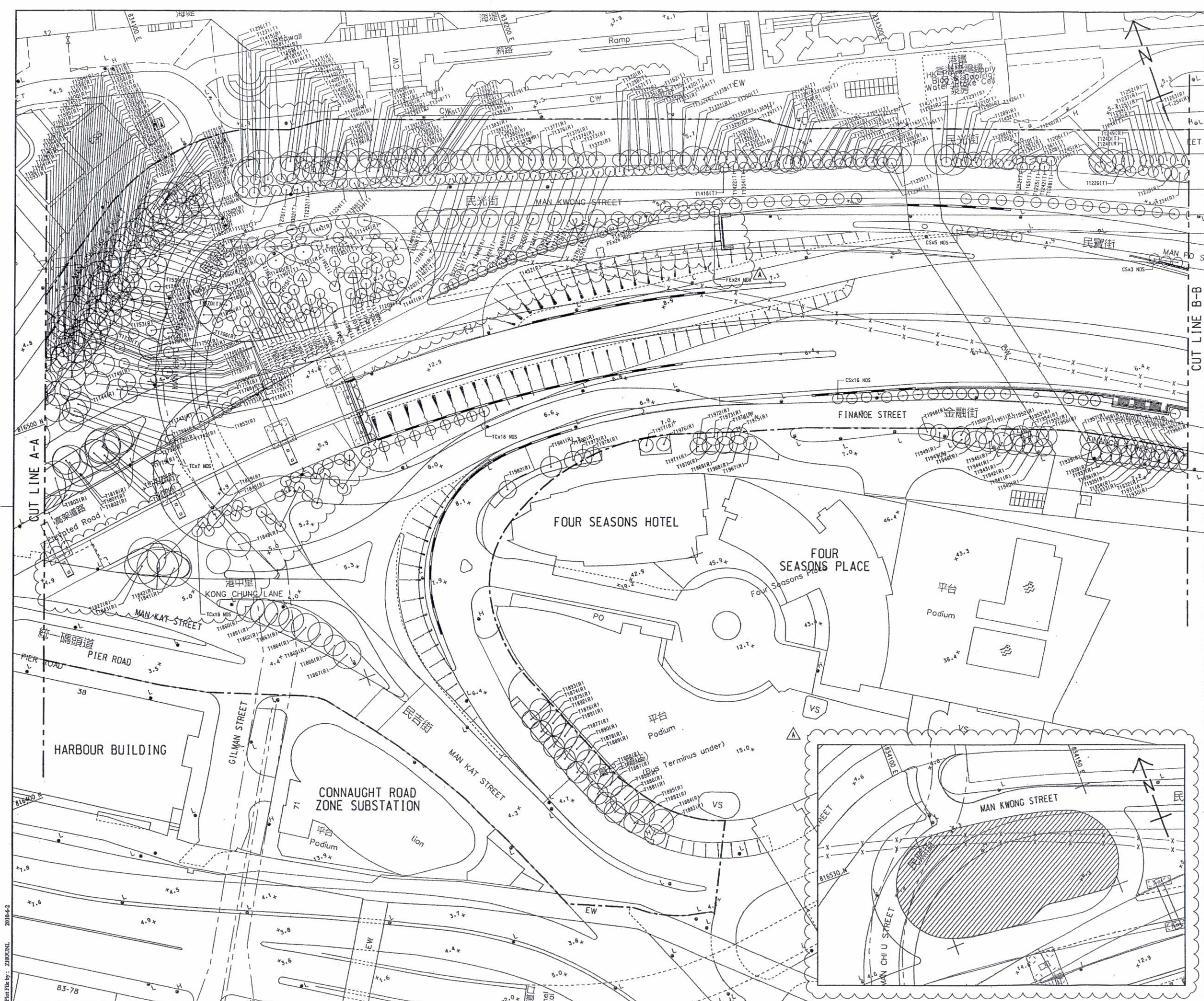
AECOM

DRG. NO. 60095653/CI/9011B

DESIGNED BY VLWK	CONTRACT NO. HY/2009/18	DATE 10/11/2009
DRAWN BY LHC	STATUS WORKING DRAWING	SCALE A1 1 : 500 A3 1 : 1000
DIMENSIONS ARE IN METRES		

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Project: 60095653/Drawing/CI/9000/CI_9011.dgn



KEY PLAN
SCALE A1 1 : 20000
A3 1 : 40000

NOTE:
1. FOR NOTES AND LEGEND SEE DRG. NO. 6009563/CI/9011.



B	WORKING DRAWING	ACHAN BCC	DCT 10
A	TENDER ADDENDUM NO. 1	ACHAN BCC	JUN 10
-	TENDER DRAWING	ACHAN BCC	APR 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 - CENTRAL INTERCHANGE

TREE PLANTING PLAN
SHEET 2 OF 3

AECOM

DRG. NO. 6009563/CI/9012B
圖紙編號

DESIGNED BY VLMK CONTRACT NO. HY/2009/18 P. BY APPROVED
繪圖員 審核員

SCALE A1 1 : 500 A3 1 : 1000 WORKING DRAWING
圖尺

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2010-02
PWP File by: ZHONGC
p:\projects\6009563\Drawing\CI\9000\CI_9012.dgn

highlight the location of

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

3. Analysis

Propose Treatment of Trees	Contract Trees	Additional Trees for works access
No. of trees to be transplanted	8 Nr.	5 Nr.
	13 Nr.	
No. of trees to be felled DBH 100-199	11 Nr.	4 Nr.
No. of trees to be felled DBH 200-299	6 Nr.	3 Nr.
No. of trees to be felled DBH 300-399	2 Nr.	2 Nr.
No. of trees to be felled DBH over 400	1 Nr.	1 Nr.
Total No. of trees to be felled	20 Nr.	10 Nr.
	30 Nr.	
Total DBH of the felled trees	4208 mm	2370 mm
	6578 mm	
Compensatory Trees	57 Nr. @ original DBH	33 Nr. @ DBH 75mm

* Contract Tree means Trees that are transplanted under Contract

Tree Treatment Proposal for Works at Elevated Lay-by in Portion VI

Recommendations

There will be total 16 Nr. of trees to be felled with DBH 100-199.
With normal compensatory tree DBH 75-95mm, within 3-5 years, canopy rate will be recovered to original.

There will be total 9 Nr. of trees to be felled with DBH 200-299.
With normal compensatory trees with DBH 75-95mm, within 6-12 years, canopy rate will be recovered to original.

There will be total 4 Nr. of trees to be felled with DBH 300-399.
With normal compensatory trees with DBH 75-95mm, according to our estimation, it will take minimum 12 -20 years to recover to original canopy rate.

There will be total 2 Nr. of trees to be felled with DBH over 400.
With normal compensatory trees with DBH 75-95mm, according to our estimation, it will take minimum 15 -25 years to recover to original canopy rate.

Conclusion:

For this proposal, within 20 years, estimate canopy rate will be recovered to recover the canopy rate to 90-95%.

Appendix M Location Plan for Holding Nursery



TOYO GREENLAND CO., LTD.
東陽綠化有限公司

Silver 銀禧 jubilee
30

Leighton Constructor (Asia) Limited
39th Floor, Sun Hung Kai Centre
30 Harbour Road
Hong Kong

Ref.: C2241/13/TGD2851
Date: 30 September 2013

Attn: Ms. Wayne LAW

Tel: (2214 7730)
By Fax: (2866 7141)
By Email: (wayne.law@leightonasia.com)

Dear Madam,

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange
Submission of Location Plan for the Transplanted Trees in Holding Nursery

We would like to submit herewith the tree location plan for the transplanted trees in Kam Tin holding nursery for your perusal.

If you require further information, please feel free to contact our Ms. Rachel YAN on 3760 1930 or the undersigned on 9090 9912.

Yours faithfully,
TOYO GREENLAND CO., LTD.

Mr. HO Tat Pui, Daniel
Managing Director
DH/DA/EP/Ry/jl


Encl. Tree Location Plan for Transplanted Trees

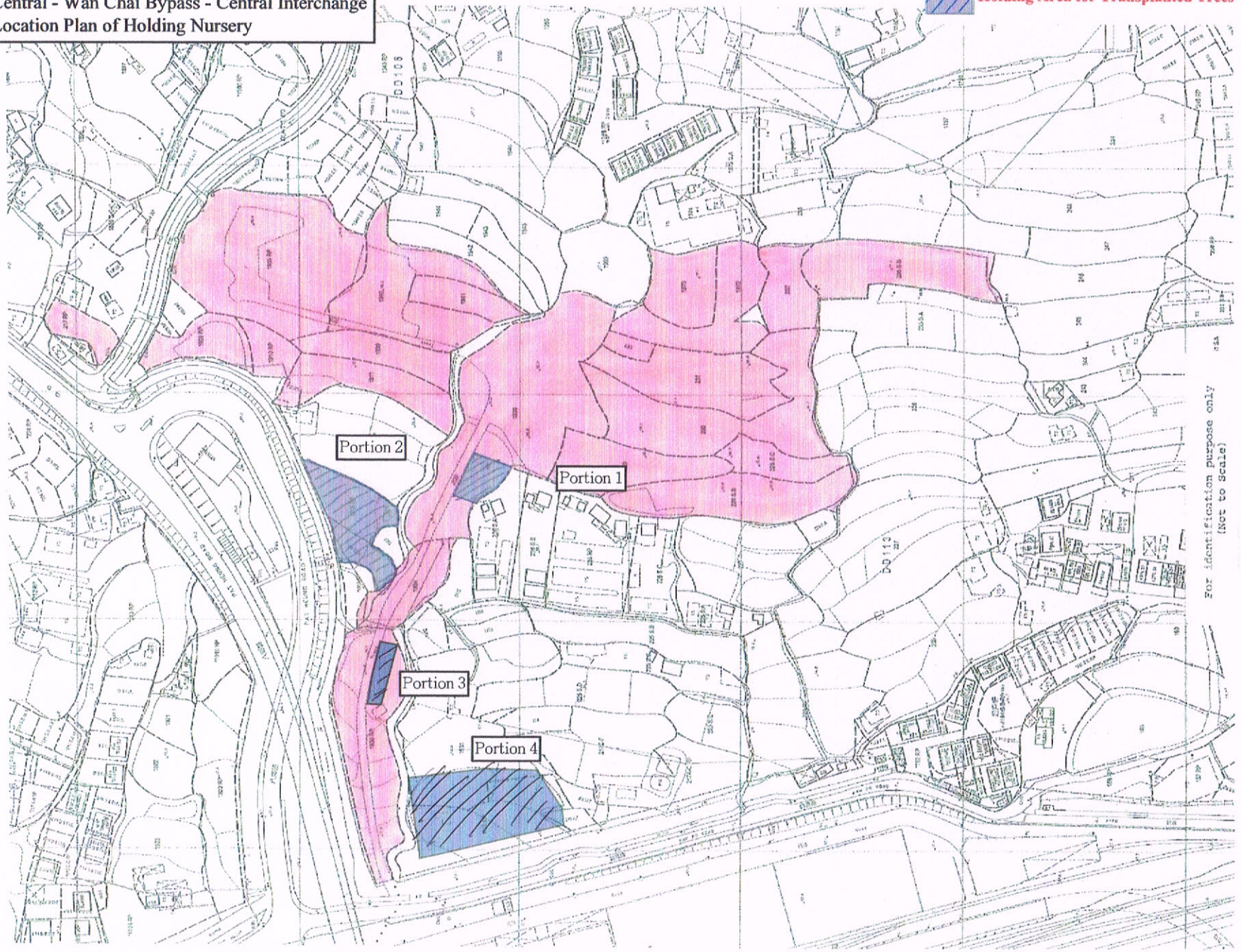


No. 58, South Section, Wah Shan Village, Sheung Shui, N.T., Hong Kong.

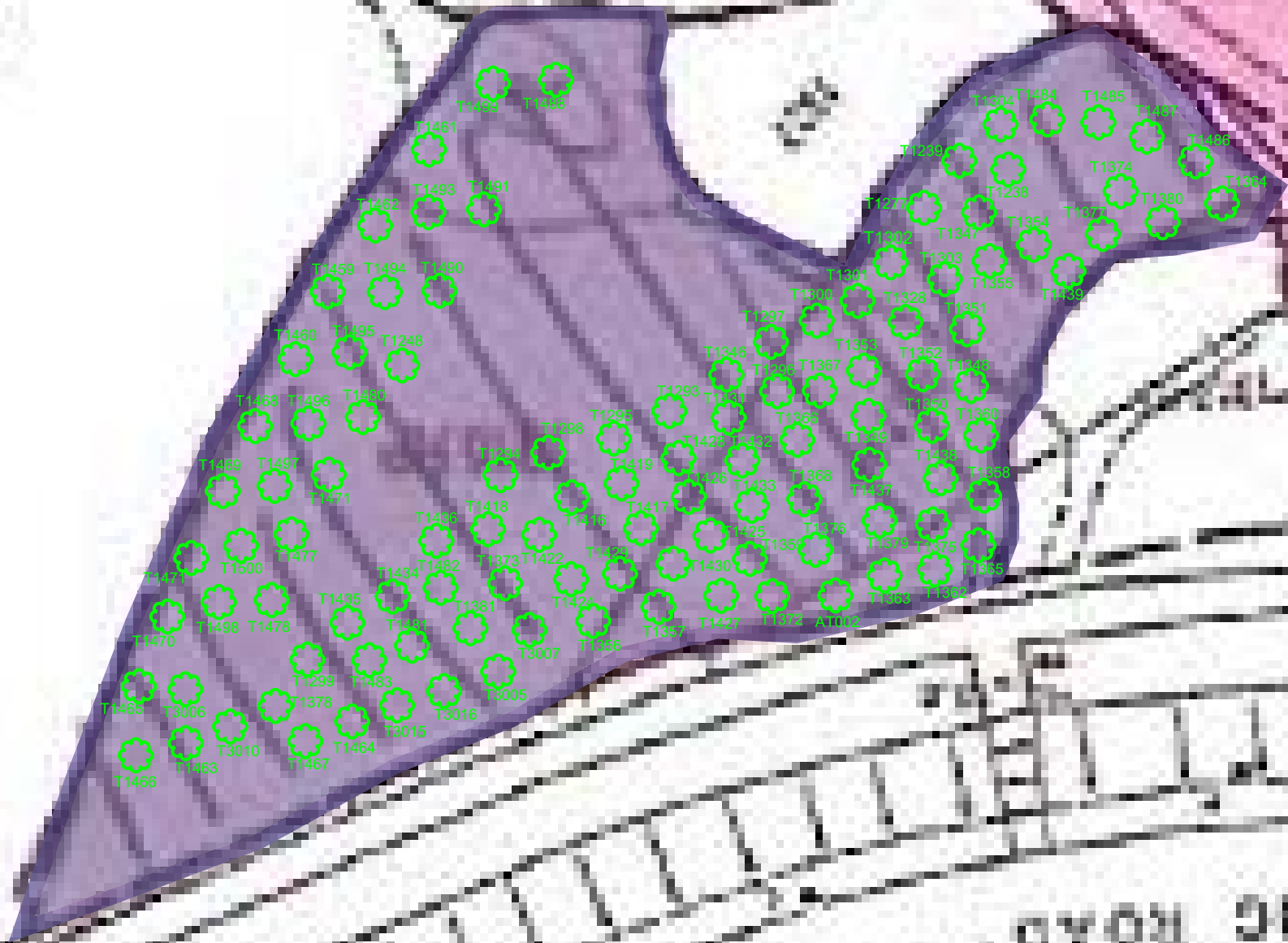
Tel: (852)2639 9312 Fax: (852)2377 2150 Website: www.toyogreen.com

Contract No.: HY/2009/18
Central - Wan Chai Bypass - Central Interchange
Location Plan of Holding Nursery

Legend:
 Holding Area for Transplanted Trees

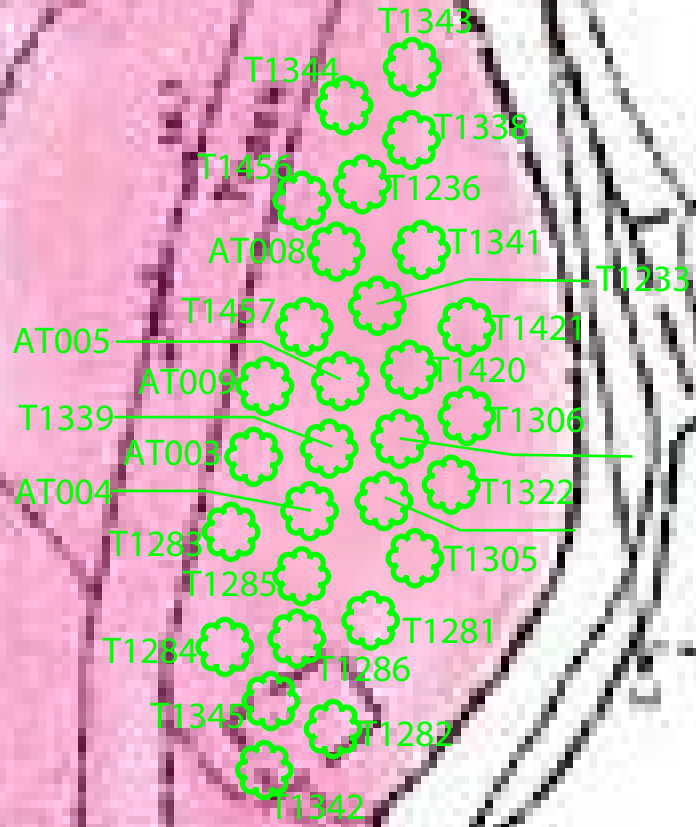






YU HUNG ROAD

Portion 3



PAT H

1830

1013



Portion 4



Appendix N List of Transplanted Tree from HY/2009/15

Tree No.	Tree Species	Chinese Name	Jurisdiction	Maintenance Dept./Agent	Size			Form (Good/ Fair/Poor)	Health condition (Good/ Fair/Poor)	Amenity value (High/ Medium/ Low)	Survival rate after transplanting (High / Medium / Low)	Recom- mendation (Retain/ Transplant /Fell)	Holding Nursery * (Lau Fau Shan)	Container ** (Yes / No)	Final Transplanting Location	Diameter of Rootball (m)	Remarks
					Overall Height (m)	Trunk Diameter (mm)	Average Crown Spread (m)										
T1900	<i>Ficus virens</i>	大葉榕	LCS D	FEHD	8.0	300	3.5	F	F	M	L	T	16/1/2013	No	Central Interchange Contract	2.0	Root grows on rock
T1902	<i>Ficus benjamina</i>	垂葉榕	LCS D	FEHD	7.5	370		F	F	L	M	T	16/1/2013	No	Central Interchange Contract	2.4	Root grows on rock
T1903	<i>Ficus benjamina</i>	垂葉榕	LCS D	FEHD	9.0	360	3.5	F	F	M	M	T	16/1/2013	No	Central Interchange Contract	2.1	Root grows on rock
T1904	<i>Ficus benjamina</i>	垂葉榕	LCS D	FEHD	8.0	385	3.5	F	F	L	M	T	16/1/2013	No	Central Interchange Contract	2.0	Root grows on rock
T1905	<i>Macaranga tanarius</i>	血桐	LCS D	FEHD	7.0	330	5.0	-	*** Dead	-	L	T	-	-	Central Interchange Contract		Root grows on rock, termite attack and removal before tree transplant. Compensation shall be responsible by contract HY200915.
T1906	<i>Celtis sinensis</i>	朴樹	LCS D	FEHD	8.5	380	6.0	-	*** Dead	-	M	T	-	-	Central Interchange Contract		Root grows on rock, refer to CCW/CSF/LDS/002073. Compensation shall be responsible by contract HY200915.
T1907	<i>Ficus variegata</i>	青果榕	LCS D	FEHD	8.0	190	3.5	-	*** Dead	-	L	T	-	-	Central Interchange Contract		Root grows on rock, refer to CCW/CSF/LDS/002073. Compensation shall be responsible by contract HY200915.
T1908	<i>Albizia lebeck</i>	大葉合歡	LCS D	FEHD	8.5	280	7.0	P	F	L	M	T	16/1/2013	No	Central Interchange Contract	2.0	Root grows on rock
T1909	<i>Bombax ceiba</i>	木棉	LCS D	FEHD	-	-	-	-	*** Dead	-	-	T	-	-	Central Interchange Contract		Root grows on rock, dead before handover. Compensation shall be responsible by contract HY200915.
T1910	<i>Ficus virens</i>	大葉榕	AFC D	LandsD	9.0	600	4.0	F	F	M	L	T	16/1/2013	No	Central Interchange Contract	2.5	Root grows on rock.
T1911	<i>Albizia lebeck</i>	大葉合歡	AFC D	LandsD	2.5	130	2.5	F	P	L	M	T	16/1/2013	No	Central Interchange Contract	1.6	Root grows on rock
T1912	<i>Ficus benjamina</i>	垂葉榕	AFC D	LandsD	4.0	170	2.5	F	F	M	M	T	16/1/2013	No	Central Interchange Contract	2.0	Root grows on rock
T2015	<i>Ficus microcarpa</i>	細葉榕	AFC D	LandsD	3.5	212	5.0	F	F	M	L	T	16/1/2013	No	Central Interchange Contract	2.4	Root grows on rock

Note: * The transplanted trees have been relocated from Tai Po Lam Tsuen Nolding Nursery to Lau Fau Shan Holding Nursery on 16/1/2013.

** No container was needed as per agreed working method at the holding nursery.

*** Under PSA 1.27 clause 2.3, CWB(CI) shall be responsible for taking up the responsibilities as specified in PS Clause 3.101(2) for the trees within CWB(T1) holding nursery once CWB(CI) commence his final transplanting works
Since the final transplanting works have not started yet, the compensation for 4 dead trees shall be responsible by Contract HY/2009/15.